

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 94-074
NPDES PERMIT NO. CA 0037613

REISSUING WASTE DISCHARGE REQUIREMENTS FOR:

DUBLIN SAN RAMON SERVICES DISTRICT
PLEASANTON
ALAMEDA COUNTY

AND

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter called the Board, finds that:

1. The Dublin San Ramon Services District (District), submitted a Report of Waste Discharge dated December 29, 1993 for reissuance of waste discharge requirements and a permit to discharge wastewater to waters of the State and the United States through a common outfall under the National Pollutant Discharge Elimination System (NPDES).
2. The District owns and operates the Dublin San Ramon Sanitary District wastewater treatment plant, located in Pleasanton, Alameda County. The facility has capacity to provide secondary level treatment for 11.5 million gallons per day (mgd) of domestic, commercial, and industrial wastewater from the cities of Dublin, San Ramon, and Pleasanton. The average dry weather flow for 1993 at the treatment plant was 7.9 mgd.
3. The treatment facility consists of grinding and screening, grit removal, primary clarification, activated sludge, secondary clarification, and disinfection. Sludge is anaerobically digested, stabilized and stored in facultative lagoons, and then disposed of at an on-site landfill.

The District transports the treated effluent to the Livermore-Amador Valley Water Management Agency (LAVWMA) export pump station where it combines with the City of Livermore's treated effluent. The combined wastewaters flow to two flow-equalization basins, receive additional chlorination and are pumped via LAVWMA's pipeline to the East Bay Dischargers Authority (EBDA) system. EBDA transports LAVWMA treated wastewater jointly with the treated wastewater from its member agencies to its dechlorination station near the San Leandro Marina (Marina Dechlorination Facility) and thence to its deepwater outfall in Lower San Francisco Bay west of the Oakland Airport at longitude 122° 17' 42" W, latitude 37° 41' 40" N. The

outfall's diffuser is located 37,000 feet from shore; it discharges 23.5 feet below the surface (MLLW); and it is designed to provide minimum initial dilution of greater than 10:1 at all times, and about 45:1 for 45% of the time. EBDA is responsible for the combined transport, dechlorination, and discharge of LAVWMA's treated wastewater by contractual agreement.

4. LAVWMA is a joint powers agency created in 1974 for wastewater management planning for the service areas of Livermore, Pleasanton, and Dublin-San Ramon Services District. By contractual agreement, the Dublin San Ramon Services District is responsible for operating and maintaining LAVWMA's export pump station and pipeline facilities and for performing and submitting the self-monitoring requirements for the LAVWMA facilities.
5. Both EBDA and LAVWMA are Joint Exercise of Powers Agencies which exist under Joint Exercise of Powers Agreements (JEPA) to operate treated wastewater transport and disposal facilities.

Since LAVWMA and its tributary agencies are not signatories to the EBDA JEPA, the EBDA-LAVWMA agreement empowers EBDA to monitor discharges by LAVWMA into the EBDA system and requires LAVWMA, as a condition of continuing service, to comply with all requirements prescribed by the Board at the individual treatment plants, except residual chlorine, for which EBDA will be responsible.

The LAVWMA is responsible for transporting effluent from its member agencies to the EBDA system. It is not empowered to take actions to secure member agency compliance with requirements. The district and LAVWMA will be referred to hereafter as the discharger.

6. This discharge is presently governed by Waste Discharge Requirements in Order No. 89-099 adopted by the Board on June 21, 1989, which allows discharge in to Lower San Francisco Bay. Separate waste discharge requirements (NPDES Permits) for the City of Livermore and EBDA will be reissued with this Order.
7. LAVWMA's export pump station can export up to 21.0 mgd of treated wastewater, or 1.3 mgd more than its contracted capacity of 19.7 mgd in the EBDA system. LAVWMA is allowed to discharge up to 1.3 mgd of treated wastewater to San Lorenzo Creek during peak wet weather periods pursuant to separate Board Order (NPDES Permit No. CA0038679).
8. The discharger has implemented and is maintaining an USEPA approved pretreatment program in accordance with Federal pretreatment regulations (40 CFR 403) and this Board's Order No. 89-179.
9. The Board adopted a revised Water Quality Control Plan for the San Francisco Basin (Basin Plan) on December 17, 1986. The Basin Plan identifies beneficial uses and water quality objectives for surface waters in the region, as well as effluent limitations and

discharge prohibitions intended to protect beneficial uses. This Order implements the plans, policies and provisions of the Board's Basin Plan.

