

Spring Valley Organics Property Management Plan



Project Location

2593 New Long Valley Road
Clearlake Oaks, CA 95423

Project Parcels

Lake County APN 620-071-04

Project Manager:

Valerie Peng

August 5, 2019

TABLE OF CONTENTS

Incomplete Items Response	2
Project Description	3-6
Supplemental Data for Initial Study	6-12
Air Quality	13-15
Grounds	16
Security	17-19
Stormwater Management	20-22
Water Use	23-25

Official Authorization

Spring Valley Organics authorizes the County of Lake to seek verification of the information contained within the Use Permit Application package for the proposed cannabis cultivation operation at 2593 New Long Valley, Clearlake Oaks, CA. All information contained in this Use Permit Application package is currently available for viewing and will remain viewable in a physical and digital format given to the County of Lake and kept at the project site.

Response to Incomplete Letter dated July 19,2019

(Text Highlighted in blue are additions from previous Management plan submitted)

1. Please See Planting Timeline Schedule at the end of project description (pg. 6)
2. Taxes will be paid prior to the beginning of cultivation once the use permit is approved, and or when early activation is issued.
3. Building Inspection can be setup at the discretion of the Community Development Department and Building Departments coordination. Please Email vpeng@radiantrev.com with a date and time that works for your department and we will accommodate the best we can. Thank you in advance
4. See Site Plan (Sheet 1) for public roadway utility easement in relation to project boundaries based on Parcel Map (Book 9 of Parcel Maps, page 19, Parcel No.4)
5. Please see Site Plan (Sheet 5) for topographic map showing the site vicinity, contours no greater than 40 feet, and slope map of parcel.
6. Please see Site Plan (Sheet 2) for added wattle locations per comments received.
7. Please see Site Plan (Sheet 4) titled Grading and Erosion Control Plan.
 - a. See Site Plan (Sheet 4)
 - b. See pages 14-15, erosion control measures section
 - c. See same as above
8. Property Management
 - a. See Air Quality Section (pg. 13-15)
 - b. See Security Plan, Video Surveillance section (pg. 19)
 - c. See Stormwater Management Plan (Pg. 20-21)
 - d. Attached with this document is a Copy of County of Lake well permit for the project property 2593 New Long Valley Rd. Clearlake Oaks.
 - i. The well is permitted on the project property and the property owner Joyce Kristen has signed the Use Permit Application authorizing Valerie Peng.
 - ii. See Water Use Section for remainder of incomplete (pg. 24)
 - e. See Stormwater Management Plan, Cannabis Vegetative Material Waste/Growing Medium Management Section (pg. 22)

Project Description

Spring Valley Organics is seeking a major use permit to obtain an A-Type 3 license and a Type 13 Self-Transport Distribution license from the County of Lake Community Development Department to allow a total of 29,439 ft² of commercial cannabis canopy area with up to 34,240 ft² of outdoor cultivation area at 2593 New Long Valley Road, Clearlake Oaks, CA on Lake County APN 620-071-04. In addition to the proposed 29,439 ft² of outdoor canopy area, the full cultivation area proposes a 40' x 60' (2,400 sq. ft.) processing building, which will contain cannabis processing activities such as drying, trimming, curing, and packaging, as well as an employee break room and restrooms. An existing septic system will be utilized to service the building upon the Department of Environmental Health's approval. There will be three 10' x 20' (200 sq. ft.) storage sheds on the parcel. One will be located adjacent to the canopy area to be used for storing nutrients, fertilizers and pesticides, while the other two will be located adjacent to the processing building housing equipment and gardening tools used mostly used to maintain the property to the general standards set out in the grounds section of the county ordinance. Additionally, there will be two 2,500-gallon water tanks, a 1,500 plastic gallon nutrient tank which will hold various nutrients depending on the time of the growing season, and a 24' x 60' immature plant area greenhouse (1,440 sq. ft.), which will contain germinating and cloning activities. No plants will be sold, and once activities require a plant to flower it will be moved to the canopy area. The project site was burned in the 2018 Mendocino Complex Fire burning the residential unit, however a 600 sq. ft. garage remains untouched and will not be used in the proposed project. The garage is a lone residential accessory structure, which is generally not allowed by the county ordinance, however, it would be able to remain for a residence to be rebuilt, provided a building permit is submitted within two years. While there are not intentions to rebuild a house now, there may be in the future. If a residence is not rebuilt, the garage will be demolished and removed at the deadline to remain in compliance with the county.

The applicant Valerie Peng is leasing the property from the current owner Joyce Kirstein. The total acreage of the parcel is 20.69 acres. The project parcel is zoned RL-FF-WW-SC-B5; Rural Land- Floodway Fringe - Waterway - Scenic and is located in the Long Valley Creek Watershed (HUC 10). New Long Valley Creek flows through the middle half of the project parcel dividing the property into a northern and southern half. The entire proposed cannabis cultivation project will take place on the northern half of the property over 100 ft away from New Long Valley Creek along New Long Valley Road. There is also a Class III intermittent waterway that flows from the northeast end of the property along the driveway into New Long Valley Creek. The past land use of the property was residential use, with a portion of the property along New Long Valley Road being used for agriculture.

The growing medium of the proposed cultivation area will be composed of an amended native soil mixture at or below grade, in full sun. The entire cultivation area will be enclosed with a 6-foot tall wire fence with privacy mesh where necessary to screen the cultivation area(s) from public view. Spring Valley Organics will be using both granular and liquid fertilizers for their

cultivation. The granular fertilizer being used is bat guano, which will be tilled into the garden rows. The liquid fertilizer will be a mixture of Max Sea Nutrient Line and Sea Grow Nutrient Line, which will be mixed in a water tank following the manufacturer's directions and distributed to the cultivation area by driplines. The pesticides used for this project will be Aza Max, Venerate, Plant Therapy, Regalia and Trifecta which will all be distributed to the plants by hand spray. These substances will be stored in the Fertilizer and Pesticide shed within their manufacturer's original containers and placed within secondary containment structures.

The proposed cultivation operation will utilize drip irrigation systems, to conserve water resources. The irrigation system will be supplied a well and pump located in the northern portion of the parcel. The water will be pumped underground via PVC piping to two proposed 2,500-gallon storage tanks. Water use is projected to be approximately 523,013 gallons. The property is extremely flat, greatly reducing stormwater concerns. A well vegetated buffer will be maintained between all project areas and the waterways on the property. Due to the parcel topography, water is highly unlikely to flow, however, if requested by the county, straw wattles will be placed along the canopy area boundary where necessary.

A Biological Assessment for a portion of Spring Valley Organics site was completed on May 24, 2019, prepared by G.O. Graening, PhD and Tim Nosal, MS from Natural Investigations Company Inc. The results of the Biological Assessment are described below.

- No special-status species were detected within the study area and that the study area has a low potential for harboring special-status plant species. The study area is not within any designated listed species critical habitat but does contain one terrestrial special species habitat: riparian corridor along Long Valley Creek. Due to several water resources within the study area there is potential for adverse impacts to water resources. However, the project proponent must file a Notice of Intent and enroll in Cannabis cultivation Order WQ 2017-0023-DWQ. Compliance with this order will ensure that cultivation operations will not significantly impact water resources. By using a combination of Best Management Practices with the Order the impact on water quality will be less than significant; Therefore, no mitigation is required. The Study area does contain suitable nesting habitat for bird species; however no nests or nesting activities were observed at the time of assessment. Although no nesting activity was observed it is recommended to have a qualified biologist determine if any nesting activities are within the study area prior to construction.

