



## COUNTY OF LAKE

COMMUNITY DEVELOPMENT DEPARTMENT  
Planning Division  
Courthouse - 255 N. Forbes Street  
Lakeport, California 95453  
Telephone 707/263-2221 FAX 707/263-2225

November 30, 2021

# CALIFORNIA ENVIRONMENTAL QUALITY ACT ENVIRONMENTAL CHECKLIST FORM INITIAL STUDY (UP 20-21, IS 20-24, EA 20-25, EA 21-24)

1. **Project Title:** High Valley Oaks, LLC
2. **Permit Numbers:**

|                  |                    |
|------------------|--------------------|
| Major Use Permit | UP 20-21           |
| Initial Study    | IS 20-24           |
| Early Activation | EA 20-25; EA 21-24 |
3. **Lead Agency Name and Address:** County of Lake  
Community Development Department  
Courthouse, 3<sup>rd</sup> Floor, 255 North Forbes Street  
Lakeport, CA 95453
4. **Contact Person:** Andrew Amelung, Associate Planner  
(707) 263-2221
5. **Project Location(s):** 9850 High Valley Road, Clearlake Oaks, CA  
APN: 006-004-19
6. **Project Sponsor's Name/Address:** High Valley Oaks, LLC  
245 Paula Lane  
Petaluma, California 94952
7. **General Plan Designation:** Rural Lands
8. **Zoning:** "RL"- "SC"
9. **Supervisor District:** District 3
10. **Flood Zone:** "D": Areas of undetermined, but possible, flood hazard risk;  
"X" Areas of minimal flooding – not in a special flood hazard area
11. **Slope:** The proposed cultivation site is relatively flat with some moderately sloped areas, overall ranging from 0 to 10 percent.
12. **Fire Hazard Severity Zone:** California State Responsibility Area (CALFIRE):  
Moderate Risk; Very High Risk
13. **Earthquake Fault Zone:** None

**14. Dam Failure Inundation Area:** Not located within Dam Failure Inundation Area

**15. Parcel Size:** 81.65 Total Acres

**16. Description of Project:**

The applicant, High Valley Oaks Cannabis Cultivation, is requesting discretionary approval from Lake County for a Major Use Permit, UP 20-21, for commercial cannabis cultivation at 9850 High Valley Road, Clearlake Oaks, assessor's parcel number (APN) 006-004-19, as follows:

*Four (4) A-Type 3: "Outdoor" licenses:* Outdoor cultivation for adult-use cannabis under direct sunlight. The applicant proposes four (4) acres [174,240 square feet (sq. ft.)] of commercial cannabis canopy area within an approximately six (6) acre cultivation area (261,360 sq. ft.).

*One (1) A-Type 13 Self-distribution License:* In the "RL" zoning district the Type 13 Distributor Only, Self-distribution State licenses are an accessory use to an active cannabis cultivation or cannabis manufacturing license site with a valid minor or major use permit. Per Article 27 Section 11 (ay), the parcel where the distributor transport only, self-distribution license is issued shall front and have direct access to a State or County maintained road or an access easement to such a road, the permittee shall not transport any cannabis product that was not cultivated by the permittee, and all non-transport related distribution activities shall occur within a locked structure. Furthermore, all guidelines for Distributor Transport Only License from the California Department of Cannabis Control's Title 4, Division 19, Chapter, as described in §15315, must be followed.

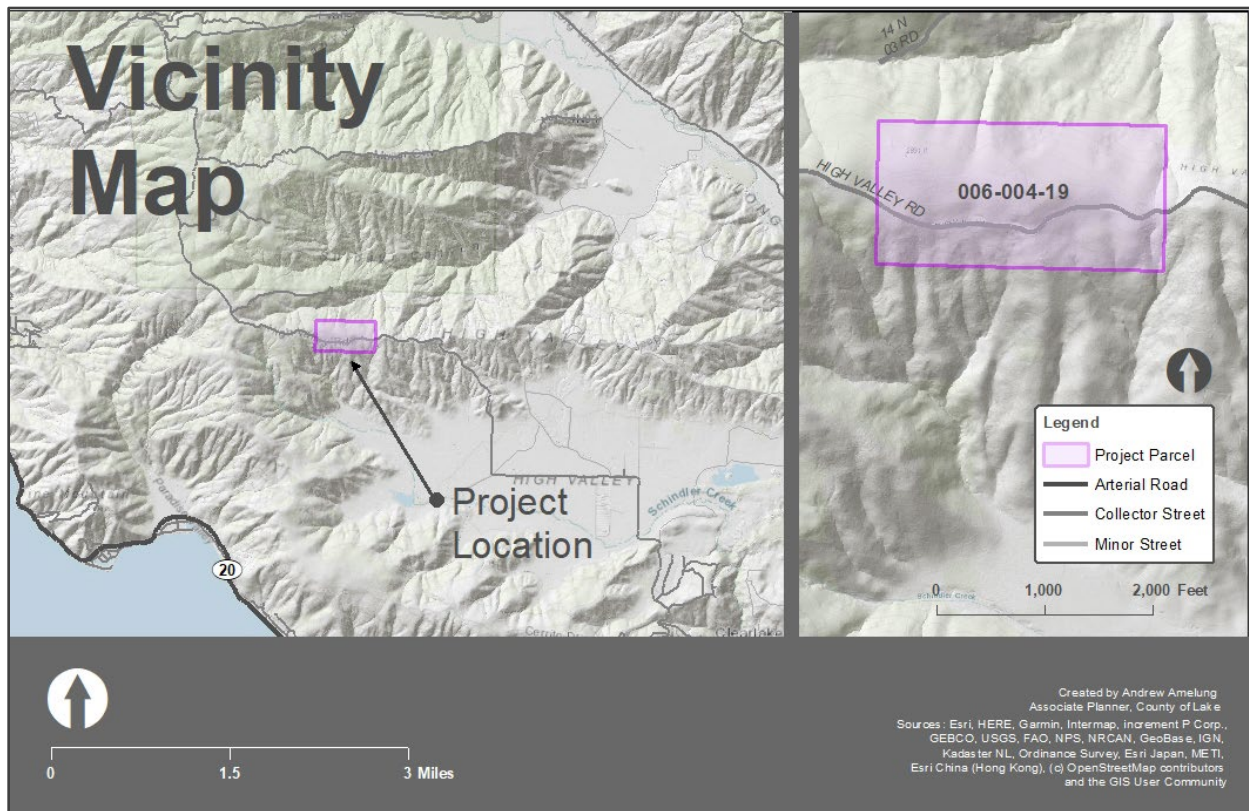


Figure 1. Vicinity Map

The proposed cultivation canopy areas would be located within three fenced-in cultivation areas: Area Number 1 (2 acres), Area Number 2 (1 acre), and Area Number 3 (1 acre), as shown in Figure 4. Mature plants will be grown outdoors within the three fenced-in cultivation areas, and will occur using direct sunlight in amended native soil. Grading and vegetation removal will be required to till the ground into furrows for planting cannabis. Living trees with a diameter of six (6) inches or greater at breast height (6-inch DBA) will not be removed.

The Project proposes the following:

- A 7,120 sq. ft. outdoor canopy area
- Two 43,560 sq. ft. outdoor canopy areas
- An existing 200 sq. ft. stormproof shed for office and security use (10'x20')
- A 64 sq. Ft. stormproof shed for chemical, pesticide, hazardous material storage (8'x8')
- An existing 320 ft. permitted groundwater well with a maximum yield of approximately 100 gallons per minute, and a 5 horse-power pump with a yield of 43 gallons per minute
- An existing well reserved for backup use
- An irrigation system using water pumps, polyvinyl chloride (PVC) piping, black poly tubing and drip tape
- Four existing 5,000-gallon water storage tanks for irrigation
- Four existing 1,050-gallon mixing tanks for irrigation
- Two employee parking areas with approximately 12 spaces and one ADA compliant space
- A portable solar generator with batteries on trailer bed
- Two temporary structures for drying and curing of cannabis
- A 160 sq. ft. harvest storage area (8' x 20')

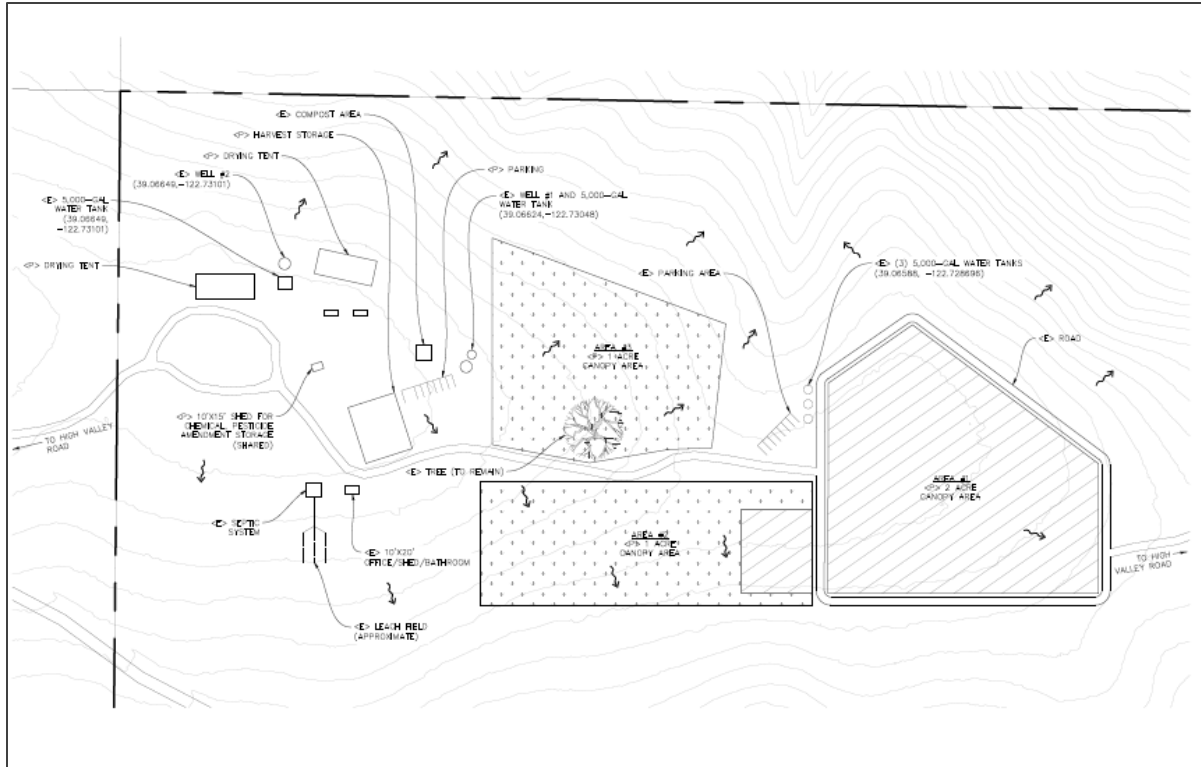


Figure 2. High Valley Oaks Site Plan

According to the applicant's Property Management Plan, fertilizers and pesticides will be stored within a 150 sq. ft. stormproof storage shed. All solid waste will be kept in a secured area and regularly removed to be disposed of at waste disposal facility. Any plant waste will be chipped/mulched and spread around the cultivation area or composted on site within an approximately 400 sq. ft. compost area and reused as soil amendment.

Water for the cultivation activities will be supplied from an existing groundwater well (Well #1). The well is approximately 320 feet in depth with a yield of approximately 100 gallons per minute (gpm) and was drilled in 2020. The well has a 5hp pump with a maximum output of 43 gpm. A 4-hour well drawdown test was conducted on May 4, 2021, and the static water level was 206-feet with a drawdown of 2-feet during the test. There is another existing well on the property (Well #2), that will only be used as a backup well.

The irrigation system for the cultivation operations will use water supplied by the existing well and 5HP pump. Well water will be pumped into four (4) 5,000-gallon water storage tanks using polyvinyl chloride (PVC) piping, and transferred to the cultivation sites using black poly tubing and drip tape. A mixing tank will be used to add liquid fertilizers and other amendments to the irrigation water periodically. The water will be delivered to the cultivation area using a drip irrigation technique. According to the Water Use section of the applicant's Property Management Plan, the daily water consumption would be approximately 3,000 gallons per day (2.1 GPM) per acre of canopy. Daily demand for four (4) acres of canopy would be approximately 12,000 gallons or an average of 8.2 GPMs. The annual demand, assuming a 120-day growing period between June and October, will be approximately 1,440,000 gallons (4.4 acre-feet).

Electricity for the Project will be produced through an array of photovoltaic solar panels, which will power the security cameras, security lights, and water pumps. The solar system is installed on a portable trailer bed and can be moved around the cultivation area as needed.

Operations will occur up to seven days per week from March through November, with growing periods occurring between May or June through October (depending on drought conditions). The operation hours will be Monday through Sunday during daylight hours from approximately 6:00 a.m. to 10:00 p.m. The Lake County Zoning Ordinance restricts deliveries and pickups to 9:00 a.m. to 7 p.m., Monday through Saturday, and Sunday from 12 noon to 5:00 p.m. Once operational, the proposed Project would staff approximately two (2) full-time employees and three (3) to five (5) seasonal employees for planting and harvesting.

Daily traffic commutes during regular operations would be approximately two (2) to four (4) trips during regular operations and up to twelve (12) commutes during the peak cultivation season. Weekly truck deliveries of various project-related materials would occur throughout the cultivation season.

The cultivation site is accessed from High Valley Road, a gravel road maintained by the County of Lake. Onsite gravel roads averaging 15 feet in width provide access to the cultivation site from High Valley Road at two (2) locations.

The cultivation sites (Areas #1, #2, and #3) will be surrounded with 6-foot deer fencing, with access using 14-foot wide gates at each cultivation area, secured by padlocks. Security cameras will be installed around the perimeters of the cultivation areas and at other points of access in compliance with the Lake County Zoning Ordinance.

According to the applicant's Property Management Plan, the following erosion control measures will be followed:

- Preserve existing vegetation where required and when feasible
- Apply temporary erosion control measures at regular intervals throughout the defined rainy season to achieve and maintain stability
- Implement erosion control prior to the defined rainy season
- Control erosion in concentrated flow paths by applying erosion control devices
- Divert run-on and stormwater generated from within the facility away from all erodible materials

High Valley Oaks Inc. is enrolled in the State Water Board's Order No. WQ 2019-001-DWQ as a Tier 2, Low Risk site (WDID No. 5S17CC429313). As required in the Cannabis Order's Policy for coming into compliance with Best Practicable Treatment or Control (BPTC) measures, the applicant had to prepare a Site Management Plan (SMP) and a Nitrogen Management Plan (NMP) within 90 days of enrollment. "The purpose of the Cannabis Policy is to ensure that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, and springs" (State Water Board, 2019). BPTC measures have been implemented at the site for erosion control and stormwater pollution. The purpose of the NMP is to identify how nitrogen is stored, used, and applied to crops in a way that is protective to water quality. The applicant is required to complete online Annual Monitoring and Reporting to assess compliance with the Cannabis General Order and Notice of Applicability. This includes BPTC measures for winterization.

## 17. Environmental Setting and Existing Conditions:

The proposed High Valley Oaks cannabis Project is located at 9850 High Valley Road (APN 006-004-19), approximately four (4) miles northwest of Clearlake Oaks (Section 15, Township 14N, Range 8W, Mount Diablo Base and Meridian, in the Clearlake Oaks USGS 7.5 minute quadrangle). The proposed Project is located in the Shoreline Communities Planning Area.

The surrounding land uses are largely open space and rural residential land. The property consists of rugged, mountainous topography, consisting of a ridge and sloping hills with elevations ranging from 2,445 feet to 2,895 feet above sea level. The proposed Project is located on a ridge and there are no springs, creeks or seasonal streams, edges of a lake, delineated wetlands or vernal pools within the proximity of the proposed cultivation area (Figure 2). There is an ephemeral watercourse to the north of the property that is beyond the 100-foot setback requirement from fertilizer or pesticide use as described in Article 27.11 (at) subsection 2. The property drains to both the north and south of the property, with the ridgeline sloping to the east. Water draining north from the ridge flows into the Sulphur Creek watershed, a tributary to Long Valley Creek, which flows east and then south, eventually reaching Cache Creek and the Sacramento River. Water draining south from the ridge flows into the Schindler Creek and the Sacramento River. Water draining south from the ridge falls within the Schindler Creek watershed, which is a tributary to Clear Lake, approximately six (6) miles to the southeast. The climate of the site is characterized by a Mediterranean-type climate, with distinct seasons consisting of hot, dry summers and wet, moderately cold winters.

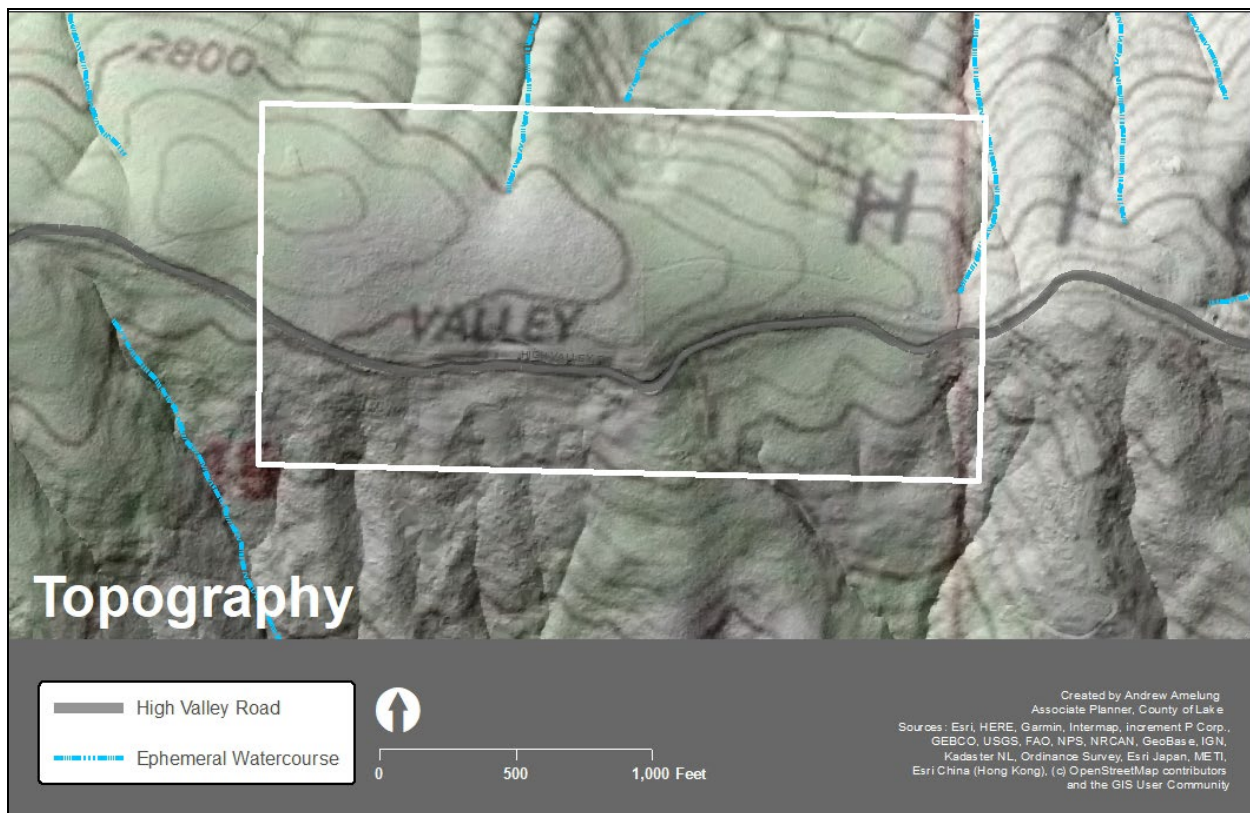


Figure 3. USGS Topography and Drainage



The subject site and surrounding area contains rural residential land and open space areas that consist of ranches, grazing land, vineyards, and cannabis cultivation farm operations. The vegetation generally consists of mixed oak/conifer forest, manzanita and chaparral. In 2018, most of the vegetation and trees on the subject parcel were burned as a result of the Mendocino Complex Fire, including a small residence (Figure 3). Much of the ground was burned bare and cleared within the proposed Project areas as a result of the fire and efforts by CALFIRE to create a firebreak in the area.

