

## **Emerald Family Cultivation Water Use Methodology**

Emerald Family will use best practices for water conservation. This will include a combination of the following practices:

**Capturing and storing water:**(Emerald Family will rely on the on-site rain catchment pond intended to capture and store rainfall for use throughout the year.

**Growing organically:** Organic methods have been shown to help retain soil moisture, and even to recharge groundwater supplies.

**Growing in pots, beds and trays:** Using indoor trays with top feed drip irrigation reduces cannabis plant water requirements by nearly half.

**Drip irrigation :** By delivering water directly to plant roots, EF reduces evaporation and water loss to no measureable amount.

**Irrigation scheduling:** EF cultivation agents will monitor soil and plant moisture, and adapt the irrigation schedule to exactly what the plant requires and no over-watering. (At no time will water be applied faster than agronomic rates, which are defined as the rate that a plant needs to enhance its productivity and provide the forage growth with nutrients for optimum health and growth, without having excess water beyond the root zone.

*At no time will there be any black water or nutrient discharge in any indoor, mixed light greenhouse or out door cultivation areas.*