

California Regional Water Quality Control Board
Santa Ana Region

ORDER NO. 90-136

NPDES No. CA 8000200

Waste Discharge Requirements
for

San Bernardino County Transportation/Flood Control Department
and

the County of San Bernardino, and
the Incorporated Cities of San Bernardino County Within the Santa Ana Region
Areawide Urban Stormwater Runoff
San Bernardino County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. On August 29, 1990, the County of San Bernardino and the San Bernardino County Flood Control District (SBCFCD) in cooperation with the cities of Big Bear Lake, Chino, Colton, Fontana, Grand Terrace, Highland, Loma Linda, Montclair, Ontario, Rancho Cucamonga, Redlands, Rialto, San Bernardino, Upland, and Yucaipa (hereinafter collectively referred to as the dischargers), submitted NPDES Application No. CA 8000200 for an areawide stormwater discharge permit under the National Pollutant Discharge Elimination System (NPDES).
2. The 1972 Clean Water Act (CWA) recognized the need to prohibit the discharge of pollutants to surface water bodies from point sources such as industrial facilities and municipal sewage treatment plants. The discharges of pollutants from point sources are regulated by the NPDES permit system, which required technology-based controls for treatment of wastewater. Stormwater point source discharges were exempt from the NPDES permitting requirements unless these discharges were contaminated by industrial/commercial activity. The Regional Board recognized the water quality problems associated with stormwater discharges from industrial facilities and has issued a number of stormwater permits for such facilities in accordance with the EPA regulations.
3. In 1976, the United States Environmental Protection Agency (EPA) issued new regulations establishing a comprehensive permitting program for all stormwater discharges except for rural runoff uncontaminated by industrial/commercial activity. Channelized stormwater runoff from rural areas continued to be defined as nonpoint source unless designated otherwise by the permitting authority.

4. Since 1976, EPA has issued several revisions to the stormwater regulations. Section 405 of the Water Quality Act (WQA) of 1987 added Section 402(p) to the CWA. Pursuant to Section 402(p)(4) of the CWA, EPA is required to promulgate regulations for stormwater permit applications for stormwater discharges associated with industrial activities and municipal separate storm drain systems serving a population of 100,000 or more. Section 402 (p)(4) of the CWA also requires dischargers of stormwater associated with industrial activities and municipal separate storm drain systems serving a population of 250,000 or more to file stormwater permit applications by February 4, 1990.
5. On December 7, 1988, EPA published its proposed regulations in the Federal Register to solicit public comments. Final regulations are tentatively scheduled to be promulgated on October 31, 1990 and to be published in the Federal Register in mid November, 1990. In the absence of final stormwater regulations, a permit governing municipal stormwater discharges should meet both the statutory requirements of Section 402 (p)(3)(B) and all requirements applicable to a NPDES permit issued under the issuing authority's discretionary authority in accordance with Section 402 (a)(1)(B) of the CWA.
6. The beneficial uses of a number of water bodies within San Bernardino County are impaired or threatened wholly or in part due to urban stormwater runoff and nuisance water. These water bodies include Reaches 4 and 5 of the Santa Ana River, Cucamonga Creek (Valley Reach), Chino Creek, Reach 1 of Mill Creek, Plunge Creek, Baldwin Lake, and Big Bear Lake. A comprehensive stormwater and urban runoff management and regulatory program is essential for the protection of the water resources of the Region. The SBCFCD, the County of San Bernardino, the cities in San Bernardino County, and the Regional Board have recognized this fact, and as a first step towards protecting water quality in the area, a comprehensive management program is being developed. This order outlines the existing programs and specifies additional requirements to achieve water quality objectives for the San Bernardino County drainage areas. The intent of this permit is to regulate pollutant discharges and improve water quality in the Region in a timely manner.

7. Within the Santa Ana Region, the SBCFCD, serves a population of approximately 1.11 million, occupying an area of approximately 985 square miles. The County has estimated 258 miles of above-ground and 241 miles of below-ground storm drain channels in the project area. Approximately seven percent (7%) of the San Bernardino County area drains into water bodies within this Regional Board's jurisdiction. The project area is shown on Attachment "A" and the drainage areas are characterized as shown on Attachment "B". Approximately 50% of the San Bernardino County drainage areas is within the jurisdiction of the Lahonton Regional Board and the remaining 43% of the San Bernardino County drainage areas is within the jurisdiction of the Colorado River Basin Regional Board. Urbanization of the drainage areas within the Lahonton and Colorado River Basin Regional Boards is minimal in comparison to that in the drainage areas under the Santa Ana Regional Board's jurisdiction. Therefore, early stormwater permits for stormwater runoff from the drainage areas of San Bernardino County within the jurisdiction of the Lahonton and Colorado River Basin Regional Boards are not expected at this time.
8. The discharges consist of surface runoff generated from various land uses in all the hydrologic drainage areas which discharge into water bodies in San Bernardino County. The quality of these discharges varies considerably and is affected by land use activities, basin hydrology and geology, season, the frequency and duration of storm events, and the presence of illicit connections to the storm drain systems. The constituents of concern and significance in these discharges are: total and fecal coliform, enterococcus, total suspended solids, biochemical oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon (TOC), oil and grease, heavy metals, nutrients, base/neutral and acid extractibles, pesticides, herbicides, and petroleum hydrocarbon components.
9. There are several entities whose land/facilities drain into the San Bernardino County storm drain systems. These facilities include the cities of San Bernardino County and the State Department of Transportation (Caltrans). The SBCFCD has agreed to be the major responsible party in implementing the provisions of this order. The County of San Bernardino, and the incorporated cities within the county have agreed to cooperate with the SBCFCD in controlling and improving

9. (cont'd)

the quality of urban runoff from their respective areas. The SBCFCD has been named as the "principal permittee" and the County of San Bernardino and the incorporated cities have been named as the "co-permittees". Attachment "C" lists the incorporated cities with their 1990 estimated populations. Of the fourteen cities listed, there are three cities with an estimated 1990 population over 100,000.

10. Due to the enormous variability in stormwater quality and the complexity of the urban runoff management program, this areawide stormwater permit is categorized as a major NPDES permit. This areawide stormwater permit requires all entities discharging stormwater/urban runoff into the storm drain systems or any surface water bodies to have appropriate controls for proper management of this runoff. The Regional Board has the discretion and authority to require non-cooperating entities to participate in this areawide permit or obtain individual stormwater discharge permits, pursuant to 40 CFR 122.26(a). The entities listed in Attachment "D" are considered as potential dischargers of stormwater to the San Bernardino County drainage areas. It is expected that these entities will also work cooperatively with the County of San Bernardino to manage urban runoff.
11. The SBCFCD, as the "principal permittee", will obtain the cooperation of all entities in implementing the provisions of this order. The dischargers are in the process of drafting an implementation agreement which outlines their responsibilities in implementing the stormwater management and monitoring programs in the project area. In general, the SBCFCD, as the "principal permittee", will be responsible for preparing operating budgets, preparing and monitoring the implementation programs, coordinating and submitting reports to the Regional Board, and conducting inspections on District's storm drain systems. The County of San Bernardino and the incorporated cities, as the "co-permittees", will develop site-specific compliance requirements, perform compliance monitoring and inspections, submit storm drain maps and compliance reports to the SBCFCD, exercise enforcement authority for achieving compliance, and review and implement stormwater management programs.

12. The SBCFCD obtains its authority to control pollutants in stormwater discharges, to prohibit illegal discharges and control spills, and to require compliance and carry out inspections of the storm drain systems in the County of San Bernardino from the San Bernardino County Flood Control Act and various county ordinances which address industrial wastes and waste discharges, and land use within the unincorporated areas of San Bernardino County and contract cities. The "co-permittees" have various forms of legal authority in place, such as charters, State Code provisions for General Law cities, city ordinances, and applicable portions of municipal codes and the State Water Code, to regulate stormwater/urban runoff discharges.
13. Currently, the SBCFCD does not have an active surface water quality monitoring program in the permitted area. However, the SBCFCD collects precipitation data from 102 precipitation stations and streamflow data from 60 recording gages and eight alert gages. The County has 112 inactive precipitation stations; historic records for these inactive precipitation stations are available at the SBCFCD.
14. A Water Quality Control Plan was adopted by the Regional Board on May 13, 1983. The Plan contains water quality objectives and beneficial uses of waters in the Santa Ana Region. On July 14, 1989, the Regional Board adopted a Basin Plan amendment, incorporating revised beneficial use designations for the ground and surface waters of the Region.
15. The requirements contained in this order are necessary to implement the Water Quality Control Plan.
16. An attempt has been made to incorporate all of the essential elements of the proposed federal stormwater regulations in this permit.
17. Stormwater discharges to the storm drain systems in San Bernardino County within the Santa Ana Region are tributary to various water bodies of the state. The identified water bodies are as follows (Only a portion of some of the water bodies listed below is within the dischargers' jurisdiction):

17. (cont'd)

Inland Surface Streams

A. Santa Ana River
Santa Ana River, Reaches 4, 5, and 6

B. San Bernardino Mountain Streams

Mill Creek Drainage

Mill Creek, Reaches 1 and 2
Mountain Home Creek
Mountain Home Creek, East Fork
Monkey Face Creek
Alger Creek
Falls Creek
Vivian Creek
High Creek
Other Tributaries: Lost, Oak Cove, Green, Skinner,
Momyer and Glen Martin Creeks, and other Tributaries to
these Creeks

Bear Creek Drainage

Bear Creek
Siberia Creek
Slide Creek
All Other Tributaries to these Creeks

Big Bear Lake Tributaries

North Creek
Metcalf Creek
Grout Creek
Rathbone (Rathbun) Creek
Other Tributaries to Big Bear Lake: Johnson, Minnelusa,
Polique, and Red Ant Creeks, and other Tributaries to
these Creeks

Baldwin Lake Drainage

Shay Creek
Other Tributaries to Baldwin Lake: Sawmill, Green, and
Caribou Canyons and other Tributaries to these Creeks.