Early activation (EA 20-25) of the proposed use permit (UP 20-21) was granted June 1, 2020, to allow for commercial outdoor cultivation of one cultivation area containing up to 108,900 sq. ft. of cultivation area with 87,120 sq. ft. of canopy area. The early activation area can be seen in Figure 3. The early activation Project included obtaining State licenses, and harvesting a crop in early fall of 2020. Vegetation, especially chamise chaparral, annual grassland species, and sprouted manzanita, on the parcel is recovering from the fire, outside the area that was early activated.

The site is accessed from a gravel interior driveway which is accessed from High Valley Road, and the Project parcel includes an existing 150 sq. ft. office with restroom, an existing permitted septic tank with leach field, internal compacted dirt access roads, two (2) wells, and four (4) water storage tanks.

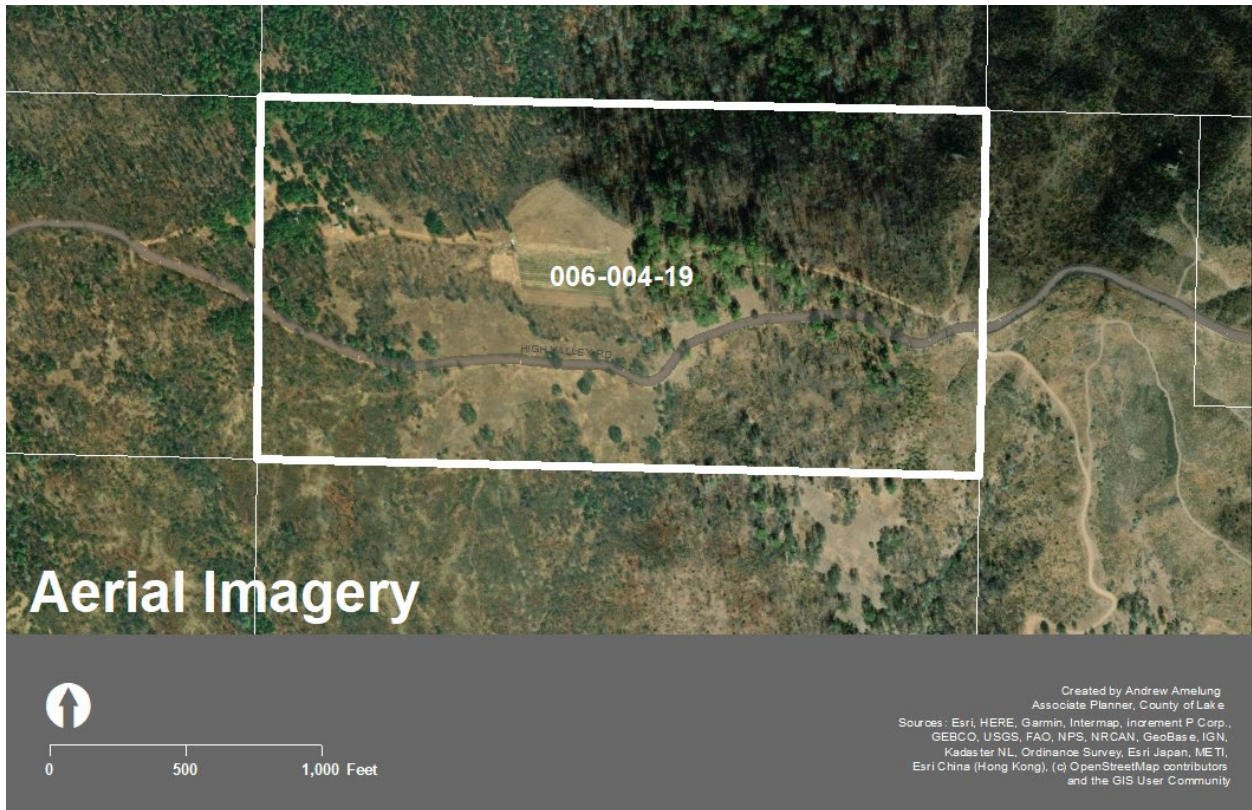


Figure 4. Lake County Aerial Imagery – 2020

## 18. Surrounding Land Uses and Setting:

As the parcel for the proposed Project is over five (5) acres in size, neighboring parcels that fall within a 725-foot buffer will be notified of the Project. These parcels include:

- North: 9500 High Valley Rd; Parcel Number 006-004-02; Zoned Rural Land
- Northeast: 10590 High Valley Rd; Parcel Number 006-004-23; Zoned Open Space (Public BLM Land)
- East & Southeast: 10535 High Valley Rd; Parcel Number 006-004-22; Zoned Rural Land
- South: 9509 High Valley Rd; Parcel Number 006-004-04; Zoned Rural Land
- Southwest: 8985 High Valley Rd; Parcel Number 006-004-20; Zoned Rural Land
- West: 9255 High Valley Rd; Parcel Number 006-004-18; Zoned Rural Land
- Northwest: 9000 High Valley Rd; Parcel Number 006-004-01; Zoned rural Land

As the parcel to the northeast of the proposed Project is publicly owned land managed by the Bureau of Land Management (BLM), it is considered an exclusion zone. The County of Lake applies a 1,000 foot setback for Project areas from publicly owned lands that are actively used and/or accessible by the public. The current Project proposal does not fall within this setback and is clear from any public land exclusion areas. Access to the Project site along High Valley Road does traverse through approximately 0.5 miles of BLM land, located 0.5 miles west of the first access point. Due to this the applicant should be aware of this situation and will be required to sign an Assumption of Risk and Indemnification Agreement for permitting purposes.

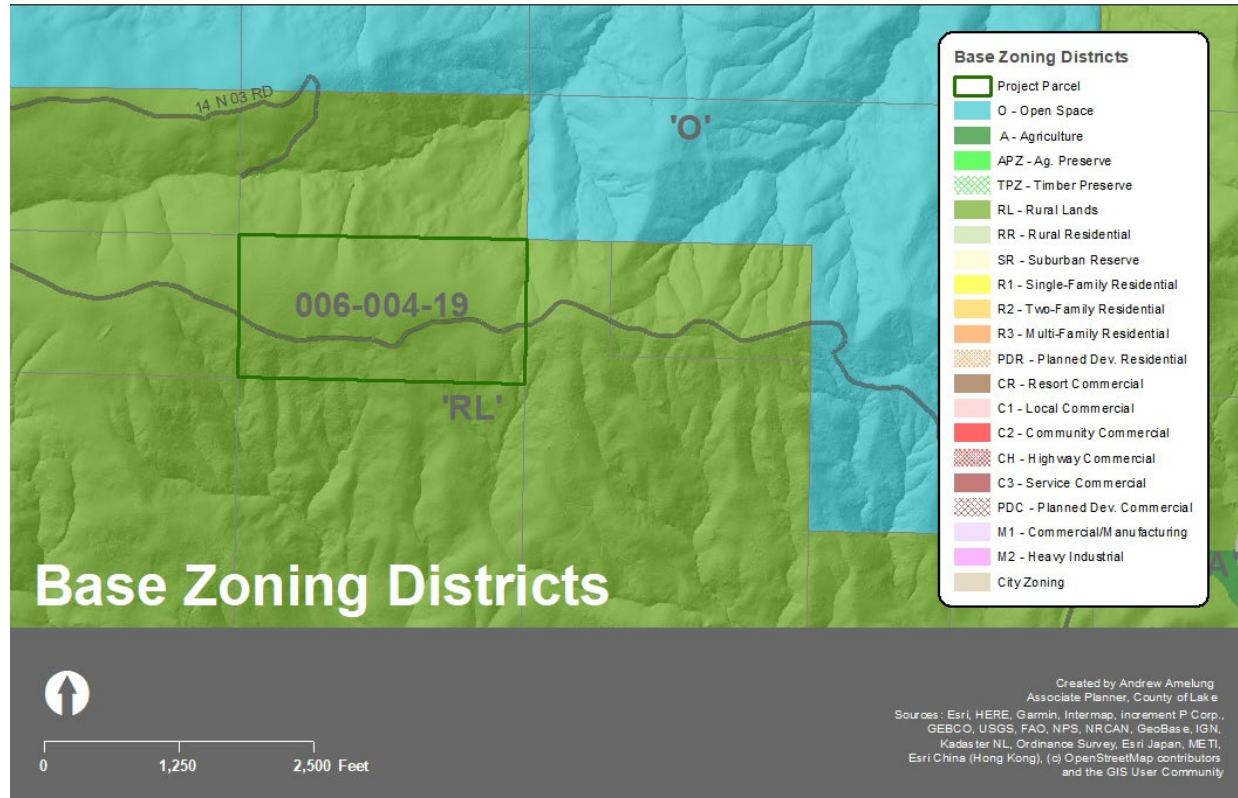


Figure 5. Lake County Base Zoning District



**19. Other public agencies whose approval is required (e.g., Permits, financing approval, or participation agreement).**

The extent of this environmental review falls within the scope of the Lead Agency, the Lake County Community Development Department, and its review for compliance with the Lake County General Plan, the Northshore Area Plan, the Lake County Zoning Ordinance, and the Lake County Municipal Code. Other organizations in the review process for permitting purposes, financial approval, or participation agreement can include but are not limited to:

- Lake County Department of Environmental Health
- Lake County Air Quality Management District
- Lake County Department of Public Works
- Lake County Department of Public Services
- Lake County Agricultural Commissioner
- Lake County Sheriff Department
- Northshore Fire Protection District
- Department of Motor Vehicles
- Central Valley Regional Water Quality Control Board
- California Water Resources Control Board
- California Department of Food and Agricultural
- California Department of Pesticides Regulations
- California Department of Public Health
- California Bureau of Cannabis Control
- California Department of Consumer Affairs
- California Department of Fish & Wildlife (CDFW)
- California Department of Forestry & Fire Protection (CALFIRE)
- California Department of Transportation (CALTRANS)

**20. Have California Native American tribes traditionally and culturally affiliated with the Project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and Project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process, per Public Resources Code §21080.3.2. Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3 (c) contains provisions specific to confidentiality.

Notification of the Project was sent to local tribes on March 4, 2020. The Director of Cultural Resources for the Yocha Dehe Wintun Nation responded with a letter dated March 16, 2020, and concluded the Project is not within their territories. An updated notification of the project was sent to the Elem Indian Colony of Pomo and the Robinson Rancheria in September 2021. No further comments or concerns were received from local tribes regarding this Project to date.

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Aesthetics            | <input checked="" type="checkbox"/> Greenhouse Gas Emissions      | <input type="checkbox"/> Public Services                               |
| <input type="checkbox"/> Agriculture & Forestry Resources | <input checked="" type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Recreation                                    |
| <input checked="" type="checkbox"/> Air Quality           | <input checked="" type="checkbox"/> Hydrology / Water Quality     | <input type="checkbox"/> Transportation                                |
| <input checked="" type="checkbox"/> Biological Resources  | <input type="checkbox"/> Land Use / Planning                      | <input checked="" type="checkbox"/> Tribal Cultural Resources          |
| <input checked="" type="checkbox"/> Cultural Resources    | <input type="checkbox"/> Mineral Resources                        | <input type="checkbox"/> Utilities / Service Systems                   |
| <input type="checkbox"/> Energy                           | <input checked="" type="checkbox"/> Noise                         | <input type="checkbox"/> Wildfire                                      |
| <input checked="" type="checkbox"/> Geology / Soils       | <input type="checkbox"/> Population / Housing                     | <input checked="" type="checkbox"/> Mandatory Findings of Significance |

**DETERMINATION: (To be completed by the lead Agency)**

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed Project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Initial Study Prepared By:  
Andrew Amelung, Associate Planner

\_\_\_\_\_  
SIGNATURE

Date: \_\_\_\_\_

\_\_\_\_\_  
Community Development Department

## SECTION 1

### EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to Projects like the one involved (e.g., the Project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on Project-specific factors as well as general standards (e.g., the Project will not expose sensitive receptors to pollutants, based on a Project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as Project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, and then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c) (3) (D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures, which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the Project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a Project's environmental effects in whatever format is selected.

- 9) The explanation of each issue should identify:
- a) The significance criteria or threshold, if any, used to evaluate each question; and
  - b) The mitigation measure identified, if any, to reduce the impact to less than significance

| <b>I. AESTHETICS</b>   | <b>Potentially Significant Impact</b> | <b>Less Than Significant With Mitigation Measures</b> | <b>Less Than Significant Impact</b> | <b>No Impact</b>         | <b>Source Number</b> |
|--|---------------------------------------|---|-------------------------------------|--------------------------|----------------------|
| Except as provided in Public Resource Code Section 21099, would the project:   |                                       |   |                                     |                          |                      |
| a) Have a substantial adverse effect on a scenic vista?  | <input type="checkbox"/>              | <input checked="" type="checkbox"/>                   | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 4, 5, 6, 9  |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?   | <input type="checkbox"/>              | <input type="checkbox"/>                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2, 3, 4, 9           |
| c) Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area would the project conflict with applicable zoning and other regulations governing scenic quality? | <input type="checkbox"/>              | <input type="checkbox"/>                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 6, 9  |
| d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?  | <input type="checkbox"/>              | <input checked="" type="checkbox"/>                   | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 4, 5, 6, 9  |

**Discussion:**

- a) The General Plan Land Use Zone and Zoning District designation currently assigned to the Project site is Rural Land (RL) – Scenic Combining (SC). The Lake County Zoning Ordinance allows for commercial outdoor cannabis cultivation in the RL land use zone with a major use permit.

The “SC” Zoning District, as described in the Lake County Zoning Ordinance Article 34.1, sets forth to “protect and enhance views of scenic areas from the County’s scenic highways and roadways for the benefit of local residential and resort development, the motoring public, and the recreation based economy of the County.” According to Article 34.2, scenic criteria that applies to the Project parcel include 1) varied topographic features including dominant hills and mountains; 2) vegetative features including significant stands of trees and plants; and 3) pastoral features such as pastures and vineyards, all visible from High Valley Road at the location of the Project site.

The uses permitted described in Article 34.3 do not apply to the proposed Project, and the requirement of a major use permit as described in Article 34.4 is satisfied through the current use permit application. The proposed project meets the performance standards as described in Article 34.11.

The canopy and cultivation area are uphill and to the north of the High Valley Road, they are not generally visible from the Road, and they do not obstruct views of vineyards, dominant hills, and mountains to the south. Existing stands of trees and plants further screen the project site from the general public.

A section of the security fence will be visible from the High Valley Road on the southeast section of the project site, and can be mitigated through the requirement of additional landscaping and tree planting as set forth in the performance standards set forth in Article 34.11 and described in Mitigation Measure AES-1.

**Less than Significant Impact with Mitigation Measure AES-1 incorporated:**

**AES-1: The cultivation area shall be screened from public view. Methods of screening may include, but are not limited to, topographic barriers, vegetation, or solid (opaque) fences.**

- b) The Project site is located at 9850 High Valley Road, which is not identified as “Officially Designated” or an “Eligible State Scenic Highway-Not Officially Designated”, however the Shoreline Communities Area Plan has designated High Valley Road as a “Scenic Route” between Clearlake Oaks and Bartlett Springs Road near Lucerne. Despite this, the Project site is not visible from High Valley Road due to vegetative features that provide natural screening. Therefore, there will be no significant impact.

Although State Highway 20 is on the State’s Eligible State Scenic Highways, it has not been officially designated. State Highway 20 is located approximately 1.73 miles south of the Project parcel. The parcel is not visible from State Highway 20 due to the existing topography, primarily a major ridgeline on the south side of High Valley that blocks any views of the property, which is on a ridgeline north of High Valley.

Furthermore, the County of Lake has not applied to the California Department of Transportation for official Scenic Highway status nor does the County’s General Plan (or other policies or directives) require the County to do so.

There are no scenic resources, rock outcroppings, or historic buildings on or in the vicinity of this property. The Project parcel has a Scenic Corridor (SC) combining zone designation, with scenic resources described as “vegetative features including significant stands of trees” which are currently recovering from the Mendocino Complex Fire while providing screening from the proposed Project site.

**Less than Significant Impact**

- c) Given that the primary scenic views from the stretch of High Valley Road along the parcel are to the south, and the project site is located to the north and almost entirely out of view from the public, no significant impacts are expected. The proposed use will not substantially degrade the existing visual character of the site or the quality of public views of the surrounding area as there are no additional major structures being proposed.



No major physical changes to the site are proposed or needed other than the preparation of the cultivation areas and the construction of the work and storage areas. The site is not within an urbanized area, and is not highly visible from any public property.

**Less than Significant Impact**

- d) The Project has some potential to create additional light and/or glare through exterior security lighting. The proposed use is an outdoor cultivation operation. The Project does not involve cultivation using proposed greenhouses incorporating artificial lighting. The following mitigation measures will be implemented which would reduce the impacts to less than significant:

**Less than Significant Impact with Mitigation Measures AES-2 through AES-4 incorporated:**

**AES-2:** All outdoor lighting shall be directed downward onto the Project site and not onto adjacent properties. All lighting equipment shall comply with the recommendations of [www.darksky.org](http://www.darksky.org).

**AES-3:** All indoor lighting shall be fully contained within structures or otherwise shielded to fully contain any light or glare. Artificial light shall be completely shielded between sunset and sunrise.

**AES-4:** Security lighting shall be motion activated and all outdoor lighting shall be shielded and downcast or otherwise positioned in a manner that will not shine light or allow light glare to exceed the boundaries of the lot of record upon which they are placed.

**II. AGRICULTURE AND FORESTRY RESOURCES**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                           | Source Number                |
|--|--------------------------------|--|------------------------------|-------------------------------------|------------------------------|
| Would the project:   |                                |  |                              |                                     |                              |
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 7, 8, 11, 13, 39 |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5, 7, 8, 11, 13  |
| c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5, 7, 8, 11, 13  |
| d) Result in the loss of forest land or conversion of forest land to non-forest use?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5, 6, 9          |

- e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

1, 2, 3, 4,  
5, 7, 8, 11,  
13

Discussion:

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest protocols adopted by the California Air Resources Board.