10. Effluent limitations in this permit are based on the plans, policies, and water quality criteria of the Basin Plan, *Quality Criteria for Water* (EPA/5-86-001, 1986; Gold Book), applicable Federal Regulations (40 CFR Parts 122 and 131), and Best Professional Judgement.
11. The effluent limit for copper in this permit is based on 4.9 $\mu\text{g}/\text{l}$ copper as an interpretation of the narrative toxicity objective in the Basin Plan, based on best professional judgement. Specifically, the use of 4.9 $\mu\text{g}/\text{l}$ as the site-specific objective for copper is based on the Regional Board study that employed the "water effect ratio" approach developed by the EPA. This study and associated staff analysis are described in a September 25, 1992 staff report entitled "Revised Report on Proposed Amendment to Establish a Site Specific Objective for Copper for San Francisco Bay".
12. In 1993, the Regional Monitoring Program (RMP) found PCB concentrations in water throughout the estuary at levels exceeding the EPA criterion. The EPA criterion indicates the potential for bioaccumulation in fish tissue to levels that pose a risk to human health, when the fish is consumed. Concentrations of PCBs and other pollutants in fish tissue are being measured in a study currently being conducted by the Regional Board. The Regional Board and the discharger acknowledge that commercially available laboratory techniques do not allow for detection of PCBs or dioxin in effluent at levels low enough to determine the extent of contribution of these substances by the discharger. Therefore, rather than focusing additional resources on characterizing PCB and dioxin levels in effluent, the discharger is required to participate in a study to further define the level of contamination of fish tissue in the estuary, as described in Provision E.10. Since elevated PCB levels in the estuary is a region-wide issue, the Regional Board will be requiring all dischargers currently participating in the RMP to contribute to this study.
13. The Beneficial uses identified in the Basin Plan for Lower San Francisco Bay are as follows:
 - Industrial Service Supply
 - Navigation
 - Water Contact Recreation
 - Non-contact Water Recreation
 - Ocean Commercial and Sport Fishing
 - Wildlife Habitat
 - Preservation of Rare and Endangered Species
 - Fish Migration
 - Fish Spawning
 - Shellfish Harvesting
 - Estuarine Habitat

14. A review of discharger's monitoring data indicated that the discharger will not be able to immediately comply with the effluent limitations for copper. This Order specifies interim limits for these constituents, and requires that the discharger continue efforts to reduce pollutant loadings through implementation of its Pollution Prevention Program.
15. The 1986 Basin Plan initiated the Effluent Toxicity Characterization Program (ETCP) in which dischargers were required to monitor their effluent using critical life stage toxicity tests to generate information on toxicity test species sensitivity and effluent variability to allow development of appropriate chronic toxicity effluent limitations.

EBDA detected chronic toxicity in the combined discharge during the course of compliance monitoring and is currently performing toxicity identification evaluations (TIE).

16. Federal Regulations for stormwater discharges were promulgated by the U.S. Environmental Protection Agency on November 19, 1990. The regulations [40 Code of Federal Regulations (CFR) Parts 122, 123, and 124] require specific categories of industrial activity (industrial storm water) to obtain a NPDES permit and to implement Best Available Technology Economically Available (BAT) and Best Conventional Pollutant Control Technology (BCT) to control pollutants in industrial stormwater discharges.

The storm water flows from the wastewater treatment facility process areas are directed to the wastewater treatment plant headworks and treated along with the wastewater discharged to the treatment plants. These stormwater flows constitute all industrial storm water at these facilities and consequently this permit regulates all industrial storm water discharges at this facility.

17. An **Operations and Maintenance Manual** is maintained by the discharger for purposes of providing plant and regulatory personnel with a source of information describing all equipment, recommended operation strategies, process control monitoring, and maintenance activities. In order to remain a useful and relevant document, the manual shall be kept updated to reflect significant changes in treatment facility equipment and operation practices.
18. This Order serves as an NPDES Permit, adoption of which is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of the Public Resources Code [California Environmental Quality Act (CEQA)] pursuant to Section 13389 of the California Water Code.
19. The discharger and interested agencies and persons have been notified of the Board's intent to reissue requirements for the existing discharge and have been provided an opportunity to submit their written views and recommendations.
20. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