17. (cont'd)

C. Other Streams Draining to Santa Ana River (Mountain Reaches)

Cajon Creek
City Creek
Devil Canyon Creek
East Twin and Strawberry Creeks
Waterman Canyon Creek
Fish Creek
Forsee Creek
Plunge Creek
Barton Creek
Bailey Canyon Creek
Kimbark Canyon, East Fork Kimbark Canyon, Ames Canyon and West Fork Cable Canyon Creeks
Valley Reaches of Above Streams
Other Tributaries (Mountain Reach): Alder, Badger Canyon, Bledsoe Gulch, Borea Canyon, Breakneck, Cable Canyon, Cienega Seca, Cold, Converse, Coon, Crystal, Deer, Elder, Fredalba, Frog, Government, Hamilton, Heart Bar, Hemlock, Keller, Kilpecker, Little Mill, Little Sand Canyon, Lost, Meyer Canyon, Mile, Monroe Canyon, Oak, Rattlesnake, Round Cienega, Sand, Schneider, Staircase, Warm Springs Canyon and Wild Horse Creeks, and other tributary to these Creeks.

D. San Gabriel Mountain Streams (Mountain Reaches)

San Antonio Creek
Lytle Creek (South, Middle, and North Forks) and Coldwater Canyon Creek
Day and East Etiwanda Creeks
Valley Reaches of Above Streams
Cucamonga Creek (Mountain Reach)
Cucamonga Creek (Valley Reach)
Other Tributaries (Mountain Reaches): San Sevaine, Deer, Duncan Canyon, Henderson Canyon, Stoddard Canyon, Icehouse Canyon, Cascade Canyon, Cedar, Falling Rock, Kerkhoff and Cherry Creeks, and other Tributaries to these Creeks.

E. San Timoteo Area Streams

San Timoteo Creek, Reaches 1 and 2
Oak Glen, Potato Canyon and Birch Creeks
Yucaipa Creek

F. Prado Area Streams

Chino Creek

17. (cont'd)

G. Lake and Reservoirs

Baldwin Lake
Big Bear Lake
Jenks Lake

The beneficial uses of these water bodies include municipal and domestic supply (MUN), agricultural supply (AGR), industrial service supply (IND), industrial process supply (PROC), groundwater recharge (GWR), hydropower generation (POW), water contact recreation (REC-1), non-contact water recreation (REC-2), warm freshwater habitat (WARM), cold freshwater habitat (COLD), wildlife habitat (WILD), and fish spawning (SPWN). The beneficial uses of individual water bodies are shown on Attachment "E".

18. Some of the storm drain systems in the project area discharge into storm drain systems controlled by other entities, such as the County of Riverside, which is regulated under the Regional Board's Order No. 90-104 (NPDES No. CA 8000192), the County of Orange, which is regulated under the Regional Board's Order No. 90-71, NPDES No. CA 8000180, and the County of Los Angeles, which is regulated under the Los Angeles Regional Board's Order No. 90-79, NPDES No. CA 0061654.
19. Due to the large number of water bodies covered in this order, it is necessary to prioritize these water bodies for the development and implementation of the stormwater management program to effectively control the pollutants in the stormwater discharges. The stormwater management program will be developed and implemented in three phases, Phases I, II, and III. In Phase I, the dischargers will be required to submit existing stormwater qualitative data and develop management and monitoring programs for those water bodies where beneficial uses are threatened or impaired due to runoff of stormwater and urban nuisance water. These water bodies include Reaches 4 and 5 of the Santa Ana River and its tributaries, and Prado area streams (Chino Creek). In Phase II, the dischargers will be required to submit existing stormwater qualitative data and to develop stormwater management and monitoring programs for Reaches 1 and 2 of San Timoteo Creek and its tributaries. In Phase III, the dischargers will be required to submit existing stormwater qualitative data and develop management and monitoring programs for Reach 6 of the SAR, San Bernardino Mountain streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.

20. Numeric and narrative water quality standards exist for the water bodies listed in Item No. 17, above. This permit does not contain numeric limitations for any constituents because the impact of stormwater discharges on the water quality of the above named receiving waters has not been fully determined. Extensive water quality monitoring and analysis of the data are essential to make that determination. This order requires the dischargers continue to monitor the stormwater discharges or begin monitoring as necessary, and to analyze the data. Additionally, the order also requires development and implementation of best management practices¹ (BMPs) in accordance with the WQA of 1987. It is anticipated that with the implementation of BMPs by the dischargers, the pollutants in the stormwater runoff will be reduced and the quality of the receiving waters will be improved. The ultimate goal of the urban stormwater runoff management program is to attain water quality consistent with the water quality objectives for the receiving waters to protect the beneficial uses.
21. With respect to industrial activities, the Regional Board currently regulates discharges of point source process wastewater and non-process wastewater and stormwater discharges to storm drain systems through NPDES permits. Point source discharges other than stormwater will continue to be regulated by the Regional Board. Industrial stormwater dischargers are required to cooperate with the SBCFCD to control the discharge of pollutants in the stormwater runoff from individual facilities or to obtain individual industrial stormwater discharge permits from the Regional Board.
22. Recognizing the need for public involvement and participation in the development and implementation of an effective stormwater/urban runoff management program, the Regional Board will conduct at least one workshop each year during the term of this permit. The purposes of the workshops will be to solicit comments and to inform the public of the progress of the program. Written comments submitted will be forwarded to the State Board, EPA, and the SBCFCD for their review and comments.

¹ Best Management Practices (BMPs) are water quality management practices that are maximized in efficiency for the control of stormwater runoff pollution.

23. In accordance with California Water Code Section 13389, the issuance of waste discharge requirements for this discharge is exempt from those provisions of the California Environmental Quality Act contained in Chapter 3 (commencing with Section 21100), Division 13 of the Public Resources Code.
24. The Regional Board has considered an antidegradation analysis, pursuant to 40 CFR 131.12 and State Board Resolution No. 68-16, for this discharge. The Regional Board finds that the stormwater discharges are consistent with the federal and state antidegradation requirements and a complete antidegradation analysis is not necessary.
25. The Regional Board has notified the dischargers and interested agencies and persons of its intent to issue waste discharge requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.
26. The Regional Board, in a public hearing, heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED that the dischargers, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act, as amended, and regulations and guidelines adopted thereunder, shall comply with the following:

I. RESPONSIBILITIES OF PRINCIPAL PERMITTEE

The principal permittee shall be responsible to manage the program overall, including:

1. Administer the San Bernardino County Flood Control Act.
2. Conduct water quality and hydrographic monitoring of the storm drain system outfalls as agreed upon by the Executive Officer.
3. Develop uniform criteria for storm drain system inspections.
4. Conduct inspections of the storm drain systems within its jurisdiction.
5. Implement management programs, monitoring programs, and implementation plans within its jurisdiction as required by this order.

I. RESPONSIBILITIES OF PRINCIPAL PERMITTEE - CONT'D

6. Prepare and submit to the Regional Board all the reports, plans, and programs as required in this order.
7. Monitor the implementation of the plans and programs and determine their effectiveness in attaining water quality objectives.
8. Coordinate all the activities with the Regional Board.
9. Enact legislation and ordinances as necessary to establish legal authority.
10. Obtain public input² for any proposed management and implementation plans.
11. Pursue enforcement actions as necessary to ensure compliance with stormwater management programs and implementation plans.
12. Respond to emergency situations such as accidental spills, leaks, illegal discharges/illicit connections etc. to prevent or reduce the discharge of pollutants to storm drain systems and waters of the United States.

II. RESPONSIBILITIES OF THE CO-PERMITTEES

The co-permittees shall be responsible to manage the program within its jurisdiction, including:

1. Administer the county and city ordinances.
2. Conduct storm drain system inspections in accordance with the uniform criteria developed by the principal permittee.
3. Conduct and coordinate with the principal permittee any surveys and characterizations needed to identify the pollutant sources and drainage areas.
4. Review and approve management programs, monitoring programs, and implementation plans.

² Public input is demonstrated by: (1) disseminating the notice of availability of plans for review and comment to the public at large, environmental groups, federal, state and local agencies and other interested parties; and, (2) addressing concerns expressed by the public.

II. RESPONSIBILITIES OF THE CO-PERMITTEES - CONT'D

5. Implement management programs, monitoring programs, and implementation plans within each respective jurisdiction as required by this order.
6. Submit storm drain system maps to the principal permittee with periodic revisions as necessary.
7. Prepare and submit all reports to the principal permittee in a timely manner.
8. Enact legislation and ordinances as necessary to establish legal authority.
9. Pursue enforcement actions as necessary to ensure compliance with the stormwater management programs and the implementation plans.
10. Respond to emergency situations such as accidental spills, leaks, illegal discharges/illicit connections, etc. to prevent or reduce the discharge of pollutants to storm drain systems and waters of the United States.

III. GENERAL REQUIREMENTS

1. The dischargers shall prohibit illegal discharges from entering into the municipal storm drain systems. Discharges conditionally allowed to enter storm drain systems are specified in Item V.7.
2. The dischargers shall develop and implement best management practices (BMPs) to control discharge of pollutants to the maximum extent practicable³ to waters of the United States. The BMPs so developed, along with a time schedule for implementation, shall be submitted for the approval of and/or modification by the Executive Officer of the Regional Board. In developing the best management practices, the dischargers shall consider the water quality objectives of all the receiving water bodies.

³ Maximum Extent Practicable (MEP) means to the maximum extent possible, taking into account equitable considerations of synergistic, additive, and competing factors, including but not limited to, gravity of the problem, fiscal feasibility, public health risks, societal concern, and social benefits.

IV. COMPILATION AND SUBMITTAL OF EXISTING DATA

1. Runoff Quality/Quantity

The dischargers shall collectively submit all quantitative information, generated since 1980 or earlier where better information exists, on stormwater discharges to the storm drain systems. This information will be used to facilitate the identification of sources of pollutants present in the stormwater discharges and to develop an effective discharge monitoring program for this order. Information to be submitted shall include the following:

- a. Any historical averages and extreme data for stormwater discharges;
- b. Any analytical and flow data for stormwater samples collected from the storm drain system outfalls and for any waters of the United States;
- c. Precipitation data from the precipitation stations and the duration of the storm events (if available);
- d. Discharge data from the storm drain systems as determined from the gaging stations; and
- e. Analysis of the data and the major pollutants identified in the stormwater discharges from each drainage area to waters of the United States and a determination whether the identified pollutants came from non-point source or point-source discharges.