A Cultural Resource Evaluation for a portion of Spring Valley Organics parcel was completed on May 24, 2019 prepared by Dr. John Parker, RPA. Please see attached study for results and recommendations. Spring Valley Organics is aware that if any archaeological, paleontological, or cultural materials be discovered during site development, all activity shall be halted in the vicinity of the find(s), the local overseeing tribe shall be notified and a qualified archeologists retained to evaluate the find(s) and recommend mitigation procedures, if necessary, subject to the approval of the Community Development Director. The applicant shall halt all work and immediately contact the Lake County Sheriff's Department and the Community Development

Department if any human remains are encountered. All human remains will be treated in accordance with Public Resources Code Section 5097.98.

Spring Valley Organics site will not require a high amount of electricity as they will be cultivating fully outdoor using all-natural sunlight, therefore all electricity needed for the project at this time will be supplied from PG&E and mainly for the processing facility as well as the security system. The proposed project is proposing a backup generator to be used in emergency situations when electricity cannot be supplied by PG&E. The project does not propose the storage or use of any hazardous materials. All organic waste will be placed in the designated composting area within the cultivation area. All solid waste will be stored in bins with secure fitting lids until being disposed of at a Lake County Integrated Waste Management facility, at least once a week during the cultivation season. The closest Lake County Integrated Waste Management facility to the proposed cultivation operation is the Eastlake Landfill.

At this time Spring Valley Organics is currently only being operated and managed by Ms. Valerie Peng, who is also the applicant. All of Spring Valley Organics future employees will undergo a background check by the Lake County Sheriff's Department before starting employment and be a United States citizen or eligible for employment within the US. The projects core business hours of operation will take place between 8am-6pm with deliveries and pickups restricted to 9am-6pm Monday through Saturday. The Community Liaison/Emergency Contact, Ms. Valerie Peng, will be available to contact 24 hours a day, seven days a week, including holidays.

The Project Property is accessed from New Long Valley Road via a private dirt access road/driveway approximately 350 ft. in length. The driveway will have 6-inch gravel added to the entire length of it and have a turnaround at the parking lot. The access driveway will be installed with a security gate at the entrance only accessible by Spring Valley Organics Employees with a key and by Emergency Service Officials via a Knox box. The fencing for this project will include both a perimeter fence around the parcel as well as a fence around the entire cultivation area. The perimeter fence will begin at the front of the private driveway (roughly 40 ft off the front property boundary) and end on both sides of the parcel right before New Long Valley Creek intersects with the parcel boundary. The perimeter fence will be a 6-foot-tall chain link fence which will also include a Manzanita Hedge along the front of the parcel. The cultivation area fence will also be a 6 ft tall chain link fence but will also include a privacy mesh screen and mounted with security cameras.

As SVO is applying for a Type-13 Self-Transport Distribution license, there will be a dedicated loading zone in the parking lot adjacent to the processing facility. SVO will utilize unmarked transport vans to transport product off premises and will be in compliance with all California Cannabis Track and Trace requirements throughout the distribution process.

Spring Valley Organics will begin planting for early activation as soon as the Early Activation Conditions are approved. If Early Activation is approved this 2019 season, planting for the entire 1 acre will begin immediately and end November 1st. If Early Activation is approved on or after October 2019, early activation cultivation for the entire 1 acre would begin between March and April 2020. Once the Use Permit is approved cultivation on the entire 1 acre will begin every year between March/April and end In October/November. All growing methods at this time are proposed below ground.

Supplemental Data for Initial Study

***Please Note-** a CEQA Initial Study in the Lake County template will be provided with the project in a Microsoft Word Document through FileTransfer and can be emailed directly to the project planner.

Description of project and its operational characteristics

Type of Business: *Commercial Cannabis Cultivation*

Product or service provided: *Cannabis*

Hours of Operation: *8am to 6pm*

Number of shifts: *2 shifts, 3 shifts at peak*

Number of employees per shift: *2 employees, max of 4 at peak*

Number of deliveries per day: *Max 1*

Number of pick-ups per day: *Max 1*

Lot Size: *20 acres*

Number and type of company vehicles: *1, likely a pickup truck*

Type of loading facilities: *There will be a designated open loading zone in the parking lot*

Floor area of existing structures: *No existing structures will be used for this project*

Proposed building floor area: *5,055 sq. ft.*

Number of parking spaces: *3 spaces existing, 4 spaces proposed*

Number of floors: *1*

Additional Relevant Information: *Applying for early activation, will not build any structures until full approval. SVO would like to cultivate upon approval.*

Description of Site Prep/Construction Activities

- **When do you anticipate starting construction?**

March 2019, or earlier upon approval, weather permitting.

- **How long will construction take?**

Approximately 5-7 weeks.

- **What days/times will construction occur?**

9am to 6pm, Monday through Saturday.

- **What type of construction equipment will be used?**

Truck, hand tools, general construction equipment.

- **What many truck vehicle trips will be necessary for construction?**

Approximately 130 to 160.

- **Will equipment be idling during construction?**

All equipment will be shut off when not in use.

- **Where will construction equipment be staged/stored?**

On existing driveway/parking lot, in existing garage or work areas

- **Will any trees or vegetation be removed? If yes, please provide type and amounts.**

No vegetation is proposed to be removed.

- **How much grading is anticipated to occur and where?**

Amounts consistent with a building permit, approximately 500 cubic yards for building construction.

- **Will soil be imported or exported to/from the site? If so where and what amount?**

Soil will be imported from NorCal Soil Builders. It will only be used to supplement the soil on the property after each growing season.

- **Is trenching required? If yes, please provide location, dimensions and cubic yards.**

There will be minor trenching to place irrigation lines from well to water tank, approximately 150-175ft. Trench will be refilled back to prior condition.

- **How much water will be used for construction, operation and maintenance? What is the water source?**

5,000 gallons per day during construction and 1,000 gallons per day for operation and maintenance; well water.

Other questions and information needed for the Initial Study

- **Describe how scenic views or vistas are impacted by the cultivation site.**

Views are slightly impacted as cultivation is on front portion of property and can be seen from New Long Valley Road. Manzanitas will be planted along front yard setback to mitigate decreasing aesthetics from cultivation and screening.

- **What lighting is proposed for the project? Will areas be lit at night?**

Lighting is proposed along the front access gate, parking area, front of the processing facility, and surrounding the cultivation area. All lighting will be fully shielded, downward casting and will not spill over onto other properties or the night sky.

- **Are there existing agricultural uses on-site besides cannabis? Will they be removed?**

There are no existing agricultural uses.

- **Will the project result in the loss of forest land? If so, describe how many acres and what type of trees.**

No tree removal is proposed, cultivation area is in an open field and buildings will be where the residence previously existed.

- **How will dust, ash, smoke, fumes, or odors generated by the cultivation site be managed?**

Dust: watering or placing seed/mulch/gravel on bare soil.

Odor: carbon filters, ventilation system, planting native flowering vegetation surrounding the cultivation area.

- **Are there any water features (drainages, streams, creeks, lakes, rivers, vernal pools, wetlands, etc.) on-site or immediately adjacent to the project? If yes, will any work take place in them or near them?**

There is a Class II Intermittent Watercourse (New Long Valley Creek) that flows through the parcel approximately $\frac{1}{3}$ into the property from New Long Valley Road. There is also a Class III Intermittent Drainage Ditch that moves diagonally from the north east side of the property, through a culvert under the general area of the access driveway toward the southwest portion of the property draining into the flood zone area containing New Long Valley Creek. A minimum of 100-foot setbacks will be maintained from all waterways.

- **Will there be a loss of any wetland or streamside vegetation? If yes, describe where, total area, and type of vegetation lost.**

No vegetation will need to be removed, project is a minimum of 100 feet from waterways and protects riparian areas.