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IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, that the discharger shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The bypass or overflow of untreated or partially treated wastewater to waters of the State, either at the treatment plant or from any of the joint facilities or individual member collection system or pump stations tributary to the treatment plants is prohibited.
2. The average dry weather flow discharge shall not exceed 11.5 mgd. Actual average dry weather flow shall be determined for compliance with this prohibition over three consecutive dry weather months each year.
3. Discharge at any point at which the wastewater does not receive an initial dilution of at least 10:1 is prohibited.
4. Discharges of water, materials, or wastes other than storm water, which are not otherwise authorized by this NPDES permit, to a storm drain system or waters of the State are prohibited.
5. Storm water discharges shall not cause pollution, contamination, or nuisance.

B. EFFLUENT LIMITATIONS

1. Effluent discharged shall not exceed the following limits.

<u>Constituent</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>	<u>Instantaneous Max</u>
a. Carbonaceous BOD (CBOD5, 20°C)	mg/l	25	40	--	--
b. Total Suspended Solids	mg/l	30	45	--	--
c. Settleable Matter	ml/l-hr	0.1	--	--	0.2
d. Total Chlorine Residual ⁽¹⁾	mg/l				0.0

Footnote:

- (1) Requirement defined as below the limit of detection in standard test methods. Compliance with this effluent limitation may be demonstrated in the combined discharge at the EBDA outfall.

2. pH: the pH of the discharge shall not exceed 9.0 nor be less than 6.0

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3. Total Coliform Bacteria:

The treated wastewater, at some place in the treatment process prior to discharge, shall meet the following limits of bacteriological quality: The moving median value for the Most Probable Number (MPN) of total coliform bacteria in any five (5) consecutive samples shall not exceed 240 MPN/100 ml; and, any single sample shall not exceed 10,000 MPN/100 ml.

4. 85 Percent Removal, BOD and TSS:

The arithmetic mean of the biochemical oxygen demand (Five-day, 20°C) and total suspended solids values, by weight, for effluent samples collected in each calendar month shall not exceed 15 percent of the arithmetic mean of the respective values, by weight, for influent samples collected at approximately the same times during the same period.

5. Effluent Toxicity:

5.1 Acute Toxicity:

The survival of organisms in undiluted combined effluent shall be an eleven (11) sample median value of not less than 90 percent survival, and an eleven (11) sample 90 percentile value of not less than 70 percent survival. The eleven sample median and 90th percentile effluent limitations are defined as follows:

11 sample median: A bioassay test showing survival of less than 90 percent represents a violation of this effluent limit, if five or more of the past ten or less bioassay tests show less than 90 percent survival.

90th percentile: A bioassay test showing survival of less than 70 percent represents a violation of this effluent limit, if one or more of the past ten or less bioassay tests show less than 70 percent survival.

Compliance with this effluent limitation may be demonstrated in the combined discharge at the EBDA outfall.

If the discharger demonstrates to the satisfaction of the Executive Officer that toxicity exceeding the levels cited above is caused by ammonia and that the ammonia in the discharge is not adversely impacting receiving water quality or beneficial uses, then such toxicity does not constitute a violation of this effluent limitation. In the event that ammonia in the effluent consistently causes toxicity, the Board may consider modifying or granting an exception to this effluent limitation if the discharger demonstrates that ammonia in the effluent is

not impacting receiving water quality or beneficial uses. Anti-backsliding will not apply to such a modification because the limit does not apply to ammonia toxicity.

5.2 Chronic Toxicity:

The discharge is classified as a deep water discharge. The chronic toxicity effluent limitation is based on a dilution ratio of 10:1.

The effluent from the treatment plant as discharged, shall meet both of the following chronic toxicity limitations:

- a. an eleven sample median value¹ of 10 TUc²; and
- b. a 90 percentile value³ of 20 TUc².

Compliance with this effluent limitation may be demonstrated in the combined discharge at the EBDA outfall.

- ¹ A test sample showing chronic toxicity greater than 10 TUc represents consistent toxicity and a violation of this limitation, if five or more of the past ten or less tests show chronic toxicity greater than 10 TUc.
- ² A TUc equals 100/NOEL. The NOEL is the no observable effect level, determined from IC, EC, or NOEL values. These terms and their usage in determining compliance with the limitations are defined in Attachment A of this Order. The NOEL shall be based on a critical life stage test using the most sensitive test species as specified by the Executive Officer. The Executive Officer may specify two compliance species if test data indicate that there is alternating sensitivity between the two species. If two compliance test species are specified, compliance shall be based on the maximum TUc value for the discharge sample based on a comparison of TUc values obtained through concurrent testing of the two species.
- ³ A test sample showing chronic toxicity greater than 20 TUc represents consistent toxicity and a violation of this limitation if one or more of the past ten or less samples shows toxicity greater than 20 TUc.