- a) According to the California Department of Conversation Farmland Mapping and Monitoring Program the Project site is not mapped as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, and falls within the classification of Grazing Land, an agricultural use that can be considered farmland per California Government Code §51201(c) described as "(3) Land which supports livestock used for the production of food and fiber".

The Project site does not contain suitable soils for agricultural use based on the Natural Resources Conservation Service Web Soil Survey (refer to VII. GEOLOGY AND SOILS).

As the proposed Project is classified as Grazing Land, an agricultural use, the Project would not be converting farmland that is high quality or significant farmland to a non-agricultural use.

**No Impact**

- b) Under Article 27.11 of the Lake County Zoning Ordinance, Outdoor Cannabis Cultivation is permitted on parcels with a Base Zoning District of "RL" with a minimum of 20 acres. The Project parcel consists of 81.6 acres.

The Project site is currently zoned RL-SC: Rural Land – Scenic Combining, which is consistent with its land use designation as Rural Land as described in the County of Lake General Plan Chapter 3 – Land Use.

According to the County of Lake, Rural Lands "(allow) agricultural uses and single family dwellings. Allowable density of one dwelling per 20-65 acres. Steep slopes, fire hazard and remoteness often restrict development." Scenic Combining Lands are "used to protect scenic views (and) prohibits offsite advertising, sanitary landfills, outdoor storage, singlewide and commercial mobile homes."

Agricultural uses as described in California Government Code §51201(c) are generally allowed on Rural Lands, and the site is not under a Williamson Act contract.

The cultivation portion of the site would not interfere with the ability of the owner or neighbors to use the remaining land for more traditional crop production and/or grazing land.

**No Impact**

- c) Public Resources Code §12220(g) defines “forest land” as land that can support 10% native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.

Public Resources Code §4526 defines “timberland” as land, other than land owned by the federal government and land designated by the State Board of Forestry and Fire Protection as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees.

Government Code §51104(g) defines “timberland production zone” as an area that has been zoned pursuant to Government Code Section 51112 or 51113 and is devoted to and used for growing and harvesting timber, or for growing and harvesting timber and compatible uses.

The Project site is currently zoned Residential Lands (RL-SC). The Project site does not contain any forest lands, timberland, or timberland zoned Timberland Production lands, nor are any forest lands or timberlands located on or nearby the Project site. Because no lands on the Project site are zoned for forestland or timberland, the project has no potential to impact such zoning. The Project does not propose a zone change that would rezone forest land, timberland, or timberland zoned for Timberland Production. No impact would occur.

**No Impact**

- d) The Project site and surrounding properties do not contain forest lands, are not zoned for forest lands, nor are they identified as containing forest resources by the General Plan. Because forest land is not present on the Project site or in the immediate vicinity of the Project site, the proposed Project has no potential to result in the loss of forest land or the conversion of forest land to non-forest use. No impact would occur.

**No Impact**

- e) Lands surrounding the Project site include privately-owned, undeveloped land to the immediate north, east, southeast, south, southwest, west, and northwest, all of which are zoned Rural Lands. Undeveloped land to the northeast zoned Open Space is owned and managed by the Bureau of Land Management. Given the absence of farmland or forest land on the Project site and the undeveloped character of surrounding lands, the proposed Project would have no potential to convert farmland to non-agricultural use or forest land to non-forest use. No impact would occur.

**No Impact**

### III. AIR QUALITY

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number                     |
|--|--------------------------------|--|-------------------------------------|--------------------------|-----------------------------------|
| Would the project:   |                                |  |                                     |                          |                                   |
| a) Conflict with or obstruct implementation of the applicable air quality plan?  | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 3, 4, 5, 21, 24, 31, 36        |
| b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under and applicable federal or state ambient air quality standard? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 21, 24, 31, 36     |
| c) Expose sensitive receptors to substantial pollutant concentrations?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 4, 5, 10, 21, 24, 31, 36 |
| d) Result in other emissions (such as those leading to odors or dust) adversely affecting a substantial number of people?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 21, 24, 31, 36     |

#### Discussion:

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

- a) The Project site is located within the Lake County Air Basin, which is under the jurisdiction of the Lake County Air Quality Management District (LCAQMD). The LCAQMD applies air pollution regulations to all major stationary pollution sources and monitors air quality. The Lake County Air Basin is in attainment with both state and federal air quality standards.

According to the USDA Soil Survey and the ultramafic, ultrabasic, serpentine rock and soils map of Lake County, serpentine soils have not been found within the Project area or Project vicinity and would pose no threat of asbestos exposure during either the construction phase or the operational phase.

Due to the fact that the Lake County Air Basin is in attainment of both state and federal air quality standards, LCAQMD has not adopted an Air Quality Management Plan, but rather uses its Rules and Regulations to address air quality standards.

According to the Lake County Zoning Ordinance section on Commercial Cannabis Cultivation (§27.11), Air Quality must be addressed in the Property Management Plan. The intent of addressing this is to ensure that “all cannabis permittees shall not degrade the County’s air quality as determined by the Lake County Air Quality Management District” and that “permittees shall identify any equipment or activity that may cause, or potentially cause the issuance of air contaminants including odor and shall identify measures to be taken to reduce, control or eliminate the issuance of air contaminants, including odors”. This includes obtaining an Authority to Construct permit pursuant to LCAQMD Rules and Regulations.

The proposed Project has the potential to result in short- and long-term air quality impacts from construction and operation of the proposed Project.

Construction impacts, which are limited to tilling the ground and preparing soils for planting, would be temporary in nature and would occur over about a two (2) to six (6) week period. Ongoing field management is considered an operational, not construction, activity.

Operational impacts would include dust and fumes from site preparation of the cultivation area and vehicular traffic, including small delivery vehicles that would be contributors during and after site preparation and construction.

Implementation of mitigation measures would reduce air quality impacts to less than significant. Dust during site preparation would be limited during periods of high winds (over 15 mph). All visibly dry, disturbed soil and road surfaces would be watered to minimize fugitive dust emissions.

Dust and fumes may be released as a result of vehicular traffic, including small delivery vehicles. Minor grading is proposed. Additionally, implementation of mitigation measures below would further reduce air quality impacts to less than significant.

**Less than Significant Impact with Mitigation Measures AQ-1 through AQ-6 incorporated:**

**AQ-1: Prior to obtaining the necessary permits and/or approvals for any phase, applicant shall contact the Lake County Air Quality Management District (LCAQMD) and obtain an Authority to Construct (A/C) permit for all operations and for any diesel-powered equipment and/or other equipment with potential for air emissions. Or provide proof that a permit is not needed.**

**AQ-2: All mobile diesel equipment used must be in compliance with state registration requirements. Portable and stationary diesel powered equipment must meet all federal, state, and local requirements, including the requirements of the State Air Toxic Control Measures for compression ignition engines. Additionally, all engines must notify LCAQMD prior to beginning construction activities and prior to engine use.**

**AQ-3: The applicant shall maintain records of all hazardous or toxic materials used, including a Material Safety Data Sheet (MSDS) for all volatile organic compounds utilized, including cleaning materials. Said information shall be made available upon request and/or the ability to provide the LCAQMD such information in order to complete an updated Air Toxic emission Inventory.**



**AQ-4:** All vegetation during site development shall be chipped and spread for ground cover and/or erosion control. The burning of vegetation, construction debris, including waste material is prohibited.

**AQ-5:** The applicant shall have the primary access and parking areas surfaced with chip seal, asphalt or an equivalent all weather surfacing to reduce fugitive dust generation. The use of white rock as a road base or surface material for travel routes and/or parking areas is prohibited.

**AQ-6:** All areas subject to infrequent use of driveways, over flow parking, etc., shall be surfaced with gravel, chip seal, asphalt or an equivalent all weather surfacing. Applicant shall regularly use and/or maintain graveled area to reduce fugitive dust generations.

- b) The Project area is in the Lake County Air Basin, which is designated as in attainment for state and federal air quality standards for criteria pollutants (CO, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, VOC, ROG, Pb). Any Project with daily emissions that exceed any of the thresholds of significance for these criteria pollutants should be considered as having an individually and cumulatively significant impact on both a direct and cumulative basis.

As indicated by the Project’s Air Quality Management Plan, near-term construction activities and long-term operational activities would not exceed any of the thresholds of significance for criteria pollutants. Lake County has adopted Bay Area Air Quality Management District (BAAQMD) thresholds of significance as a basis for determining the significance of air quality and greenhouse gas impacts. Using the California Emissions Estimator Model, air emissions modeling performed for this Project, in both the construction phase and the operational phase, will not generate significant quantities of ozone or particulate matter and does not exceed the Project-level thresholds. Construction and operational emissions are summarized in the following tables:

**Comparison of Daily Construction Emissions Impacts with Thresholds of Significance**

| Criteria Pollutants                   | Project Emissions unmitigated (pounds/day) | BAAQMD Threshold (pounds/day) | Significance          |
|---------------------------------------|--|-------------------------------|-----------------------|
| ROG (VOC)                             | 1 to 10                                    | 54                            | Less than significant |
| NO <sub>x</sub>                       | 10 to 20                                   | 54                            | Less than significant |
| CO                                    | 10 to 30                                   | 548                           | Less than significant |
| SO <sub>x</sub>                       | < 1  | 219                           | Less than significant |
| Exhaust PM <sub>10</sub>              | 1 to 10                                    | 82                            | Less than significant |
| Exhaust PM <sub>2.5</sub>             | 1 to 10                                    | 54                            | Less than significant |
| Greenhouse Gasses (CO <sub>2</sub> e) | 2,000 to 3,500                             | No threshold established      | Less than significant |

### Comparison of Daily Operational Emissions Impacts with Thresholds of Significance

| Criteria Pollutants                   | Project Emissions unmitigated (pounds/day) | BAAQMD Threshold (pounds/day) | Significance          |
|---------------------------------------|--|-------------------------------|-----------------------|
| ROG (VOC)                             | 1 to 10                                    | 54                            | Less than significant |
| NO <sub>x</sub>                       | 1 to 5                                     | 54                            | Less than significant |
| CO                                    | 1 to 10                                    | 548                           | Less than significant |
| SO <sub>x</sub>                       | < 1  | 219                           | Less than significant |
| PM <sub>10</sub> (total)              | 1 to 5                                     | 82                            | Less than significant |
| PM <sub>2.5</sub> (total)             | 1 to 5                                     | 54                            | Less than significant |
| Greenhouse Gasses (CO <sub>2</sub> e) | 1 to 20                                    | No threshold established      | Less than significant |

### Comparison of Annual Operational Emissions Impacts with Thresholds of Significance

| Criteria Pollutants                               | Project Emissions (tons/year) | BAAQMD Threshold (tons/year) | Significance          |
|---|-------------------------------|------------------------------|-----------------------|
| ROG (VOC)   | 0 to 1                        | 10                           | Less than significant |
| NO <sub>x</sub>                                   | 0 to 1                        | 10                           | Less than significant |
| CO  | 0 to 1                        | 100                          | Less than significant |
| SO <sub>x</sub>                                   | 0 to 1                        | 40                           | Less than significant |
| PM <sub>10</sub>                                  | 0 to 1                        | 15                           | Less than significant |
| PM <sub>2.5</sub>                                 | 0 to 1                        | 10                           | Less than significant |
| Greenhouse gasses (as CO <sub>2</sub> or methane) | 1 to 100                      | 10,000                       | Less than significant |

#### Less than Significant Impact

- c) Sensitive receptors (i.e., children, senior citizens, and acutely or chronically ill people) are more susceptible to the effects of air pollution than the general population. Land uses that are considered sensitive receptors typically include residences, schools, playgrounds, childcare centers, hospitals, convalescent homes, and retirement homes.

There are no schools, parks, childcare centers, convalescent homes, or retirement homes located in proximity to the Project site. The nearest off-site residences are over one (1) mile from the Project site, well over the 200-foot setback for offsite residences from commercial cannabis cultivation as described in Article 27.11 of the Lake County Zoning.

Pesticide application will be used during the growing season and, as described in the Property Management Plan, will be applied carefully to individual plants. The cultivation area will be surrounded by a fence in order to prevent off-site drift of pesticides. Additionally, no demolition or renovation will be performed which would cause asbestos exposure, and no serpentine soils have not been detected and are not mapped onsite.

**Impacts would be Less than Significant with Mitigation Measure AQ-7 incorporated:**

**AQ-7: The cultivation area will be surrounded by a fence during the application of pesticides in order to prevent off-site drift.**

- d) The proposed Project includes four (4) acres (174,240 Sq. Ft.) of outdoor cannabis canopy area which has the potential to cause objectionable odors, particularly during the harvest season. However, due to the fact that the closest neighboring residence is over one (1) mile away, a substantial number of people will not be adversely affected. Mitigation measures to address any objectionable odors include the planting of native flowering vegetation that will surround the cultivation area.

The proposed cultivation would generate minimal amounts of carbon dioxide from operation of small gasoline engines (tillers, weed eaters, lawn mowers, etc.) and from vehicular traffic associated with staff commuting, deliveries and pickups. Additionally, **Mitigation Measures AQ-1 and AQ-6** would reduce impacts of dust generation from on-site roads and parking areas.

**Less than Significant Impact with Mitigation Measures AQ-1 and AQ-6**

**IV. BIOLOGICAL RESOURCES**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number   |
|--|--------------------------------|--|-------------------------------------|-------------------------------------|---|
| Would the project:   |                                |  |                                     |                                     |   |
| a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 2, 5, 11, 12, 13, 16, 24, 29, 30, 31, 32, 33, 34                  |
| b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5, 11, 12, 13, 16, 17, 29, 30, 31, 32, 33, 34         |
| c) Have a substantial adverse effect on state or federally protected wetlands (including, not limited to, marsh, vernal pool, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5, 11, 12, 13, 16, 17, 21, 24, 29, 30, 31, 32, 33, 34 |
| d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 13  |

- |  |                          |                          |                          |                                     |                                 |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|---------------------------------|
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1, 2, 3, 4,<br>5, 11, 12,<br>13 |
| f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1, 2, 3, 5, 6                   |

Discussion:

- a) Biological Resources Assessment (BA) was prepared by Natural Investigations Company on December 17, 2019. The field survey for the BA was conducted on August 15, 2019. A Botanical Survey and site assessment was conducted by Northwest Biosurvey on April 22, 2021. The purpose of the BA was to provide information as to whether the proposed cultivation area contains sensitive plants or potentially contains sensitive wildlife requiring mitigation under CEQA. The BA refers to the Project parcel as the Study Area.

The information below is based on the survey results documented in the Biological Resources Assessment prepared for the Project.

Plant Species

The site has been highly disturbed by the Mendocino Complex Fire in 2018. According to the BA, the vegetation in Study Area generally consists of the following terrestrial vegetation communities: ruderal/urbanized, mixed oak/conifer forest, annual grassland, manzanita chaparral, and chamise chaparral. Most of this vegetation burned in 2018 and much of the ground was bare at the time of the BA survey.

The dominant species is chamise which is sprouting at the base of burned shrubs. Toyon and yerba santa are less common but are also stump-sprouting. Other common species include California scrub oak, birch-leaf mountain mahogany, Spanish lotus, nit grass, and manzanita chaparral (post-fire) found on the ridge top near the center of the parcel, outside of the proposed cultivation areas. Some stands of manzanita remain on the parcel untouched by fire, in other areas manzanita seedlings are sprouting in abundance.

Annual grassland is found near the center of the southern half of the parcel. The annual grassland may have burned in 2018, but recovery was immediate following the winter rains.

Mixed oak-pine forest occurs along the ridgetop and north-facing slopes, outside of the proposed cultivation areas. This habitat is a mosaic of burned and unburned vegetation.

Ruderal and disturbed areas onsite consist of disturbed or converted natural habitat that is now either in a ruderal state, graded, or urbanized with gravel roads or structure and utility placement. Vegetation within this habitat type consists primarily of nonnative weedy or invasive species, or ornamental plants lacking a consistent community structure. The disturbed and altered condition of these lands greatly reduces their habitat value and ability to sustain rare plants or diverse wildlife assemblages.

Wildlife habitat types were classified using the California Department of Fish and Wildlife's Wildlife Habitat Relationship System (WHRS). The Study Area contains the following wildlife habitat types: Mixed Chaparral; Blue Oak-Foothill Pine; Barren; Urban; and Annual Grassland. No critical habitat for any federally listed species occurs within the Study Area. No special-status habitats were detected within the Study Area. The California Natural Diversity Database (CNDDB) reported no special-status habitats within the Study Area.

The BA identified several small drainages on the proposed Project parcel, but not within the cultivation areas. No riparian vegetation occurs along these watercourses. The drainages were not flowing at the time of the BA field visit.

Various special-status plants have the potential to occur in chaparral habitat in the vicinity of the parcel. Although burned in 2018, chaparral habitat is recovering on the Project site and could be impacted during the preparation of the proposed cultivation areas. No special-status plant species were observed within the proposed Project area during the August 2019 or the April 2021 site surveys and none occur within the area that was Early Activated (Area 1, Figure 1). Outside of Area 1, although it is not expected that sensitive plant species would occur, and both spring and summer botanical surveys that have been conducted did not identify any special-status plant species within the proposed cultivation areas, a second survey would be conducted in late June or early July 2021 to confirm that no sensitive plant species have inhabited proposed Areas 2 and 3 prior to clearing these areas. The impact would be less than significant with **Mitigation Measure BIO-1** incorporated.

#### Animal Species

The Project area does not contain mapped wildlife corridors or critical habitat for federal or state-listed species. No change to migratory bird patterns is anticipated from the impacts of this proposed Project. All cultivation would be located outside of a 100-foot setback from any watercourse. No water courses or sensitive aquatic or terrestrial habitat exists within the Project area that would be impacted by the proposed cultivation. In addition, there are no wetlands or riparian areas within the proposed cultivation areas.

Special-status species may occur in aquatic habitat in the watercourses on the parcel, but the proposed Project areas are several hundred feet away from these features and will not impact aquatic habitat.

The Study Area contains suitable nesting habitat for various bird species because of the presence of trees and poles. No nests or nesting activity were observed during the field survey conducted for the BA, however removal of trees could impact nesting birds. No tree removal greater than 6-inches in diameter at breast height (DBH) would be removed as part of the proposed Project. If establishment of the cultivation areas requires tree removal of trees less than 6-inches DBH, there may be an impact to nesting birds. The BA recommends that trees must be inspected for the presence of active bird nests before tree felling or ground clearing. If active nests are present in the Project Area during construction of the Project, the California Department of Fish and Wildlife should be consulted to develop measures to avoid "take" of active nests prior to the initiation of any construction activities. Avoidance measures may include establishment of a buffer zone using construction fencing or the postponement of vegetation removal until after the nesting season, or



until after a qualified biologist has determined the young have fledged and are independent of the nest site.