- **Describe any site or buildings that have archaeological or historical significance.**

There are known sites of archaeological significance. Please see attached cultural resource assessment to determine boundaries. All proposed areas of the project are outside of surveyed archaeological sites.

- **What are the slopes of the cultivation site?**

The site is extremely flat, 0-1%.

- **Describe the soils found at the site and their potential for landslides, erosion, lateral spreading, subsidence, liquefaction, or collapse.**

The soils on this property are 237 and 158. 158 is Lupoyoma silt loam, which permeability is moderately slow and erosion hazard is slight. 237 is Talmage very gravelly sandy loam which has moderately rapid permeability and very slow runoff resulting in only a slight erosion hazard.

- **Describe methods to be taken to reduce greenhouse gases.**

Using limited amount of equipment that produce any emissions. Offset any limited emissions by planting native vegetation surrounding cultivation area.

- **Will solid waste be produced? If yes, how will it be disposed of?**

Some solid waste will be produced, and will be disposed of at the Lake County Integrated Waste Management facility closest to the proposed project (Eastlake Landfill)

- **Will hazardous waste be produced? If yes, how will it be disposed of?**

No hazardous waste will be produced from this project.

- **How will vegetative waste be managed?**

Vegetative waste will be composted within the designated composting area found inside the boundaries of the cultivation area.

- **How will growth medium waste be managed?**

Will be mixed within the composting area to be recycled and further used in the following grow.

- **Will any material be taken to a landfill? If yes, which one and how much material is anticipated?**

Solid waste materials consistent with regular business waste will be taken to the Eastlake Landfill

- **Describe the existing drainage patterns on the site and how they may be alternated and to what degree as a result of this project.**

Existing drainage is from the north east end of the property south into Long Valley Creek. There will be no alterations specifically proposed and due to the low slope

of the land, the proposed project will not significantly change any existing drainage patterns.

- **What Best Management Practices (BMPs) or measures will be implemented in order to prevent erosion and impacts to water quality?**

Native vegetation being planted within the 100 ft setbacks from all watercourses that front the watercourses. Straw wattles can also be implemented if the county suggests, however due to a very little slope they do not seem needed at this time.

- **Is wastewater treatment required for the project? If yes, what is the source?**

Wastewater treatment will be required for the proposed Processing Facility, and the source is the existing septic.

- **Describe how this project is consistent with the County's General Plan and Zoning Ordinance.**

The general plan and zoning ordinance sections pertaining to cannabis cultivation were referenced in the making

- **Describe the level and frequency of noise or vibration that will be generated from this project.**

Short-term increases in ambient noise levels to uncomfortable levels could be expected during the construction of the processing facility as well as deliveries. The hours of construction and deliveries will be limited to standard business hours.

- **Describe what measures have been taken to maintain or improve the level of service for the appropriate fire district and CalFire.**

Maintaining the land surrounding the cultivation area can help reduce the fuel load for fires. The driveway is being improved up to County standards.

- **How is this site accessed?**

The site is accessed from a private dirt road off of the county maintained New Long Valley Road.

- **Describe the amount of traffic the project will generate?**

Daily employee trips are anticipated to be between 4 and 16 trips, about the equivalent of a new single-family dwelling (which averages 9.55 average daily trips according to International Transportation Engineer's manual, 9th edition).

- **Are there any road improvements that would be required? If yes, please provide specs (type of materials and dimensions)**

Spring Valley Organics will be improving the private dirt driveway, by applying a 6-inch layer of crushed rock/gravel.

- **Describe if this project will result in increased traffic hazards to motor vehicles, bicyclists, or pedestrians?**

This project will not result in traffic hazards as it is a private road off of a county-maintained road with daily traffic patterns that will be similar to that of an average household.

- **Are greenhouses or other accessory structures proposed? If yes, what are the dimensions of the structures and materials/colors they will be constructed out of?**

A 40' x 60' processing building made of metal, three 10' x 20' (200 sq. ft.) prefab wooden storage sheds, and a 24' x 60' immature plant area greenhouse (1,440 sq. ft.) made of metal.

- **What sources of energy will be used?**

Spring Valley Organics will not require a lot of energy as it is a fully outdoor grow, therefore they will be using on grid energy from PG&E for the processing facility and security system.

Air Quality Management Plan

Purpose

The Air Quality Management Plan is intended to maintain the high-quality air in Lake County by managing the emissions of activities associated with commercial cannabis as well as manage the off-site drift of odors. Information in this section will be pertinent to meeting the standards of Finding 1 in Section 51.4 (a) of the Lake County Zoning Ordinance, which protects the health, safety, and welfare of the county and its residents. This Air Quality Management Plan will detail the mitigation techniques used to lessen or remove the negative externalities, in relation to odor and air quality, that stem from this commercial cannabis cultivation project. Additionally, sources of emissions and odors will be described, and the agent to contact for any air quality or odor problems will be provided at the conclusion of this section.

A. Project Contact and Community Liaison

The Community Liaison/Emergency Contact for SVO's cultivation operation is Ms. Valerie Peng. Ms. Peng's cell phone number is (707)-533-5039, and her email address is vpeng@radiantrev.com. There are a few residences within 1,000 feet of the contiguous property boundaries, all of which will receive this contact information directly prior to project implementation. The Community Liaison/Emergency Contact will be responsible for responding to or employing someone to respond to all odor complaints 24 hours a day, seven days a week, including holidays. It is highly encouraged that neighboring residents contact the above Community Liaison/Emergency Contact to resolve any operating problems before reaching out to any County Officials/Staff.

When an odor complaint is received, the Community Liaison/Emergency Contact will immediately take action to eliminate the odor as soon as possible. The first step will be to determine the source of the odor from which the complaint was received (cultivation area, processing facility, or other). Then the best mitigation method will be implemented dependent on the source. Some of the mitigation methods include windscreens, upgrading odor control filtration systems/ventilation system, or even installing additional odor control equipment.

B. Emission Sources

The following sources are anticipated to be the most significant emitters of odor, air pollutants, and particles from the proposed cultivation operation. However, no single source or combined sources are anticipated to be harmful or detrimental to neighboring residences or the community of Lake County.

Gasoline Powered Generator: Spring Valley Organics proposed cannabis cultivation operation will be connected to the electrical grid through PG&E once the proposed processing building

permit is submitted. Spring Valley Organics is proposing a gasoline powered generator to be used for backup. Spring Valley Organics will use a lightweight, low noise, compact, and fuel-efficient generator as their backup power source, to supply power when it is not available from the provider PG&E.

Gasoline and Diesel-Powered Equipment: The proposed cultivation operation will generate small amounts of carbon dioxide from the operation of small gasoline engines (tillers, weed eaters, lawnmowers, etc.), and from vehicular traffic associated with staff commuting. The generation of carbon dioxide is partially offset by the cultivation of plants, which remove carbon dioxide in the air for photosynthesis.

Fugitive Dust: The proposed cultivation operation may generate fugitive dust emissions through ground-disturbing activities, uncovered soil or compost piles, and vehicle or truck trips on unpaved roads. Fugitive dust will be controlled by wetting soils with a mobile water tank and hose, or by delaying ground disturbing activities until site conditions are not windy, and by eliminating soil stockpiles. Fugitive dust may also be generated temporarily during the construction period.

Odors: Cannabis cultivation can generate objectionable odors, particularly when the plants are mature/flowering. Spring Valley Organics plans to plant native flowering vegetation surrounding the outdoor cultivation area to help offset any smells from the outdoor grow. Additionally, the ventilation system of the Processing Facility, in which the processing of raw cannabis plant material from the proposed cultivation area occurs, are equipped with carbon filters/air scrubbers to mitigate odors emanating from the building.

