

Macras Land CO., Inc.
App #: 11099
APN: 317-033-008

Cultivation and Operations Plan Addendum



Project Description

This application is for a commercial cannabis cultivation permit: **19,595 square feet**

~~Existing Mixed Light Cultivation (Supplemental lighting): 6,560 ft²~~

Existing Outdoor Cultivation (no artificial lighting): ~~13,035 ft²~~

Parking Plan

~~Per the Cultivation and Operations plan, it is expected that an average of two employees will be onsite during normal operations, with a total of six employees during processing operations. As a result, there are a total of six parking spaces on the property and are indicated on the Revised Site Plan.~~

OWTS

An OWTS Feasibility Report has been completed for this property. Currently, portable toilets are utilized on site and are serviced by B&B Toilets. The long term permanent solution for the property is to implement a septic design as outlined by the Feasibility Report.

Noise Analysis

The generator used on site is a Honda EB5000X. This generator is located in a semi-enclosed structure and is typically running at 50% load. Manufacturer's specifications for this generator is 63 dB(A) at 50% rated load and 65 dB(A) at 100% rated load at a distance of 23 feet (Honda, 2017). Using the Inverse Square Law Calculator, the sound pressure level at 100 ft at 50% load is 50.2 dB(A). With the dampening effect of the semi-enclosed structure, it is expected that the sound pressure level will be below 50 dB(A) at 100 ft. * NEW * Installing 6KW off-grid system until summer of 2024, currently working on the project with 6 River Solar located in Eureka, CA*

International Dark Sky Association Standards

In order to comply with the International Dark Sky Association Standards regarding nighttime light pollution, all cultivation areas utilizing mixed light will be covered at night with blackout-style woven poly tarps.

Greenhouse Floorplans and Foot Paths

All greenhouses and cultivation areas consist of raised beds or cultivation pots that exist on permeable graded flats or native soil. Figure 1 below shows the construction and setup of the cultivation areas and the permeable floors that exist throughout each greenhouse/cultivation area. No prime agricultural soil exists on the property.

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Figure 1: Cultivation greenhouses on property, showing permeable foot paths throughout.

Water Bladder Replacement Plan

The Applicant will be removing the water storage bladders that were previously utilized for cannabis irrigation. No additional water storage solutions are provided at this time, as irrigation water will continue to be provided by two permitted groundwater wells. The primary well is located . A permitted stream diversion will be utilized for domestic water only. Water will be stored in 25,000 gallons worth of HDPE water storage tanks. This arrangement will allow for the Applicant to sufficiently store and use water during the forbearance period associated with the permitted stream diversion. *NEW The bladders are removed and additional of 50,000 gallons water storage tanks will be added by 2026.

Processing

The applicant proposes processing in an existing 1,500 sq. ft. two story metal building as indicated on the Site Plan. All processing methods utilized will comply with all industry, county, and state rules and guidelines. All work surfaces and equipment maintained in a clean and sanitary condition. The applicant may also process at licensed off site facilities should it become necessary.

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Processing Staffing + Staff Screening Processes:

There are no proposed employees.

All candidates for staff will undergo criminal background checks as part of the standard screening process. To the maximum effect allowed by California and federal employment law, candidates with a violent criminal history or a history of drug abuse will be screened from employment.

Days and Hours of Operation:

The facility is not open to the public and will not accept visitors without a specific business purpose.

Hours of operation will typically be from 9 AM to 5 PM; Commercial activities such as shipping and receiving will be limited to 9AM to 2PM.

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Safe Drinking Water, Toilets, and Sanitary Facilities:

Domestic water shall be sourced from an onsite well.

Processing facilities shall be equipped with an ADA portable toilet until a permanent ADA restroom and septic system can be permitted and installed.

Increased Road Use:

No employees are proposed. No significant noise or traffic impacts are anticipated on access roads or impacts to neighboring properties are anticipated for processing activities.

