

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. 92-078

WASTE DISCHARGE REQUIREMENTS
FOR
SACRAMENTO COUNTY DEPARTMENT OF AIRPORTS
SACRAMENTO METRO AIRPORT WASTEWATER FACILITY
SACRAMENTO COUNTY

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

1. Sacramento County Department of Airports (hereafter Discharger) submitted a Report of Waste Discharge, dated 27 July 1990, and the environmental documents, dated 16 October 1990, in support of the application for requirements update for the expansion of the sewage treatment and disposal facility.
2. Waste Discharge Requirements Order No. 83-121, adopted by the Board on 23 September 1983, prescribes requirements for a discharge from Sacramento Metro Airport facilities to five oxidation ponds providing 72 acre feet of storage.
3. Order No. 83-121 is neither adequate nor consistent with current plans and policies of the Board.
4. The Airport wastewater facility consists of evaporation/percolation ponds and adjacent fields used for disposal. The expansion includes the installation of mechanical aerators to pond No. 2, which improves the adequacy of the pond for waste treatment. The expansion also increases the storage capacity from 72 acre feet to 91 acre feet, therefore improving the reliability of the system. There are also 130 acres currently in rice available for emergency disposal during above normal rainfall. It is proposed that a perennial grass forage crop will be planted in the 35 acre irrigation area. Wastewater will be applied to the adjacent 130 acre rice field only after the crop has been removed in the fall, and before spring planting.
5. The Discharger discharges 144,000 gallons per day. The new improvements to the plant increased the design capacity to 188,000 gallons per day.
6. The Metro Airport facility is in Section 31, T10N, R4E, MDB&M, with surface water drainage to the Sacramento River via Meiser drainage, as shown in Attachment A, which is attached hereto and part of the Order by reference.
7. The Board adopted a Water Quality Control Plan, Second Edition, for the Sacramento-San Joaquin Basin (hereafter Basin Plan), which contains water quality objectives for all waters of the Basin. These requirements implement the Basin Plan.

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8. The beneficial uses of the Sacramento River are municipal, industrial, and agricultural supply; recreation; aesthetic enjoyment; navigation; ground water recharge; fresh water replenishment; and preservation and enhancement of fish, wildlife, and other aquatic resources.
9. The beneficial uses of underlying ground water are domestic, industrial, and agricultural supply.
10. The County of Sacramento has certified a final environmental impact report (EIR) in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000, et seq.) and the State CEQA Guidelines. The project as approved will not have a significant effect on water quality.
11. The Board has reviewed the EIR and concurs there are no significant impacts on water quality.
12. This discharge is exempt from the requirements of Title 23, CCR, Section 2510, et seq. (hereafter Chapter 15). The exemption, pursuant to Section 2511(b), is based on the following:
 - a. The Board is issuing waste discharge requirements,
 - b. The discharge complies with the Basin Plan, and
 - c. The wastewater does not need to be managed according to Title 22, CCR, Division 4, Chapter 20, as a hazardous waste.
13. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
14. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Order No. 83-121 is rescinded and the County of Sacramento, Metro Airport, its agents, successors, and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions:

1. Discharge of wastes to surface waters or surface water drainage courses is prohibited. Therefore, storm runoff from the reclamation area which occurs during, or immediately after the

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application of wastewater must be collected and contained. Adequate separation of wastewater and storm runoff would be achieved if it has been at least four weeks since the last application of wastewater before storm water is allowed to runoff.

2. Bypass or overflow of untreated or partially treated waste is prohibited, except as allowed by Standard Provision E.2.
3. Discharge of waste classified as 'hazardous' or 'designated', as defined in Sections 2521(a) and 2522(a) of Chapter 15, is prohibited.

B. Discharge Specifications:

1. The monthly average dry weather discharge flow shall not exceed 188,000 gallons/day.
2. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal areas.
3. As a means of discerning compliance with Discharge Specification No. 2, the dissolved oxygen content in the upper zone (1 foot) of wastewater in ponds shall not be less than 1.0 mg/l.
4. The treatment facilities shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
5. The wastewater shall be confined to the designated disposal area as delineated in Attachment A.
6. There shall be no standing wastewater in the irrigation area 72 hours after discontinuing wastewater application.
7. Ponds shall be managed to prevent breeding of mosquitos. In particular,
 - a. An erosion control program should assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.

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8. Public contact with wastewater shall be precluded through such means as fences, signs, or other acceptable alternatives.
9. Ponds shall have sufficient capacity to accommodate allowable wastewater flow and design seasonal precipitation and ancillary inflow and infiltration during the nonirrigation season. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. Freeboard shall never be less than two feet (measured vertically).
10. On or about 1 October of each year, available pond storage capacity shall at least equal the volume necessary to comply with Discharge Specification 9.
11. Reclaimed wastewater shall meet the criteria contained in Title 22, Division 4, California Code of Regulations (Section 60301, et seq.).

C. Sludge Disposal:

1. Collected floatables, sludges, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with Chapter 15 and approved by the Executive Officer.
2. Any proposed change in sludge use or disposal practice shall be reported to the Executive Officer at least 90 days in advance of the change.
3. Use and disposal of sewage sludge shall comply with existing federal and state laws and regulations, and with Clean Water Act (CWA) Section 405(d) technical standards when promulgated.

If an applicable management practice or numerical limitation for pollutants in sewage sludge is promulgated under Section 405(d) of the CWA after issuance of this permit which is more stringent than the sludge pollutant limit or management practice specified in this permit or in existing federal or state laws or regulations, the Discharger shall comply with the limitations by not later than the compliance deadline specified in the applicable regulations as required by Section 405(d) of the CWA.

4. The Discharger is encouraged to comply with the State Guidance Manual issued by the Department of Health Services titled Manual of Good Practice for Landspreading of Sewage Sludge.