Board staff is in process of evaluating the second round of the Effluent Toxicity Characterization Program data. The Board may revise the chronic toxicity effluent limitation based on the results of this evaluation.

6. TOXIC SUBSTANCES EFFLUENT LIMITATIONS: The discharge of effluent containing constituents in excess of the following concentration limits is prohibited (a,f):

Table 1 (All limits in $\mu\text{g}/\ell$)

<u>Constituent</u>	<u>Monthly Average(b)</u>	<u>Daily Average(b)</u>	<u>Interim Limits Monthly Average From 6/94 To 6/97</u>
1. Arsenic (h)		200	
2. Cadmium (h)		30	
3. Chromium (VI) (c) (h)		110	
4. Copper		37	90
5. Lead (g)		53	
6. Mercury	0.21	21	
7. Nickel (g)		65	
8. Selenium (g)		50	
9. Silver		23	
10. Zinc (g) (h)		580	
11. 1, 2 Dichlorobenzene (d)	180,000		
12. 1, 3 Dichlorobenzene	26,000		
13. 1, 4 Dichlorobenzene	640		
14. 2,4 Dichlorophenol	0.3		
15. 2,4,6 Trichlorophenol	10		
16. Aldrin	0.0014		
17. A-BHC	0.13		
18. Benzene	210		
19. B-BHC	0.46		
20. Chlordane (d)	0.0008	0.04	
21. Chloroform	4,800		
22. Cyanide (e)		10	
23. DDT (d)	0.006	0.01	
24. Dichloromethane	16,000		
25. Dieldrin	0.0014	0.019	
26. Endosulfan (d)		0.87	
27. Endrin (d)		0.023	
28. Fluoranthene	42		
29. G-BHC (Lindane)	0.62	1.6	
30. Halomethanes (d)	4,800		
31. Heptachlor	0.0017	0.036	
32. Heptachlor Epoxide	0.0007		
33. Hexachlorobenzene	0.0069		
34. PAHs (d)	0.31	150	
35. Pentachlorophenol (g)	28	79	
36. Phenol	300		

Table 1 (Continued)
(All limits in $\mu\text{g}/\ell$)

<u>Constituent</u>	<u>Monthly Average(b)</u>	<u>Daily Average(b)</u>	<u>Interim Limits Monthly Average From 6/94 To 6/99</u>
37. PCBs (Total) (d)	0.0007	0.03	0.2
38. TCDD Equivalents (d)	1.4E-07		1.5E-05
39. Toluene	3,000,000		
40. Toxaphene (g)		0.002	
41. Tributyltin	0.05	0.12	

Footnotes:

- a. These limits are based on marine water quality objectives, and are intended to be achieved through secondary treatment and, as necessary, pretreatment and source control.
- b. Limits apply to the average concentration of all samples collected during the averaging period (Daily - 24-hour period; Monthly - Calendar month).
- c. The discharger may meet this limit as total chromium.
- d. See California Enclosed Bays and Estuaries Plan, April 1991, Definition of terms; and Attachment C.
- e. The discharger may demonstrate compliance with this limitation by measurement of weak acid dissociable cyanide.
- f. All analyses shall be performed using current USEPA Methods, as specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", SW-846, Third Edition. Detection limits, practical quantitative levels, and limits of quantitative will be taken into account in determining compliance with effluent limitations.
- g. Effluent limitation may be met as a 4-day average. If compliance is to be determined based on a 4-day average, then concentrations of four 24-hour composite samples shall be reported, as well as the average of four.
- h. Limit was specified in the previous permit and is lower than new limit specified in the revised Basin Plan. The discharger has maintained compliance with this lower limit; therefore, this limit will continue to apply to the effluent, and not be replaced with the new limit from the Basin Plan.

