ID#3 422063001

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

1102 A Laurel Lane
San Luis Obispo, CA 93401

ORDER NO. 90-98

WASTE DISCHARGE REQUIREMENTS FOR KENDALL-JACKSON WINERY, CAMBRIA WINERY WASTEWATER FACILITIES, SANTA BARBARA COUNTY

The California Regional Water Quality Control Board, Central Coast Region (hereafter Region), finds:

1. Randall Clifton, Director of Operations, filed a Report of Waste Discharge on April 27, 1990, in accordance with Section 13260 of the California Water Code. Supplemental information was received on January 19, April 6, May 1, and July 9, 1990. The report was filed on behalf of Kendall-Jackson Winery for authorization to discharge wine processing and domestic wastewaters within the Orcutt sub-area of the Santa Maria sub-basin. The information supports a request for the discharge of wine processing and domestic wastes.

2. Kendall-Jackson Winery (hereafter Discharger) plans to own and operate a wastewater treatment and disposal system located at its proposed Cambria Winery about twelve miles southeast of Santa Maria on Santa Maria Mesa Road. The facilities are in Section 8, T9N, R32W, SB B&M, as shown on Attachments "A", "B", and "C" of this Order.

3. Up to 60,000 gallons-per-day (227 m^3/day) of wine processing wastewaters will be generated at this facility during the grape harvesting and crushing season, which lasts from August through October. The treatment facilities will consist of mechanical screening, pH control, and a facultative pond. Pond treatment capacity will be 60,000 gallons-per-day.

4. Treated wine processing wastewaters will flow to an existing irrigation pond and used for vineyard irrigation. Water balance calculations show the 127 acres immediately adjacent to the irrigation pond has adequate disposal/irrigation capacity for the peak crush flow (60,000 gallons-per-day). The site, as shown on Attachment "B", has four additional ponds and a total of 1220 acres of vineyards for disposal/irrigation.

5. Up to 700 gallons-per-day (3 m^3/day) of domestic wastewaters will be generated by 20 employees. Domestic wastewater will be treated by two onsite septic tanks and discharged to a subsurface leachfield system, as shown on Attachment "C". The disposal system is designed in accordance with the Basin Plan.

6. Solid wastes from the wine-making process (pomace, stems, etc.) will be managed onsite by discing the material into the vineyard.

7. The treatment pond is located on level topography consisting of compacted soils with an estimated permeability of 10^{-6} cm/sec.

   The irrigation pond is located on level topography consisting of soil primarily comprised of very fine sandy loams. Depth to ground water in the vicinity of the pond is about 200 feet below grade, and the nearest well is almost one-half mile downgrade, at the edge of the Sisquoc River. A ground water sample taken from one of the water supply wells (#1 Mesa Well) as shown on Attachment "B", on July 14, 1988, had the following characteristics:

Total Dissolved Solids	670 mg/l
Sodium	48 mg/l
Chloride	81 mg/l
Nitrate (as NO_3)	9.4 mg/l
pH	8.3

8. Surface drainage from the site is tributary to the Sisquoc River. The river flows in a northwesterly direction.

9. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on March 14, 1975, and approved by the State Water Resources Control Board on March 20, 1975. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of the State waters.

10. Present and anticipated beneficial uses of ground water in the vicinity of the discharge include:

    a. Domestic and municipal supply;
    b. Agricultural supply; and,
    c. Industrial supply.

11. Present and anticipated beneficial uses of the Sisquoc River that could be affected by the discharge include:

    a. Domestic and municipal supply;
    b. Water contact recreation;
    c. Non contact water recreation;
    d. Industrial service supply;
    e. Fish migration;
    f. Warm freshwater habitat;
    g. Ground water recharge;
    h. Wildlife habitat; and,
    i. Cold freshwater habitat.

12. On November 8, 1989, the County of Santa Barbara Resource Management Department found the proposed project to be exempt from provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et. seq.) in accordance with Section 15061, Chapter 3, Title 14, of the California Code of Regulations.

13. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.

14. On August 20, 1990, the Board notified the Discharger and interested agencies and persons of it intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed order and an opportunity to submit written views and comments.

15. After considering all comments pertaining to this discharge during a public hearing on October 12, 1990, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Kendall-Jackson Winery, its agents, successors, and assigns, may discharge waste at its Cambria Winery Wastewater Facilities, providing compliance is maintained with the following:

(Note: Other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D.2. of this Order.)

A. PROHIBITIONS

1. Discharge of treated wine processing wastewaters to areas other than the disposal/irrigation areas shown in Attachment "B", and to other than reclamation areas approved in writing by the Executive Officer, is prohibited.

2. Discharge of domestic wastewaters to other than the subsurface septic tank/leachfield system shown on Attachment "C" is prohibited.

3. Discharge of any wastes, including overflow, bypass, seepage and overspray from transport, treatment or disposal systems to adjacent drainageways, or adjacent properties is prohibited.

4. Bypass of the treatment facility and discharge of untreated or partially treated wastes to leachfields and irrigation areas is prohibited.

5. Discharge to the treatment pond of any waste other than winemaking process wastewater is prohibited.

6. Discharge of pomace, seeds, stems, or accumulated solids from the ponds to other than the vineyards or an established solid waste disposal site is prohibited.

7. Discharge of salts or brines to the wine processing wastewater system or domestic wastewater system is prohibited.

B. DISCHARGE SPECIFICATIONS

1. Daily flow of wine processing wastewater averaged over each month shall not exceed 60,000 gallons (227 m^3).

2. Daily flow of domestic wastewater averaged over each month shall not exceed 700 gallons (3 m^3).

3. Waste discharged to leachfield or irrigated areas shall not have a pH less than 6.5 or greater than 8.4.

4. Extraneous surface drainage shall be excluded from the ponds and leachfields.

5. Freeboard shall exceed two feet in the irrigation ponds.

6. Treated wine processing wastewater shall be applied to the vineyard at a rate that precludes ponding and runoff.

7. Solids spread in vineyards shall be disced into the soil as needed to prevent nuisance or vector conditions.

8. Nutrients added to vineyards as a result of wastewater and solids applied to soils, shall not exceed values associated with good agricultural practices.

9. Bottoms of leachfield trenches shall be level to prevent localized overloading.

10. Manholes to the ground surface shall be installed over the septic tanks to allow access for inspection and pumping.

11. Dual leachfields (200 percent of calculated disposal area based on flow) are required. Both leachfields and diversion valves shall be constructed before discharge begins. Wastewater shall be periodically switched to alternate leachfields.

C. GROUND WATER LIMITATIONS

1. The Discharger shall not cause nitrate concentrations in the ground water downgradient of the disposal area to exceed 5 mg/l (as N).

2. The Discharger shall not cause a significant increase of mineral constituent concentrations in underlying ground water, as determined by comparison of samples collected from wells located upgradient and downgradient of the disposal area.

3. The discharge shall not cause concentrations of chemicals and radionuclides in ground water to exceed limits set forth in Title 22, Chapter 15, Articles 4 and 5 of the California Code of Regulations.

D. PROVISIONS

1. Discharger shall comply with "Monitoring and Reporting Program No. 90-98", as specified by the Executive Officer.

2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984; except items A.17. and C.16.

3. Discharger shall reserve an area equal to 100 percent of the calculated leachfield disposal area for purposes of domestic wastewater disposal if needed.

4. Domestic wastewater system repairs shall be made in accordance with this Board's Basin Plan.

5. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than April 1, 1995, addressing:

   a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,

   b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

I, WILLIAM R. LEONARD, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region, on October 12, 1990.