D. Ground Water Limitations:

The discharge, in combination with other sources, shall not cause underlying ground water to:

1. Be degraded.
2. Contain chemicals, heavy metals, or trace elements in concentrations that adversely affect beneficial uses or exceed maximum contaminant levels specified in 22 CCR, Division 4, Chapter 15.
3. Exceed a most probable number of total coliform organisms of 2.2/100 ml over any seven-day period.
4. Exceed concentrations of radionuclides specified in 22 CCR, Division 4, Chapter 15.
5. Contain taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.
6. Contain concentrations of chemical constituents in amounts that adversely affect agricultural use.

E. Provisions:

1. The Discharger shall comply with the Monitoring and Reporting Program No. 92-078, which is part of this Order, and any revisions thereto as ordered by the Executive Officer.
2. The Discharger shall comply with the "Standard Provisions and Reporting Requirements for Waste Discharge Requirements", dated 1 March 1991, which are attached hereto and by reference a part of this Order. This attachment and its individual paragraphs are commonly referenced as "Standard Provision(s)."
3. In the event of any change in control or ownership of land or waste discharge facilities described herein, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office.
4. The Discharger must comply with all conditions of this Order, including timely submittal of technical and monitoring reports as directed by the Executive Officer. Violations may result in enforcement action, including Regional Board or court orders

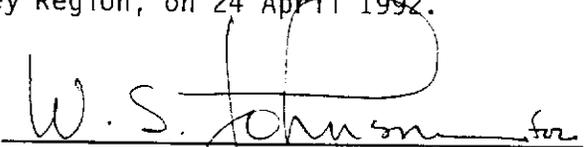
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requiring corrective action or imposing civil monetary liability, or in revision or rescission of this Order.

5. A copy of this Order shall be readily available for review upon request. Key operating personnel shall be familiar with its contents.
6. The Board will review this Order periodically and will revise requirements when necessary.

I, WILLIAM H. CROOKS, 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 Valley Region, on 24 April 1992.


WILLIAM H. CROOKS, Executive Officer

02/03/92:JJH:mkk

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 92-078

FOR

SACRAMENTO COUNTY DEPARTMENT OF AIRPORTS
SACRAMENTO METRO AIRPORT WASTEWATER FACILITY
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Specific sample station locations shall be established under direction of the Board's staff and a description of the stations shall be attached to this Order.

EVAPORATION/PERCOLATION PONDS MONITORING

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
pH	pH Units	Grab	Monthly
Flow	gallons	Cumulative	Monthly
Pond Freeboard	feet	Visual	Monthly

SLUDGE MONITORING

A composite sample of sludge shall be collected when sludge is removed from the treatment ponds, in accordance with EPA's *POTW Sludge Sampling and Analysis Guidance Document, August 1989*, and tested for the following metals:

Cadmium	Lead
Chromium	Nickel
Copper	Zinc

Sampling records shall be retained for a minimum of five years. A log shall be kept of sludge quantities generated and of handling and disposal activities. The frequency of entries is discretionary; however, the log should be complete enough to serve as a basis for part of the annual report.

REPORTING

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly the compliance with waste discharge requirements.

Quarterly monitoring reports shall be submitted to the Regional Board by the **20th day** of the following month.

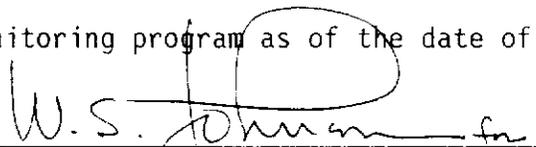
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The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Board.

Upon written request of the Board, the Discharger shall submit a report to the Board by **30 January** of each year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

The Discharger shall implement the above monitoring program as of the date of this Order.



WILLIAM H. CROOKS, Executive Officer

24 April 1992
(Date)

02/03/92:JJH:mkk

INFORMATION SHEET

SACRAMENTO COUNTY DEPARTMENT OF AIRPORTS
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The airport originally utilized four oxidation ponds for sewage treatment with discharge to Meister drainage ditch, a tributary to the Natomas West Drainage Canal and the Sacramento River. In 1976, Order No. 76-194 was adopted, prohibiting a discharge of wastewater to surface waters. The ponds operated without significant discharge, obtaining disposal through evaporation and percolation, until the winter of 1982-83. To provide adequate capacity, the County added a fifth pond to increase the total storage capacity from 38 acre-feet to 72 acre-feet. Also, 35 acres adjacent to the ponds will be used for summer irrigation disposal with no discharge to surface waters. The new expansion included the installation of mechanical aerators to Pond No. 2, which improved the adequacy of the ponds for wastewater treatment. The expansion also increased the storage capacity to 91 acre-feet and improved the reliability of the existing facilities.

The pond system will have capacity for an average precipitation year. In the event that above normal rainfall occurs, about 130 acres of rice fields next to the facility are available for disposal. The County owns the land and leases it to the farmer. If necessary, wastewater can be applied to the 130 acres between the fall harvest and spring planting. There will be no discharge of wastewater from this area to surface waters.

The new expansion was designed in 1990 when passenger use was about 3.2 million annual passengers. The design capacity for the new expansion was sufficient for about 3 to 5 years at the then current passenger growth forecasts. In 1991 new service was introduced by an air carrier with low fares and frequent flights. This new air carrier service resulted in new record level passenger growth such that the forecast 3 year growth was realized in only one year. Current use of the airport is about 4.5 million passengers and should rise to about 5.0 million passengers by the end of calendar year 1992. The present wastewater storage capacity is now expected to provide adequate capacity for only one or two years. A long-range plan is being developed to update the wastewater capacity needs. The plan should be available for review by January, 1993.

02/04/92:JJH:mkk