Erosion Control Measures during grading and construction:

- Fugitive dust will be controlled by wetting soils with a mobile water tank and hose, or by delaying ground disturbing activities until site conditions are not windy, and by eliminating soil stockpiles. Also, the existing dirt access road will be layered with 6" gravel/crushed rock prior to any construction to mitigate any air quality impacts from dust/debris.
- Hazardous spills:
 - All purchased products including; chemicals, fertilizers/nutrients, pesticides, petroleum products and sanitation products will all be kept in their manufactures original containers/packaging. All fertilizers/nutrients and pesticides, when not in use, are stored in their manufacturer's original containers/packaging and undercover inside the secure Fertilizer and Pesticide Shed (B on the accompanying site plan). Petroleum products are stored under cover and in State of California-approved containers with secondary containment and will be stored within the Processing Facility. Sanitation products are stored in their manufacturer's original containers/packaging within a secure cabinet inside the Processing Facility. Spill containment and cleanup equipment will be maintained within the secure Fertilizer and Pesticide Shed as well as the Processing Facility. All employees will be trained to properly use all equipment according to the manufacturer's

procedures. All pouring activities of any products will take place on gravel and within a secondary containment to reduce chances of spill.

- Wildfire prevention will be achieved by maintaining the project grounds. The entire vegetative area surrounding the cultivation area will be well trimmed in order to reduce fire fuel load. All gasoline and diesel-powered equipment will only be used by trained personnel and will be turned off and stored indoors when not in use. Any equipment that has the potential to cause a fire will be used when only 2 or more individuals are actively present to prevent any accidents.
- Noise during grading and construction will be inevitable however, all grading and construction will only take place during regular business hours: Monday through Saturday: 9:00 a.m. - 7:00 p.m. and Sunday: 12:00 p.m. - 5:00 p.m. Also, no idling will occur, and all equipment will be turned off when not in use.

C. Mitigation Measures, Monitoring, and Maintenance

To help reduce odor impacts from this project, fragrant plants will be planted on property to try masking off-site odor drift. The processing facility, which will be holding flowered cannabis plants will have fans and carbon filters/air scrubbers installed to prevent odors from leaving the premises during all processing phases.

All air filtration and odor mitigation equipment will be inspected every other month by a Spring Valley Organic supervisor to ensure each one is running as efficiently as possible. All carbon filters/air scrubbers will be replaced each quarter. Spring Valley Organics supervisory staff will log and maintain accurate records of the replacement/ repairs to any odor mitigation system and retain records for at least three years. Annually Spring Valley Organics managerial staff will review all documentation pertaining to the performance of the equipment to determine if there are any ways to further improve odor mitigations. All data and information will be made available to Lake County and/or Lake County Air Quality Management District officials upon request.

At this time there is no proposed demolition or renovations of any building, however if proposed a Certified Asbestos Consultant will be contacted for inspections.

Grounds

Purpose

The Grounds section is intended to ensure that the project property is well maintained in order to prevent the buildup of pests and bacteria, eliminating the chance that potential problems could arise and create health problems or contaminate the environment. Information in this section will be pertinent to meeting the standards of Finding 1 in Section 51.4 (a) of the Lake County Zoning Ordinance, which protects the health, safety, and welfare of the county and its residents. The Grounds section will outline the proper storage and maintenance procedures implemented in conjunction with this project, keeping the premises clean and preventing any potential contamination that could stem from the equipment or substances used.

A. Storage Procedures

All chemicals and substances that are potentially hazardous or could create problems with contamination will be stored a minimum of 100 feet from all designated surface water areas, including New Long Valley Creek and the Class III drainage ditch leading into the creek. Additionally, all chemicals and hazardous substances will be stored properly. All fertilizers/nutrients and pesticides, when not in use, are stored in their manufacturer's original containers/packaging and undercover inside the secure Fertilizer and Pesticide Shed (B on the accompanying site plan). Petroleum products are stored under cover and in State of California-approved containers with secondary containment and will be stored within the Processing Facility. Sanitation products are stored in their manufacturer's original containers/packaging within a secure cabinet inside the Processing Facility. Spill containment and cleanup equipment will be maintained within the secure Fertilizer and Pesticide Shed as well as the Processing Facility. No effluent is expected to be produced by the proposed cultivation operation. All equipment will be stored within the two Equipment and Gardening Tool Sheds (H and I on the accompanying site plan).

B. Site Maintenance

Trash and recycling receptacles will be provided for anyone on-site to properly dispose of waste. The designated grounds manager will visually sweep the parcel and collect any waste that was not properly disposed of at the end of each day. During this daily property check, the culvert will be inspected to ensure proper functionality, all areas of vegetation will be inspected to ensure they are not overgrown, and all access roads and parking areas will be inspected to ensure they are in good order. The necessary equipment to maintain the property to the county ordinance standards will be on hand, stored in the Equipment and Gardening Tool Sheds. Isopropyl alcohol will be kept on-site in the processing facility to ensure proper sanitation after equipment use and to maintain cleanliness within the on-site facilities. Bathrooms will be provided in the processing facility to ensure bodily waste is disposed of properly.

Security Management Plan

Purpose

The purpose of this Security Management Plan (SMP) is to minimize criminal activity, provide for safe and secure working environments, protect private property and prevent damage to the environment. This SMP includes a description of the security measures that will be implemented at the proposed cultivation operation to provide adequate security on the premises as approved by the Lake County Sheriff. The three main goals of the security plan are to prevent access to the cultivation site by unauthorized personnel, protect the physical safety of employees, and prevent theft/loss of cannabis products. This SMP is also created to be compliant with emergency regulations for CDFA's CalCannabis Licensing program and the California Department of Public Health for cannabis businesses.

A. Secured Entry and Access

The Project Property is accessed from New Long Valley Road via a dirt private access driveway approximately 350 ft. in length. The driveway will have 6-inch gravel added to the entire length of it and have a turnaround at the parking lot. A locking gate will be installed on the private access driveway where it enters onto the Project Parcel, to control access to the proposed cultivation operation. The gate will be locked outside of core operating/business hours (8am to 6pm) and whenever SVO personnel are not present. The gate will be secured with a heavy-duty chain, commercial grade padlock and a Knox Box to allow 24/7 access for emergency services. Only approved Spring Valley Organics managerial staff and emergency service providers are able to unlock the gates on the Project Property.

6-foot woven galvanized wire fences will be erected around the proposed cultivation area with a Privacy Screen mesh on the fences to screen the cultivation area from public view. Posts will be set into the ground at not more than 10-foot intervals, and terminal posts set into concrete footings. There will also be a perimeter fence along the parcels boundaries to help add additional security since the proposed project is in the front half of the property. The perimeter fence will begin at the front of the private driveway (roughly 40 ft off the front property boundary) and end on both sides of the parcel right before New Long Valley Creek intersects with the parcel boundary. The perimeter fence will be a 6-foot-tall chain link fence which will also include a Manzanita Hedge along the front of the parcel to improve aesthetics.

A 100-foot defensible space of vegetation will be established around the proposed cultivation operation for fire protection and to provide for clear visibility for security monitoring. A Motion-sensing alarm will be installed at the main gate entrance to alert staff when someone/something has entered onto the premises. Motion-sensing security lights will be installed on all external corners of the proposed cultivation area(s), and at the main entrance to the Project Parcel. All lighting will be fully shielded, downward casting and will not spill over onto other properties or the night sky.