**Less than Significant Impact with Mitigation Measures BIO-1 and BIO-2 incorporated:**

**BIO-1: If the establishment of cultivation operations requires the destruction of chaparral habitat, a pre-construction survey for special-status species should be performed by a qualified biologist to ensure that special-status species are not present. If any listed species or special-status species are detected, construction should be delayed, and the appropriate wildlife agency, either the California Department of Fish and Wildlife or the US Fish and Wildlife Service, should be consulted, and Project impacts and mitigation should be reassessed.**

**BIO-2: If construction activities require the removal of trees or shrubs, or disturbance to riparian habitat, and if these activities occur during the nesting season (usually March to September), a pre-construction survey for the presence of special-status bird species or any nesting bird species should be conducted by a qualified biologist within 500 feet of proposed construction areas. If active nests are identified in these areas, the California Department of Fish and Wildlife or the US Fish and Wildlife Service should be consulted to develop measures to avoid a “take” of active nests prior to the initiation of any construction activities. Avoidance measures may include establishment of a buffer zone using construction fencing or the postponement of vegetation removal until after the nesting season, or until after a qualified biologist has determined the young have fledged and are independent of the nest site.**

- b) According to the Lake County General Plan Chapter 9.1 Biological Resources, “the County should ensure the protection of environmentally sensitive wildlife and plant life, including those species designated as rare, threatened, and/or endangered by State and/or Federal government,” and upon review of the biological report on the parcel, it was determined that no substantial adverse effect will result from the project.

The Biological Resources Assessment (BA) identified several small drainages on the proposed Project parcel, but not within the cultivation areas. No riparian vegetation occurs along these ephemeral watercourses. The drainages were not flowing at the time of the BA field visit. There are no wetlands or vernal pools on the subject parcel.

No development is proposed within 100-feet of the identified watercourses, which is consistent with Article 27 of the Lake County Zoning Ordinance that regulates commercial cannabis cultivation. The applicant has provided a Property Management Plan, which addresses controlled water runoff in a manner that reduces impacts to this stream. No development would occur within the drainage buffers and setbacks and there are no sensitive natural communities within the Project area.

The Property Management Plan’s section on Grading, Discharge Flows, and Downstream Effects (12.3.3) states that the cultivation operations are not expected to alter the hydrology of the parcels significantly, and that large vegetated buffers surrounding the cultivation area, coupled with perimeter ditches (vegetated swales) serve to moderate stormflows and regulate stream volumes so that flooding can be avoided. These buffers and swales aim to allow stormwater that is discharged from operation areas to be slowed, filtered, and percolate into the soils.

Erosion control measures to control erosion and sedimentation during construction and operation have been identified in the Property Management Plan. Measures include straw wattles, vegetated swales, and buffer strips.

The Project is enrolled with the SWRCB for Tier 2, Low Risk coverage under Order No. WQ 2019-001-DWQ (Cannabis Cultivation General Order). The Cannabis Cultivation General Order implements Cannabis Policy requirements with the purpose of ensuring that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, or springs. The Cannabis Cultivation General Order requires the preparation of a Site Management Plan (SMP), a Nitrogen Management Plan (NMP), and the submittal of annual technical and monitoring reports demonstrating compliance. The purpose of the SMP is to identify BPTC measures that the site intends to follow for erosion control purposes and to prevent stormwater pollution. The purpose of the NMP is to identify how nitrogen is stored, used, and applied to crops in a way that is protective to water quality. The SMP and NMP are required prior to commencing cultivation activities and were submitted with the application materials.

In addition, the BA concludes the Study Area is not inside any federally-designated critical habitat. The Project Area contains no special-status habitats or natural communities, but special-status habitats are directly adjacent to some Project areas. If the establishment of cultivation operations requires the destruction of sensitive habitats, such as undisturbed closed-cone pine forest habitat, Mitigation Measures BIO-3 should be implemented.

**Less Than Significant Impacts with Mitigation Measure BIO-3 incorporated:**

**BIO-3: All work shall incorporate erosion control measures consistent with the engineered Grading and Erosion Control Plans submitted, the Lake County Grading Regulations, and the State Water Resources Control Board Order No. WQ 2019-001-DWQ.**

- c) According to the Biological Resources Assessment (BA), there are no wetlands and vernal pools or other isolated wetlands in the Study Area. Therefore, Project implementation would not directly impact any wetlands.

Refer to Section IV(a) and (b).

**Less Than Significant Impact**

- d) The Biological Resources Assessment (BA) stated that no specific wildlife corridors exist within or near the Study Area. Although no mapped wildlife corridors (such as the California Essential Habitat Connectivity Area layer in the CNDDb) exist within or near the Study Area, the open space and the stream corridors in the Study Area facilitate animal movement and migrations, primarily those of the black-tailed deer. Although the Study Area may be used by wildlife for movement or migration, the proposed Project would not have a significant impact on this movement because it would not create any unpassable barriers and the majority of the Study Area will still be available for corridor and migration routes. Of the 81.6 acres on the parcel, 75.6 acres would remain available for natural habitat and wildlife corridors.

Implementation of the Project will not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

**Less than Significant Impact**

- e) In Article 27 of the County of Lake, CA Zoning Ordinance, under §27.13 on Conditions for Commercial Cannabis Cultivation, Tree Removal is listed under Prohibited Activities, whereas “(the) removal of any commercial tree species as defined by the California Code of Regulations section 895.1, Commercial Species for the Coast Forest District and Northern Forest District, and the removal of any true oak species (*Quercus* species) or Tan Oak (*Notholithocarpus* species) for the purpose of developing a cannabis cultivation site should be avoided and minimized.”

Furthermore, the County of Lake General Plan Policy OSC-1.13 states the County shall support the conservation and management of oak woodland communities and their habitats, and Resolution Number 95-211 was adopted as a Management Policy for Oak Woodlands in Lake County, whereas the County of Lake aims to monitor oak woodland resources, pursue education of the public, federal, state and local agencies on the importance of oak woodlands, promote incentive programs that foster the maintenance and improvement of oak woodlands, and, through federal, state, and local agency land management programs, foster oak woodlands on their respective lands within the county.

As such, the Property Management Plan for the Project has incorporated conservation and mitigation measures similar to those that have been included in other county oak woodlands conservation plans used in the State of California, which follow Assembly Bill 242, referred to as the Oak Woodlands Conservation Act. The Project does not propose to remove any trees greater than 6-inches DBH, and trees must be inspected for the presence of active bird nests before tree felling or ground clearing. If active nests are present in the Project area during construction of the Project, the California Department of Fish and Wildlife will be consulted to develop measures to avoid “take” of active nests prior to the initiation of any construction activities. Larger trees with a diameter of 6-inches have been identified and will be preserved, including one large, old-growth oak tree that will remain in place within one of the proposed canopy areas. There are no mapped sensitive species on the site.

Implementation of the Project does not conflict with any county or municipal policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

**Less than Significant Impact**

- f) No special conservation plans have been adopted for this site and no impacts are anticipated.

**No Impact**

## V. CULTURAL RESOURCES

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                | Source Number           |
|--|--------------------------------|--|------------------------------|--------------------------|-------------------------|
| Would the project:   |                                |  |                              |                          |                         |
| a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?     | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | 1, 3, 4, 5, 11, 14c, 15 |
| b) Cause a substantial adverse change in the significance of an archeological resource pursuant to §15064.5? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | 1, 3, 4, 5, 11, 14, 15  |
| c) Disturb any human remains, including those interred outside of formal cemeteries?                         | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | 1, 3, 4, 5, 11, 14, 15  |

### Discussion:

- a) A Cultural Resources Report (CRR) for the proposed cultivation Project was completed by Natural Investigations Company, Inc. to identify potentially significant cultural resources. A California Historical Resources Information System (CHRIS) records search was completed by the Northwest Information Center (NWIC) on December 9, 2019, and the Native American Heritage Commission (NAHC) returned the results of the Sacred Lands File (SLF) search on November 20, 2019. Natural Investigations sent Project information letters to the tribes affiliated with the Project Area on the same date. Finally, Natural Investigations conducted an intensive pedestrian survey within the Project Area on December 4, 2019.

The CHRIS records search indicates that one prior study has been conducted within the Project Area, and one additional report has been completed outside the Project Area but within a 0.25-mile radius. No cultural resources have been previously recorded within the Project Area, though four resources have been recorded within 0.25 miles. These resources are all prehistoric in age and include one lithic scatter and three isolated artifacts. The SLF search returned positive results for Native American cultural resources within the Project vicinity. The NAHC provided a list of five tribes to be contacted for more information on these resources. No responses to our requests for information were received from the tribes listed by the NAHC. No cultural resources of any kind were identified during the field survey.

Based on the negative findings of the CHRIS search, field survey, and outreach efforts with local tribes, there is no indication that the Project will impact any historical or archaeological resources as defined under CEQA Section 15064.5 or tribal cultural resources as defined under Public Resources Code Section 21074. It is possible, but unlikely, that significant artifacts or human remains could be discovered during Project construction. If, however, significant artifacts or human remains of any

type are encountered it is recommended that the Project sponsor contact the culturally affiliated tribe and a qualified archaeologist to assess the situation. The Sheriff's Department must also be contacted if any human remains are encountered.

**Less than Significant Impacts with Mitigation Measures CUL-1 and CUL-2 incorporated:**

**CUL-1: Should any archaeological, paleontological, or cultural materials be discovered during site development, all activity shall be halted in the vicinity of the find(s), the applicant shall notify the culturally affiliated Tribe, and a qualified archaeologist to evaluate the find(s) and recommend mitigation procedures, if necessary, subject to the approval of the Community Development Director. Should any human remains be encountered, the applicant shall notify the Sheriff's Department, the culturally affiliated Tribe, and a qualified archaeologist for proper internment and Tribal rituals per Public Resources Code Section 5097.98 and Health and Safety Code 7050.5.**

**CUL-2: All employees shall be trained in recognizing potentially significant artifacts that may be discovered during ground disturbance. If any artifacts or remains are found, the culturally affiliated Tribe shall immediately be notified; a licensed archaeologist shall be notified, and the Lake County Community Development Director shall be notified of such findings.**

- b) A California Historical Resources Information System (CHRIS) records search was completed by the Northwest Information Center (NWIC) to determine if the Project would affect archaeological resources. The record search found that there are no known or mapped significant archaeological resources on this site.

**Less than Significant Impact with Mitigation Measures CUL-1 and CUL-2 incorporated**

- c) The Project site does not contain a cemetery and no known formal cemeteries are located within the immediate site vicinity. In the event that human remains are discovered on the Project site, the Project would be required to comply with the applicable provisions of Health and Safety Code §7050.5, Public Resources Code §5097 et. seq. and CEQA Guidelines §15064.5(e). California Health and Safety Code §7050.5 states that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin. Pursuant to California Public Resources Code §5097.98(b), remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made by the Coroner.

If the Coroner determines the remains to be Native American, the California Native American Heritage Commission must be contacted and the Native American Heritage Commission must then immediately notify the "most likely descendant(s)" of receiving notification of the discovery. The most likely descendant(s) shall then make recommendations within 48 hours, and engage in consultations concerning the treatment of the remains as provided in Public Resources Code §5097.98. Mandatory compliance with these requirements would ensure that potential impacts associated with the accidental discovery of human remains would be less than significant.

**Less than Significant Impacts with Mitigation Measure CUL-2 incorporated**

**VI. ENERGY**

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                           | Source Number |
|---|--------------------------------|--|------------------------------|-------------------------------------|---------------|
| Would the project:  |                                |  |                              |                                     |               |
| a) Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resource, during construction or operation? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 5             |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5    |

Discussion:

- a) Onsite electricity will be supplied by a portable solar power system. Solar power will be used to power all ancillary electrical equipment which includes a processing structure, well pump, security cameras, and security lights, utilizing approximately 2 kilowatts per day. Cannabis will be cultivated outdoors with no supplemental lighting.

**Less than Significant Impact**

- b) According to the California Department of Cannabis Control’s Title 4 Division 19 §15010 on compliance with the CEQA, all cannabis applications must describe their project’s anticipated operational energy needs, identify the source of energy supplied for the project and the anticipated amount of energy per day, and explain whether the project will require an increase in energy demand and the need for additional energy resources. To address this, the applicant has included their energy usage in the property management plan, stating that the proposed cultivation operation does not have service hookups to an electricity utility provider, and that each cultivation site will have a small solar-powered electrical system to power low voltage items such as security cameras and water pumps. The solar systems are portable and mounted on trailers, and while not required for outdoor cultivation, the project would meet the standards of Title 4 Division 19 §16305 Renewable Energy Requirements. Gasoline-powered generators will be onsite for emergency backup energy.

**Less than Significant Impact**

## VII. GEOLOGY AND SOILS

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number                  |
|--|--------------------------------|--|-------------------------------------|--------------------------|--------------------------------|
| Would the project:   |                                |  |                                     |                          |                                |
| a) Directly or indirectly cause potentially substantial adverse effects, including the risk of loss, injury, or death involving:   |                                |  |                                     |                          |                                |
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 18, 19          |
| ii) Strong seismic ground shaking?   |                                |  |                                     |                          |                                |
| iii) Seismic-related ground failure, including liquefaction?   |                                |  |                                     |                          |                                |
| iv) Landslides?  |                                |  |                                     |                          |                                |
| b) Result in substantial soil erosion or the loss of topsoil?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 3, 4, 5, 19, 21, 24, 25, 30 |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on-site or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?   | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 5, 6, 9, 18, 21       |
| d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5, 7, 39                       |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2, 4, 5, 7, 13, 39             |
| f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 14, 15          |

### Discussion:

- a) The Project site is located in a seismically active area of California and is expected to experience moderate to severe ground shaking during the lifetime of the Project. That risk is not considered substantially different than that of other similar properties and projects in California.

#### Earthquake Faults (i)

According to the USGS Earthquake Faults map available on the Lake County GIS site [Lake County, CA GIS Portal](#), there is a linear earthquake fault two (2) miles southwest of the subject site. The linear faults run parallel to the Clear Lake shoreline. The last estimated rupture for these faults was less than 1,600,000 years ago. Because there are no known faults located on the Project site, there is no potential for the Project site to rupture during a seismic event. Thus, no rupture of a known earthquake fault is anticipated and the proposed Project would not expose people or structures to an adverse effects related rupture of a known earthquake fault as no structures for human occupancy are being proposed.

#### Seismic Ground Shaking (ii) and Seismic-Related Ground Failure, including liquefaction (iii)

Lake County contains numerous known active faults. Future seismic events in the Northern California region can be expected to produce seismic ground shaking at the site. All proposed construction is required to be built under Current Seismic Safety Construction Standards, and no large structures are proposed on this project site.

#### Landslides (iv)

The Project cultivation site is generally level without significant slopes. There are some risks of landslides on the parcel, however the proposed project's cultivation site is located on a flat area along the top of the ridgeline. According to the Landslide Hazard Identification Map prepared by the California Department of Conservation's Division of Mines and Geology, the area is considered generally stable. As such, the Project's cultivation site is considered moderately susceptible to landslides and will not likely expose people or structures to substantial adverse effects involving landslides, including losses, injuries or death.

#### **Less Than Significant Impact**

- b) No major grading is proposed to prepare the Project site for cultivation. The project involves tilling the soil to prepare for cultivation and also includes the import of soil for other cultivation activities, and according to the Property Management Plan this would not involve any adverse effects on the potential for erosion or the loss of topsoil. The proposed processing structure would require grading and the applicant will need to obtain a grading a building permit from the Lake County Community Development Department prior to construction.

Furthermore, the project is enrolled with the SWRCB for Tier 2, Low Risk coverage under Order No. WQ 2019-001-DWQ (Cannabis Cultivation General Order). The Cannabis Cultivation General Order implements Cannabis Policy requirements with the purpose of ensuring that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, or springs. The Cannabis Cultivation General Order requires the preparation of a Site Management Plan (SMP), a Nitrogen Management Plan (NMP), and the submittal of annual technical and monitoring reports demonstrating compliance. The purpose of the SMP is to identify BPTC measures that the site intends to follow for erosion control purposes and to prevent stormwater pollution. The purpose of the NMP is to identify how nitrogen is stored, used, and applied to crops in a way that is protective to water quality. The SMP and NMP are required prior to commencing cultivation activities and were submitted with the application materials. As part of the Applicant's enrollment, they are required to complete Annual Monitoring and Reporting to the State Water



Board, which requires that winterization BPTC measures for erosion and sediment control are in place prior to the winter period.

**Less Than Significant Impacts with Mitigation Measures GIO-1 through GEO-4, and BIO-3, incorporated:**

**GEO-1:** Prior to any ground disturbance for building construction, the permittee shall submit erosion control and sediment plans to the Water Resource Department and the Community Development Department for review and approval. Said erosion control and sediment plans shall protect the local watershed from runoff pollution through the implementation of appropriate Best Management Practices (BMPs) in accordance with the Grading Ordinance. Typical BMPs include the placement of straw, mulch, seeding, straw wattles, silt fencing, and the planting of native vegetation on all disturbed areas. No silt, sediment, or other materials exceeding natural background levels shall be allowed to flow from the project area. The natural background level is the level of erosion that currently occurs from the area in a natural, undisturbed state. Vegetative cover and water bars shall be used as permanent erosion control after project installation.

**GEO-2:** Excavation, filling, vegetation clearing, or other disturbance of the soil shall not occur between October 15 and April 15 unless authorized by the Community Development Department Director. The actual dates of this defined grading period may be adjusted according to weather and soil conditions at the discretion of the Community Development Director.

**GEO-3:** The permit holder shall monitor the site during the rainy season (October 15 – May 15), including post-installation, application of BMPs, erosion control maintenance, and other improvements as needed.

**GEO-4:** If greater than fifty (50) cubic yards of soils are moved, a Grading Permit shall be required as part of this project. The project design shall incorporate Best Management Practices (BMPs) to the maximum extent practicable to prevent or reduce the discharge of all construction or post-construction pollutants into the County storm drainage system. BMPs typically include scheduling of activities, erosion and sediment control, operation and maintenance procedures, and other measures in accordance with Chapters 29 and 30 of the Lake County Code.

**BIO-3:** All work shall incorporate erosion control measures consistent with the engineered Grading and Erosion Control Plans submitted, the Lake County Grading Regulations, and the State Water Resources Control Board Order No. WQ 2019-001-DWQ.

c) The primary geologic unit or soil type where the proposed Project site is situated is:

224 - Speaker-Marpa-Sanhedrin gravelly loams, 30 to 50 percent slopes.

This map unit is on mountains. The vegetation is mainly mixed conifers and hardwoods. This unit is about 30 percent Speaker gravelly loam, 25 percent Marpa gravelly loam, and 15 percent Sanhedrin gravelly loam. The components of this unit are so intricately intermingled that it was not practical to map them separately at the scale used. The Speaker soil is moderately deep and well drained. Typically, the surface is covered with a mat of partially decomposed needles, leaves, and twigs 1 inch thick. Permeability of the Speaker soil is moderately slow. Available water

capacity is 2 to 6 inches. Effective rooting depth is 20 to 40 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Marpa soil is moderately deep and well drained. Typically, the surface is covered with a mat of partially decomposed needles, leaves, and twigs 1 inch thick. Permeability of the Marpa soil is moderate. Available water capacity is 1.5 to 4 inches. Effective rooting depth is 20 to 40 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Sanhedrin soil is moderately deep and well drained. Typically, the surface is covered with a mat of partially decomposed needles, leaves, and twigs 1 inch thick. Permeability of the Sanhedrin soil is moderately slow. Available water capacity is 4 to 6 inches. Effective rooting depth is 40 to 60 inches. Surface runoff is rapid, and the hazard of erosion is severe. This unit is used mainly for timber production, wildlife habitat, and watershed. Ponderosa pine and Douglas-fir are the main tree species on the Speaker and Sanhedrin soils. California black oak, interior live oak, and scattered ponderosa pine are the main trees species on the Marpa soil.