C. RECEIVING WATER LIMITATIONS

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place at levels that cause nuisance or adversely affect beneficial uses:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths to the extent that such deposits or growths cause nuisance or adversely affect beneficial uses;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;

- d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on wildlife, waterfowl, or other aquatic biota, or which render any of these unfit for human consumption, either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State anyone place within one foot of the water surface:

a. Dissolved Oxygen 5.0 mg/l, minimum

The median dissolved oxygen concentration for any three consecutive months shall not be less than 80% of the dissolved oxygen content at saturation. When natural factors cause concentrations less than that specified above, then the discharge shall not cause further reduction in ambient dissolved oxygen concentrations.

b. Dissolved Sulfide 0.1 mg/l, maximum

c. pH Variation from normal ambient pH by more than 0.5 pH units.

d. Un-ionized Ammonia 0.025 mg/l as N, annual median
0.4 mg/l as N, max.

3. The discharge shall not cause a violation of any particular water quality standard for receiving waters adopted by the Board or the State Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

4. Storm Water Discharge

- a. Storm water discharges shall not adversely impact human health or the environment.
- b. Storm water discharges shall not cause or contribute to a violation of any applicable water quality objective for receiving waters contained in the Basin Plan.

D. SLUDGE MANAGEMENT PRACTICES

1. All sludge generated by the discharger must be disposed of in a municipal solid waste landfill, reused by land application, or disposed of in a sludge-only landfill in

accordance with 40 CFR Part 503. If the discharger desires to dispose of sludge by a different method, a request for permit modification must be submitted to the USEPA 180 days before start-up of the alternative disposal practice. All the requirements in 40 CFR 503 are enforceable by USEPA whether or not they are stated in an NPDES permit or other permit issued to the discharger.

2. Sludge treatment, storage, and disposal or reuse shall not create a nuisance, such as objectionable odors or flies, or result in groundwater contamination.
3. Duty to mitigate: The discharger shall take all reasonable steps to prevent or minimize any sludge use or disposal which has a likelihood of adversely affecting human health or the environment.
4. The discharge of sewage sludge shall not cause waste material to be in a position where it is, or can be carried from the sludge treatment and storage site and deposited in the waters of the State.
5. The sludge treatment and storage site shall have facilities adequate to divert surface runoff from adjacent areas, to protect boundaries of the site from erosion, and to prevent any conditions that would cause drainage from the materials in the temporary storage site. Adequate protection is defined as protection from at least a 100-year storm and protection from the highest possible tidal stage that may occur.
6. The discharger shall submit an annual report to the USEPA and the Board containing monitoring results and pathogen and vector attraction reduction requirements as specified by 40 CFR 503, postmarked February 19 of each year, for the period covering the previous calendar year.
7. Sludge that is disposed of in a municipal solid waste landfill must meet the requirements of 40 CFR 258. In the annual self-monitoring report, the discharger shall include the amount of sludge disposed of, and the landfill(s) to which it was sent.
8. Permanent on-site sludge storage or disposal activities are not authorized by this permit. A report of Waste Discharge shall be filed and the site brought into compliance with all applicable regulations prior to commencement of any such activity by the discharger.
9. General Provision C of this Board's "Standard Provisions and Reporting Requirements", dated August 1993, apply to sludge handling, disposal and reporting practices.
10. The Board may amend this permit prior to expiration if changes occur in applicable state and federal sludge regulations.

E. PROVISIONS

1. Requirements prescribed by this Order supersede the requirements prescribed by Order No. 89-099. Order No. 89-099 is hereby rescinded.
2. Where concentration limitations in mg/l or $\mu\text{g/l}$ are contained in this Permit, the following Mass Emission Limitations shall also apply.

(Mass Emission Limit in kg/day = (Concentration Limit in mg/l) x (Actual Flow in million gallons per day averaged over the time interval to which the limit applies) x 3.785 (conversion factor).

3. The discharger shall comply with all sections of this Order immediately upon adoption.
4. As new water quality objectives go into effect for San Francisco Bay (whether statewide, regional or site-specific), the effluent limitations in this permit will be modified as necessary to reflect the objectives. Adoption of the effluent limitations contained in this permit is not intended to restrict in any way future modification based on legally adopted water quality objectives.
5. Compliance with Acute Toxicity Effluent Limitation
 - a. Compliance with Effluent Limitation B.5.1. (Acute Toxicity) of this Order shall be evaluated by measuring survival of three spine stickleback exposed to undiluted effluent for 96 hours in flow-through bioassays.
 - b. The dischargers shall conduct a special study to measure survival of rainbow trout exposed to undiluted combined effluent. These tests can be conducted using either flow-through or static renewal bioassays. The survival of three spine stickleback and rainbow trout should be measured concurrently, by conducting two tests per month for six months. The dischargers shall submit test data acceptable to the Executive Officer, within 1 year after adoption of this Order.