Staff are instructed to notify the Spring Valley Organics supervisor on duty immediately if/when suspicious activity is detected. The SVO supervisor will investigate the suspicious activity for potential threats, issues, or concerns and will contact the Lake County Sheriff's Office immediately if/when a threat is detected. If the active supervisor on duty is not a manager, the SVO managerial staff will be contacted immediately following the contact of the Lake County Sheriff's Office.

If a visitor arrives at the proposed cultivation operation via the main entrance during core operating hours, they will be greeted by a member of Spring Valley Organics staff. The staff member will verify the visitor's identification and escort the visitor to the appropriate area for their visit. No visitors will ever be left unattended.

B. Theft Prevention

All Spring Valley Organics staff are required to undergo a criminal background check. Visitors and staff are required to sign-in and sign-out each day and note the areas/tasks in which they worked that day. Staff are required to store personal items in the onsite break room located in the Processing Facility. Spring Valley Organics will adhere to the inventory tracking and recording requirements of the California Cannabis Track-and-Trace (CCTT) system. All staff members will be trained in the procedures of the CCTT system, and any cannabis movement will be reported through the CCTT system. At least two members of Spring Valley Organics' managerial staff will be designated to supervise all tasks with high potential for diversion/theft and will document which staff member took part in each of the roles. In the event of any diversion/theft, law enforcement and the appropriate licensing authority will be notified within 24 hours of discovery.

C. Community Liaison and Emergency Contact

The Community Liaison/Emergency Contact for Auto Canna's cultivation operation is Ms. Valerie Peng. Ms. Peng's cell phone number is (707)-533-5039, and her email address is vpeng@radiantrev.com. The Community Liaison/Emergency Contact will be made available to everyone through multiple sources including; this Use Permit, Lake County Officials/Staff and the Lake County Sheriff's Office. Spring Valley Organics will encourage neighboring residents to contact the Community Liaison/Emergency Contact to resolve any problems before contacting County Officials. When a complaint is received, the Community Liaison/Emergency Contact will document the complainant, their contact information and the reason for the complaint. The Community Liaison will then take action to resolve the issue as quickly and efficiently as possible and follow up with the complainant to update them on the actions being taken to resolve the issue brought up. A summary of complaints/issues will be provided in Spring Valley Organics Annual Performance Review Report.

D. Video Surveillance

Spring Valley Organics uses a closed-circuit television (CCTV) system with a minimum camera resolution of 1080p at a minimum of 30 frames per second to record activity in designated areas. All cameras **will include motion sensors** and are color capable with all exterior cameras being **rated I-66** waterproof and all interior cameras being moisture proof. Cameras monitoring the cultivation area will be equipped with thermal technology. The CCTV system feeds into a monitoring and recording station in the Processing Facility, in a secured office, where video from the CCTV system is digitally recorded. Spring Valley Organics will obtain a video management software that will integrate the cameras of the CCTV system to door alarms and will be equipped with a failure notification system that immediately notifies staff of any interruptions or failures. All cameras of the CCTV system operate continuously 24 hours a day, 7 days a week, **recording current date and time on the feed**. All recordings are kept a minimum of 90 days, and 7 years for any corresponding reported incidents caught on tape. **The security room will always remain locked and only be accessible by SVO managerial staff.**

Proposed camera placements can be found on the accompanying Security Site Plan. Areas that will be covered by the CCTV system include:

- Entrance and exit ways to the property, the 1-acre outdoor Cultivation site, and the Processing Facility
- Perimeter of the cultivation/canopy areas
- The monitoring, recording station **and security room** (within the Processing Facility),
- Interior of the Processing Facility.

Stormwater Management Plan

Purpose

The Stormwater Management Plan is intended to ensure that commercial cannabis projects do not have any negative impacts on the environment through stormwater runoff and any water the project may discharge. Particularly this section mandates necessary stormwater mitigation measures to help reduce the transportation of sediment, prevent erosion problems, and maintain the quality of nearby surface water. This Stormwater Management Plan will detail the mitigation measures proposed to be implemented as well as the monitoring and reporting procedures that will ensure the stormwater mitigation measures are well maintained throughout the life of the project. This section works in accordance with the Erosion and Sediment Control site plan (Sheet 2).

A. Stormwater Management, Erosion and Sediment Control Measures

Spring Valley Organics plans to add 5,055 sq. ft. of impervious footprint to the project site, consisting of a 2,400 sq. ft. processing facility, a 1,440 sq. ft. greenhouse, three 200 sq. ft. sheds, a 161 sq. ft. nutrient tank, and two 227 sq. ft. water tanks. This total is less than .01% of the area of the project parcel. The canopy area itself will not increase the impervious surface area of the Project Parcel as it is proposed as outdoor, and therefore should not increase the volume of runoff from the Project Site. As mandated by the development standards in Article 27, Section (at), all development, cultivation, pesticides, and fertilizers will be located a minimum of 100 feet from all surface water, including the two identified watercourses on the property. As depicted on the Erosion and Sediment Control site plan (Sheet 2), the slope is entirely flat in the front half of the parcel, which includes all the project area. Displayed is a minimum of 100 feet of well vegetated buffer area between project areas and watercourses, which will naturally filter any runoff, removing sediment, nutrients, and pesticides that become mobilized and allow it to infiltrate into the soil/groundwater basin. [Straw wattles will be installed and maintained throughout the proposed cultivation operation along the west, south and east borders of both the outdoor cultivation and immature plant greenhouse.](#)

B. Erosion and Sediment Control Measures

Spring Valley Organics will maintain a Well-vegetated buffer around the proposed cultivation operation. Native vegetation around the proposed cultivation operation will be maintained as a permanent erosion and sediment control measures. A native grass seed mixture and certified weed-free straw mulch will be applied to all areas of the exposed soil. Straw wattles will be installed and maintained throughout the proposed cultivation operation [along the west, south and east borders of both the outdoor cultivation and immature plant greenhouse.](#) If areas of concentrated stormwater runoff begin to develop, additional erosion and sediment control

measures will be implemented to protect those areas and their outfalls. Spring Valley Organics Site Managers will conduct monthly monitoring inspections to confirm that this operation is in compliance with California Water Code.

- A visual monitoring inspection program will be implemented to check the following, at a minimum frequency of before each rain event.
 - All water conveyance areas and storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources.
 - All BMPs to identify whether they have been properly implemented and remain in adequate condition.
 - Any storm water storage or containment areas and ensure the maintenance of adequate freeboard.
- Apply straw mulch to the cultivation area after the conclusion of the growing season to prevent erosion.
- All BPTC Measures will be completed by November 15th.
- If areas of concentrated stormwater runoff begin to develop, additional erosion and sediment control measures will be implemented to protect those areas and their outfalls.

During Construction these BMP's will be implemented and maintained throughout the life of the project:

- Straw wattles will be installed and maintained throughout the entire life of the proposed cultivation operation along the west, south and east borders of both the outdoor cultivation and immature plant greenhouse.
- Piled topsoil that is exposed will be covered with a tarp while not in use to maintain sediment control and reduce dust impacts.
- Gravel will be placed along all access roads to reduce exposed dirt.

C. Regulatory Compliance (Stormwater)

Spring Valley Organics proposed cannabis cultivation operation is enrolled for coverage under the State Water Resources Control Board's Cannabis General Order (Order No. WQ 2019-0001-DWQ) as a Tier 2 Low Risk Discharger (WDID: 5S17CC401945). A Site Management Plan was developed for the proposed commercial cannabis cultivation operation and has been reviewed and approved by the Central Valley Water Board's Cannabis Cultivation Waste Discharge Regulatory Program.