According to the soil survey of Lake County, prepared by the United States Department of Agriculture, other soils found on the project parcel are as follows:

169 – Mayme-Etsel-Snook complex, 30 to 75 percent slopes

This map unit is on hills and mountains. The vegetation is mainly brush with some hardwoods and annual grasses. This unit is about 35 percent Maymen gravelly loam, 20 percent Etsel gravelly loam, and 20 percent Snook loam. Areas of the Snook soil at elevations above 3,500 feet are on south-facing slopes. The components of this unit are so intricately intermingled that it was not practical to map them separately at the scale used. Included in this unit are small areas of Bressa, Hopland, Mayacama, Millsholm, Neuns, and Speaker soils, Rock outcrop, and soils that are covered with stones. Rock outcroppings and stones 6 inches to 6 feet in diameter are on higher side slopes and ridgetops. The Maymen soil is shallow and somewhat excessively drained. Hard, fractured sandstone is at a depth of 12 inches. Permeability of the Maymen soil is moderate. Available water capacity is 1 inch to 3 inches. Effective rooting depth is 12 to 20 inches. Surface runoff is very rapid, and the hazard of erosion is severe. The Snook soil is shallow and somewhat excessively drained. Fractured sandstone is at a depth of 5 inches. Permeability of the Snook soil is moderate. Available water capacity is 0.5 to 1.0 inch. Effective rooting depth is 4 to 10 inches. Surface runoff is very rapid, and the hazard of erosion is severe. This unit is used mainly as wildlife habitat and watershed. The natural vegetation on this unit is mainly brush. The species in most areas are mainly chamise, manzanita, and buckbrush. Properly planned and applied prescribed burning or chemical mechanical treatment can be used in small areas to improve habitat for wildlife, increase access, and reduce the risk of fire. Constructing firebreaks or ridgetops helps to prevent wildfire, which results in erosion. Where the Maymen soil is cleared for firebreaks, seeding grass reduces erosion. The Etsel soil will not support good stands of grass.

171 – Maymen-Hopland-Etsel association, 15 to 50 percent slopes.

This map unit is on mountains. The vegetation is mainly brush on the Maymen and Etsle soils and hardwoods on the Hopland soil. This unit is about 30 percent Maymen gravelly loam, 30 percent Hopland loam, and 20 percent Etsel gravelly loam. The Maymen and Etsel soils are on ridgetops and on south- and west-facing slopes. The Hopland soil is on north- and east-facing slopes. The Hopland soil is on north- and east-facing slopes and in ravines. Included in this unit are small areas of Henneke, Mayacama, Millsholm, Montara, Sanhedrin, Snook, and Speaker soils and Rock outcrop.

The Maymen soil is shallow and somewhat excessively drained. Permeability of the Maymen soil is moderate. Available water capacity is 1 to 3 inches. Effective rooting depth is 12 to 20 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Hopland soil is moderately deep and well drained. Permeability of the Hopland soil is moderately slow. Available water capacity is 3 to 7 inches. Effective rooting depth is 20 to 40 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Etsel soil is shallow and somewhat excessively drained. Permeability of the Etsel soil is moderate. Available water capacity is 0.5 to 1.5 inches. Effective rooting depth is 6 to 12 inches. Surface runoff is very rapid, and the hazard of erosion is severe.

This unit is used mainly as wildlife habitat and watershed. It is also used for firewood production. The natural vegetation on the Maymen and Etsel soils is mainly brush. The species in most areas are mainly chamise, manzanita, and buckbrush. Properly planned and applied prescribed burning or chemical or mechanical treatment can be used in small areas to improve habitat for wildlife, increase access, and reduce the risk of fire.

#### 175 – Maymen, Millsholm, Bressa complex, 30 to 50 percent slopes

This map unit is on hills. Rock outcrop and stones 10 inches to 2 feet in diameter are on the upper part of south-facing slopes and on ridgetops. This unit is about 30 percent Maymen gravelly loam, 20 percent Millsholm loam, and 15 percent Bressa loam. The components of this unit are so intricately intermingled that it was not practical to map separately at the scale used.

The Maymen soil is shallow and somewhat excessively drained. Permeability of the Maymen soil is moderate. Available water capacity is 1 inch to 3 inches. Effective rooting depth is 12 to 20 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Millsholm soil is shallow and well drained. Permeability of the Millsholm soil is moderate. Available water capacity is 1.5 to 3.5 inches. Effective rooting depth is 10 to 20 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Bressa soil is moderately deep and well drained. Permeability of the Bressa soil is moderately slow. Available water capacity is 3.0 to 7.5 inches. Effective rooting depth is 20 to 40 inches. Surface runoff is rapid, and the hazard of erosion is severe. This unit is used mainly as wildlife habitat and watershed. It is also used for livestock grazing and firewood production. The natural vegetation on the Maymen soil is mainly brush. The species in most areas are mainly charmise, manzanita, and buckbrush. Properly planned and applied prescribed burning or chemical or mechanical treatment can be used in small areas to improve habitat for wildlife, increase access, and reduce the risk of fire.

#### 179 – Millsholm-Squawrock-Pomo complex, 30 to 50 percent slopes

This map unit is on hills and mountains. The vegetation is mainly annual grasses with scattered oaks and brush on Millsholm and Squawrock soils and annual grasses on Pomo soils. The Pomo soils are susceptible to slumping. This unit is about 30 percent Millsholm, 30 percent Squawrock gravelly loam, and 20 percent Pomo loam. The component of this unit are so intricately intermingled that it was not practical to map them separately at the scale used. The Millsholm soil is shallow and well drained. Permeability of the Millsholm soil is moderate. Available water capacity is 1.5 to 3.5 inches. Effective rooting depth is 10 to 20 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Squawrock soil is moderately deep and well drained. Permeability of the Squawrock soil is moderate. Available water capacity is 1.5 to 4.5 inches. Effective rooting depth is 20 to 40 inches. Surface runoff is rapid, and the hazard of erosion is severe. The Pomo soil is deep and well drained. . Permeability of the Squawrock soil is moderately slow. Available water capacity is 4.0 to 8.5 inches. Effective rooting depth is 40 to 60 inches.

Surface runoff is rapid, and the hazard of erosion is severe. Slopes are unstable if disturbed. This unit is used mainly for livestock grazing, wildlife habitat, and watershed.

Despite the severity of risk normally associated with Geologic Unit 224, this unit is typically found at a slope between 30 and 50 percent. This typically steep slope plays a major factor in its rapid runoff and severe erosion hazard. The proposed project site is not located on an area with a 30 to 50 percent slope, but rather it has a slope that is primarily between 0 to 10 percent along the top of the ridgeline that runs along High Valley Rd. Furthermore, it is unlikely that any subsidence will occur as no large structures are proposed in for the project. Due to this, the impacts would be less than significant with mitigation measures described in the Section XII(b).

**Less Than Significant Impacts with Mitigation Measures GEO-1 through GEO-4 incorporated**

- d) The Uniform Building Code is a set of rules that specify standards for structures. No structures are proposed that would require a building permit.

Expansive soils possess a “shrink-swell” characteristic. Shrink-swell is the cyclic change in volume (expansion and contraction) that occurs in fine-grained clay sediments from the process of wetting and drying. Structural damage may occur over a long period of time due to expansive soils, usually the result of inadequate soil and foundation engineering or the placement of structures directly on expansive soils.

Cultivation activities proposed in the project would occur on one type of soil: 224 - Speaker-Marpa-Sanhedrin gravelly loams, 30 to 50 percent slopes, according to the Soil Survey of Lake County and the USDA Web Soil Survey website.

Soil Type 224 is comprised of gravelly loam, gravelly clay loam, very gravelly clay loam, and bedrock and would have a moderate shrink-swell potential due to the gravel in the composition.

Although no new buildings are proposed, any new construction requiring a building permit would be subject to the Uniform Building Code and California Building Code for foundation design to meet the requirements associated with expansive soils, if they are found to exist within a site specific study.

**Less Than Significant Impact with Mitigation Measures GEO-1 through GEO-6 incorporated:**

**GEO-5: Prior to operation, all buildings, accessible compliant parking areas, routes of travel, building access, and/or bathrooms shall meet all California Building Code Requirements.**

**GEO-6: Prior to operation, all structure(s) used for commercial cultivation shall meet accessibility and CALFIRE standard. Please contact the Lake County Community Development Department’s Building Division for more information.**

- e) The proposed project will be served by an American Disability Act compliant portable toilet. In addition, there is a restroom in the existing office supported by an existing septic system. Comments from the Lake County Environmental Health Division state that this system may need a minor repair due to the use of bulldozers by CALFIRE in 2018 to fight the Mendocino Complex Fire, and subsequently the applicant has conducted an inspection of the septic system and found it to be in working order.

Therefore, the proposed project will not have soils incapable of adequately supporting the use of septic tanks for the disposal of wastewater. In addition, the system will be inspected and approved by the County Division of Environmental Health prior to obtaining a use permit.

**Less Than Significant Impact**

- f) The project site does not contain any known unique geologic feature or paleontological resources. Disturbance of these resources is not anticipated.

**Less than Significant Impact**

**VIII. GREENHOUSE GAS EMISSIONS**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number  |
|--|--------------------------------|--|-------------------------------------|--------------------------|----------------|
| Would the project:   |                                |  |                                     |                          |                |
| a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?      | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 3, 4, 5, 36 |
| b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 3, 4, 5, 36 |

Discussion:

- a) The Project consists of a six-acre cannabis cultivation area with four acres of canopy. The project site is located within the Lake County Air Basin, which is under the jurisdiction of the Lake County Air Quality Management District (LCAQMD). The LCAQMD applies air pollution regulations to all major stationary pollution sources and monitors countywide air quality.

The Lake County Air Basin is in attainment for all air pollutants with a high air quality level, and therefore the LCAQMD has not adopted thresholds of significance for Greenhouse Gase (GHG) emissions. In the interim, emissions estimates have been calculated using the California Emissions Estimator Model (CalEEMod) and compared with thresholds defined by the Bay Area Air Quality Management District (BAAQMD).

The BAAQMD threshold for GHGe (including CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>) for projects other than stationary sources (power generating plants, mining sites, petroleum facilities, chemical

plants, etc.) that are not under a GHG Reduction Plan is 1,100 metric tons of CO<sub>2</sub>e per year. According to the CalEEMod estimates for this project (using figures from the Property Management Plan and other parameters that most closely match the project description) the estimated annual emissions of CO<sub>2</sub>e for overall operations would be 6.875 metric tons of CO<sub>2</sub>e per year, and estimates for site preparation and construction period (less than 30 days) are 47.959 metric tons of CO<sub>2</sub>e. Both of these figures are well below BAAQMD threshold, and the remaining 75.6 acres of the oak woodland forest on the property that will not be disturbed are expected to have a -85.8 metric tons of CO<sub>2</sub>e impact on the climate. These calculations show that the project would have a less than significant impact on GHG emissions.

### **Less than Significant Impact**

b) For purposes of this analysis, the Project was evaluated against the following applicable plans, policies, and regulations:

- The Lake County General Plan
- The Lake County Air Quality Management District
- AB 32 Climate Change Scoping Plan
- AB 1346 Air Pollution: Small Off-Road Equipment

Policy HS-3.6 of the Lake County General Plan on Regional Agency Review of Development Proposals states that the “County shall solicit and consider comments from local and regional agencies on proposed projects that may affect regional air quality. The County shall continue to submit development proposals to the Lake County Air Quality Management District for review and comment, in compliance with the California Environmental Quality Act (CEQA) prior to consideration by the County.” The proposed Project was sent out for review from the LCAQMD and the only concern was restricting the use of an onsite generator to emergency situations only.

The Lake County Air Basin is in attainment for all air pollutants with a high air quality level, and therefore the LCAQMD has not adopted an Air Quality Management Plan, but rather uses its rules and regulations for the purpose of reducing the emissions of greenhouse gases. The proposed Project does not conflict with any existing LCAQMD rules or regulations and would therefore have no impact at this time.

The 2017 AB Climate Change Scoping Plan recognizes that local government efforts to reduce emissions within their jurisdiction are critical to achieving the State’s long term GHG goals, which includes a primary target of no more than six (6) metric tons CO<sub>2</sub>e per capita by 2030 and no more than two (2) metric tons CO<sub>2</sub>e per capita by 2050. As described in the Property Management Plan, the Project will have up to three (3) individuals working on site (owners/operators) during normal operational hours, and with an expected 6.875 metric tons of overall operational CO<sub>2</sub>e per year, the per capita figure of 2.29 metric tons of operational CO<sub>2</sub>e per year meets the 2017 Climate Change Scoping Plan’s 2030 target, and nearly meets the 2050 target.

On October 9, 2021, AB 1346 Air Pollution: Small Off-Road Equipment (SORE) was passed, which will require the state board, by July 1, 2022, consistent with federal law, to adopt cost-effective

and technologically feasible regulations to prohibit engine exhaust and evaporative emissions from new small off-road engines, as defined by the state board. The bill would require the state board to identify and, to the extent feasible, make available funding for commercial rebates or similar incentive funding as part of any updates to existing applicable funding program guidelines to local air pollution control districts and air quality management districts to implement to support the transition to zero-emission small off-road equipment operations, and the applicant should be aware of and expected to make a transition away from SOREs by the required future date.

**Less than Significant Impact**

**IX. HAZARDS AND HAZARDOUS MATERIALS**

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number                           |
|---|--------------------------------|--|-------------------------------------|-------------------------------------|---|
| Would the project:  |                                |  |                                     |                                     |   |
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?   | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1, 3, 5, 13, 21, 24, 29, 31, 32, 33, 34 |
| b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?   | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1, 3, 5, 13, 21, 24, 29, 31, 32, 33, 34 |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 2, 5                                 |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 2, 40                                   |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 3, 4, 5, 20, 22                      |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 20, 22, 35, 37              |
| g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 20, 35, 37                  |

- a) Materials associated with the proposed cultivation of commercial cannabis, such as gasoline, pesticides, fertilizers, alcohol, hydrogen peroxide and the equipment emissions may be considered hazardous if unintentionally released and could create a significant hazard to the public or the environment if done so without intent and mitigation. According to the Property Management Plan for the proposed Project, all potentially harmful chemicals would be stored and locked in a secured building on site and measures will be taken to avoid any accidental release and environmental exposure to hazardous materials.

The Project will comply with Section 41.7 of the Lake County Zoning Ordinance that specifies that all uses involving the use or storage of combustible, explosive, caustic, or otherwise hazardous materials shall comply with all applicable local, state, and federal safety standards and shall be provided with adequate safety devices against the hazard of fire and explosion, and adequate firefighting and fire suppression equipment.

The Lake County Division of Environmental Health, which acts as the Certified Unified Program Agency (CUPA) for Hazardous Materials Management, has been consulted about the project and the project is required to address Hazardous Material Management in the Property Management Plan, which has been reviewed by the Lead Agency to ensure the contents are current and adequate. In addition, the Project will require measures for employee training to determine if they meet the requirements outlined in the Plan and measures for the review of hazardous waste disposal records to ensure proper disposal methods and the amount of wastes generated by the facility.

The Property Management Plan also addresses the following:

Bulk fertilizers will be incorporated into the soil shortly after delivery and will not typically be stockpiled or stored on site. Should bulk fertilizers need to be stockpiled, they will be placed on a protective surface, covered with tarps, and secured with ropes and weights. Dry and liquid fertilizers will be stored in a stormproof shed inside each cultivation compound.

All other pesticides and fertilizers will be stored within one of the stormproof storage sheds, in their original containers with labels intact, and in accordance with the product labeling. Agricultural chemicals and petroleum products will be stored in secondary containment, within separate storage structures alongside compatible chemicals. The pesticide, fertilizer, chemical, and petroleum product storage buildings will have impermeable floors. The storage building will be located over 100 feet from any watercourses.

Any petroleum products brought to the site, such as gasoline or diesel to fuel construction equipment, will be stored and covered in containers deemed appropriate by the Certified Unified Program Agency. All pesticides and fertilizers products will be stored a minimum of 100 feet from all potentially sensitive areas and watercourses.

Cannabis waste will be chipped and spread on site or composted as needed. The burning of cannabis waste is prohibited in Lake County and will be not take place as part of Project operations.

A spill containment and cleanup kit will be kept on site in the unlikely event of a spill. All employees would be trained to properly use all cultivation equipment, including pesticides. Proposed site activities would not generate any additional hazardous waste.



All equipment shall be maintained and operated in a manner that minimizes any spill or leak of hazardous materials. Hazardous materials and contaminated soil shall be stored, transported, and disposed of in accordance with applicable local, state, and federal regulations.

As long as the Project is in operation, the Certified Uniform Program Agency and Lead Agency will conduct regular and/or annual inspections and monitor activities to ensure that the routine transport, use, and disposal of hazardous materials will not pose a significant impact.

**Less Than Significant Impact with Mitigation Measures HAZ-1 through HAZ-2 incorporated:**

**HAZ-1: All equipment will be maintained and operated to minimize spillage or leakage of hazardous materials. All equipment will be refueled in locations more than 100 feet from surface water bodies. Servicing of equipment will occur on an impermeable surface. In an event of a spill or leak, the contaminated soil will be stored, transported, and disposed of consistent with applicable local, state, and federal regulations.**

**HAZ-2: With the storage of hazardous materials equal to or greater than fifty-five (55) gallons of a liquid, 500 pounds of a solid, or 200 cubic feet of compressed gas, a Hazardous Materials Inventory Disclosure Statement and Business Plan shall be submitted and maintained in compliance with requirements of Lake County Environmental Health Division. Industrial waste shall not be disposed of on site without review or permit from Lake County Environmental Health Division or the California Regional Water Quality Control Board. The permit holder shall comply with petroleum fuel storage tank regulations if fuel is to be stored on site.**

- b) The Project involves the use of fertilizers and pesticides which will be stored in a secure, stormproof structure. Flood risk at the Project site is minimal and according to Lake County GIS Portal data and the Project is not located in or near an identified earthquake fault zone. Fire hazard risks on the Project site range from moderate to very high.

The project site does not contain any identified areas of serpentine soils or ultramafic rock, and risk of asbestos exposure during construction is minimal. The site preparation would require some construction equipment and would last for about two to four weeks. All equipment staging shall occur on previously disturbed areas on the site.

A spill kit would be kept on site in the unlikely event of a spill of hazardous materials. All equipment shall be maintained and operated in a manner that minimizes any spill or leak of hazardous materials. Hazardous materials and contaminated soil shall be stored, transported, and disposed of consistent with applicable local, state, and federal regulations.

**Less than Significant Impact with Mitigation Measures HAZ-1 through HAZ-7 incorporated:**

**HAZ-3: Prior to operation, the applicant shall schedule an inspection with the Lake County Code Enforcement Division within the Community Development Department to verify adherence to all requirements of Chapter 13 of the Lake County Code, including but not limited to adherence with the Hazardous Vegetation requirements.**

**HAZ-4:** Prior to operation, all employees shall have access to restrooms and hand-wash stations. The restrooms and hand wash stations shall meet all accessibility requirements.