2. System/Drainage Area Characterization

The dischargers shall submit information to the Regional Board for identification and characterization of the sources of pollutants in the stormwater discharges. The following information shall be provided:

- a. An identification of all land use activities (e.g. divisions indicating undeveloped, residential, agricultural, commercial, and industrial uses) in each drainage area and a map showing the land use divisions and storm drain systems in each drainage area.
- b. The locations of the storm drain outfalls discharging to waters of the United States. The name of each receiving water body shall be reported and the location of each outfall shall be indicated on a map.

IV. COMPILATION AND SUBMITTAL OF EXISTING DATA - CONT'D

- c. An identification of the major outfalls⁴. The locations of the major storm drain outfalls shall be distinguished from other storm drain outfalls as shown on a map in Item 1.b., above.
- d. The sizes of these drainage areas (acreage) and the sizes (pipe diameters or approximate dimensions of the storm drain systems) and physical characteristics of the storm drain systems associated with major outfalls. These physical characteristics shall include, but not be limited to, whether the storm drain channel is lined or unlined and whether it has intermittent or continuous flow.
- e. An estimate of a runoff coefficient⁵ for each drainage area associated with a major outfall shall be provided.
- f. The names, addresses, and Standard Industrial Codes (SIC) of specific industrial sources (both privately or publicly owned industrial facilities) in each drainage area discharging to the storm drain systems or waters of the United States. The point of connection of each specific industrial source to the storm drain systems or waters of the United States shall be located on a map.
- g. The locations of major structural controls (e.g. retention basins, detention basins, recharge basins, oil/water separators, swales, wetlands, and siltation basins) for stormwater discharges.

⁴ A major storm drain outfall is an outfall of a storm drain channel that receives stormwater discharges from a) a drainage area of 50 acres or from b) an industrially used land of 2 acres, or an outfall that c) associated with a storm drain channel of 36-inch in pipe diameter or equivalent which receives stormwater discharges from a drainage area or an outfall that d) associated with a storm channel of 12-inch in pipe diameter or equivalent which receives stormwater discharges from an industrially used land.

⁵ Runoff coefficient means the fraction of total rainfall that will appear at a conveyance as runoff.

IV. COMPILATION AND SUBMITTAL OF EXISTING DATA - CONT'D

3. Illegal Discharges/Illicit Connections

- a. The dischargers shall provide a list of dischargers (permitted and unpermitted) known to exist currently who discharge process or non-process wastewater to the storm drain systems. The dischargers shall also provide any existing procedures used for detecting illegal discharges/illicit connections to the storm drain systems, the rationale for the procedures, and the drainage areas (or cities) in which these programs are practiced; and
- b. A description of the present and historic use of ordinances or other controls to prohibit the illegal discharges/illicit connections to storm drain systems.

4. Stormwater Management Program

A description of the existing stormwater/urban runoff management programs and structural and non-structural BMPs implemented by the dischargers.

5. Stormwater/Urban Runoff Monitoring Program

A description of the existing monitoring programs and the rationale for their selection.

6. Pollutant Information

The dischargers shall provide information regarding the discharge of any pollutant required under 40 CFR 122.21(g)(7)(iii) and (iv).

7. Other Pertinent Existing Information

The dischargers shall provide to the Regional Board any other existing information that is pertinent to this permit.

8. The dischargers shall submit the above information, IV.1. - IV.7., for various water bodies within the project area in accordance with the following schedule:

IV. COMPILATION AND SUBMITTAL OF EXISTING DATA - CONT'D

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	10/31/91
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	06/30/92
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	11/30/92

V. RECONNAISSANCE SURVEY

1. The dischargers shall submit information from a reconnaissance survey to be conducted at the storm drain systems. The purpose of the survey is to identify illegal discharges/illicit connections to the storm drain systems. The reconnaissance survey field manuals and implementation plans for prosecuting violators and eliminating illegal discharges so developed, along with time schedules for implementation, shall be submitted for the approval of and/or modification by the Executive Officer of the Regional Board.
2. A proposed reconnaissance survey field manual, including a time schedule, for each phase shall be submitted for approval and/or modification by the Executive Officer of the Regional Board according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	04/30/92
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	01/31/93
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	07/31/93

V. RECONNAISSANCE SURVEY - CONT'D

3. The discharger shall implement the reconnaissance survey field manual after consideration of public comments and approval/modification of the manual by the Executive Officer of the Regional Board. The reconnaissance survey progress reports for each phase shall be submitted according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	04/30 of each year ⁶
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	01/31 of each year ⁷
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	07/31 of each year ⁸

4. The reconnaissance survey progress report shall contain the following information:
- a. Results of the reconnaissance survey, including an analysis of the results.
 - b. Additional information that would lead to isolating and identifying sources of illegal discharges/illicit connections to the storm drain systems. Such information should include, but is not limited to, visual observations (e.g. color, turbidity, odor, etc), major land use activities in the surrounding drainage areas, seasonal change of flow, the surrounding hydrogeologic formation, etc.
 - c. A listing of any identified or suspected illegal dischargers including the names, locations, and types of the facilities and the names of the storm drain systems and receiving waters the illegal discharges are discharged to.

⁶ The first progress report is due by April 30, 1993.

⁷ The first progress report is due by January 31, 1994.

⁸ The first progress report is due by July 31, 1

V. RECONNAISSANCE SURVEY - CONT'D

- 4. d. A listing of large industrial facilities (with more than 100 employees) where hazardous/toxic substances are stored and/or used, landfills, hazardous waste disposal, treatment, and/or recovery facilities, and any known spills, leaks or other problems in the area.
- e. A discussion on all activities, related to the survey, conducted for the past 12 months.
- 5. The dischargers shall submit a proposed implementation plan, including a tentative time schedule, for each phase to prosecute violators and eliminate such discharges to the storm drain systems. The proposed plan shall also include a description of the legal authorities for prosecuting violators and eliminating or controlling illicit disposal practices and illegal discharges to the storm drain systems, and a proposed time schedule for obtaining such legal authorities, if necessary. The dischargers shall submit the proposed implementation plans according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	10/31/92
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	07/31/93
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	01/31/94

- 6. The dischargers shall implement the program for prosecuting violators and eliminate illegal discharges to the storm drain systems after consideration of public comments and approval/modification of the program by the Executive Officer of the Regional Board. The dischargers shall submit the progress reports, evaluating the effectiveness of the plan in detecting and eliminating illegal discharges to the storm drain systems, for each phase according to the following schedule:

V. RECONNAISSANCE SURVEY - CONT'D

6. (cont'd)

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	10/31 of each year ⁹
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	07/31 of each year ¹⁰
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	01/31 of each year ¹¹

7. The permittees shall effectively eliminate all identified illegal discharges/illicit connections in the shortest time practicable, and in no case later than October 1, 1995. Those illegal discharges/illicit connections identified after October 1, 1995 shall be eliminated in the shortest time practicable. The following discharges shall not be considered illegal discharges provided the discharges do not cause or contribute to violations of water quality standards and are not significant contributors of pollutants to waters of the United States: discharges composed entirely of stormwater, discharges covered under NPDES permits or waivers/clearances such as discharges to storm drain systems from potable water line flushing, diverted stream flows, discharges from potable water sources, dechlorinated swimming pool discharges, and air conditioning condensate, discharges from fire fighting, landscape irrigation, rising groundwaters (not including active dewatering systems), groundwater infiltration as defined at 40 CFR 35.2005(20), passive foundation drains (not including active groundwater dewatering), irrigation water, water from crawl space pumps, passive footing drains (not including active groundwater dewatering systems), lawn watering, individual residential vehicle

⁹ The first progress report is due by October 31, 1993.

¹⁰ The first progress report is due by July 31, 1994.

¹¹ The first progress report is due by January 31, 1995.

V. RECONNAISSANCE SURVEY - CONT'D

7. (cont'd)

washing, flows from riparian habitats and wetlands, street wash waters related to cleaning and maintenance by permittees, or waters not otherwise containing wastes as defined in California Water Code Section 13050 (d). If it is determined that any of the preceding discharges cause or contribute to violations of water quality standards or are significant contributors of pollutants to waters of the United States, the permittees shall prohibit these discharges from entering storm drain systems.

VI. DRAINAGE AREA MANAGEMENT PROGRAM

1. The dischargers shall develop and implement best management practices (BMPs) to control the discharge of pollutants to waters of the United States. The discharger shall submit information pertaining to the proposed stormwater system management programs for approval of and/or modification by the Executive Officer of the Regional Board. The information shall include, but need not be limited to, the following:
 - a. A brief description of any existing BMPs and stormwater management programs.
 - b. Proposed modifications to the existing BMPs and stormwater/urban runoff management programs to reduce pollutants in the stormwater discharges from industrial, commercial, and residential areas to the maximum extent practicable. At a minimum, the following shall be considered in developing the BMPs:

Structural Controls

- i. For the permitted area, wherever appropriate, structural controls such as first flush diversion, detention/retention basins, infiltration trenches/basins, porous pavement, oil/grease separators, grass swales, wire concentrators, etc.

VI. DRAINAGE AREA MANAGEMENT PROGRAM - CONT'D

Non-Structural Controls

- ii. Programs to educate the public on proper disposal of hazardous/toxic wastes. These may include public workshops, meetings, notifications by mail, collection programs for household hazardous wastes, etc.
 - iii. Management practices such as street sweeping, proper maintenance of streambanks, erosion control structures, etc.
 - iv. Regulatory approaches such as county and local ordinances, permitting of construction sites, etc.
 - v. Enforcement programs, established by the county and cities, including response to emergency incidents, field inspections, and identification and elimination of illegal discharges/illicit connections to the storm drain systems.
- c. An implementation plan for site-specific BMPs which are required to reduce pollutants in the stormwater discharges from residential, commercial and industrial areas, and construction sites. Requirements for the implementation of BMPs at these sites are described below:
- i. New Construction Sites

Runoff from construction sites has the potential to adversely impact the quality of waters of the United States. A full range of structural and non-structural BMPs shall be required at new construction sites. All industrial/commercial construction operations that result in a disturbance of one acre or more of total land area (or a smaller parcel of land which is a part of a larger common development) and residential construction sites that result in a disturbance of five acres or more of total land area (or a smaller parcel of land which is a part of a larger common development) shall be required to develop and implement BMPs, including a long term funding mechanism and commitment to support required maintenance of the BMPs, to control erosion/siltation and contaminated runoff from the construction sites.