Stormwater runoff from the proposed cultivation operation will not discharge into any Lake County maintained drainage system. The project site does not contain any bridges but does

contain a culvert. There is a manmade ditch that is culverted from the northeast side of the property to the west that drains into New Long Valley Creek. The BMP's along with the erosion and sediment control measures, the proposed project will not increase the volume of stormwater discharges from the Project Property onto adjacent properties or flood elevations downstream.

D. Monitoring and Reporting Program

The following are the Monitoring and Reporting Requirements for Spring Valley Organic's proposed cannabis cultivation operation from the Cannabis General Order:

- Winterization Measures Implementation
- Tier Status Confirmation
- Third Party Identification (if applicable)
- Nitrogen Application (Monthly and Total Annual)

An Annual Report shall be submitted to the State Water Quality Control Board by March 1st of each year. The Annual Report shall include the following:

1. Facility Status, Site Maintenance Status, and Storm Water Runoff Monitoring.
2. The name and contact information of the person responsible for operation, maintenance, and monitoring.

A letter transmitting the annual report shall accompany each report. The letter shall summarize the number and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. Spring Valley Organics will adhere to all monitoring requirements to maintain compliance with the Cannabis General Order, and upon request submit a copy of the Annual Monitoring Report to the County.

E. Cannabis Vegetative Material Waste / Growing Medium Management

Based on the methods of growing done by Spring Valley Organics, it is estimated that 700 lbs of vegetative waste will be generated per grow. However, in order to reduce waste and recycle nutrients, all vegetative waste will either be buried in the composting area found within the cultivation area or chipped and stored to be used when soil cover is needed. All solid waste will be stored in bins with secure fitting lids until being disposed of at a Lake County Integrated Waste Management facility, at least once a week during the cultivation season. The closest Lake County Integrated Waste Management facility to the proposed cultivation operation is the Eastlake Landfill.

Spring Valley Organics proposes to plant in the ground, where no other growing medium would be needed. Fertilizers as well as recycled vegetative waste that has been composted on site will be used to supplement the existing soil on site.

Water Use Management Plan

Purpose

This Water Use Management Plan is designed to conserve Lake County's water resources and to ensure that the proposed cultivation operation's water use practices are in compliance with applicable County, State, and Federal regulations at all times. This Water Use Management Plan focuses on designing a water efficient delivery system and irrigation practices, and the appropriate and accurate monitoring and reporting of water use practices. The Water Use Plan aims to provide details for all the sources of water on the property, how it will be used and its amount of use.

A. Water Sources and Irrigation

Water is provided to Spring Valley Organics (SVO) proposed cultivation operation from a groundwater well, located at Latitude 39° 4'5.17"N and Longitude 122°38'27.71"W. The well was drilled in 2016 and has an estimated yield of 8 gallons per minute. The well will pump water to two 2,500-gallon water tanks through underground irrigation lines, water will then go through above ground water lines and water plants using highly efficient drip irrigation. Water lines will be a combination of PVC piping, black poly tubing, and drip lines. The water storage tanks will be equipped with floats valves to prevent overflow and runoff of irrigation water when full. Additionally, safety valves will be equipped to supply lines in case the flow of water needs to be stopped in an emergency situation. A meter compliant with Title 23, Division 3, Chapter 2.7 of the California Code of Regulations will be attached to the water system and all data will be recorded and maintained for a 5-year duration minimum. All records will be made available to all interested state and county departments upon request.

Projected Water Use

Due to the federally illegal status of cannabis, the industry is far behind other crops in water use studies. While few exist, it is probable that the resulting water use numbers from these studies are only accurate to a certain degree, particularly as water use is extremely dependent upon the natural conditions of the location where cultivation is taking place. According to Bauer et al. (2015), a study of water use in Northern California determined cannabis plants used approximately 22.7 liters per day, which translates to roughly 5.99 gallons per day. It has also been documented through CalCannabis's Final Programmatic Environmental Impact Report that outdoor cannabis uses between 25-35 inches per year, based on Hammon et al. (2015). The PEIR also stated that it is comparable to other crops such as corn, tomatoes, alfalfa, and hops. However, projecting cannabis water use in line with that of tomatoes (20 inches per year) would likely be the absolute minimum as the few water use studies published have been more in line with 25-35 inches per year.

It is almost a certainty that water use will differ between projects, based on soil type, irrigation method, and growing method, among other factors, however, through well monitoring these estimates can be replaced with much more robust numbers in the future. For the purposes of this Water Use Management Plan, the following table below will display water use estimates based on range of probable outcomes starting at 20 inches (a probable best case scenario) up to 35 inches (a probable worst case scenario) of water per year and a canopy area of 29,439 square feet. The average (27.5 inches) being the projected water use total for this project until further data is captured:

Total Project Water Use Estimates (Per Year)		
Inches	Gallons	Acre Feet
20-25 (best case scenario)	367,027.8 --- 458,784.8	1.12 --- 1.4
25-30 (likely scenario)	458,784.8 --- 523,013.5	1.4 --- 1.61
30-35 (worst case scenario)	523,013.5 --- 642,298.7	1.61 --- 1.97
Annual Estimated Water Use Total for Project		
27.5 (average)	479,429	1.48

Monthly Water Use Estimates							
April	May	June	July	Aug	Sept	Oct	Nov
29,853	59,677	69,628	79,579	79,579	79,579	59,677	19,902
0.09	0.18	0.22	0.25	0.25	0.25	0.18	0.14

Methodology:

Approximately 27,154 gallons of water equals one inch of water per year for one acre (USGS). To achieve the total amount of gallons, the gallons per inch per acre was multiplied by the number of inches. A foot being 12 inches, therefore, one-acre foot of water would be approximately 325,848 gallons of water, with 25 inches yielding a value of 458,784.78 gallons as shown in the table above. As one-acre foot is approximately 325,848 gallons, the calculated number of gallons was then divided by this amount to estimate the acre feet of water used.

C. Water Conservation

In accordance with the State Water Quality Control Board Cannabis General Order, SVO will implement the following BMPs and mitigation techniques to help conserve water over the duration of the project.

- A visual monitoring inspection program will be implemented to check the following, at a minimum frequency of before each rain event.
 - All water conveyance areas and storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources.
- Spring Valley Organics will use driplines for water delivery to the plants in order to efficiently and effectively irrigate.
- The areas inside the cultivation area without ground cover will be applied with mulch to conserve soil moisture within the grow area.
- An inline water meter will be installed on the dripline supply line as well as the water storage tanks in order to accurately determine where and how much water is being used. Staff will record and log all data in order to be reviewed [annually by the County](#) to see the project's water use.

LAKEPORT OFFICE
922 BEVINS COURT
LAKEPORT, CA 95453
(707) 263-2222

SOUTH SHORE OFFICE
P. O. BOX 1070
LOWER LAKE, CA 95457
(707) 994-2257

LAKE COUNTY PUBLIC HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH

JOB LOCATION ADDRESS: 2593 New Long Valley Rd. Clearlake Oaks
ASSESSOR'S PARCEL #: 620-071-04 Parcel Size: 20 AC
Property Owner: Gorden Kirstein Phone No.: (510)222-0853
Mailing Address: 6077 Skyline Oakland CA 95611

WELL DRILLER: Dan Mc Muller Well Drilling
Mailing Address: 1487 Old Long Valley Rd. Clearlake Oaks CA 95423
Telephone #: 998-9252 CA C-57 License #: 533152

TYPE OF WORK: New Well Reconstruction Destruction Test Well
 Other: _____

PROPOSED USE: Domestic Public Monitoring Agriculture
 Industrial Test Well Other: _____