Executive Officer

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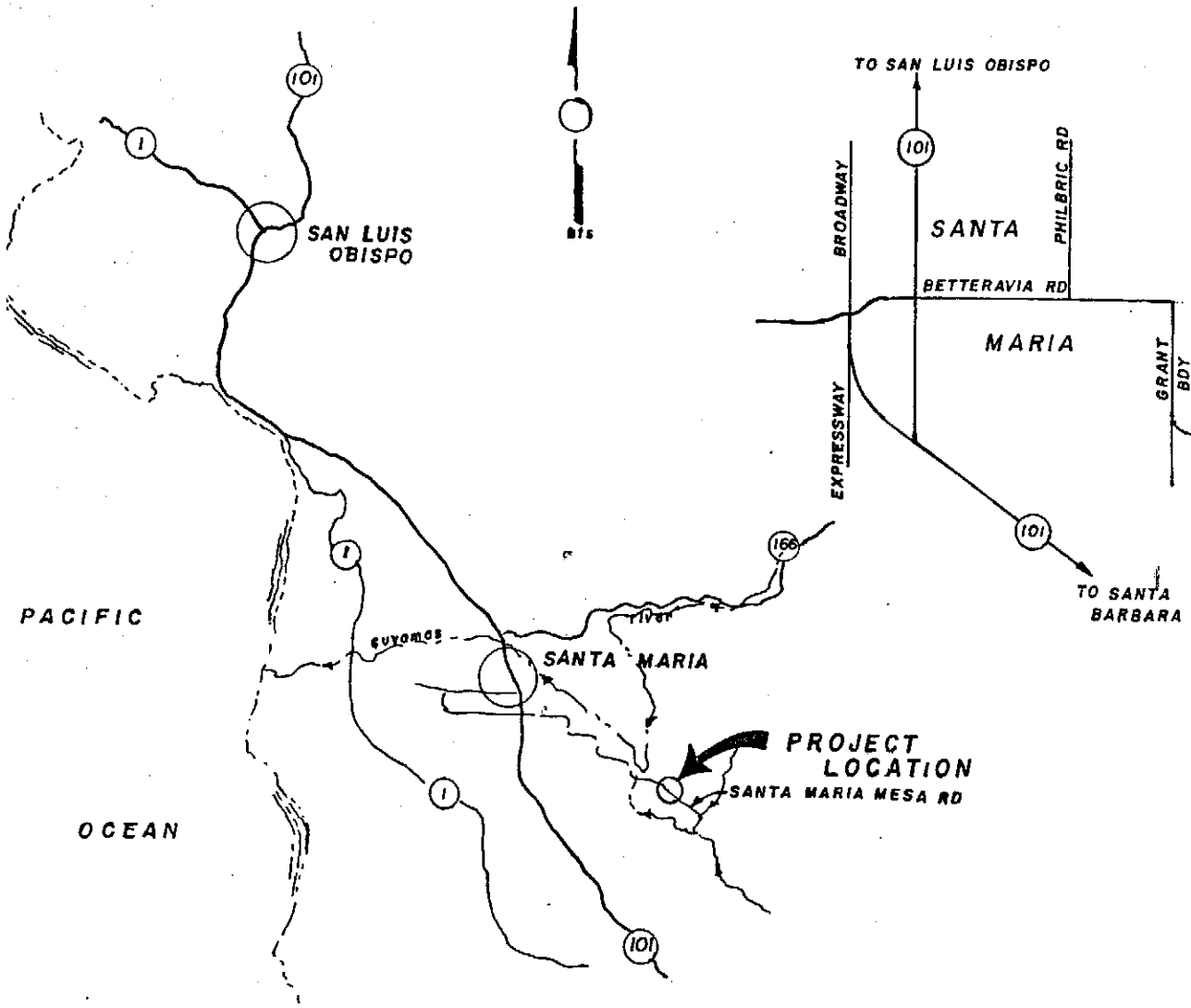