**HAZ-5:** The proper storage of equipment, removal of litter and waste, and cutting of weeds or grass shall not constitute an attractant, breeding place, or harborage for pests.

**HAZ-6:** All food scraps, wrappers, food containers, cans, bottles, and other trash from the project area should be deposited in trash containers with an adequate lid or cover to contain trash. All food waste should be placed in a securely covered bin and removed from the site weekly to avoid attracting animals.

**HAZ-7:** The applicant shall maintain records of all hazardous or toxic materials used, including a Material Safety Data Sheet (MSDS) for all volatile organic compounds utilized, including cleaning materials. Said information shall be made available upon request and/or the ability to provide the Lake County Air Quality Management District such information to complete an updated Air Toxic Emission Inventory.

- c) There are no schools located within one-quarter mile of the proposed Project site. The nearest school is Lucerne Elementary School, which is located approximately three and a half (3.5) miles west of the project site. Impacts would be less than significant and no mitigation measures would be required.

**No Impact**

- d) The California Environmental Protection Agency (CALEPA) has the responsibility for compiling information about sites that may contain hazardous materials, such as hazardous waste facilities, solid waste facilities where hazardous materials have been reported, leaking underground storage tanks and other sites where hazardous materials have been detected. Hazardous materials include all flammable, reactive, corrosive, or toxic substances that pose potential harm to the public or environment.

The following databases compiled pursuant to Government Code §65962.5 were checked for known hazardous materials contamination within ¼-mile of the project site:

- The SWRCB GeoTracker database
- The Department of Toxic Substances Control EnviroStor database
- The SWRCB list of solid waste disposal sites with waste constituents above hazardous waste levels outside the waste management unit.

The Project site is not listed in any of these databases as a site containing hazardous materials as described above.

**No Impact**

- e) The Project site is located approximately 10.4 miles from Lampson Field, administered by the Lake County Airport Land Use Commission, which has not adopted an Airport Land Use Compatibility Plan. In accordance with regional Airport Land Use Compatibility Plans, the site would not be located within an area of influence for the airport. Therefore, there will be no hazard for people working in the Project area from Lampson Field.

**No Impact**

- f) Access to the Project site is from High Valley Road, which is in compliance with California Public Resources Code §4290. The Project site does not contain any emergency facilities nor does it serve as an emergency evacuation route or is located adjacent to an emergency evacuation route. During long-term operation, adequate access for emergency vehicles via High Valley Road and connecting roadways will be available. Furthermore, the Project would not result in a substantial alteration to the design or capacity of any public road that would impair or interfere with the implementation of evacuation procedures. Because the Project would not interfere with an adopted emergency response or evacuation plan, impacts are less than significant and no mitigation measures are required.

**Less than Significant Impact**

- g) The Project site sits between an area of high fire risk on the southern slope of the parcel and an area of moderate fire risk on the northern slope of the parcel. In addition to the removal of brush and vegetation that would reduce fire risk, much of the parcel burned in the 2018 Mendocino Complex Fire, reducing much of the fuel that would place the cultivation area at a greater risk of wildfire. Additionally, the proposed project proposes four 5,000 gallon tanks for water storage in addition to that which will be available in case of wildfire, as well as the addition of a California Public Resources Code §4290-compliant water tank dedicated to wildfire protection.

The applicant would adhere to all federal, state, and local fire requirements and regulations for setbacks and defensible space required for any new buildings that require a building permit. All proposed construction will comply with current State of California Building Code construction standards. To construct the proposed processing structure, the applicant will be required to obtain a building permit with Lake County to demonstrate conformance with local and state building codes and fire safety requirements.

**Less than Significant Impact**

**X. HYDROLOGY AND WATER QUALITY**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                | Source Number         |
|--|--------------------------------|--|------------------------------|--------------------------|-----------------------|
| Would the project:   |                                |  |                              |                          |                       |
| a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | 1, 2, 3, 5, 6, 29, 30 |

- |    |  |                          |                                     |                                     |                          |  |
|----|--|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--|
| b) | Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?                                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 5, 6,<br>29, 30               |
| c) | Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: |                          |                                     |                                     |                          |  |
|    | i) Result in substantial erosion or siltation on-site or off-site;   |                          |                                     |                                     |                          |  |
|    | ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;  | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 5,<br>6, 7, 15,<br>18, 29, 32 |
|    | iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional surces of polluted runoff; or                          |                          |                                     |                                     |                          |  |
|    | iv) Impede or redirect flood flows?  |                          |                                     |                                     |                          |  |
| d) | In any flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 5,<br>6, 7, 9, 23,<br>32      |
| e) | Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 5,<br>6, 29                   |

Discussion:

- a) The Project parcel has no stream crossings and the nearest major watercourse, with only one ephemeral watercourse in proximity to the cultivation area, located approximately 120 feet north of the Project site

According to the proposed Project's *Property Management Plan – Waste Management Plan*, the cultivation operation is enrolled in the State Water Resources Control Board's Order *WQ 2019-0001-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities* (General Order). Compliance with this Order will ensure that cultivation operations will not significantly impact water resources by using a combination of BPTC measures, buffer zones, sediment and erosion controls, inspections and reporting, and regulatory oversight. Note also that a sediment and erosion control plan is being implemented as part of the greater Site management Plan:

Potential adverse impacts to water resources could occur during construction by modification or destruction of stream banks or riparian vegetation, the filling of wetlands, or by increased erosion and sedimentation in receiving water bodies due to soil disturbance. Project implementation will not directly impact any channels or wetlands. Soil disturbance from project implementation could increase erosion and sedimentation. Regulations at both the County and State levels require the creation and implementation of an erosion control and stormwater management plan. Furthermore, as the total area of ground disturbance from project implementation is greater than one (1) acre, the Project proponent will need to enroll for coverage under the General Permit for

Discharges of Storm Water Associated with Construction Activity (Construction General Permit, 2009-0009-DWQ).

The County's Cannabis Ordinance requires that all cultivation operations be located at least 100-feet away from all waterbodies (i.e. spring, top of bank of any creek or seasonal stream, edge of lake, wetland or vernal pool).

Additionally, cultivators who enroll in the State Water Board's Waste Discharge Requirements for Cannabis Cultivation Order WQ 2019-001-DWQ must comply with the Minimum Riparian Setbacks. Cannabis cultivators must comply with these setbacks for all land disturbances, cannabis cultivation activities, and facilities (e.g., material or vehicle storage, diesel powered pump locations, water storage areas, and chemical toilet placement).

The project areas is setback as follows:

- Over 500 feet from the nearest Class I watercourse
- Over 300 feet from the nearest Class II watercourse
- 120 feet from the nearest Class III watercourse
- Over 500 feet from the nearest wetland

As described above, the current Project site has been placed as far away as possible from waterbodies and in the flattest practical areas to reduce the potential for water pollution and erosion.

**Less Than Significant Impact with Mitigation Measures HYD-1 incorporated:**

**HYD-1: Before this permit shall have any force or effect, the permittee(s) shall adhere to the Lake County Division of Environmental Health requirements regarding on-site wastewater treatment and/or potable water requirements. The permittee shall contact the Lake County Division of Environmental Health for details.**

- b) Due to the existing exceptional drought conditions, on July 27, 2021, the Lake County Board of Supervisors passed an Urgency Ordinance (Ordinance 3106) requiring land use applicants to provide enhanced water analysis during a declared drought emergency. Ordinance 3106 requires that all project that require a CEQA analysis of water use include the following items in a Hydrology Report prepared by a licensed professional experienced in water resources:

- Approximate amount of water available for the project's identified water source,
- Approximate recharge rate for the project's identified water source, and
- Cumulative impact of water use to surrounding areas due to the project

Water Demand

According to the Project's *Hydrology Report – Projected Water Demand* section, the CalCannabis Environmental Impact Report (CDFA, 2017) states that cannabis cultivation uses six (6.0) gallons of water per day (gpd) per plant, which is one (1.0) gallon gpd per plant more than reported by Bauer et. al. (2015), who recorded up to five (5.0) gpd per plant (18.9 Liters/day/plant). Using the more conservative estimate of 6.0 gpd, and assuming there are approximately 500 planters per

acre of canopy (CDFA, 2017), the demand is 3,000 gpd (2.1 gallons per minute (gpm)) per acre of canopy; and thus the use rate is consistent with the *Water Use Management Plan – Section 15.2* of the Property Management Plan. The total water demand for a 4-acres canopy is approximately as follows:

- Daily – 12,000 gpd (8.2 gpm)
- Yearly:
  - 120 day cultivation season – 4.4 acre-feet (AF)
  - 180 day cultivation season – 6.6 AF

There is one (1) existing, permitted groundwater well that will be used for cultivation (Latitude: 39.066528, Longitude: -122.731757). The well is approximately 320 feet deep and was drilled in March of 2020. The well is screened between 260-feet and 320-feet below the ground surface (well log is attached to the TM). Using USGS topography, the elevation of the bottom of the well is at approximately 2,560 feet.

When the well was drilled, it was estimated to have a yield of 100 gpm (161.3 acre-feet per year). A 5-horsepower (HP) pump, with a maximum output of 43 gpm, has been installed on the well. On May 4, 2021, a 4-hour well drawdown test was conducted using 43 gpm, and the static water level was 206-feet with a drawdown of two (2) feet during the test. The drawdown test results are included as part of the Hydrology Report. Based on the size of the pump, it would take 4.7 hours to supply the daily demand of 12,000 gallons. The annual demand is approximately 2.7-4.1 percent of the annual well production in acre-feet, based on the well yield estimated when the well was drilled.

### Irrigation

Irrigation for the cultivation operation will use water supplied by the existing well and 5-HP pump. The irrigation water will be pumped from the well, via PVC piping, to four (4), 5,000-gallon water storage tanks, totaling 20,000 gallons of water storage, and then delivered to a drip irrigation system. The drip lines will be sized to irrigate the cultivation areas at a rate slow enough to maximize absorption and prevent runoff. Drip irrigation systems, when done properly, can conserve more water compared to other irrigation techniques.

### Groundwater Basin Information and Hydrogeology

The well is located on a ridge in an undefined groundwater basin within the Franciscan Formation. The ridge is located above the High Valley Groundwater Basin (Basin #5-16) located approximately 1-mile to the southeast and the Long Valley Groundwater Basin (Basin #5-31) located approximately 2-miles to the northeast.

The High Valley Basin is within the Schindler Creek Watershed and includes High Valley, which is a small valley about 3-miles long and 1-mile wide. The contact between the Jurassic-Cretaceous Franciscan Formation bounding the valley alluvium generally defines the basin boundary to the north, west, and south. Quaternary Holocene volcanics border the basin to the east. The valley is drained by Schindler Creek, flowing east and south, and eventually into Clearlake. There are two water bearing formations in the High Valley Basin, an unconfined aquifer within the Quaternary Alluvium, approximately 100-feet deep, and a confined aquifer within the Holocene Volcanics,

below the alluvium. According to the Lake County Groundwater Management Plan, the average-year agricultural groundwater demand in the High Valley basin is approximately 36 AF per year. However, a recent report presented to the Lake County Planning Commission (Kimley-Horn, 2021) stated the demand is about ten times this amount. Wells in the valley range in depth between 25 feet and 650 feet. Surface topography in the valley ranges between 1,920 feet and 1,720 feet (CDM 2006 and California DWR 2003, 2021).

The Long Valley Basin is located within a narrow, elongated valley, bounded on most sides by the Franciscan Formation. A small portion of the southern boundary consists of Quaternary volcanic rocks. The valley is drained by Long Valley Creek, flowing southeast, and eventually into Cache Creek. Very little information exists about the hydrogeology of this groundwater basin. Average annual agricultural groundwater demand in the Long Valley Basin is approximately 250 AF per year. Wells in the valley range in depth between 25 feet and 225 feet. Surface topography in the valley ranges between 1,550 feet and 1,150 feet (CDM 2006 and California DWR 2003, 2021).

Neither of these basins have been identified by the California Department of Water Resources (DWR) as critically overdrafted basins. Critically overdrafted basins are defined by DWR as, "A basin subject to critical overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts." In addition, as part of the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, DWR created the CASGEM Groundwater Basin Prioritization statewide ranking system to prioritize California groundwater basins in order to help identify, evaluate, and determine the need for additional groundwater level monitoring. California's groundwater basins were classified into one of four categories: 1) high-priority; 2) medium-priority; 3) low-priority; or 4) very low-priority. Both the High Valley and the Long Valley Basins were ranked as very low-priority basins by the CASGEM ranking system (DWR, 2021).

### Recharge Rate

The elevation of the bottom of the project's water well is approximately 2,560 feet, well above the High Valley and Long Valley Basins. Due to the lack of information regarding groundwater in the vicinity of the well, it is unknown whether the source water is within an isolated aquifer or contributes recharge to the High Valley or Long Valley Basins.

The annual recharge can be estimated using a water balance equation, where recharge is equal to precipitation (P) less runoff (Q), and abstractions that do not contribute to infiltration (e.g., evapotranspiration). A simple tool that can be used to estimate runoff and abstractions, that uses readily available data, is the Natural Resources Conservation Service (NRCS) Curve Number (CN) Method (NRCS, 1986). Determination of the CN depends on the watershed's soil and cover conditions, cover type, treatment, and hydrologic condition. The CN Method runoff equation is:

$$Q = (P - I_a)^2 / (P - I_a) + S$$

Where:

Q = runoff (inches)

P = rainfall (inches)

S = potential maximum retention after runoff begins (inches)

$I_a$  = initial abstraction (inches)

The initial abstraction ( $I_a$ ) represents all losses before runoff begins, including initial infiltration, surface depression storage, evapotranspiration, and other factors. The initial abstraction is estimated as  $I_a = 0.2S$ .  $S$  is related to soil and cover conditions of the watershed through the CN, determined as  $S = 1000/CN - 10$ . Using these relations, the runoff equation becomes:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

The CN is estimated based on hydrologic soil group (HSG), cover type, condition, and land use over the area of recharge. The approximate recharge area around the site, delineated using the well bottom elevation, is 0.4-square miles (256 acres).

The recharge area soils are classified into four HSGs (A, B, C, and D) according to the soils ability to infiltrate water, where HSG-A has the highest infiltration potential and HSG-D has the lowest infiltration potential. HSGs are based on soil type and are determined from the NRCS Web Soil Survey. The recharge area is comprised of two primary HSGs: 75 percent HSG-C and 25 percent HSG-D. The land use is undeveloped with a cover type of brush in fair, 50-75 percent groundcover, conditions and has CNs of 70 and 77 for HSG-C and HSG-D, respectively. Thus, the weighted CN for the recharge area is 72.

The PRISM Climate Group gathers climate observations from a wide range of monitoring networks and provides time series values of precipitation for individual locations. Using the annual precipitation from 1895 to 2020, as predicted by PRISM, the annual average precipitation over this period is 43.5 inches and the minimum precipitation over this period is 9.7 inches.

Using the above information, and assuming that 50 percent of the initial abstraction infiltrates and the remainder is evapotranspiration (0.39 inches or 8.3 AF), the estimated annual recharge over the recharge area of 0.4-square miles is 84 AF during an average year and 66 AF during a dry year.

| Recharge Area (acres) | P (inches) | CN | S (inches) | $I_a$ (inches) | Q (inches) | Recharge (inches) | Recharge (AF) |
|-----------------------|------------|----|------------|----------------|------------|-------------------|---------------|
| 256                   | 9.7        | 72 | 3.89       | 0.78           | 6.2        | 3.1               | 66            |
| 256                   | 43.5       | 72 | 3.89       | 0.78           | 39.2       | 4.0               | 84            |

#### Cumulative Impact to Surrounding Areas

Annual water demand of the proposed project could be up to 6.6 AF per year, depending on the length of the cultivation season, which is approximately 8 percent and 10 percent of the annual recharge during an average and dry year, respectively. Overall, the project would need 0.31 inches of rainfall to infiltrate into the recharge area to meet the Project's demand. Thus, there is enough recharge on an annual basis to meet the Project's demand.



Furthermore, the Project is located in a very rural area with no neighboring development. There are no known wells within the 0.4-square mile recharge area. From review of Google Earth Imagery and California Department of Water Resources (DWR) Well Completion Report Map Applications, there appears to be a well approximately 0.8 miles to the northwest on another ridge and 0.6 miles to the southeast. Both wells are outside the recharge area.

Because the groundwater basin is undefined, the recharge rate was determined using an estimate of the recharge area, and the in-situ characteristics of the water source (e.g., perched aquifer, localized confined aquifer, or confined/unconfined aquifer part of a larger system).

It is recommended that the project applicant monitor water levels in the well. The purpose of the monitoring is to evaluate the functionality of the well to meet the long-term water demand of the proposed project. Water level monitoring is required by the Lake County Zoning Ordinance. Ordinance Article 27 Section 27.11(at) requires the well to have a water level monitor. With these required measures in place, the impact is expected to be less than significant with Mitigation Measures HYD-2 and HYD-3.

**Less Than Significant Impact with Mitigation Measures HYD-2 and HYD-3 incorporated:**

**HYD-2: The applicant shall prepare a groundwater management plan to ensure that the groundwater resources of the County are protected used and managed sustainably. The plan would support the Integrated Regional Water Management Plan and include an inventory of groundwater resources in the County and a management strategy to maintain the resource for the reasonable and beneficial use of the people and agencies of the County.**

**HYD-3: The production well shall have a meter to measure the amount of water pumped. The production wells shall have continuous water level monitors. The methodology of the monitoring program shall be described. A monitoring well of equal depth within the cone of influence of the production well may be substituted for the water level monitoring of the production well. The monitoring wells shall be constructed and monitoring began at least three months before the use of the supply well. An applicant shall maintain a record of all data collected and shall provide a report of the data collected to the County annually and/or upon made upon request.**

- c) According to Lake County Ordinance Section 27.13 (at) 3, the Property Management Plan must have a section on Storm Water Management based on the requirements of the California Regional Water Quality Control Board Central Valley Region or the California Regional Water Quality Control Board North Coast Region, with the intent to protect the water quality of the surface water and the stormwater management systems managed by Lake County and to evaluate the impact on downstream property owners. All cultivation activities shall comply with the California State Water Board, the Central Valley Regional Water Quality Control Board, and the North Coast Region Water Quality Control Board orders, regulations, and procedures as appropriate.

The cultivation operation is enrolled in the State Water Resources Control Board's Order *WQ 2019-0001-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities* (General Order). Compliance with this Order will ensure that cultivation operations will not significantly impact water resources by using a combination of Best

Management Practices, buffer zones, sediment and erosion controls, inspections and reporting, and regulatory oversight. A sediment and erosion control plan is also being implemented as part of the larger Site Management Plan.

According to the Storm Water Management Plan, the cultivation operations are not expected to alter the hydrology of the parcels significantly. Establishment of the cultivation operations will require some grading, but they have been located in areas partially cleared for past, non-Cannabis land uses. Establishment of the cultivation operations does not require the construction of new buildings, paved roads, or other significantly permanent and impermeable surfaces that would alter runoff significantly.

In addition to significantly exceeding all setback requirements, generous vegetative buffers exist between the cultivation area and the nearest water resource. These vegetated areas will be preserved as much as possible, with the exception of any fire breaks needed for wildfire protection.