VI. DRAINAGE AREA MANAGEMENT PROGRAM - CONT'D

ii. Residential and Commercial/Industrial Sites

Numerous studies have shown that runoff from residential and commercial/industrial areas has contributed a number of pollutants to waters of the United States. As development progresses, the percentage of paved surface increases, the rate of runoff increases, and the amount of pollutants in the runoff also increases. To prevent the increase of pollutants in the stormwater discharges, all new developments and existing facilities with significant redevelopment, irrespective of their size, must develop individual comprehensive, long-term, post construction stormwater management plans, incorporating structural and non-structural BMPs. These management plans shall include a long term funding mechanism and commitment to support required maintenance of the BMPs.

- d. A description of the legal authorities for implementing the programs, and a proposed time schedule for obtaining such legal authorities, if necessary.
- e. A description of staff, equipment, and funds available to implement the programs.

2. The dischargers shall submit the BMPs so developed, along with a time schedule for implementation, for the approval of and/or modification by the Executive Officer of the Regional Board according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	10/31/92
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	04/30/93
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	07/31/93

VI. DRAINAGE AREA MANAGEMENT PROGRAM - CONT'D

3. The dischargers shall implement the BMPs and other stormwater management programs after consideration of public comments and approval/modification of the programs by the Executive Officer of the Regional Board. The dischargers shall submit a progress report for each phase, assessing the reduction of pollutants discharged to waters of the United States and evaluating the effectiveness of the BMPs developed for the stormwater discharges. The dischargers shall also include recommended BMP modifications, with a time schedule for implementation, needed to achieve compliance with any water quality objectives not attained. The progress reports shall be submitted according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reach), Baldwin Lake, and Big Bear Lake.	10/31 of each year ¹²
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	04/30 of each year ¹³
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	07/31 of each year ¹⁴

¹² The first progress report is due by October 31, 1993.

¹³ The first progress report is due by April 30, 1994.

¹⁴ The first progress report is due by July 31, 1994.

VII. STORMWATER SYSTEM MONITORING PROGRAM

1. The dischargers shall submit a stormwater system monitoring program for approval of and/or modification by the Executive Officer. The objectives of the stormwater system monitoring program are:
 - a. To define the type, magnitude (concentration and mass load), and sources of pollutants in the stormwater system discharges within each permittee's respective jurisdiction so that appropriate pollution prevention and correction measures can be identified;
 - b. To evaluate the effectiveness of pollution prevention and correction measures; and
 - c. To evaluate the compliance with water quality objectives established for the stormwater system or its components.
2. At a minimum, the stormwater system monitoring program shall include the following:
 - a. A brief description of the existing monitoring programs.
 - b. For both storm and non-storm conditions, sampling of the stormwater system discharges at major and representative outfalls discharging to waters of the United States to determine the pollutant loading rates to each receiving water body listed in Attachment "E".
 - c. For both storm and non-storm conditions, a description of the number of monitoring stations, the locations of these monitoring stations, and the rationale for their selection.
 - d. For both storm and non-storm conditions, a description of the physical, chemical, and biological parameters selected for analysis, the method of analysis, the type of sampling, and the sampling frequency proposed. The rationale for each of these selections shall be provided.
 - e. Monitoring of the stormwater system discharges to identify illicit connections shall be conducted.
 - f. Quality assurance and quality control plans for the stormwater system monitoring program shall be submitted.

VII. STORMWATER SYSTEM MONITORING PROGRAM - CONT'D

- g. A data base that consolidates all monitoring information shall be maintained.
 - h. A description of the staff, equipment, and funds available to implement the monitoring program shall be provided.
 - i. A description of the legal authorities for implementing the program, and a proposed time schedule for obtaining such legal authorities (if necessary) shall be provided.
3. The dischargers shall submit the stormwater monitoring program so developed for each phase, along with a time schedule, for various water bodies in the project area according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	01/31/93
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	10/31/93
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	04/30/94

4. The dischargers shall implement the stormwater system monitoring program after consideration of public comments and approval/modification of the program by the Executive Officer of the Regional Board. The dischargers shall submit a report for each phase on progress towards implementation of the approved monitoring program according to the following schedule:

VII. STORMWATER SYSTEM MONITORING PROGRAM - CONT'D

4. (cont'd)

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches), Baldwin Lake, and Big Bear Lake.	01/31 of each year ¹⁵
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	10/31 of each year ¹⁶
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	04/30 of each year ¹⁷

VIII. RECEIVING WATER MONITORING PROGRAM

1. The dischargers shall develop a receiving water monitoring program to assess the effects of pollutants from the stormwater system discharges on receiving water bodies, and to evaluate compliance with water quality objectives of the receiving water bodies. All the water bodies listed in Attachment "E" shall be addressed. The receiving water monitoring program shall be coordinated with the stormwater system monitoring program required under Section VII such that the aforesated objectives of the receiving water monitoring program will be achieved.
2. At a minimum, the receiving water monitoring program shall include the following:
 - a. A brief description of any existing monitoring programs.
 - b. A description of the number of monitoring stations, the location of these monitoring stations, and the rationale for their selection.

¹⁵ The first progress report is due by January 31, 1994.

¹⁶ The first progress report is due by October 31, 1994.

¹⁷ The first progress report is due by April 30, 1995.

VIII. RECEIVING WATER MONITORING PROGRAM

- c. A description of the physical, chemical and biological parameters selected for analysis, the type of sampling, and the sampling frequency proposed. The rationale for each of these selections shall be provided.
 - d. Quality assurance and quality control plans for the receiving water monitoring program.
 - e. Maintenance of a data base that consolidates all monitoring information. This data base shall be coordinated with the data base required for the stormwater system monitoring program (VII.2.g.).
3. The dischargers shall submit the receiving water monitoring programs for various water bodies within the project area according to the following schedule:

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	01/31/93
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	10/31/93
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	04/30/94

4. The dischargers shall implement the receiving water monitoring program after consideration of public comments and approval/modification of the program by the Executive Officer of the Regional Board. The discharger shall submit a report for each phase on progress towards implementation of the approved receiving water monitoring program according to the following schedule:

VIII. RECEIVING WATER MONITORING PROGRAM

<u>Phase</u>	<u>Description of Water Body</u>	<u>Compliance Report Due</u>
I	SAR, Reaches 4 & 5, other streams draining to SAR, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches).	01/31 of each year ¹⁸
II	San Timoteo Creek, Reaches 1 & 2, Oak Glen, Potato Canyon and Birch Creeks, and Yucaipa Creek.	10/31 of each year ¹⁹
III	SAR, Reach 6, San Bernardino Mountain Streams, Jenks Lake, Baldwin Lake, and Big Bear Lake.	04/30 of each year ²⁰

IX. FISCAL ANALYSIS

1. By July 31 of each year, a fiscal analysis of the capital and operation and maintenance expenditures necessary to accomplish the activities of the proposed plans and programs shall be performed.
2. By August 31, 1991 and every year thereafter, a fiscal analysis of the capital and operation and maintenance expenditures shall be submitted for review by EPA and the Regional Board.

X. DATA ANALYSIS

1. For the stormwater system monitoring program, the results of the chemical analysis and quantitative data (such as flow, precipitation, and discharge data) shall be compiled for each drainage area, each storm event, and for different times during the same storm event. The mass loading rates for the pollutants of concern shall be calculated.

¹⁸ The first progress report is due by January 31, 1994.

¹⁹ The first progress report is due by October 31, 1994.

²⁰ The first progress report is due by April 30, 1995.

X. DATA ANALYSIS - CONT'D

2. An evaluation shall be performed for the calculated mass loading rates from the stormwater system monitoring program and the receiving water monitoring program. Any impact of the discharges from the stormwater systems on the receiving waters shall be discussed, starting with the most significantly impacted receiving water bodies. The evaluation shall be concluded with recommendations and the corrective actions proposed for any resulting discrepancies.
3. By January 31, 1994 and every year thereafter, the analysis of all the above data shall be submitted.

XI. PROGRAM ANALYSIS

1. The principal permittee shall conduct an analysis of the effectiveness of the overall stormwater management program. If the water quality objectives of the receiving waters are violated as a result of stormwater/urban runoff discharges, the principal permittee shall identify proposed programs which will result in the attainment of the water quality objectives, and a time schedule to implement the new programs.
2. By March 31, 1994 and every year thereafter, the analysis of the overall program and any proposed programs, to achieve compliance with water quality objectives of water bodies that have not been attained, shall be submitted.

XII. REPORTING

1. All reports shall be signed by the "principal permittee" or duly authorized representative of the dischargers and shall be submitted to EPA and the Regional Board under penalty of perjury.
2. A signed copy of the Implementation Agreement between the SBCFCD, the County of San Bernardino, and the cities shall be submitted by April 30, 1991. Any revisions to the Implementation Agreement shall be forwarded to the Executive Officer within 30 days of approval by all the dischargers.
3. Other reports and information required to be submitted to the Regional Board under the requirements specified above shall be reported in accordance with the following schedule:

XII. REPORTING

3. A. Phase I

<u>TASK</u>	<u>COMPLIANCE REPORT DUE</u>
a. Existing reports and programs IV.1.-IV.7.	10/31/91
b. Proposed Reconnaissance Survey Field Manual - V.2.	04/30/92
c. Proposed Implementation Plan for Prosecuting Illegal Dischargers - V.4.	10/31/92
d. Management Programs (BMPs) and Implementation Plan - VI.1.- VI.2.	10/31/92
e. Stormwater Monitoring Program VII.1. - VII.3	01/31/93
f. Receiving Water Monitoring Program VIII.1. - VIII.3.	01/31/93
g. Progress Reports after Plan Implementation	
i. Reconnaissance Survey Progress Report - V.3.	04/31 of each year ²¹
ii. Illegal Discharges - V.5.	10/31 of each year ²²
iii. Management Programs - VI.3.	10/31 of each year ²³
iv. Stormwater Monitoring Program VII.4.	01/31 of each year ²⁴
v. Receiving Water Monitoring Program VIII.4.	01/31 of each year ²⁵

²¹ The first progress report is due by April 30, 1993.