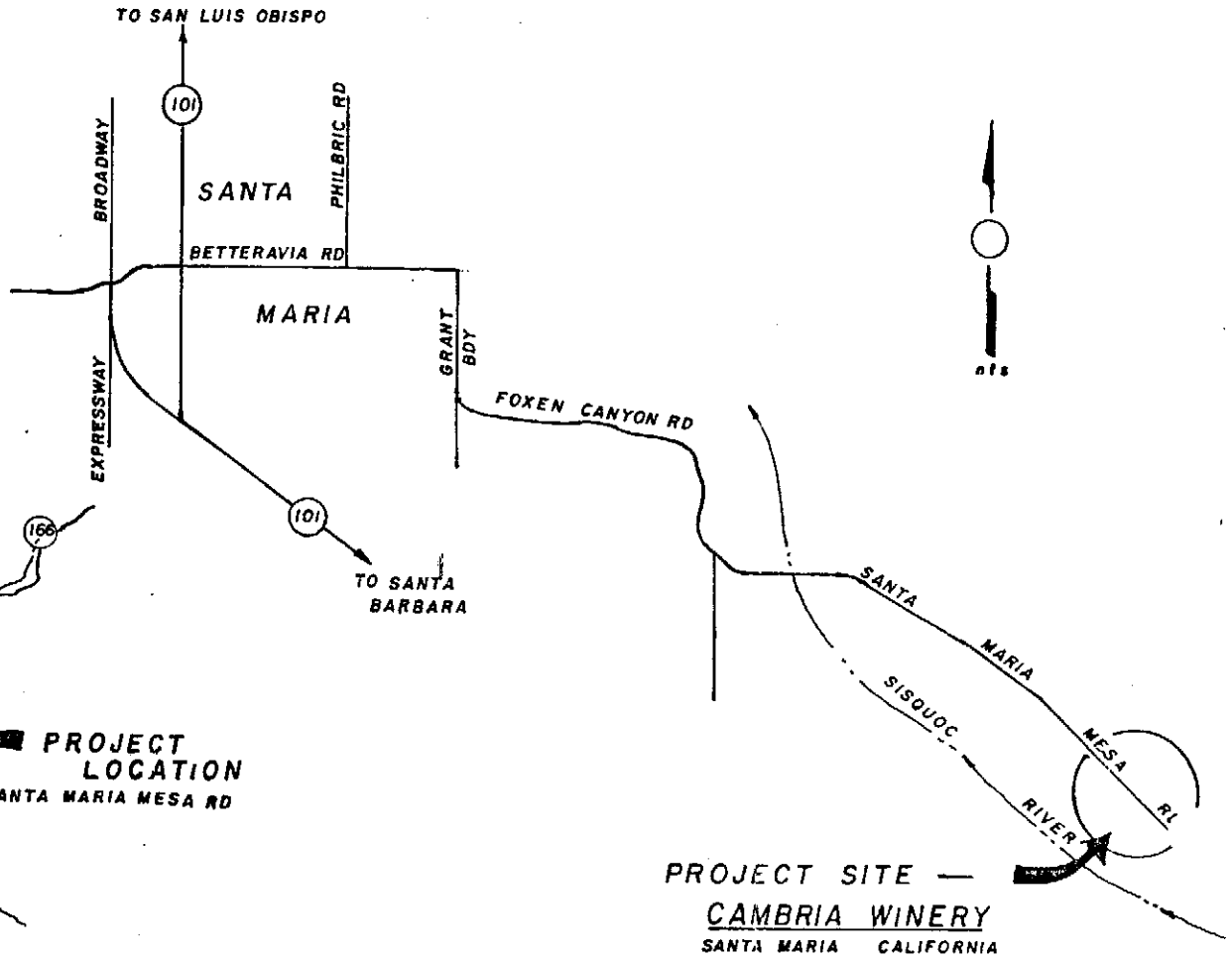
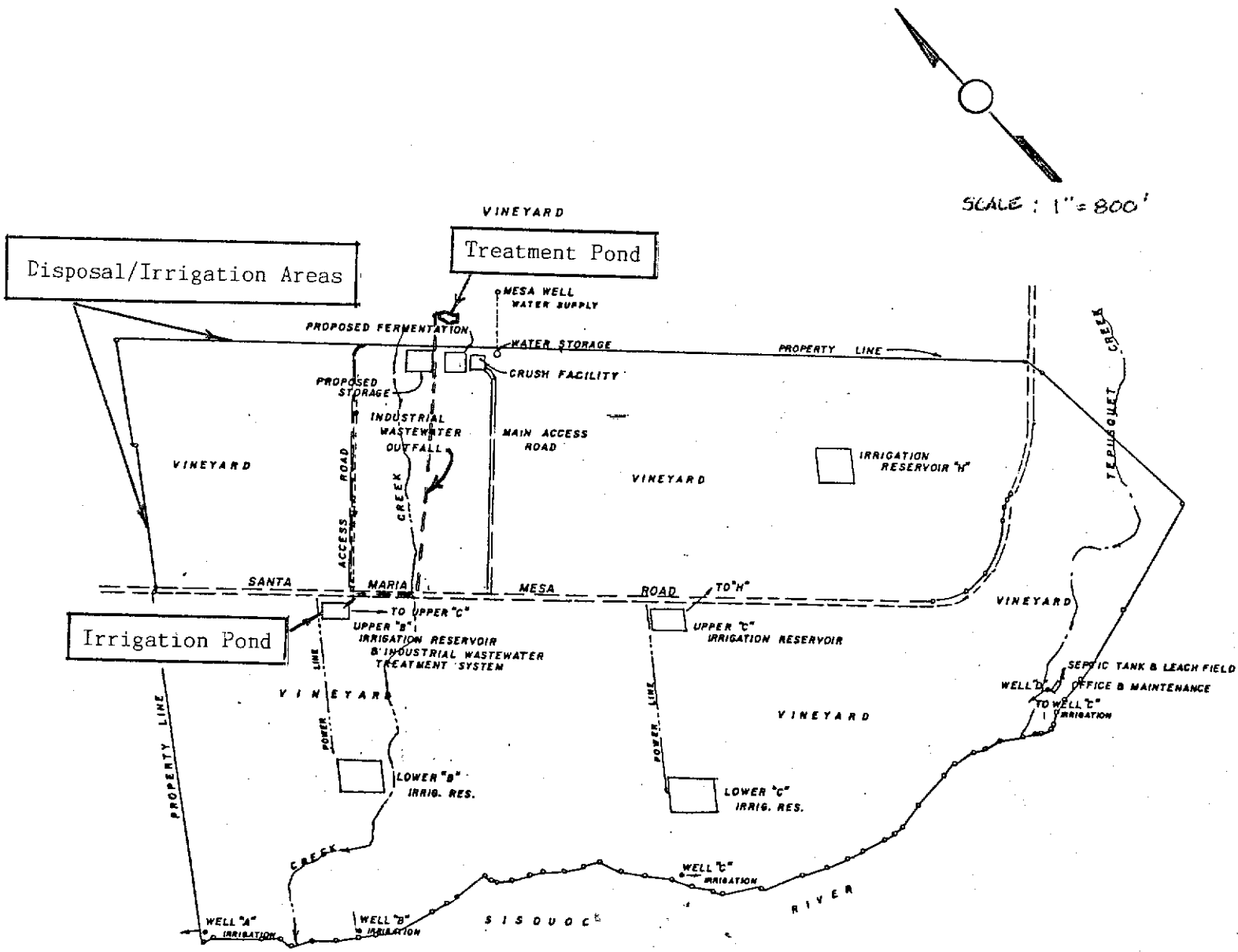