BPTC measures will be deployed in a sequence to follow the progress of site preparation, tilling, and cultivation. As the locations of soil disturbance change, erosion and sedimentation controls should be adjusted accordingly to control stormwater runoff at the downgrade perimeter and drain inlets. BPTCs to be implemented include monitoring weather to track conditions and alert crews to the onset of rainfall events, stabilizing disturbed soils with temporary erosion control or with permanent erosion control as soon as possible after grading or construction is completed, and establishing temporary or permanent erosion control measures prior to rain events. Typical BMPs include the placement of straw, mulch, seeding, straw wattles, silt fencing, and planting of native vegetation on all disturbed areas to prevent erosion.

Due to the natural conditions of the Project site and with these erosion mitigation measures, the Project i) will not result in substantial erosion or siltation on-site or off-site; ii) will not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or offsite; iii) will not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; and iv) will not impede or redirect flood flows.

#### **Less than Significant Impact**

- d) The Project site is not located in an area of potential inundation by seiche or tsunami. The Project site is designated to be in Flood Zone X – areas of minimal flooding – not in a special flood hazard area. While some soils on the parcel are susceptible to erosion, soils at the project site are relatively stable, with a minimal potential to induce mudflows.

#### **Less than Significant Impact**

- e) The Project has adopted a Drought Management Plan (DMP) as part of the requirements of Lake County Ordinance 3106, passed by the Board of Supervisors on July 27, 2021, which depicts how the applicant proposes to reduce water use during a declared drought emergency and ensures both the success and decreased impacts to surrounding areas. The project also proposes water metering and conservation measures as part of the standard operating procedures, and these measures will be followed whether or not the region is in a drought emergency.

As part of the project's standard operational procedures, the project proposes to implement ongoing water monitoring and conservation measures that would reduce the overall use of water. These measures are included in the Water Use Management Plan (Section 15.2) as required by Article 27, Section 27.13 (at) 3 of the Lake County Zoning Ordinance. On-going water conservation measures include:

- No surface water diversion
- The selection of plant varieties that are suitable for the climate of the region
- The use of driplines and drip emitters rather than spray irrigation
- Covering drip lines with straw mulch or similar materials to reduce evaporation
- Using water application rates modified from data obtained from soil moisture meters and weather monitoring
- Utilizing shutoff valves on hoses and water pipes
- Daily visual inspections of irrigation systems
- Immediate repair of leaking or malfunctioning equipment
- Water-use metering and budgeting

A water budget will be created every year and water use efficiency from the previous year will be analyzed.

In addition to water use metering, water level monitoring is also required by Lake County Zoning Ordinance Article 27 Section 27.11 (at) 3, specifically that wells must have a meter to measure the amount of water pumped as well as a water level monitor. Well water level monitoring and reporting will be performed as follows:

#### Seasonal Static Water Level Monitoring

The purpose of seasonal monitoring of the water level in a well is to provide information regarding long-term groundwater elevation trends. The water level in each well will be measured and recorded once in the Spring (March or April), before cultivation activities begin, and once in the fall (October) after cultivation is complete, as the California Statewide Groundwater Monitoring Program (CASGEM) monitors semi-annually, around April 15 and October 15 of each year. Records shall be kept, and elevations reported to the County as part of the project's annual reporting requirements. Reporting shall include a hydrograph plot of all seasonal water level measurements, for all project wells, beginning with the initial measurements. Seasonal water level trends will aid in the evaluation of the recharge rate of the well. If the water level in a well measured during the Spring remains relatively constant from year to year, then the water source is likely recharging each year.

#### Water Level Monitoring During Extraction

The purpose of monitoring the water level in a well during extraction is to evaluate the performance of the well and determine the effect of the pumping rate on the water source during each cultivation season. This information will be used to determine the capacity and yield of the Project's wells and to aid the cultivators in determining pump rates and the need for water storage. The frequency of water level monitoring will depend on the source, the source's capacity, and the pumping rate. It is recommended that initially the water level be monitored twice per week or more, and that the frequency be adjusted as needed depending on the impact that the

pumping rate has on the well water level. Records will be kept and elevations reported to the County as part of the project's annual reporting requirements. Reporting will include a hydrograph plot of the water level measurements for all project wells during the cultivation season and compared to prior seasons.

Measuring a water level in a well can be difficult and the level of difficulty will depend on site-specific conditions. As part of the well monitoring program, the well owner or operator will work with a well expert to determine the appropriate methodology and equipment to measure the water level, as well as who will conduct the recording and monitoring of the well level data. The methodology of the well monitoring program will be described and provided in the project's annual report.

In addition to monitoring and reporting, an analysis of the water level monitoring data will be provided and included in the project's annual report, demonstrating whether or not use of the project wells is causing significant drawdown and/or impacts to the surrounding area and what measures can be taken to reduce their impacts. If there are impacts, a revised Water Management Plan will be prepared and submitted to the County for review and approval, which demonstrates how the project will mitigate the impacts in the future.

#### Drought Emergency Water Conservation Measures

In addition to the above on-going water monitoring and conservation measures, during times of drought emergencies or water scarcity the project may implement the following additional measures as needed or appropriate to the site in order to reduce water use and ensure both the success and decreased impacts to surrounding areas:

- Install moisture meters to monitor how much water is in the soil at the root level and reduce watering to only what is needed to avoid excess
- Cover the soil and drip-lines with removable plastic covers or similar to reduce evaporation
- Irrigate only in the early morning hours or before sunset
- Cover plants with shaded meshes during peak summer heat to reduce plant water needs
- Use a growing medium that retains water in a way to conserve water and aid plant growth. Organic soil ingredients like peat moss, coco coir, compost and other substances like perlite and vermiculite retain water and provide a good environment for cannabis to grow
- Install additional water storage

In the event that the well cannot supply the water needed for the project, the following measures may be taken:

- Reduce the amount of cultivation and/or length of cultivation season
- Install additional water storage
- If possible, develop an alternative, legal, water source that meets the requirements of Lake County Codes and Ordinances.

**Less Than Significant Impact with Mitigation Measure HYD-4 incorporated:**

**HYD-4: The applicant will adhere to the measures described in the Drought Management Plan during periods of a declared drought emergency.**

**XI. LAND USE PLANNING**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number              |
|--|--------------------------------|--|-------------------------------------|-------------------------------------|----------------------------|
| Would the project:   |                                |  |                                     |                                     |                            |
| a) Physically divide an established community?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 2, 3, 5, 6              |
| b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 20, 21, 22, 27 |

**Discussion:**

- a) The project site consists of 80 acres of undeveloped land in the Shoreline Communities Planning Area. The closest community growth boundary accessible by road is Clearlake Oaks, which is approximately 3.5 miles away, while the Lucerne community growth boundary is approximately 2.2 miles away, separated by rugged, mountainous terrain.

The area is characterized by large parcels of rural, undeveloped land within some proximity to limited agricultural uses such as vineyards, orchards, and small horse ranches. There are no established networks of horse or pedestrian trails on or around the project site.

The proposed project site would not physically divide any established community.

**No Impact**

- b) The General Plan Land Use Zone and Zoning District designation currently assigned to the Project site is Rural Land (RL) – Scenic Combining (SC). The Lake County Zoning Ordinance allows for commercial outdoor cannabis cultivation in the RL land use zone with a major use permit.

The SC Zoning District, as described in the Lake County Zoning Ordinance Article 34.1, sets forth to “protect and enhance views of scenic areas from the County’s scenic highways and roadways for the benefit of local residential and resort development, the motoring public, and the recreation based economy of the County.” According to Article 34.2, scenic criteria that applies to the Project parcel include 1) varied topographic features including dominant hills and mountains; 2) vegetative features including significant stands of trees and plants; and 3) pastoral features such as pastures and vineyards, all visible from High Valley Road at the location of the Project site.

The restricted uses described in Article 34.3 do not apply to the proposed Project, and the requirement of a major use permit as described in Article 34.4 is satisfied through the current use permit application. The proposed project meets the performance standards as described in Article 34.11.

The canopy and cultivation area are uphill and to the north of the High Valley Road, they are not generally visible from the Road, and they do not obstruct views of vineyards, dominant hills, and mountains to the south. Existing stands of trees and plants further screen the project site from the general public.

A section of the security fence will be visible from the High Valley Road on the southeast section of the project site, and can be mitigated through the requirement of additional landscaping and tree planting as set forth in the performance standards set forth in Article 34.11 and described in Mitigation Measure AES-1.

**Less than Significant Impact with Mitigation Measure AES-1 incorporated**

**XII. MINERAL RESOURCES**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                           | Source Number  |
|--|--------------------------------|--|------------------------------|-------------------------------------|----------------|
| Would the project:   |                                |  |                              |                                     |                |
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?                                 | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5, 26 |
| b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5, 26 |

**Discussion:**

- a) The Lake County Aggregate Resource Management Plan does not identify the portion of the Project parcel planned for cultivation as having an important source of aggregate resources. The California Department of Conservation describes the generalized rock type for the Project parcel as KJf: Marine sedimentary and metasedimentary rocks (Cretaceous-Jurassic) - Franciscan Complex: Cretaceous and Jurassic sandstone with smaller amounts of shale, chert, limestone, and conglomerate. Includes Franciscan melange, except where separated. Additionally, according to the California Department of Conservation, Mineral Land Classification, there are no known mineral resources on the project site, and thus no impact.

**No Impact**

- b) According to the California Geological Survey's Aggregate Availability Map, the Project site is not within the vicinity of a site being used for aggregate production. In addition, the site not delineated on the County of Lake's General Plan, the Shoreline Communities Area Plan nor the Lake County Aggregate Resource Management Plan as a mineral resource site. Therefore, the project has no potential to result in the loss of availability of a local mineral resource recovery site.

**No Impact**

### XIII. NOISE

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number          |
|---|--------------------------------|--|-------------------------------------|-------------------------------------|------------------------|
| Would the project:  |                                |  |                                     |                                     |                        |
| a) Result in the generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1, 3, 4, 5, 13         |
| b) Result in the generation of excessive ground-borne vibration or ground-borne noise levels?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 13         |
| c) Result in the generation of excessive ground-borne vibration or ground-borne noise levels?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 3, 4, 5, 11, 14, 15 |

#### Discussion:

- a) Noise related to outdoor cannabis cultivation typically occurs either during construction, or as the result of machinery related to post construction equipment such as well pumps or emergency backup generators during power outages. Emergency generators are not proposed as part of this project. Energy will be supplied by solar power.

This project will have some noise related to site preparation, and hours of construction are limited through standards described in the conditions of approval.

Although the property size and location will help to reduce any noise detectable on at the property line, mitigation measures will still be implemented to further limit the potential sources of noise.

In regards to the Lake County General Plan Chapter 8 - Noise, there are no sensitive noise receptors within one (1) mile of the project site, and Community Noise Equivalent Levels (CNEL) are not expected to exceed the 55 dBA during daytime hours (7am – 10pm) or 45 dBA during night hours (10pm – 7am) when measured at the property line.

**Less than Significant Impact with Mitigation Measures NOI-1 and NOI-2 incorporated:**

**NOI-1: All construction activities including engine warm-up shall be limited Monday Through Friday, between the hours of 7:00am and 7:00pm, and Saturdays from 12:00 noon to 5:00 pm to minimize noise impacts on nearby residents. Back-up beepers shall be adjusted to the lowest allowable levels. This mitigation does not apply to night work.**

**NOI-2: Maximum non-construction related sounds levels shall not exceed levels of 55 dBA between the hours of 7:00AM to 10:00PM and 45 dBA between the hours of 10:00PM to 7:00AM within residential areas as specified within Zoning Ordinance Section 21-41.11 (Table 11.1) at the property lines.**

- b) Under existing conditions, there are no known sources of ground-borne vibration or noise that affect the Project site such as railroad lines or truck routes. Therefore, the Project would not create any exposure to substantial ground-borne vibration or noise.

The Project would not generate ground-borne vibration or noise, except potentially during the construction phase from the use of heavy construction equipment. There will be some grading required for the container pads and greenhouses, however earth movement is not expected to generate ground-borne vibration or noise levels. According to California Department of Transportation's Transportation and Construction-Induced Vibration Guidance Manual, ground-borne vibration from heavy construction equipment does not create vibration amplitudes that could cause structural damage, when measured at a distance of 10 feet. The nearest existing off-site structures are located over one (1) mile from the nearest point of construction activities and would not be exposed to substantial ground-borne vibration due to the operation of heavy construction equipment on the Project site.

Furthermore, the Project is not expected to employ any pile driving, rock blasting, or rock crushing equipment during construction activities, which are the primary sources of ground-borne noise and vibration during construction. As such, impacts from ground-borne vibration and noise during near-term construction would be less than significant.

**Less Than Significant Impact**

- c) The Project site is located approximately 10.4 miles from Lampson Field, administered by the Lake County Airport Land Use Commission, which has not adopted an Airport Land Use Compatibility Plan. Therefore, no impact is anticipated.

**No Impact**



#### XIV. POPULATION AND HOUSING

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                           | Source Number |
|---|--------------------------------|--|------------------------------|-------------------------------------|---------------|
| Would the project:  |                                |  |                              |                                     |               |
| a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5    |
| b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5    |

#### Discussion:

- a) The Project is not anticipated to induce significant population growth to the area. The increased employment will be approximately two (2) fulltime and up to five (5) seasonal employees to be hired locally.

**No Impact**

- b) The Project site once contained a single-family dwelling that was destroyed in 2018 in the Mendocino Complex Fire and will not be rebuilt, and will not displace any existing housing, thus no impact is expected.

**No Impact**

#### XV. PUBLIC SERVICES

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number   |
|---|--------------------------------|--|-------------------------------------|--------------------------|---|
| Would the project:  |                                |  |                                     |                          |   |
| a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 4, 5, 20, 21, 22, 23, 27, 28, 29, 32, 33, 34, 36, 37 |
| 1) Fire Protection?   |                                |  |                                     |                          |   |
| 2) Police Protection?   |                                |  |                                     |                          |   |
| 3) Schools?   |                                |  |                                     |                          |   |
| 4) Parks?   |                                |  |                                     |                          |   |
| 5) Other Public Facilities?   |                                |  |                                     |                          |   |

Discussion:

1) Fire Protection

The Northshore Fire Protection District provides fire protection services to the proposed Project area. The proposed Project would be served by the Northshore Fire Protection Station in Lucerne, an existing station located approximately 17 roadway miles from the Project site. Development of the proposed Project would impact fire protection services by increasing the demand on existing County Fire District resources. To offset the increased demand for fire protection services, the proposed Project would be conditioned by the City to provide a minimum of fire safety and support fire suppression activities and installations, including compliance with State and local fire codes, as well as minimum private water supply reserves for emergency fire use. With these measures in place, the project would have a less than significant impact on fire protection.

2) Police Protection

The Project site falls under the jurisdiction of the Lake County Sheriff's Department, and is in a remote area not easily reached by law enforcement the event of an emergency. Article 27 of the Lake County Zoning Ordinance lays out specific guidelines for security measures for commercial cannabis cultivation to prevent access of the site by unauthorized personnel and protect the physical safety of employees. This includes 1) establishing a physical barrier to secure the perimeter access and all points of entry; 2) installing a security alarm system to notify and record incident(s) where physical barriers have been breached; 3) establishing an identification and sign-in/sign-out procedure for authorized personnel, suppliers, and/or visitors; 4) maintaining the premises such that visibility and security monitoring of the premises is possible; and 5) establishing procedures for the investigation of suspicious activities. Accidents or crime emergency incidents during operation are expected to be infrequent and minor in nature, and with these measures the impact is expected to be less than significant.

3) Schools

The proposed Project is not expected to significantly increase the population in the local area and would not place greater demand on the existing public school system by generating additional students. No impacts are expected.

4) Parks

The proposed Project will not increase the use of existing public park facilities and would not require the modification of existing parks or modification of new park facilities offsite. No impacts are expected.

5) Other Public Facilities

As the owners and operators currently reside in Lake County, and the small staff will be hired locally, no impacts are expected.

**Less than Significant Impact**

## XVI. RECREATION

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                           | Source Number |
|--|--------------------------------|--|------------------------------|-------------------------------------|---------------|
| Would the project:   |                                |  |                              |                                     |               |
| a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 2, 3, 4, 5 |
| b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?      | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>     | <input checked="" type="checkbox"/> | 1, 3, 4, 5    |

### Discussion:

- a) As the owners and operators currently reside in Lake County, and the small staff will be hired locally, there will be no increase in the use of existing neighborhood and regional parks or other recreational facilities and no impacts are expected.

#### No Impact

- b) The proposed Project does not include any recreational facilities and will not require the construction or expansion of existing recreational facilities, and no impacts are expected.

#### No Impact

## XVII. TRANSPORTATION

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number                     |
|--|--------------------------------|--|-------------------------------------|-------------------------------------|-----------------------------------|
| Would the project:   |                                |  |                                     |                                     |                                   |
| a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 9, 20, 22, 27, 28, 35 |
| b) For a land use project, would the project conflict with or be inconsistent with CEQA guidelines section 15064.3, subdivision (b)(1)?                | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 9, 20, 22, 27, 28, 35 |
| c) For a transportation project, would the project conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)(2)?          | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 3, 4, 5, 9, 20, 22, 27, 28, 35 |

- |   |                          |                          |                                     |                                     |   |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|---|
| d) Substantially increase hazards due to geometric design features (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 3, 4, 5,<br>9, 20, 22,<br>27, 28, 35 |
| e) Result in inadequate emergency access?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5,<br>9, 20, 22,<br>27, 28, 35 |

Discussion:

a) Roadway Analysis

The project is located approximately four (4) roadway miles north of Clearlake Oaks on High Valley Road. Vehicles traveling to the site will utilize California State Highway 20 either from the east or west, and take High Valley Road north to the Project site.

The Project site is situated on the north side of High Valley Road, which is classified as a local road in the Lake County General Plan. The access driveway off of High Valley Road is approximately 15-20 feet wide, meeting California Public Resource Code 4290 (PRC 4290) road standards for fire equipment access, including two access points for emergency vehicles.

The proposed Project does not conflict with any existing program plan, ordinance or policy addressing roadway circulation, including the Lake County General Plan Chapter 6 – Transportation and Circulation, and a less than significant impact on road maintenance is expected.

Transit Analysis

The Lake County Transit Authority Route 1 – North Shore, Clearlake to Lakeport, runs along California State Highway 20, with a transit stop located at the intersection of Highway 20 and Keyes Blvd, approximately one half (0.5) miles from High Valley Road. This can allow employees to utilize public transit for a portion of their commute. The proposed Project does not conflict with any existing program plan, ordinance or policy addressing transit issues, including Chapter 6 of the General Plan.

Bicycle Lane and Pedestrian Path Analysis

The proposed Project does not conflict with any existing program plan, ordinance or policy addressing bicycle and/or pedestrian issues, including Chapter 6 of the General Plan.