The Executive Officer may consider changing the compliance fish species and Effluent Limitation B.5.1, based on the data submitted by the dischargers.
 - c. All bioassays shall be performed according to protocols approved by the USEPA or State Board, or published by the American Society for Testing and Materials (ASTM) or American Public Health Association.
6. Compliance with Chronic Toxicity Effluent Limitation
 - a. The discharger shall continue diligently with toxicity identification evaluation (TIE) efforts on the treatment plant effluent in accordance with work plans

acceptable to the Executive Officer, and shall pursue toxicity reduction evaluations (TRE) as appropriate. The discharger shall submit quarterly reports summarizing the status of the TIE/TRE efforts. TIE/TRE efforts shall continue until the discharger demonstrates that the discharge complies with the chronic toxicity effluent limitation. The Board recognizes that identification of causes of chronic toxicity may not be successful in all cases. Consideration of enforcement action by the Board will be based in part on the discharger's diligence in identifying and reducing sources of persistent toxicity.

- b. The discharger shall comply with the screening phase monitoring requirements as specified in Attachment B of this Order.

7. Compliance With Toxic Substances Limitations

- a. The discharger shall comply with effluent limitations specified in Effluent Limitations B.6 immediately upon adoption of this Order.
 - b. The discharger shall initiate a monitoring program using appropriate USEPA methods and detection limits, to evaluate the compliance status for all constituents listed in Effluent Limitations in B.6. Monitoring for metals, cyanide, phenols, and PAHs shall be performed monthly during all periods of surface water discharge. For all other constituents listed in B.6, initial monitoring shall be performed for three consecutive dry months beginning with July, 1994, and three consecutive wet months beginning with January, 1995.
8. The dischargers shall submit, by April 30, 1995, a technical report acceptable to the Executive Officer summarizing the results of the monitoring done pursuant to Provision D.7 above. This report shall include the method detection limit (MDL), and practical quantification limit (PQL) achieved at the in-house laboratory and an evaluation of compliance with the effluent limitations for each constituent. For each constituent, the MDL and PQL should be less than the effluent limit, where technically feasible. For constituents analyzed by an outside laboratories, MDLs and PQLs should be provided to the dischargers by outside laboratories. The technical report shall contain recommendations for further effluent sampling and analysis, both with respect to type and frequency of analysis. This NPDES permit shall be subsequently modified to include effluent sampling for the subject constituents.

If the monitoring results document that the effluent cannot meet the limits, the dischargers may petition for interim limits and longer compliance periods. This petition must be based on the planning and implementation of an aggressive pollution prevention program.

9. Pollution Prevention Program
- a. The discharger shall continue to participate in the Pollution Prevention Program (previously known as the Waste Minimization Program) as described in the Basin Plan, Chapter IV, Waste Minimization Section.
 - b. The discharger shall continue to implement and expand its existing Pollution Prevention Program in order to reduce the pollutant loadings to the treatment plant and, subsequently, to the receiving waters. The dischargers shall focus on copper, diazinon, and the constituents found to be in non-compliance with the Basin Plan Table IV-1B limits. For copper, the goal should be 20% reduction from a baseline annual mass loading of 3290 pounds per year, through a combination of the efforts of four EBDA member agencies, DSRSD, Livermore, and Hayward Marsh.
 - c. The discharger shall continue to submit annual reports by July 15th and progress reports by January 15th of each year that are acceptable to the Executive Officer. The reports should include (1) documentation of its efforts and progress, (2) evaluation of the program's accomplishments, and (3) identify specific tasks and establish time schedules for future efforts. Duplicate copies of the reports shall be provided: one to the NPDES Permit Case Handler and one to the Pollution Prevention Coordinator.
 - d. The discharger shall complete implementation of the source reduction plan in order to reduce pollutant loading to the maximum extent practicable.
 - e. The discharger shall comply with the effluent concentration limit for copper by May 18, 1997.
10. The discharger shall conduct a study to investigate the extent and degree of fish contamination in San Francisco estuary, in conjunction with other dischargers. The study should focus on PCBs, dioxin, and other bioaccumulative pollutants which have been measured in the estuary, either in water in concentrations exceeding EPA human health criteria, or in fish tissue in concentrations that pose a risk to human health. The study shall be designed based on results of the Regional Monitoring Program (RMP) and the fish contamination study conducted by the Regional Board in 1994, in order to address issues left unresolved by the 1994 fish contamination study. A study plan and schedule shall be submitted to the Executive Officer for approval by April 1, 1995, and shall reflect a comparable level of effort to the Regional Board's 1994 fish contamination study. The study shall be conducted in the 1995-1996 timeframe. The discharger may comply with this provision by funding the study through the RMP, however, such funding must be provided in addition to the level of funding already committed by the discharger to the RMP for 1995.