CONSTRUCTION: Cable Tool Mud Rotary Air Rotary Other _____
Casing Type & Standard F480 PVC Wall Thickness SDR26 Diameter 6"
Proposed Depth of Seal 20' + Bore Hole Diameter 10"
 Variance _____
Seal Material: Concrete Sand-cement grout Bentonite Clay
 Neat Cement Other _____

Is location of proposed well subject to flooding? No Yes
Describe known flooding conditions: _____

WELL DRILLER'S SIGNATURE: Dan Mc Muller Date: 2/27/95

***** PLEASE COMPLETE THE ATTACHMENTS *****

THIS PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUANCE
FIELD CONDITIONS MAY WARRANT CHANGES OF THIS PERMIT

***** PLEASE DO NOT WRITE BELOW THIS LINE *****

Date Received: 3/29/95 Fee Paid: \$ 160.00 Receipt No.: 520304
100 Year Flood Plain? No Yes Zone: C Elevation: _____
Minimum Casing Height: One (1) feet above ground surface
Date Issued: 3/29/95 Issued By: [Signature]
Seal Scheduled for: 3/30/95 at 2:30 a.m. (p.m.) Requested by: Dan McMuller
Seal Cancelled on: _____ at _____ a.m./p.m. Requested by: _____
Seal Scheduled for: _____ at _____ a.m./p.m. Requested by: _____
Site #1 Seal Depth: 0 -- 22 1/2 Ft. 22 1/2 Total feet below ground surface
Site #2 Seal Depth: _____ Ft. _____ Total feet below ground surface
Annular Seal Verified by: [Signature] R.E.H.S.
Destruction Verified by: _____
Well Log Received on: 4-21-95

FINAL APPROVAL BY: [Signature] Date: 4-21-95

WELL PERMIT NO.: WE 1196

4

LAKEPORT OFFICE
922 BEVINS COURT
LAKEPORT, CA 95453
(707) 263-2222

SOUTH SHORE OFFICE
P. O. BOX 1070
LOWER LAKE, CA 95457
(707) 994-2257

LAKE COUNTY PUBLIC HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH

JOB LOCATION ADDRESS: 2593 New Long Valley Rd. Clearlake Oaks
ASSESSOR'S PARCEL #: 620-071-04 Parcel Size: 20 AC
Property Owner: Gordon Kirstin Phone No.: (510) 222-0853
Mailing Address: 6077 Skyline Oakland CA 95611
WELL DRILLER: Dan Mc Mullin Well Drilling
Mailing Address: 1487 Old Long Valley Rd. Clearlake Oaks CA 95423
Telephone #: 998-9252 CA C-57 License #: 533152

TYPE OF WORK: New Well Reconstruction Destruction Test Well
 Other: _____

PROPOSED USE: Domestic Public Monitoring Agriculture
 Industrial Test Well Other: _____

CONSTRUCTION: Cable Tool Mud Rotary Air Rotary Other _____
Casing Type & Standard F480 PVC Wall Thickness SDR26 Diameter 6"
Proposed Depth of Seal 20' + Bore Hole Diameter 10"
 Variance _____
Seal Material: Concrete Sand-cement grout Bentonite Clay
 Neat Cement Other _____

Is location of proposed well subject to flooding? No Yes
Describe known flooding conditions: _____

WELL DRILLER'S SIGNATURE: Dan Mc Mullin Date: 2/27/95

***** PLEASE COMPLETE THE ATTACHMENTS *****

THIS PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUANCE
FIELD CONDITIONS MAY WARRANT CHANGES OF THIS PERMIT

***** PLEASE DO NOT WRITE BELOW THIS LINE *****

Date Received: 3/29/95 Fee Paid: \$ 160⁰⁰ Receipt No.: 520304
100 Year Flood Plain? No Yes Zone: C Elevation: _____
Minimum Casing Height: One (1) feet above ground surface
Date Issued: 3/29/95 Issued By: [Signature]

THIS IS YOUR PERMIT TO BEGIN CONSTRUCTION OF YOUR WELL

Twelve hours notification for inspection of the annular well seal placement is to be requested to allow inspections to be conducted during normal county working hours.