²² The first progress report is due by October 31, 1993.

²³ The first progress report is due by October 31, 1993.

²⁴ The first progress report is due by January 31, 1994.

²⁵ The first progress report is due by January 31, 1994.

XII. REPORTING - CONT'D

3. B. Phase II

<u>TASK</u>	<u>COMPLIANCE REPORT DUE</u>
a. Existing reports and programs IV.1. - IV.7.	06/30/92
b. Proposed Reconnaissance Survey Field Manual - V.2.	01/31/93
c. Proposed Implementation Plan for Prosecuting Illegal Dischargers - V.4.	07/30/93
d. Management Programs (BMPs) and Implementation Plan - VI.1.- VI.2.	04/30/93
e. Stormwater Monitoring Program VII.1.- VII.3.	10/31/93
f. Receiving Water Monitoring Program VIII.1. - VIII.3.	10/31/93
g. Progress Reports after Plan Implementation	
i. Reconnaissance Survey Progress Report - V.3.	01/31 of each year ²⁶
ii. Illegal Discharges - V.5.	07/31 of each year ²⁷
iii. Management Programs - VI.3.	04/30 of each year ²⁸
iv. Stormwater System Monitoring Program VII.4.	10/31 of each year ²⁹
v. Receiving Water Monitoring Program VIII.4.	10/31 of each year ³⁰

²⁶ The first Progress report is due by January 31, 1994.

²⁷ The first progress report is due by July 31, 1994.

²⁸ The first progress report is due by April 30, 1994.

²⁹ The first progress report is due by October 31, 1994.

³⁰ The first progress report is due by October 31, 1994.

XII. REPORTING - CONT'D

3. C. Phase III

<u>TASK</u>	<u>COMPLIANCE REPORT DUE</u>
a. Existing reports and programs IV.1. - IV.7.	11/30/92
b. Proposed Reconnaissance Survey Field Manual - V.2.	07/31/93
c. Proposed Implementation Plan for Prosecuting Illegal Dischargers - V.4.	01/31/94
d. Management Programs (BMPs) and Implementation Plan - VI.1.- VI.2.	07/31/93
e. Stormwater Monitoring Program VII.1.- VII.3.	04/30/94
f. Receiving Water Monitoring Program VIII.1. - VIII.3.	04/30/94
g. Progress Reports after Plan Implementation	
i. Reconnaissance Survey Progress Report - V.3.	07/31 of each year ³¹
ii. Illegal Discharges - V.5.	01/31 of each year ³²
iii. Management Programs - VI.3.	07/31 of each year ³³
iv. Stormwater System Monitoring Program VII.4.	10/31 of each year ³⁴
v. Receiving Water Monitoring Program VIII.4.	10/31 of each year ³⁵

³¹ The first Progress report is due by July 31, 1994.

³² The first progress report is due by January 31, 1995.

³³ The first progress report is due by July 31, 1994.

³⁴ The first progress report is due by October 31, 1994.

³⁵ The first progress report is due by October 31, 1994.

XII. REPORTING - CONT'D

3. D. General Reporting

- a. Fiscal Analysis 08/31 of each year³⁶
- b. Data Analysis 01/31 of each year³⁷
- c. Program Analysis 03/31 of each year³⁸
- d. Compliance - Illegal Discharges See Item V.7.

XIII. EXPIRATION AND RENEWAL

- 1. This Order expires on October 1, 1995 and the discharger must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Code of Regulations not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements. This report of waste discharge shall include, but is not limited to, the following:
 - a. Summary of the results of the monitoring program.
 - b. Summary of the BMPs implemented and evaluations of their effectiveness.
 - c. Summary of procedures implemented to detect, identify, and eliminate illegal discharges and illicit disposal practices and an evaluation of their effectiveness.
 - d. Summary of enforcement procedures and actions taken to require stormwater dischargers to comply with the approved stormwater management programs.
 - e. Summary of measures implemented to control pollutants in surface runoff from construction sites and an evaluation of their effectiveness.
 - f. Evaluation of the need for additional BMPs, source control, and/or structural control measures.

³⁶ The first annual fiscal analysis is due by August 31, 1991.

³⁷ The first data/program analysis is due by January 31, 1994.

³⁸ The first program analysis is due by March 31, 1994.

XIII. EXPIRATION AND RENEWAL- CONT'D

1. (cont'd)

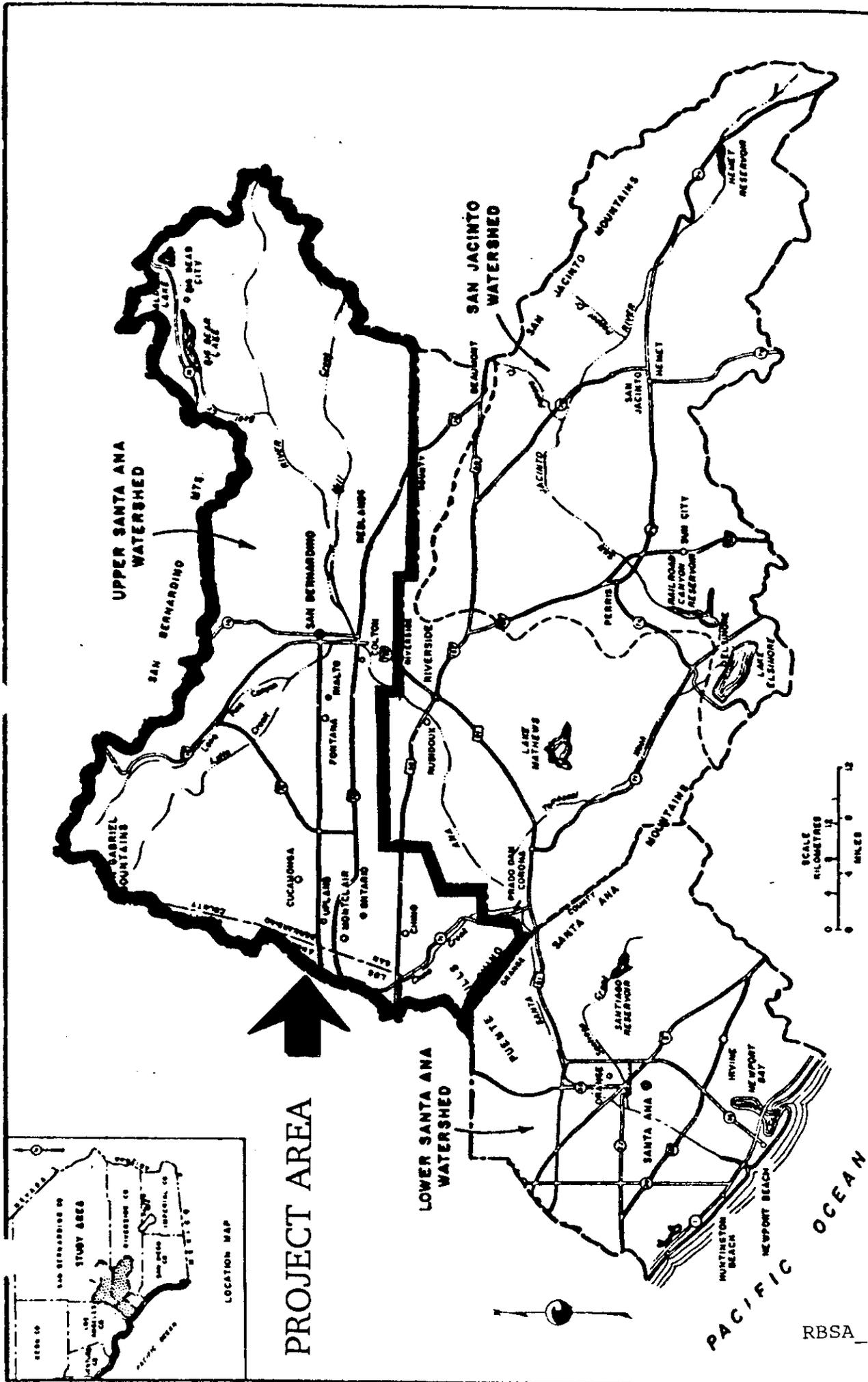
- g. Proposed plan of stormwater/urban runoff quality management activities that will be undertaken during the term of the next permit.
- h. Any significant changes to the storm drain systems, outfall locations, detention/retention basins, and structural/non-structural controls.

2. This order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Clean Water Act, or amendments thereto, and shall become effective 10 days after date of its adoption, provided that the Regional Administrator of the Environmental Protection Agency has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on October 19, 1990.