11. If the discharger chooses to pursue a capacity increase for the treatment plant, information that must be submitted prior to Board consideration of a flow increase must include, but may not be limited to, the following:
 - a. Engineering reports documenting adequate reliability, capacity and performance of the completed improvements to the treatment facility;
 - b. Documentation that increased discharges (evaluation must include assessment of wet weather flows) will not result in degradation of receiving waters, or adverse impacts on beneficial uses of receiving waters, in accordance with State and Federal regulations;
 - c. Plans for including reuse of the treated effluent as an integral part of the wastewater management plan; and
 - d. Documentation of compliance with the CEQA.

12. The discharger shall implement and enforce its approved pretreatment program in accordance with Board Order 89-179 and its amendments thereafter. The discharger's responsibilities include, but are not limited to:
 - a. Enforcement of National Pretreatment Standards (e.g. prohibited discharges, Categorical Standards, local limits) in accordance with 40 CFR 403.5 and Section 307(b) and (c) of the Clean Water Act.
 - b. Implementation of the pretreatment program in accordance with legal authorities, policies, procedures, and financial provisions described in the General Pretreatment regulations (40 CFR 403) and its approved pretreatment program.
 - c. Submission of annual and quarterly reports to USEPA and the State as described in Board Order 89-179, and its amendments thereafter.

13. The dischargers shall review, and update as necessary, their Operations and Maintenance Manuals, annually, or within 90 days of completion of any significant facility or process changes. The report describing the results of the review process including an estimated time schedule for completion of any revisions determined necessary, and a description or copy of any completed revisions, shall be submitted to the Board as a part of the Annual Report, as described in Section F.5, Part A, of the attached **Self-Monitoring Program**.

14. Annually, the dischargers shall review and update as necessary, their Contingency Plans as required by Board Resolution 74-10. The discharge of pollutants in violation of this Order where the dischargers have failed to develop and/or adequately implement a contingency plan will be the basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code. The discharger may include in its Contingency Plan elements to satisfy the requirements of Standard Provisions and Reporting Requirements D (Treatment Reliability) and E.5. (Spill Prevention Contingency Plans). Plan revisions, or a letter stating that no changes are needed, shall be

submitted to the Board as a part of the Annual Report, as described in Section F.5, Part A, of the attached **Self-Monitoring Program**.

15. The dischargers shall implement a program to regularly review and evaluate their wastewater collection, treatment and disposal facilities in order to ensure that all facilities are adequately staffed, supervised, financed, operated, maintained, repaired, and upgraded as necessary, in order to provide adequate and reliable transport, treatment, and disposal of all wastewater from both existing and planned future wastewater sources under the dischargers' service responsibilities. Records documenting this program shall be kept at each individual treatment facility and made available to the Regional Board staff upon request. A Treatment Facilities Evaluation Program summary report discussing the status of this evaluation program, including any recommended or planned actions, shall be submitted to the Board by April 15 of each year.
16. The discharger shall comply with the **Self-Monitoring Program** for this order, as adopted by the Board and as may be amended by the Executive Officer.
17. The discharger shall comply with all applicable items of the attached "**Standard Provisions and Reporting Requirements** " dated August 1993, or any amendments thereafter.
18. The Board may modify, or revoke and reissue, this Order and Permit if present or future investigations demonstrate that the discharge(s) governed by this Order are causing or significantly contributing to adverse impacts on water quality and/or beneficial uses of the receiving waters.
19. This Order expires on June 15, 1999. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days before this expiration date as application for reissuance of waste discharge requirements.
20. This Order shall serve as a National Pollutant Discharge Elimination System (NPDES) permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after the date of its adoption provided the Regional Administrator, EPA, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.