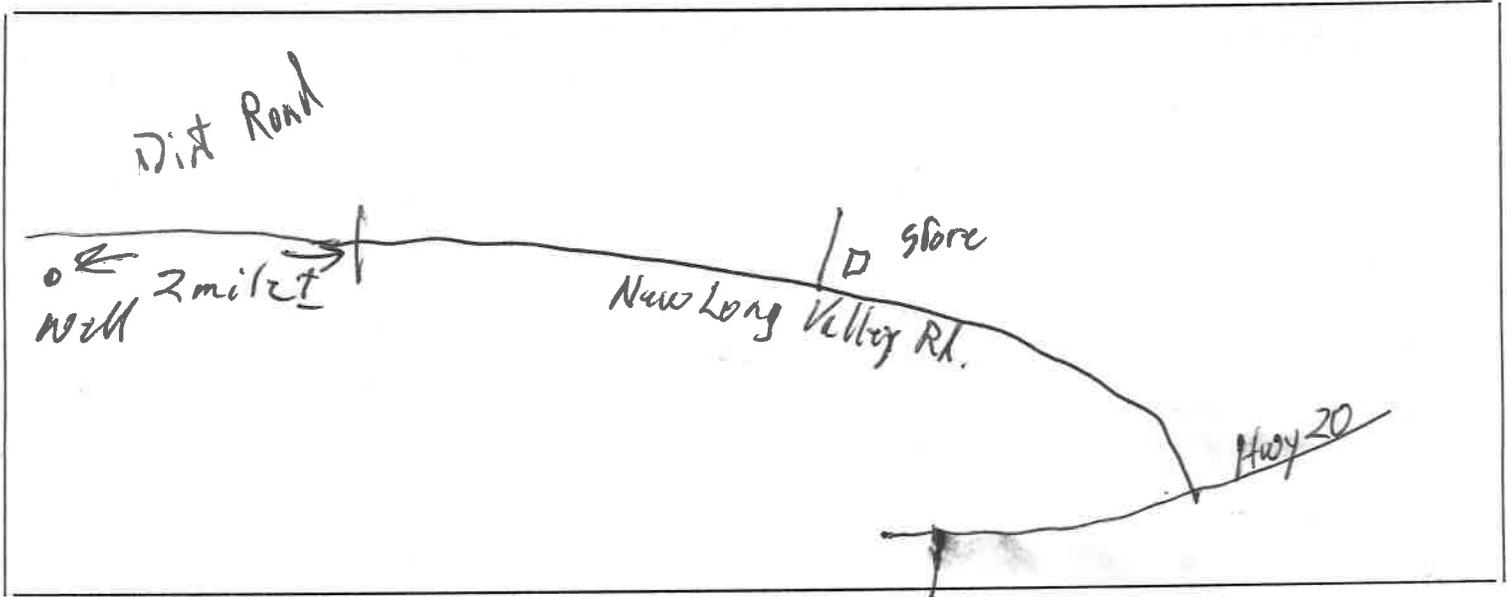
LOCATION MAP ATTACHMENT MUST BE ATTACHED TO THIS FORM

WELL PERMIT NO.: WE 1196

4

LOCATION MAP

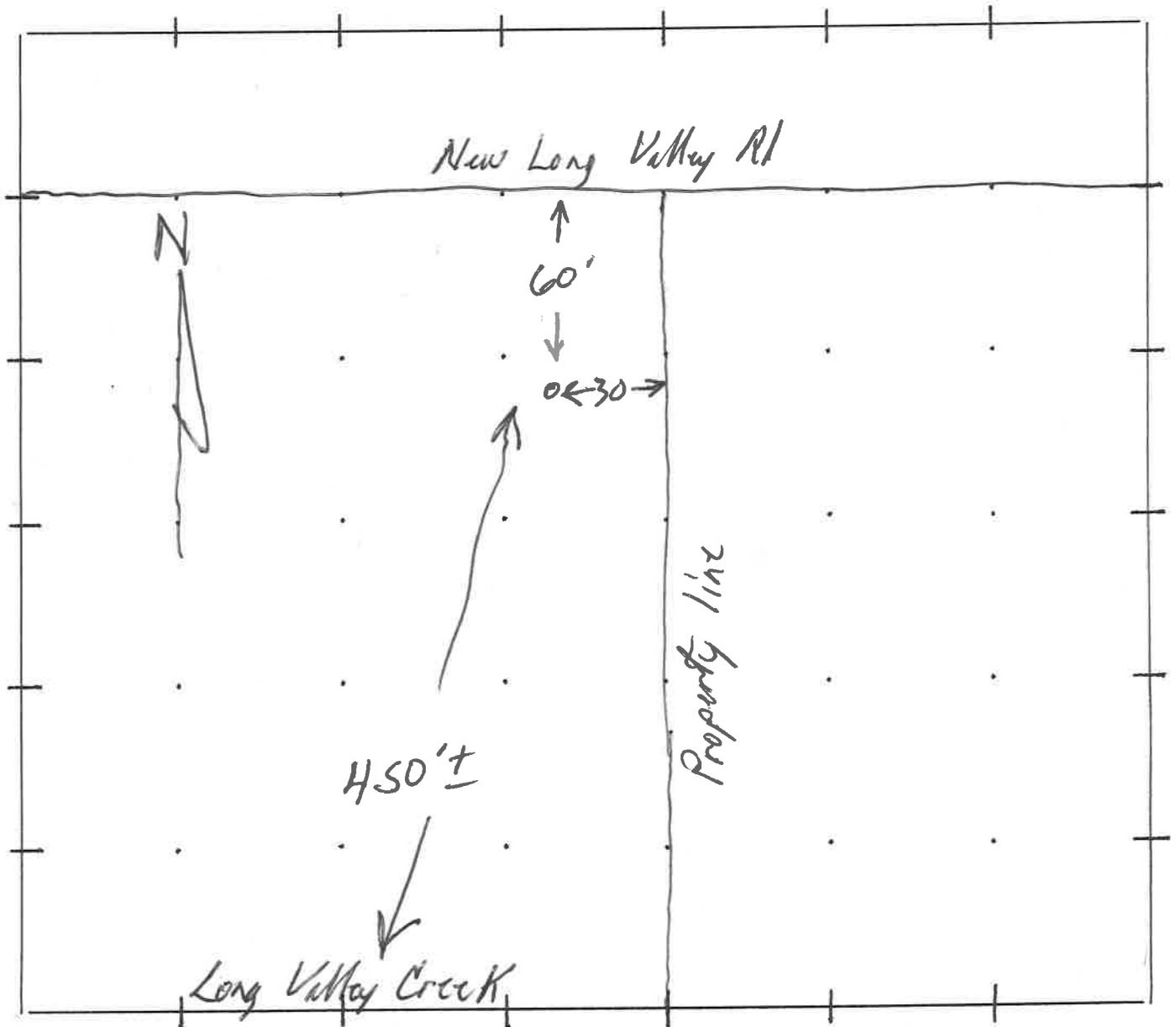
DIRECTIONS (Include mile post markers, landmarks, nearest cross street, etc.):



DRAW TO SCALE ANY OF THE FOLLOWING WITHIN 200 FEET OF THE WELL

- | | |
|---|--|
| 1. Well/wells existing and proposed | 5. Any facilities or piping designed to carry or hold sewage |
| 2. Property lines, if over 200 feet | 6. Any storage or mixing area which involves Hazardous Materials |
| 3. Easements or roads | 7. Any structures |
| 4. All existing and proposed sewage disposal systems within 100 feet, adjacent parcels included | |

_____ None of the items above are within 200 feet of the well



DRAWN TO THE SCALE OF 1" = 50'

**QUADRUPPLICATE
For Local Requirements**

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

APN 620-011-04

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page ___ of ___
 Owner's Well No. _____
 Date Work Began 3-29-95 Ended 3-30-95 No. **555473**
 Local Permit Agency Lake County Environmental Health
 Permit No. WE 1196 Permit Date 3-29-95

GEOLOGIC LOG

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

DEPTH TO FIRST WATER 4 (Ft.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION
Ft.	to Ft.	
0	4	Brown Gravelly Soil
4	6	Sand + Gravel
6	12	Brown Gravel Soil
12	24	Brown Gravelly Clay
24	40	Gray Gravelly Clay
40	75	Gray Shale
75	105	Gray Shale, Chert, Greenstone
105	130	Gray Shale

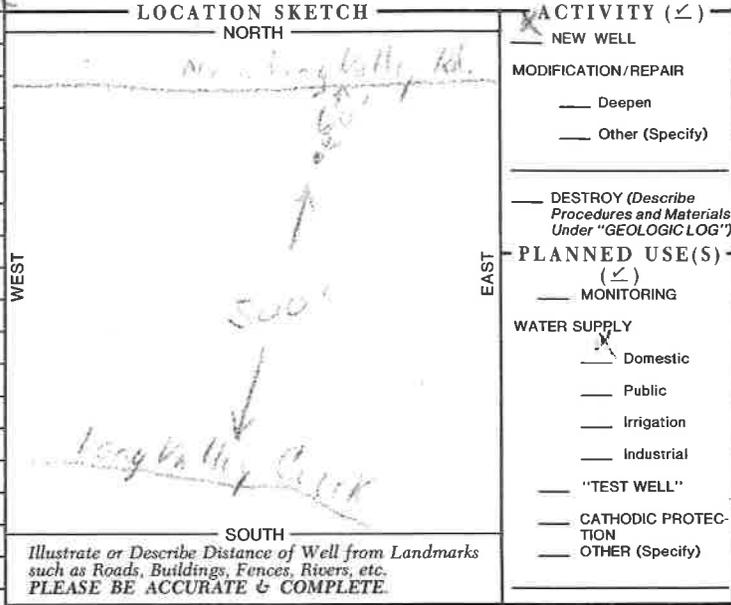
RECEIVED
APR 21 1995
Ans. G. M. M.

WELL OWNER

Name Gordon Kirgstein
 Mailing Address 6077 Skyline
Carbondale CA 91611
 CITY _____ STATE _____ ZIP _____

WELL LOCATION

Address 2500 Long Valley Rd.
 City Chico
 County Lake
 APN Book 620 Page 011 Parcel 04
 Township _____ Range _____ Section _____
 Latitude _____ NORTH Longitude _____ WEST



ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)

(∠)

___ MONITORING

WATER SUPPLY

Domestic

___ Public

___ Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify) _____

DRILLING METHOD A-A Log FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD 20 (GPM) & TEST TYPE A-A Log

TEST LENGTH 1 (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						ANNULAR MATERIAL					
		TYPE (∠)				MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE			
Ft.	to Ft.	BLANK	SCREEN	CON- DUCTOR	FILL PIPE					CE- MENT (∠)	BEN- TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)
0	70	4	2			PVC	4 1/2	3042L					
70	110	9				PVC	4 1/2	3042L	28 10				Pro G 122

ATTACHMENTS (∠)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Don and Martha Well Drilling
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 1187 Old Long Valley Rd Chico CA 95423
 CITY _____ STATE _____ ZIP _____

Signed Don M. Marlin DATE SIGNED 4/17/95 C-57 LICENSE NUMBER 530132
 WELL DRILLER/AUTHORIZED REPRESENTATIVE