**Less than Significant Impact**

- b) State CEQA Guidelines Section 15064.3, Subdivision (b) states that for land use projects, transportation impacts are to be measured by evaluating the proposed Project’s vehicle miles traveled (VMT), as follows:

*“Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high quality transit corridor should be presumed to cause a less than significant transportation impact. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact.”*

To date, the County has not yet formally adopted its transportation significance thresholds or its transportation impact analysis procedures. As a result, the project-related VMT impacts were assessed based on guidelines described by the California Office of Planning and Research (OPR) in the publication *Transportation Impacts (SB 743) CEQA Guidelines Update and Technical Advisory*, 2018. The OPR Technical Advisory identifies several criteria that may be used to identify certain types of projects that are unlikely to have a significant VMT impact and can be “screened” from further analysis. One of these screening criteria pertains to small projects, which OPR defines as those generating fewer than 110 new vehicle trips per day on average. OPR specifies that VMT should be based on a typical weekday and averaged over the course of the year to take into consideration seasonal fluctuations. The estimated trips per day for the proposed Project are between 5 to 12 during construction and operation.

The applicants will be operating under an A-Type 13 Cannabis Distributor Transport Only, Self-distribution License. In the “RL” zoning district the Type 13 Distributor Only, Self-distribution State licenses are an accessory use to an active cannabis cultivation or cannabis manufacturing license site with a valid minor or major use permit. The parcel where the Type 13 license will be located, as required by Article 27.11, shall front and have direct access to a State or County maintained road or an access easement to such a road, the permittee shall not transport any cannabis product that was not cultivated by the permittee, and all non-transport related distribution activities shall occur within a locked structure.

The proposed Project would not generate or attract more than 110 trips per day, and therefore it is not expected for the Project to have a potentially significant level of VMT. Impacts related to CEQA Guidelines section 15064.3, subdivision (b) would be less than significant.

#### **Less than Significant Impact**

- c) The Project is not a transportation project. The proposed use will not conflict with and/or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)(2).

#### **No Impact**

- d) The Project does not propose any changes to road alignment or other features, does not result in the introduction of any obstacles, nor does it involve incompatible uses that could increase traffic hazards. Equipment used in cultivation will be transported to the Project site as needed and will not need to be operated on High Valley Road.

#### **No Impact**

- e) The proposed Project would not alter the physical configuration of the existing roadway network serving the area, and will have no effect on access to local streets or adjacent uses (including access for emergency vehicles). Internal gates and roadways will meet CALFIRE requirements for vehicle access according to PRC §4290, including adequate width requirements. Furthermore, as noted above under impact discussion (a), increased project-related operational traffic would be minimal. The proposed Project would not inhibit the ability of local roadways to continue to accommodate emergency response and evacuation activities. The proposed project would not interfere with the City's adopted emergency response plan.

**Less than Significant Impact**

**XVIII. TRIBAL CULTURAL RESOURCES**

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number          |
|---|--------------------------------|--|-------------------------------------|--------------------------|------------------------|
| Would the project Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: |                                |  |                                     |                          |                        |
| a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 3, 4, 5, 11, 14, 15 |
| b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 3, 4, 5, 11, 14, 15 |

**Discussion:**

- a) A Cultural Resources Report (CRR) for the proposed cultivation Project was completed by Natural Investigations Company, Inc. to identify potentially significant cultural resources. A California Historical Resources Information System (CHRIS) records search was completed by the Northwest Information Center (NWIC) on December 9, 2019, and the Native American Heritage Commission (NAHC) returned the results of the Sacred Lands File (SLF) search on November 20, 2019. Natural Investigations sent Project information letters to the tribes affiliated with the Project Area on the same date. Finally, Natural Investigations conducted an intensive pedestrian survey within the Project Area on December 4, 2019.

The CHRIS records search indicates that one prior study has been conducted within the Project Area, and one additional report has been completed outside the Project Area but within a 0.25-mile radius. No cultural resources have been previously recorded within the Project Area, though four resources have been recorded within 0.25 miles. These resources are all prehistoric in age and include one lithic scatter and three isolated artifacts. The SLF search returned positive results for Native American cultural resources within the Project vicinity. The NAHC provided a list of five tribes to be contacted for more information on these resources. No responses to our requests for information were received from the tribes listed by the NAHC. No cultural resources of any kind were identified during the field survey.

Notification of the project was sent to local tribes on March 4, 2020. The Director of Cultural Resources for the Yocha Dehe Wintun Nation responded with a letter dated March 16, 2020 and concluded the project is not within their territories. No further comments were received from local tribes regarding this project. A follow up notification was sent on September 15, 2021 to the Elem Colony and Robinson Rancheria, as the Project Site is located in the Elem Colony Monitoring Boundary near the eastern parameter of the Robinson Rancheria Monitoring Boundary. No comments or concerns have been received or recorded at this point.

Based on the negative findings of the CHRIS search, field survey, and outreach efforts with local tribes, there is no indication that the Project will impact any historical or archaeological resources as defined under CEQA Section 15064.5 or tribal cultural resources as defined under Public Resources Code Section 21074. It is possible, but unlikely, that significant artifacts or human remains could be discovered during Project construction. If, however, significant artifacts or human remains of any type are encountered it is recommended that the Project sponsor contact the culturally affiliated tribe and a qualified archaeologist to assess the situation. The Sheriff's Department must also be contacted if any human remains are encountered.

In response to the Cultural Resources Report and the California Historical Resources Information System records search, both of which indicate no presence of tribal cultural resources on the Project site, the lead agency has determined that, in its discretion and supported by substantial evidence, no resources pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1 will be affected by the proposed Project. With mitigation measures CUL-1 and CUL-3, along with a continued dialogue with the Elem Colony and other tribes in Lake County, the impact will be less than significant.

**Less than Significant Impact with Mitigation Measures CUL-1 and CUL-3 incorporated**

- b) In response to the Cultural Resources Report and the California Historical Resources Information System records search, both of which indicate no presence of tribal cultural resources on the Project site, the lead agency has determined that, in its discretion and supported by substantial evidence, no resources pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1 will be affected by the proposed Project. With mitigation measures CUL-1 and CUL-3, along with a continued dialogue with the Elem Colony and other tribes in Lake County, the impact will be less than significant.

**Less than Significant Impact with Mitigation Measures CUL-1 and CUL-3 incorporated**

## XIX. UTILITIES

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                           | Source Number                  |
|--|--------------------------------|--|-------------------------------------|-------------------------------------|--------------------------------|
| Would the project:   |                                |  |                                     |                                     |                                |
| a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 3, 4, 5, 29, 32, 33, 34, 37 |
| b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?  | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1, 2, 3, 5, 6, 22, 31          |
| c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1, 2, 3, 5, 6, 22              |
| d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?  | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 2, 3, 5, 6, 35, 36          |
| e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1, 2, 3, 5, 6, 35, 36          |

### Discussion:

- a) The proposed Project will be served by an existing onsite irrigation well and an onsite solar energy systems for all project-related energy and water demands. There is currently an ADA compliant portable toilet and handwashing station on the Project site.

The Project will not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects

**Less than Significant Impact**



- b) The subject parcel is served by an existing well as described in the Hydrology Study and Drought Management Plan submitted with the Use Permit application, and the cultivation operation is enrolled as a Tier II / Low Risk cultivation operation in the State Water Resources Control Board's *Order WQ 2017-0023-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities* (General Order). Compliance with this Order will ensure that cultivation operations will not significantly impact water resources by using a combination of BPTC measures for water conservation, including shut-off valves on water tanks, drip irrigation, continued maintenance of equipment, in addition to buffer zones, sediment and erosion controls, inspections and reporting, and regulatory oversight.

**Less than Significant Impact with Mitigation Measures HYD-1 through HYD-4 implemented**

- c) According to the Lake County Division of Environmental Health, the project will require a minor repair permit to bring the existing septic system (Permit #20331) to present code (due to the 2018 Mendocino Complex fire), and the use of portable toilets and hand washing station for cultivation operations is acceptable.

**Less than Significant Impact**

- d) The existing landfill has sufficient capacity to accommodate the project's solid waste disposal needs.

According to the *Property Management Plan – Waste Management* at least one waste bin will be located within the fenced-in area of the cultivation site and one adjacent to the garage. Waste bins will consist of trash cans (20 or 35 gallon) with lids or roll-off dumpsters with lids. Recyclables will be separated from solid waste and stored in bins. At weekly intervals, staff will transfer them by truck in trash cans, with tight lids or plastic garbage bags and tarped loads and deposit them in an appropriate recycling facility. Yard waste, green waste, and other compostable materials will be separated from solid waste and deposited at an appropriate transfer facility. Waste will be hauled to an appropriate licensed facility by a private waste-hauling contractor, or by cultivation operation staff.

Eastlake Landfill, South Lake Refuse Center, and Quackenbush Mountain Resource Recovery and Compost Facility are located within reasonable proximity of the Project site. Lake County Waste Solutions Transfer Station and Recycling Center is located approximately 25 miles northwest of the subject parcel. As of 2019, the Eastlake Landfill had 659,200 cubic yards available for solid waste, with an additional 481,000 cubic yards approved in 2020.

The project would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure.

**Less than Significant**

- e) The project will be in compliance with federal, state, and local management and reduction statutes and regulations related to solid waste.

**Less than Significant**

**XX. WILDFIRE**

|  | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact        | No Impact                | Source Number                 |
|--|--------------------------------|--|-------------------------------------|--------------------------|-------------------------------|
| If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:   |                                |  |                                     |                          |                               |
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan?   | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 5, 6, 23, 25, 28, 29 |
| b) Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?                                     | <input type="checkbox"/>       | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1, 2, 3, 5, 6, 23, 25, 28, 29 |
| c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 5, 6                 |
| d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?  | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | 1, 2, 3, 5, 6, 21, 23, 32     |

**Discussion:**

- a) The project will not further impair an adopted emergency response plan or evacuation plan. The applicant will adhere to all regulation of California Code Regulations Title 14, Division 1.5, Chapter 7, Subchapter 2, and Article 1 through 5 shall apply to this project; and all regulations of California Building Code, Chapter 7A, Section 701A, 701A.3.2.A.

In May of 2020, Lake County Building Division staff conducted a PRC 4290 and 4291 site inspection and determined that the project parcel is exempt from 4290 requirements due to the fact it is strictly outdoor grow, per the acting Chief Building Official. Despite the decision, the applicant is taking measures to ensure the Project site meets PRC §4290 compliance.

**Less than Significant**

- b) The Project site is situated between a moderate fire hazard zone and a high risk fire hazard zone, and the overall parcel boundary is considerably sloped, despite the Project site and access to the project site being relatively flat. The cultivation area does not further exacerbate the risk of wildfire, or the overall effect of pollutant concentrations on area residents in the event of a wildfire. The Project would improve fire access and the ability to fight fires at or from the Project site and other sites accessed from the same roads through the upkeep of the property area and the installation of a PRC §4290-compliant water tank, in addition to the proposed water tanks.

**Less than Significant Impact**

- c) The proposed Project, as described in the application documents and confirmed through site visits to the property, would not exacerbate fire risk through the installation of maintenance of associated infrastructure. The proposed Project will require maintenance to meet and/or maintain roadway and driveway standards. A steel or fiberglass fire suppression water tank will be located at the cultivation site.

In March 2020, the Northshore Fire Protection District provided comments on the proposed project, including the need for Fire Access Roads to meet the requirements of CCR 1273/PRC §4290, the installation of approved address numbers to be placed on all buildings and/or driveways in such a position as to be plainly visible and legible from the street or road fronting the property with numbers that shall contrast with their background will be required, and the installation of a rapid entry lock box, approved by the fire district if any gate is installed will also be required.

The Lake County Municipal Code Section 13-60 states that

**Less than Significant Impact with Mitigation Measure WDF-1:**

**WDF-1: Construction activities will not take place during a red flag warning (per the local fire department and/or national weather service) and wind, temperature and relative humidity will be monitored in order to minimize the risk of wildfire. Grading will not occur on windy days that could increase the risk of wildfire spread should the equipment create a spark.**

- d) There is little chance of increased risks associated with post-fire slope runoff, instability, or drainage changes based on the lack of site changes that would occur by the Project parcel.

The Project site, along with much of the parcel, burned in 2018 in the Mendocino Complex fire, and the stability of the soil on the relatively flat sections where the Project parcel is located. Steeper sections of the parcel are heavily vegetated and remain stable. The erosion mitigation measures and BMPs to be implemented will provide further stability on and around the Project site, and with no neighboring people or structures within range of downstream flooding or landslides, the impact will be less than significant impact with mitigation measures WDF-2 and WDF-3 implemented.

**Less than Significant Impact with Mitigation Measures WDF-2 and WDF-3:**

**WDF-2: Any vegetation removal or manipulation will take place in the early morning hours before relative humidity drops below 30 percent.**

**WDF-3: A Water tender will be present on site during earth work to reduce the risk of wildfire and dust.**

**XXI. MANDATORY FINDINGS OF SIGNIFICANCE**

|   | Potentially Significant Impact | Less Than Significant With Mitigation Measures | Less Than Significant Impact | No Impact                | Source Number |
|---|--------------------------------|--|------------------------------|--------------------------|---------------|
| a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | ALL           |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?  | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | ALL           |
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?   | <input type="checkbox"/>       | <input checked="" type="checkbox"/>            | <input type="checkbox"/>     | <input type="checkbox"/> | ALL           |

Discussion:

- a) According to the biological and cultural studies conducted, the High Valley Oaks cannabis cultivation project does not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory when mitigation measures are implemented.

All setbacks for watercourses will significantly exceed local, state, and federal regulations to prevent significant impacts on water quality. With the implementation of mitigation measures described in the biological assessment and the Best Management Practices and other mitigation measures described throughout this initial study, the potential impact on important biological resources will be reduced to less than significant.

**Less than significant with AES-1 through AES-4; AQ-1 through AQ-6; BIO-1 through BIO-3; CUL-1 through CUL-2; GEO-1 through GEO-6; HAZ-1 through HAZ-7; HYD-1 through HYD-4; NOI-1 through NOI-2; WDF-1 through WDF-3**

- b) Potentially significant impacts have been identified related to Aesthetics, Air Quality, Biological Resources, Cultural and Tribal Resources, Geology and Soils, Hazardous Material, Hydrology, Noise, and Wildfire. These impacts in combination with the impacts of other past, present, and reasonably foreseeable future projects could cumulatively contribute to significant effects on the environment. Of particular concern would be the cumulative effects on hydrology and water resources.

To address this issue, the Lake County Board of Supervisors adopted Ordinance 3106 on July 27, 2021, requiring the applicant to submit a Hydrological Study and Drought Management Plan. Upon review of the Hydrological Study and Drought Management Plan, along with the implementation of hydrological mitigation measures, the Project is expected to have a less than significant cumulative impact.

Implementation of and compliance with mitigation measures identified in each section as project conditions of approval would avoid or reduce potential impacts to less than significant levels and would not result in any cumulatively considerable environmental impacts.

**Less than significant with AES-1 through AES-4; AQ-1 through AQ-6; BIO-1 through BIO-3; CUL-1 through CUL-2; GEO-1 through GEO-6; HAZ-1 through HAZ-7; HYD-1 through HYD-4; NOI-1 through NOI-2; WDF-1 through WDF-3**

- c) The proposed project has the potential to result in adverse indirect or direct effects on human beings. In particular, Aesthetics, Air Quality, Geology/Soils, Cultural and Tribal Resources, Transportation, Wildfire, and Noise have the potential to impact human beings. Implementation of and compliance with mitigation measures identified in each section as conditions of approval would not result in substantial adverse indirect or direct effects on human beings and impacts would be considered less than significant.

**Less than significant with AES-1 through AES-4; AQ-1 through AQ-6; BIO-1 through BIO-3; CUL-1 through CUL-2; GEO-1 through GEO-6; HAZ-1 through HAZ-7; HYD-1 through HYD-4; NOI-1 through NOI-2; WDF-1 through WDF-3**

## Impact Categories defined by CEQA

### Source List

1. Lake County General Plan
2. Lake County GIS Database
3. Lake County Zoning Ordinance
4. Shoreline Communities Area Plan
5. High Valley Oaks Cannabis Cultivation Application – Major Use Permit.
6. U.S.G.S. Topographic Maps
7. U.S.D.A. Lake County Soil Survey
8. Lake County Important Farmland Map, California Department of Conservation Farmland Mapping and Monitoring Program
9. Department of Transportation’s Scenic Highway Mapping Program, (<https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways>)
10. Lake County Serpentine Soil Mapping
11. California Natural Diversity Database (<https://wildlife.ca.gov/Data/CNDDDB>)
12. U.S. Fish and Wildlife Service National Wetlands Inventory
13. Biological Resources Assessment for the Cannabis Cultivation Operation at 9850 High Valley Road, Clearlake Oaks, CA, prepared by Natural Investigations Company, December 17, 2019.
14. Cultural Resources Assessment for the Cannabis Cultivation Operation at 9850 High Valley Road, Clearlake Oaks, CA, prepared by Natural Investigations Company, December 2019.
15. California Historical Resource Information Systems (CHRIS); Northwest Information Center, Sonoma State University; Rohnert Park, CA.
16. Water Resources Division, Lake County Department of Public Works Wetlands Mapping.
17. U.S.G.S. Geologic Map and Structure Sections of the Clear Lake Volcanic, Northern California, Miscellaneous Investigation Series, 1995
18. Official Alquist-Priolo Earthquake Fault Zone maps for Lake County
19. Landslide Hazards in the Eastern Clear Lake Area, Lake County, California, Landslide Hazard Identification Map No. 16, California Department of Conservation, Division of Mines and Geology, DMG Open –File Report 89-27, 1990
20. Lake County Emergency Management Plan
21. Lake County Hazardous Waste Management Plan, adopted 1989
22. Lake County Airport Land Use Compatibility Plan, adopted 1992
23. California Department of Forestry and Fire Protection - Fire Hazard Mapping
24. National Pollution Discharge Elimination System (NPDES)
25. FEMA Flood Hazard Maps
26. Lake County Aggregate Resource Management Plan
27. Lake County Bicycle Plan
28. Lake County Transit for Bus Routes
29. Lake County Environmental Health Division
30. Lake County Grading Ordinance
31. Lake County Natural Hazard database
32. Lake County Countywide Integrated Waste Management Plan and Siting Element, 1996
33. Lake County Water Resources
34. Lake County Waste Management Department
35. California Department of Transportation (Caltrans)
36. Lake County Air Quality Management District website

37. Northshore Fire Protection District
38. Site Visit – May 18, 2020
39. United States Department of Agriculture – Natural Resources Conservation Service Web Soil Survey
40. Hazardous Waste and Substances Sites List,
41. State Water Resources Control Board (SWRCB) Cannabis Policy and General Order ([https://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2019/wgo2019\\_0001\\_dwq.pdf](https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2019/wgo2019_0001_dwq.pdf))
42. [Lake County Groundwater Management Plan, March 31<sup>st</sup>, 2006.](http://www.lakecountycalifornia.gov/Assets/Departments/WaterResources/IRWMP/Lake+County+Groundwater+Managment+Plan.pdf)  
<http://www.lakecountycalifornia.gov/Assets/Departments/WaterResources/IRWMP/Lake+County+Groundwater+Managment+Plan.pdf>
43. Lake County Rules and Regulations (LCF) for On-Site Sewage Disposal
44. Lake County Municipal Code: Sanitary Disposal of Sewage (Chapter 9: Health and Sanitation, Article III)