Gerard J. Thibeault
Executive Officer



SANTA ANA PLANNING AREA

FIGURE 1 -

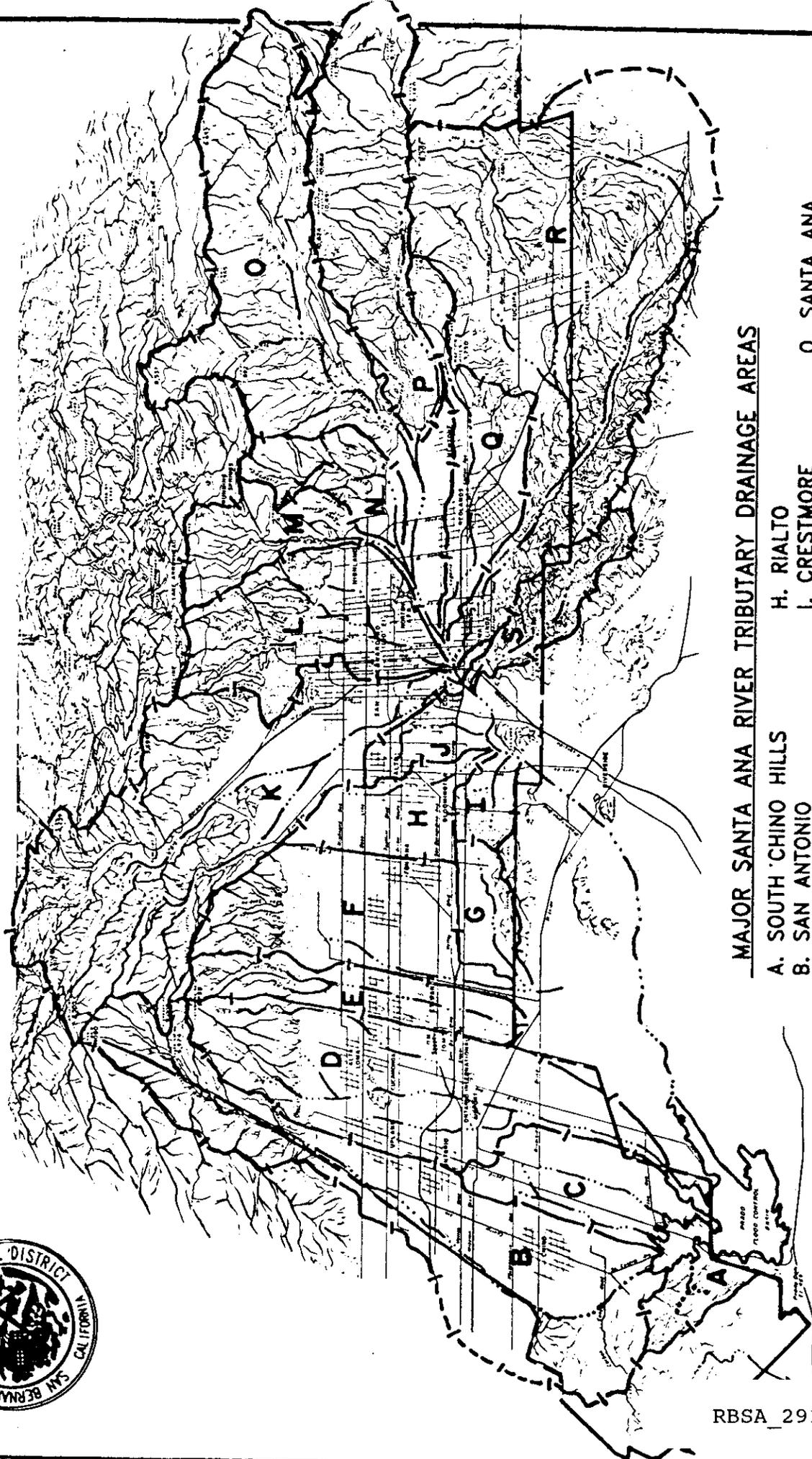
WATER RESOURCES, SOUTHERN DISTRICT, 1982

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04/81

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT MAP OF UPPER SANTA ANA RIVER WATERSHED



MAJOR SANTA ANA RIVER TRIBUTARY DRAINAGE AREAS

- | | | |
|-------------------------|----------------|----------------|
| A. SOUTH CHINO HILLS | H. RIALTO | O. SANTA ANA |
| B. SAN ANTONIO | I. CRESTMORE | P. MILL |
| C. CYPRESS/GROVE | J. WEST COLTON | Q. ZANJA |
| D. CUCAMONGA/DEER | K. LYTLE/CAJON | R. SAN TIMOTEO |
| E. DAY | L. TWIN/WARM | S. RECHE |
| F. ETIWANDA/SAN SEVAINE | M. CITY CREEK | |
| G. DECLEZ | N. PLUNGE | |

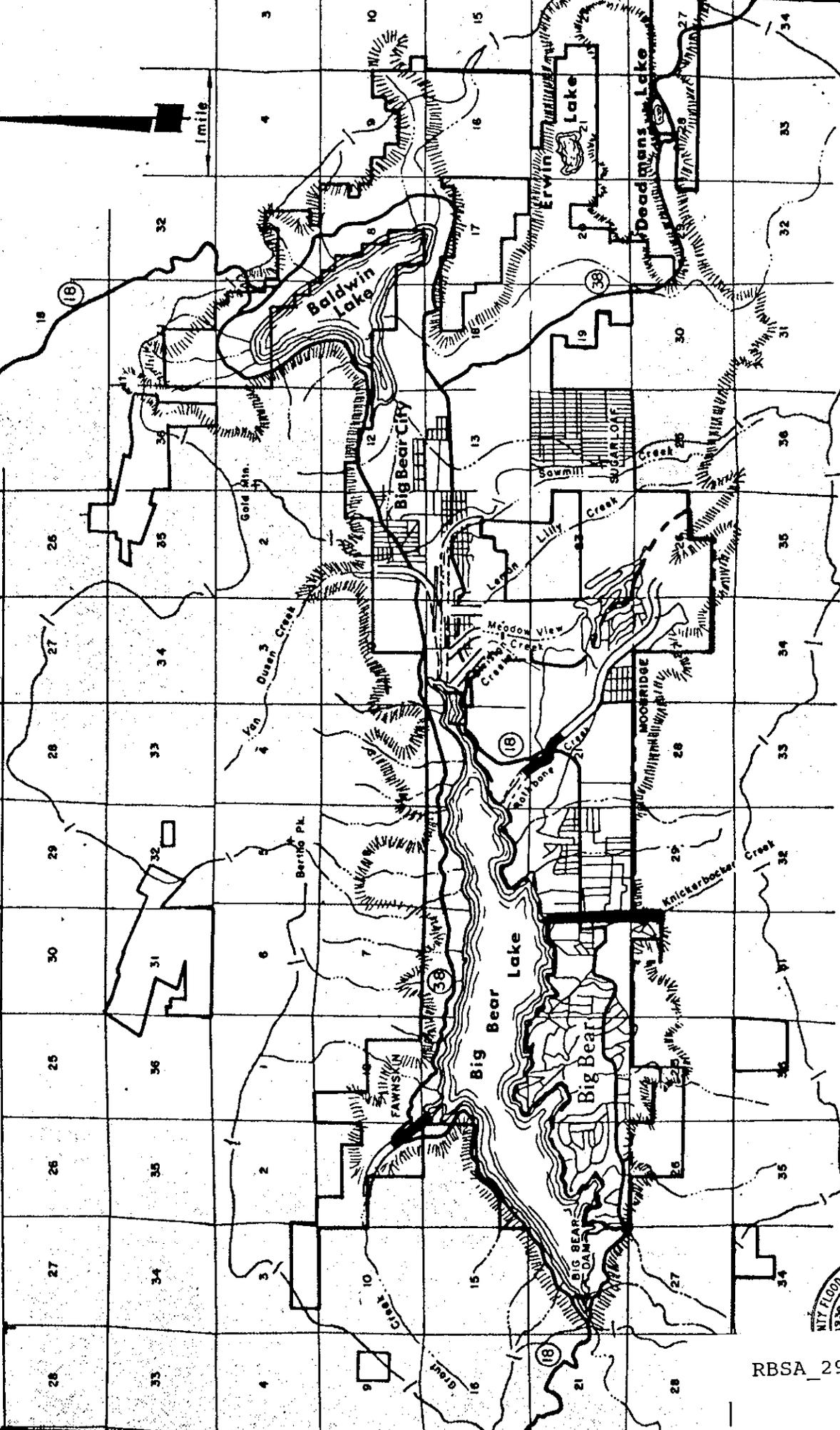
MAP BY SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
DO NOT BE REPRODUCED WITHOUT PERMISSION

Attachment "B"
Order No. 90-136 (NPDES No. CA 8000200)
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San Bernardino County Flood Control District

- LEGEND**
- Existing F.C.D. Channel
 - U.S. Lands
 - Existing Non-System Channel
 - Proposed Flood Control Channel
 - Watercourse



Big Bear Drainage Masterplan

Attachment "B"
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CITY LIMITS
 Drainage Masterplan Map 13



RBSA_29126

POPULATION ESTIMATES FOR CITIES AND UNINCORPORATED AREAS OF
 SAN BERNARDINO COUNTY WITHIN THE SANTA ANA RIVER BASIN

<u>CLTY</u>	<u>1990 POPULATION ESTIMATE</u>
Big Bear Lake	6,640
Chino	59,620
Colton	39,730
Fontana	87,380
Grand Terrace	11,420
Highland	32,760
Loma Linda	15,560
Montclair	27,110
Ontario	129,290
Rancho Cucamonga	114,950
Redlands	62,940
Rialto	70,330
San Bernardino	159,920
Upland	64,970
Yucaipa	28,360
Unincorporated Area	188,430
Total	<hr/> 1,099,410

Attachment "C"
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 NPDES No. CA 8000200
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LIST OF OTHER ENTITIES WITH THE POTENTIAL TO DISCHARGE POLLUTANTS
TO STORMWATER FACILITIES

Government Agencies

U.S. Army Corps of Engineers
Department of the Air Force - Norton Air Force Base
U. S. Forest Service - San Bernardino National Forest
California Department of Transportation (CalTrans)
California Parks Department - Chino Hills State Park

Hospitals

Bear Valley Community Hospital
Chino Community Hospital
Doctors Hospital
Kaiser Foundation Hospital
Loma Linda Community Hospital
Loma Linda University Medical Center
Mountains Community Hospital
Ontario Community Hospital
Patton State Hospital
Pettis Memorial V. A. Hospital
Redlands Community Hospital
Saint Bernardine,s Hospital
San Antonio Community Hospital
San Bernardino Community Hospital
San Bernardino County Hospital

