

30P, LLC
#10822

APN# 210-012-019-000

August 25, 2020 Diversion Infrastructure Plan

Bridgeville Organic Pharms, LLC

Humboldt County APN 210-012-019



California Department of Fish and Wildlife Notification No. 1600-2018-0843-R1

Prepared by: Jack Skeahan, Staff Geologist, Pacific Watershed Associates

The following constitutes the Diversion Infrastructure Plan (DIP) for Humboldt County APN 210-012-019, hereafter known as the Project Site, as required in Condition 3.5 of California Department of Fish and Wildlife (CDFW) Notification No. 1600-2018-0843-R1. The Project Site is currently enrolled in the State Water Resource Control Board (SWRCB) State General Order (SGO) program under Waste Discharger Identification Number (WDID) 1_12CC412908 and supporting documentation is attached. As the water diversion infrastructure for the Project Site has not been installed no water rights for this specific location have been applied for at this time. Appropriate water rights applications, such as a Small Domestic Use (SDU) Appropriation or an Initial Statement of Diversion and Use (ISDU) will be applied for and approved where applicable prior to diversion and storage of surface water. Once received, copies of any water rights documentation will be submitted to CDFW in addition to submittal of copies of required annual water rights reporting once diversion of surface water has commenced as per Condition 3.4. Please refer to the previously submitted Site Map included with the initial Lake or Streambed Alteration Agreement (LSAA) for locations and labeling of applicable features on the Project Site. Refer to the attached PWA Typical Drawings (also included in the previously submitted notification) for spring box design and stream dewatering procedures.

Water for domestic purposes is proposed for diversion once diversion infrastructure has been approved by CDFW and installed on the Project Site. Water is proposed for diversion from an unnamed Class II stream channel in the southwest portion of the parcel and proposed to be referenced as Point of Diversion #1 (POD #1). As the diversion is proposed at this time only the general locations or stream segments for POD #1 have been identified. The proposed stream segment for the location of POD #1 exists upstream of Stream Crossing #2 (SC #2) and downstream of the southern parcel boundary. If a suitable location that meets all agency requirements for the protection of fish and wildlife, habitat and water quality, or installation of diversion infrastructure is not feasible (i.e. bedrock streambed), is not identified within the parcel boundary appropriate deeded access or other required legal documentation, including applicable water rights for appropriated surface water diversion, will be acquired prior to installation and use. Due to the location of existing areas of domestic use on the Project Site an alternate location outside (upslope) of the parcel boundary may be preferred if this allows gravity diversion rather than use of a solar or gas-powered water pump.

Diversion infrastructure proposed for installation will meet requirements in Section 2.24 to 2.32 of Notification No. 1600-2018-0843-R1 and consist of a fully enclosed spring box constructed of material non-deleterious to fish and wildlife (i.e. wood). In the event that stream flow is present at the time of water diversion installation dewatering infrastructure procedures will be implemented (see attached PWA

Typical Drawings). The spring box will be installed outside of the thalweg of the stream and not be wider than 10% of the active channel width. The spring box will be installed no deeper than one foot (12 inches) below the streambed and will not be installed in an existing pool. The diversion inlet will be located within the spring box and will be equipped with a securely attached stainless-steel mesh screen (to mitigate rusting) with openings no larger than 3/32 of an inch to prevent aquatic organism entrapment.

Surface water collected in the spring box is proposed for diversion via plastic tubing and conveyed to a rigid plastic water transfer tank to allow for any sediment in suspension to settle prior to being stored in additional rigid plastic water tanks as needed. As the exact location of the POD is not determined at this time it is not known whether the surface water diversion will be fully or partially gravity fed or require the use of a solar or gas-powered water pump. If a gas-powered water pump is utilized it will be located outside of established riparian setbacks to the greatest extent feasible. This pump will also be equipped with a secondary containment basin capable of containing more than the entire stored volume of petroleum hydrocarbons (fuel tank and engine oil volume) as well as a roof or cover for protection from the elements and to prevent accumulation of precipitation in the secondary containment basin.

An inline water meter will be installed to accurately measure water diversion volumes and required annual reporting will be submitted to CDFW as per Section 3.4 in the final agreement once surface water diversion has commenced. The proposed maximum instantaneous diversion rate for water intake will not exceed 5 gallons per minute (gpm) and an 80% bypass flow will be maintained. A water shut off float valve will be installed in one of the rigid plastic water tanks to ensure diversion of surface water is discontinued when the water tanks reach capacity and to prevent overflow. Diversion infrastructure including, but not limited to, the spring box, screened inlet, plumbing connections/fittings, valves, tubing and water tanks will be inspected on a regular basis and repaired or replaced as needed to ensure leaks are not occurring, water quality is protected and water conservation practices are being observed.

Currently water for cannabis-specific irrigation and domestic use is sourced from a permitted 240-foot-deep bedrock groundwater well. Additional water storage will be procured by the applicant as needed for domestic diversion purposes.

Project Specifics

CDFW Notification No. – 1600-2018-0843-R1

Assessor's Parcel Number – Humboldt County APN 210-012-019

Address – N/A. Located off State Highway 36 near Bridgeville, California

Mailing Address – 5601 Natomas Blvd, #23201, Sacramento, CA 95835

Proposed Water Use – Surface water diversion for domestic use and potential non-cannabis irrigation. Cannabis specific irrigation is sourced from a permitted bedrock groundwater well.

Proposed Surface Water Source – Class II stream tributary to the Van Duzen River, a tributary to the Eel River.

Proposed Water Rights – Riparian

SDU or ISDU Statement Number – N/A

Proposed Surface Water Diversion Locations – Exact location unknown at this time. Proposed locations for POD #1 are upstream of SC #2 which is located at: 40.505088°, -123.701750°

Proposed Surface Water Diversion Infrastructure – See description above

Proposed Surface Water Diversion Purpose of Use – Domestic use and possible non-cannabis irrigation.

Proposed Surface Water Diversion Rates – The maximum instantaneous diversion rate for water intake will not exceed 5 gallons per minute (gpm) and an 80% bypass flow will be maintained.

Groundwater Well Purpose of Use – Cannabis irrigation and some domestic use currently.

Total Water Storage Volume – 100,100 gallons (rigid water tanks), additional water storage may be added if required.

Water Storage Types – Rigid storage tanks

Water Conservation Methods – As the proposed uses for diverted surface water are not finalized at this time only general water conservation measures are provided in this plan. Water is proposed for domestic household and permitted septic system purposes and possible non-commercial vegetable garden irrigation. Surface mulching of vegetable garden beds, in-ground planting and irrigation conducted in the early morning or late evening to avoid unnecessary evaporation and water loss are examples of water conservation measures that may be employed. Use of the groundwater well for cannabis-specific irrigation will significantly reduce the amount of surface water proposed to be diverted on the property. Additional conservation methods will be researched and employed where feasible to increase conservation of water.

Enclosures

- SWRCB SGO Notice of Applicability
- PWA Typical Drawings