VICINITY PLAN



LOCATION PLAN

Kendall-Jackson Winery
Cambria Winery Wastewater Facilities
Attachment "A"



Kendall-Jackson Winery
Cambria Winery Wastewater Facilities
Attachment "B"

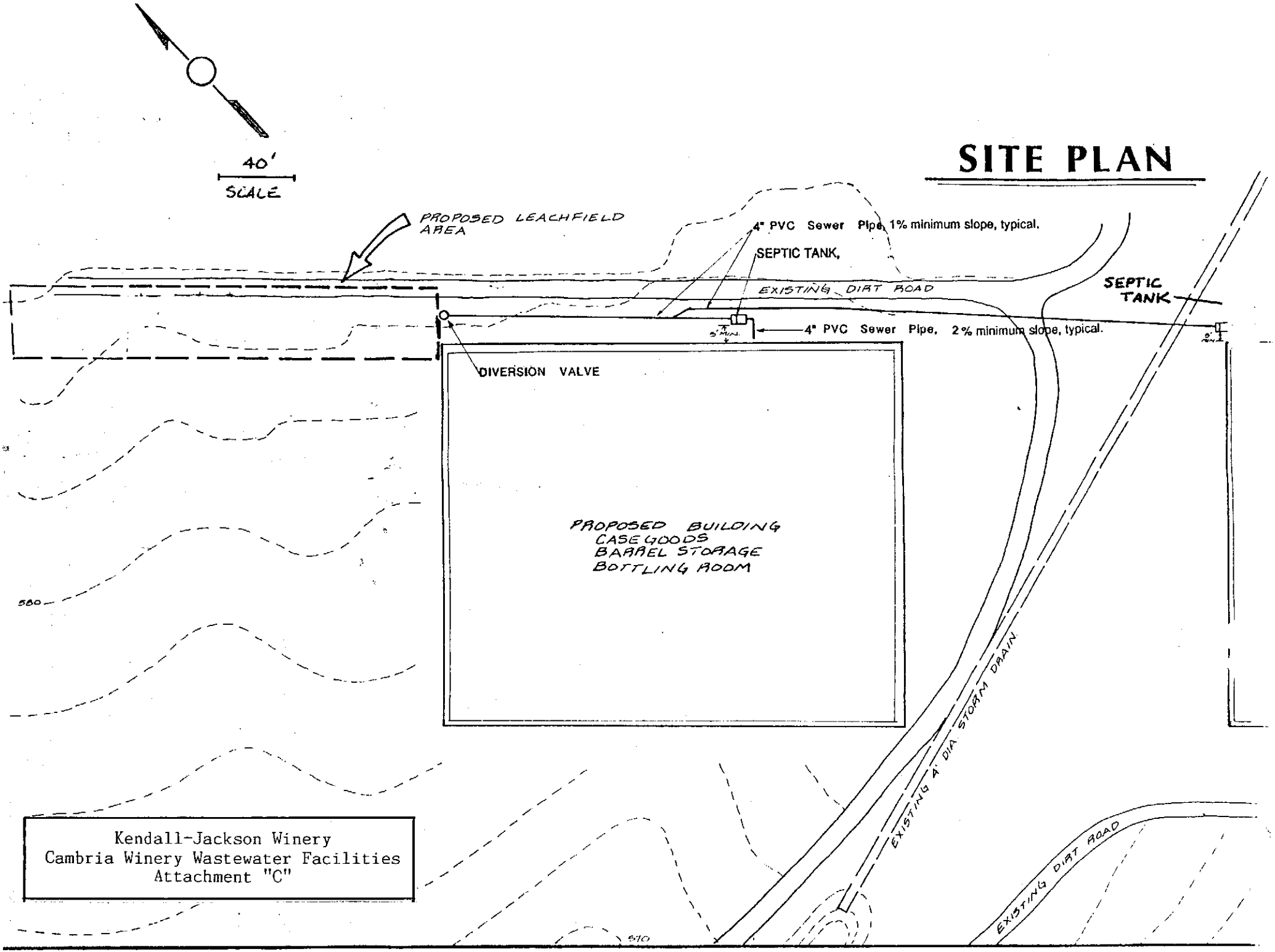
SWANSON - OSWALD ASSOCIATES, INC.
FORMERLY CSO INTERNATIONAL, INC.
CIVIL, SANITARY & OCEAN ENGINEERING

APPROVED BY:
SWANSON-OSWALD ASSOCIATES, INC.
RCE No. C16051

ACCEPTED BY:
RCE No.