Railroads

AT&SF Railway Company
Southern Pacific Railroad Company

School Districts

Alta Loma Elementary School District
Bear Valley Unified School District
Central Elementary School District
Chaffey Joint Union High School District
Chino Unified School District
Colton Joint Unified School District
Cucamonga Elementary School District
Etiwanda Elementary School District
Fontana Unified School District
Mountain View Elementary School District
Mt. Baldy Joint Elementary School District
Ontario-Montclair Elementary School District
Rialto Unified School District
Rim of the World Unified School District
Redlands Unified School District
San Bernardino City Unified School District
Upland Unified School District
Yucaipa Joint Unified School District

Universities and Colleges

California State University San Bernardino
Chaffey College
Crafton Hills College
San Bernardino Valley College

Water Districts

Big Bear Municipal Water District
Chino Basin Municipal Water District
Cucamonga County Water District
East Valley Water District
Monte Vista Water District
San Bernardino County Waterworks District No. 8
San Bernardino Valley Municipal Water District
South San Bernardino Water District
West San Bernardino County Water District
Yucaipa Valley Water District

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

INLAND SURFACE STREAMS - Continued

UPPER SANTA ANA RIVER BASIN

Santa Ana River

Reach 3- Prado Dam to Mission Blvd. in Riverside

Reach 4- Mission Blvd. in Riverside to San Jacinto Fault in San Bernardino

Reach 5- San Jacinto Fault to Confluence with Bear Creek

Reach 6- Confluence with Bear Creek to Headwaters (See also Individual Tributary Streams)

San Bernardino Mountain Streams

Mill Creek Drainage:

Mill Creek:

Reach 1- Confluence with Santa Ana River to Bridge Crossing Route 38 at Upper Powerhouse

Reach 2- Bridge Crossing Route 38 at Upper Powerhouse to Headwaters

Mountain Home Creek

Mountain Home Creek, East Fork

Monkey Face Creek

Alger Creek

Falls Creek

Vivian Creek

High Creek

Other Tributaries: Lost, Oak Cove, Green, Skinner, Momyer and Glen Martin Creeks, and other Tributaries to these Creeks

MUN	AGR	IND	PROD	GRV	NAV	POW	REC1	REC2	COM	WAR	COL	BIO	WIL	RAE	SPW	MAR	SHE
	X			X			X	X		X			X				
			X	X			X	X		X			X				
	X	X		I		X	X	X		I	X		X				
	X	X		X			X	X			X		X		X		
	I	I		I			I	I			I		I				
	X	X		X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	X			X		X	X	X			X		X				
	I			I			I	I			I		I				

+ Excepted from MUN by Reg. Bd. Res. 89-42

X= Present or Potential Beneficial Use
I= Intermittent Beneficial Use

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

INLAND SURFACE STREAMS - Continued

UPPER SANTA ANA RIVER BASIN - Continued

San Bernardino Mountain Streams - Continued

Bear Creek Drainage:

Bear Creek

Siberia Creek

Slide Creek

All other Tributaries to these Creeks

Big Bear Lake (see Lakes, p. 2-13)

Big Bear Lake Tributaries:

North Creek

Metcalf Creek

Grout Creek

Rathbone (Rathbun) Creek

Other Tributaries to Big Bear Lake: Johnson, Minnelusa, Polique, and Red Ant Creeks, and other Tributaries to these Creeks

Baldwin Lake Drainage:

Baldwin Lake (see Lakes, p. 2-13)

Shay Creek

Other Tributaries to Baldwin Lake: Sawmill, Green, and Caribou Canyons and other Tributaries to these Creeks

M U N	A G R	I N D	P R O C	G W R	N A V	P O W	R E C 1	R E C 2	C O M M	W A R M	C O L D	B I O L	W I L D	R A R E	S P W N	M A R	S H E L
X	X			X		X	X	X			X		X		X		
X				X			X	X			X		X				
I				I			I	I			I		I				
I				I			I	I			I		I				
X				X			X	X			X		X		X		
X				X			X	X			X		X		X		
X				X			X	X			X		X		X		
X				X			X	X			X		X				
I				I			I	I			I		I				
X				X			X	X			X		X				
I				I			I	I			I		I				

X= Present or Potential Beneficial Use
I= Intermittent Beneficial Use

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

INLAND SURFACE STREAMS - Continued

UPPER SANTA ANA RIVER BASIN - Continued

Other Streams Draining to Santa Ana River
(Mountain Reaches)

Cajon Creek

City Creek

Devil Canyon Creek

East Twin and Strawberry Creeks

Waterman Canyon Creek

Fish Creek

Forsee Creek

Plunge Creek

Barton Creek

Bailey Canyon Creek

Kimbark Canyon, East Fork Kimbark Canyon, Ames Canyon and West Fork Cable Canyon Creeks

Valley Reaches of Above Streams

Other Tributaries (Mountain Reaches): Alder, Badger Canyon, Bledsoe Gulch, Borea Canyon, Breakneck, Cable Canyon, Cienega Seca, Cold, Converse, Coon, Crystal, Deer, Elder, Fredalba, Frog, Government, Hamilton, Heart Bar, Hemlock, Keller, Kilpecker, Little Mill, Little Sand Canyon, Lost, Meyer Canyon, Mile, Monroe Canyon, Oak, Rattlesnake, Round Cienega, Sand, Schneider, Staircase, Warm Springs Canyon and Wild Horse Creeks, and other tributary to these Creeks

M U N	A G R	I N D	P R O C	G W R	N A V	P O W	R E C 1	R E C 2	C O M M	W A R M	C O L D	B I O L	W I L D	R A R E	S P R N	M A R	S H E L
X				X			X	X			X		X				
X	X			X			X	X			X		X		X		
X				X			X	X			X		X				
X	X			X			X	X			X		X		X		
X				X			X	X			X		X				
X				X			X	X			X		X		X		
X				X			X	X			X		X		X		
X	X			X			X	X			X		X				
I				I			I	I			I		I				
X				X			X	X		X	X		X				
I				I			I	I		I			I				
I				I			I	I		I			I				

X= Present or Potential Beneficial Use
I= Intermittent Beneficial Use

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

INLAND SURFACE STREAMS - Continued

UPPER SANTA ANA RIVER BASIN - Continued

San Gabriel Mountain Streams
(Mountain Reaches)

San Antonio Creek

Lytle Creek (South, Middle and North Forks) and
Coldwater Canyon Creek

Day and East Etiwanda Creeks

Valley Reaches of Above Streams

Cucamonga Creek (Mountain Reach)

Cucamonga Creek (Valley Reach)

Other Tributaries (Mountain Reaches): San Sevaine,
Deer, Duncan Canyon, Henderson Canyon, Bull, Fan,
Demens, Thorpe, Angalls, Telegraph Canyon, Stoddard
Canyon, Icehouse Canyon, Cascade Canyon, Cedar,
Falling Rock, Kerkhoff and Cherry Creeks, and other
Tributaries to these Creeks

San Timoteo Area Streams

San Timoteo Creek

Reach 1- Santa Ana River Confluence to Gauge at San
Timoteo Canyon Road

Reach 2- Gauge at San Timoteo Canyon Road to
Confluence with Yucaipa Creek

Reach 3- Confluence with Yucaipa Creek to Section
24, T2S, R3W (Bunker Hill II Boundary)

Reach 4- Section 24, T2S, R3W (Bunker Hill II
Boundary) to Confluence with Little San
Gorgonio and Noble Creeks (Headwaters of
San Timoteo Creek)

Oak Glen, Potato Canyon and Birch Creeks

Little San Gorgonio Creek

Yucaipa Creek

Other Tributaries to these Creeks-
Valley Reaches

Other Tributaries to these Creeks-
Mountain Reaches

MUN	AUG	IND	PRO	GRV	NAV	POW	REC1	REC2	COM	WAR	COL	BLO	WLD	RAE	SPW	MAR	SHE
X	X	X	X	X		X	X	X			X		X				
X	X	X	X	X		X	X	X			X		X				
X			X	X			X	X			X		X				
I				I			I	I		I			I				
X		X	X	X		X	X	X			X		X		X		
+				I			I	I		I			I				
I				I			I	I			I		I				
+	X			X			X	X		X			X				
+	X			X			X	X		X			X				
+				X			X	X		X			X				
X				X			X	X		X			X				
X				X			X	X			X		X				
I				I			I	I		I			I				
I				I			I	I		I			I				
I				I			I	I			I		I				

+ Excepted from MUN by Reg. Bd. Res. 89-42 or 89-99

X= Present or Potential Beneficial Use
I= Intermittent Beneficial Use

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

INLAND SURFACE STREAMS - Continued

UPPER SANTA ANA RIVER BASIN - Continued

Prado Area Streams

MUN	AGR	IND	PROC	GW	NAV	POW	REC1	REC2	COMM	WAR	COL	BIO	WIL	RARE	SPWN	MAR	SHEL
				I			I	I		I			I				
			X				X	X		X			X				
	X	X	X				X ³	X		X			X				
	I	I	I				I	I		I			I				
	I		I				I	I		I			I				
	I		I				I	I		I			I				
			I				I	I		I			I				
X	X		X				X	X		X			X				
			I				I	I		I			I				
I			I				I	I		I			I				

+ Excepted from MUN by Reg. Bd. Res. 89-42
3 Access prohibited in some portions by Riverside County Flood Control

X= Present or Potential Beneficial Use
I= Intermittent of Potential Beneficial Use

TABLE 2-1
BENEFICIAL USES

Water Body

Beneficial Use

LAKES AND RESERVOIRS

UPPER SANTA ANA RIVER BASIN

- Baldwin Lake
- Big Bear Lake
- Evans Lake
- Jenks Lake
- Lee Lake
- Mathews, Lake
- Mockingbird Reservoir
- Norconian, Lake

LOWER SANTA ANA RIVER BASIN

- Anaheim lake
- Irvine lake (Santiago Reservoir)
- Laguna, Lambert, Peters Canyon,
Rattlesnake, Sand Canyon and Siphon Reservoirs

SAN JACINTO RIVER BASIN

- Canyon Lake (Railroad Canyon Reservoir)
- Elsinore, Lake
- Fulmor, Lake
- Hemet, Lake
- Perris, Lake