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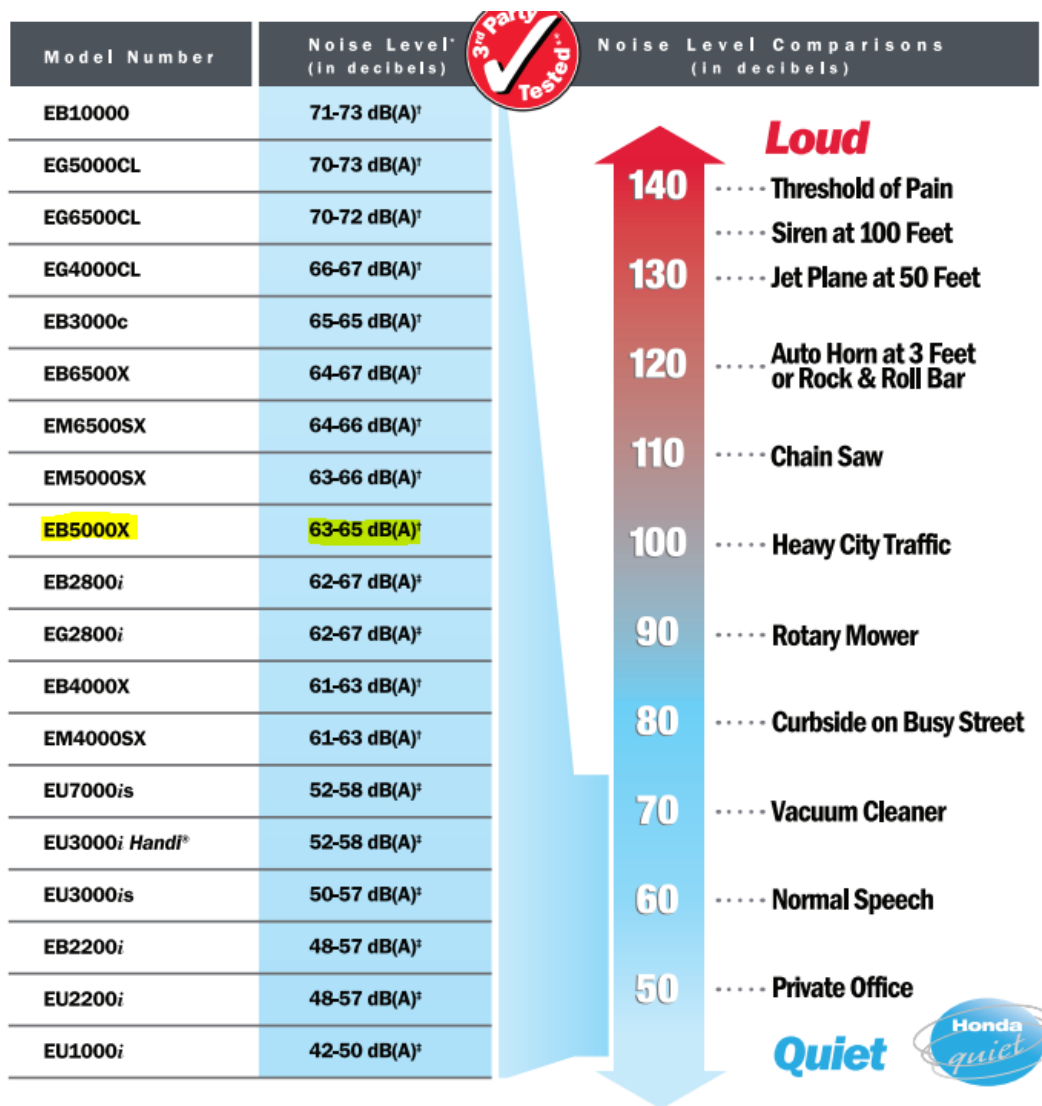
Noise Analysis Calculations

The generator used on site is a Honda EB5000X. Manufacturer's specifications for this generator is 63 dB(A) at 50% rated load and 65 dB(A) at 100% rated load at a distance of 23 feet (Honda, 2017). The generator used on site is typically used at 50% load. Using the Inverse Square Law Calculator, it is expected that the sound pressure level at 100 ft at 50% load is 50.2 dB(A).

NEW currently working with 6 River Solar, located in Eureka, CA. Project is for installing 12k inverter and 12 solar panel system. wh beginning of 2024 grow season*

Honda Noise Level chart: <http://cdn.powerequipment.honda.com/pe/pdf/misc/Honda-Generators-dBA-Chart-2018.pdf>

Inverse Square Law: https://www.engineeringtoolbox.com/inverse-square-law-d_890.html



*Tested in accordance with ISO 9614-2, sound pressure level calculated at 23 Feet (7 meters) using the front plane of the generator (control panel side) per ASHRAE Handbook 2017.

[†]3rd Party Testing by Leading Independent Laboratory. [‡]50% Rated Load-100% Rated Load. [§]25% Rated Load-100% Rated Load.

Distance (feet) (m)	Sound Pressure Level Difference (dB)
1.25	
2.5	
5	
10	
20	
40	104
80	98
160	92
320	86
640	78
1280	74
2560	68
5120	62

www.engineeringtoolbox.com says

dL - Sound Pressure Level Difference (dB): -12.8

Lp2 - Sound Pressure Level at Distance (dB): 50.2

OK

Inverse Square Law Calculator

Use the calculator below to calculate the sound pressure level at distance.

L_{p1} - sound pressure level at location 1 (dB)

R_1 - distance from source to location 1 (m, ft)

L_{p2} - distance from source to location 2 (m, ft)

Calculate!