CAMBRIA WINERY
KENDALL-JACKSON
SANTA MARIA CALIFORNIA

SITE PLAN



Kendall-Jackson Winery
Cambria Winery Wastewater Facilities
Attachment "C"

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

MONITORING AND REPORTING PROGRAM NO. 90-98
FOR
KENDALL-JACKSON WINERY
CAMBRIA WINERY WASTEWATER FACILITIES
SANTA BARBARA COUNTY

WATER SUPPLY MONITORING

Representative samples of the winery water supply shall be monitored as follows:

Parameter	Units	Type of Measurement	Minimum Sampling Frequency
Total Dissolved Solids	mg/l	Grab	Annually (September)

WINE PROCESSING WASTEWATER

Representative samples of the wine processing wastewater discharged to the wastewater treatment pond shall be monitored as follows:

Parameter	Units	Type of Measurement	Minimum Sampling Frequency
Flow to Pond	GPD	Metered	Daily
Monthly Average Flow	GPD	Calculated	Monthly

IRRIGATION POND MONITORING

Representative samples of treated wine processing wastewater discharged from the irrigation pond shall be monitored as follows:

Parameter	Units	Type of Measurement	Minimum Sampling Frequency
Pond Freeboard	feet	Staff Gauge	Monthly
Total Dissolved Solids	mg/l	Grab	Annually (September)*
Total Nitrogen (as N) (Nitrate + nitrite + ammonia + organic)	mg/l	Grab	Annually (September)*
pH	--	Grab	Annually (September)*

* During periods of peak load

DOMESTIC WASTEWATER

Monitoring of septic tank effluent shall include the following:

Parameter	Units	Type of Sample	Minimum Sampling Frequency
Daily Flow	gals/day	--	Estimated average daily flow rate for each month

SEPTIC TANK MAINTENANCE

Septic tanks shall be inspected and pumped as described below. The inspection is not required during the year it is pumped.

Parameter	Units	Type of Measurement	Minimum Inspection Frequency
Sludge depth and scum thickness in each compartment of each septic tank	Feet	Staff Gauge	Annually (Sept)
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually (Sept)
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually (Sept)

= =

Septic tanks shall be pumped when any one of the follow conditions exist, or may occur before the next inspection:

a. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or,

b. The scum layer is within three inches of the outlet device; or,

c. The sludge layer is within eight inches of the outlet device.

A log shall be kept of the date of pumping, volume pumped, septage hauler, and septage disposal location.

IRRIGATION AND LEACHFIELD AREA INSPECTION

The areas irrigated with treated wine processing wastewater shall be inspected regularly to ensure ponding or runoff does not occur. The domestic wastewater leachfield areas shall be inspected at least monthly for surfacing effluent, saturated surface areas, and odors. Evidence of any condition of this nature shall be reported to the

Executive Officer within 24 hours of being discovered and promptly investigated and remedied. A log shall be kept of dates and nature of observations and remedies and of when use of leachfields is alternated.

SOLID WASTE DISPOSAL

A log shall be kept of estimated volumes and disposal locations of screenings, tank residues, and pond solids.

REPORTING

Reports shall be submitted annually by the 20th day of October and shall contain all dated collected or calculated over the previous year. All log entries for the previous year s7hall be summarized, with particular mention of failures or problems and corrective actions taken.

ORDERED BY _____
Executive Officer

October 12, 1990
Date

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