	MUN	AGR	IND	PRO	GRV	NAV	POW	REC1	REC2	COM	WAR	COL	BIO	WIL	RARE	SPW	MAR	SHEL
Baldwin Lake	+							I	I		I	I		I				
Big Bear Lake	X	X			X			X	X		X	X		X				
Evans Lake	+							X	X		X	X		X				
Jenks Lake	X	X			X			X	X			X		X				
Lee Lake	+	X	X		X			X	X		X			X				
Mathews, Lake	X	X	X	X	X			4	X	X	X			X	X			
Mockingbird Reservoir	+	X						5	X	X	X			X				
Norconian, Lake	+							X	X		X			X				
Anaheim lake	+				X			X	X		X			X				
Irvine lake (Santiago Reservoir)	X	X						X	X		X	X		X				
Laguna, Lambert, Peters Canyon, Rattlesnake, Sand Canyon and Siphon Reservoirs	+	X						6	X	X	X			X				
Canyon Lake (Railroad Canyon Reservoir)	X	X			X			X	X		X			X				
Elsinore, Lake	+							X	X		X			X				
Fulmor, Lake	X	X						X	X		X	X		X				
Hemet, Lake	X	X			X			X	X		X	X		X		X		
Perris, Lake	X	X	X	X	X			X	X		X	X		X				

- + Exempted from MUN by Reg. Bd. Res. 89-42
- 4 Access prohibited by the Metropolitan Water District
- 5 Access prohibited by the Gage Canal Company (owner-operator)
- 6 Access prohibited by Irvine Ranch Company (owner)

X= Present or Potential Beneficial Use
I= Intermittent Beneficial Use

California Regional Water Quality Control Board
Santa Ana Region

October 19, 1990

ITEM: 10

SUBJECT: Waste Discharge Requirements for the San Bernardino County Transportation/Flood Control Department, the County of San Bernardino, and the Incorporated Cities of San Bernardino County Within the Santa Ana Region, Stormwater Runoff Management Program, San Bernardino County, Order No. 90-136 (NPDES No. CA 8000200)

DISCUSSION:

See attached Fact Sheet.

RECOMMENDATION:

Adopt Order No. 90-136, NPDES No. CA 8000200, as presented.

In addition to the dischargers, comments were solicited from the following agencies and/or persons:

U. S. Environmental Protection Agency - Robert Wills, Pretreatment, Sludge, and Stormwater Section

U.S. Army District, Los Angeles, Corps of Engineers - Permits Section

NOAA, National Marine Fisheries Service

U.S. Fish and Wildlife Service

State Water Resources Control Board - Ted Cobb, Office of the Chief Counsel

State Water Resources Control Board - Archie Matthews, Division of Water Quality

State Department of Water Resources - Los Angeles

California Regional Water Quality Control Board, San Francisco Bay Region (2) - Tom Mumley

California Regional Water Quality Control Board, Los Angeles Region (4) - David Gildersleeve

California Regional Water Quality Control Board, Central Valley Region (5) - Wayne Pierson

California Regional Water Quality Control Board, Colorado River Basin Region (7)

California Regional Water Quality Control Board, Lahonton Region (6)

State Department of Fish and Game

State Department of Health Services - Santa Ana

State Department of Health Services - San Diego

State Department of Health Services - San Bernardino

State Department of Parks and Recreation - Henry R. Agonia

Orange County Health Care Agency - Robert Merryman

RBSA_29136

Orange County Environmental Management Agency, Environmental
 Resources Division - Bob Collacott
 San Bernardino County Department of Health Services - Paul Ryan
 Riverside County Health Department - John Fanning
 Riverside County Flood Control & Water Conservation District -
 Frank Peairs
 South Coast Air Quality Management District, El Monte - James Lents
 Brown & Caldwell - Jack Baylis
 Uribe And Associates - Geoff Brosseau
 Bill Dendy & Associates - Bill Dendy
 Building Industry Association - Governmental Affairs Council
 L.A. County Department of Public Works - John Mitchell
 Sierra Club, San Gorgonio Chapter
 Sierra Club, Los Angeles Chapter - Dick Hingson
 Natural Resources Defense Council (NRDC) - Los Angeles
 Tri-County Conservation League - Gertrude Hagum
 Press Enterprise
 Los Angeles Times
 Santa Ana Watershed Project Authority - Neil Cline
 Orange County Water District - Bill Mills
 Metropolitan Water District - Ed Means
 Big Bear Municipal Water District
 Chino Basin Municipal Water District
 Cucamonga County Water District
 East Valley Water District
 Monte Vista Water District
 San Bernardino County Waterworks District No. 8
 San Bernardino Valley Municipal Water District - Louis Fletcher
 South San Bernardino Water District
 West San Bernardino County Water District
 Yucaipa Valley Water District - Joe Bocanegra
 Caltrans, District 8 - San Bernardino
 Southern Pacific Railroad - David Long
 Atchison, Topeka & Santa Fe Railway Company - David Clark
 Department of the Air Force, Norton Air Force Base
 U. S. Forest Service - San Bernardino National Forest
 Bear Valley Community Hospital
 Chino Community Hospital
 Doctors Hospital
 Kaiser Foundation Hospital
 Loma Linda Community Hospital
 Loma Linda University Medical Center
 Mountains Community Hospital
 Ontario Community Hospital
 Patton State Hospital
 Pettis Memorial V. A. Hospital
 Redlands Community Hospital
 Saint Bernardines Hospital
 San Antonio Community Hospital
 San Bernardino Community Hospital

California State University, San Bernardino
Chaffey College
Crafton Hills College
Loma Linda University
University of Redlands
San Bernardino Valley College
Alta Loma Elementary School District
Bear Valley Unified School District
Central Elementary School District
Chaffey Joint Union High School District
Chino Unified School District
Colton Joint Unified School District
Cucamonga Elementary School District
Etiwanda Elementary School District
Fontana Unified School District
Mountain View Elementary School District
Mt. Baldy Joint Elementary School District
Ontario-Montclair Elementary School District
Rialto Unified School District
Rim of the World Unified School District
Redlands Unified School District
San Bernardino City Unified School District
Upland Unified School District
Yucaipa Joint Unified School District

California Regional Water Quality Control Board
Santa Ana Region
6809 Indiana Avenue, Suite 200
Riverside, CA 92506-4298

FACT SHEET

PROJECT

The attached pages contain information concerning an application for waste discharge requirements and a National Pollutant Discharge Elimination System (NPDES) permit. Order No. 90-136, NPDES No. CA 8000200, prescribes waste discharge requirements for urban stormwater runoff from the cities and the unincorporated areas in San Bernardino County within the jurisdiction of the Santa Ana Regional Board. On August 29, 1990, the San Bernardino County Flood Control District (SBCFCD) and the County of San Bernardino, in cooperation with the cities of Big Bear Lake, Chino, Colton, Fontana, Grand Terrace, Highland, Loma Linda, Montclair, Ontario, Rancho Cucamonga, Redlands, Rialto, San Bernardino, Upland, and Yucaipa (hereinafter collectively referred to as the dischargers), submitted NPDES Application No. CA 8000200 for an areawide stormwater discharge permit under the National Pollutant Discharge Elimination System (NPDES). As part of the permit application, a topographic map, a drainage map, storm drain system maps, 1990 city-population estimate, and listings of cities and entities participating in this program were submitted. Copies of ordinances relevant to the urban stormwater runoff from the cities participating in this program and the draft Implementation Agreement between the County and the cities will be submitted at a later date.

PROJECT AREA

The permitted area is delineated by the Santa Ana-Lahonton Regional Board boundary line on the north and northeast, the Santa Ana-Colorado River Basin Regional Board boundary line on the east, the San Bernardino-Riverside County boundary line on the south and southeast, the San Bernardino-Orange County boundary line on the southwest, and the San Bernardino-Los Angeles County boundary line on the west (see Attachment "A").

CLEAN WATER ACT REQUIREMENTS

The Federal Clean Water Act (CWA) allows the U. S. Environmental Protection Agency (EPA) to delegate its NPDES permitting authority to states with an approved environmental regulatory program. The State of California is one of the delegated states. The Porter Cologne Act (California Water Code) authorizes the State Board, through its Regional Boards, to regulate and control the discharge of pollutants into waters of the state and tributaries thereto.

CLEAN WATER ACT REQUIREMENTS - CONT'D

Section 405 of the Water Quality Act (WQA) of 1987 added Section 402(p) to the CWA. Pursuant to Section 402(p)(4) of the CWA, the EPA is required to promulgate regulations for stormwater permit applications for stormwater discharges associated with industrial activities and municipal separate storm drain systems serving a population of 100,000 or more. Section 402 (p)(4) of the CWA also requires dischargers of stormwater associated with industrial activities and municipal separate storm drain systems serving a population of 250,000 or more to file stormwater permit applications by February 4, 1990.

On December 7, 1988, EPA published its proposed regulations in the Federal Register to solicit public comments. Final regulations are tentatively scheduled to be promulgated on October 31, 1990 and to be published in the Federal Register in mid November, 1990. In the absence of final stormwater regulations, a permit governing municipal stormwater discharges should meet both the statutory requirements of Section 402 (p)(3)(B) and all requirements applicable to a NPDES permit issued under the issuing authority's discretionary authority in accordance with Section 402 (a)(1)(B) of the CWA.

AREAWIDE STORMWATER PERMIT

To regulate and control stormwater discharges from the San Bernardino County area to the San Bernardino County storm drain systems, an areawide approach is essential. The entire storm drain system is not controlled by a single entity; the SBCFCD, several cities, and the State Department of Transportation (Caltrans) manage the system. In addition to the cities and the SBCFCD, there are a number of other significant contributors of urban stormwater runoff to these storm drain systems. These include: large institutions such as the State University system, schools, hospitals etc.; federal facilities such as military installations etc.; state agencies such as Caltrans; water and wastewater management agencies such as San Bernardino Valley Municipal Water District and Chino Basin Municipal Water District; the National Forest Service; and state parks. The management and control of the entire flood control system cannot be effectively carried out without the cooperation and efforts of all these entities. Also, it would not be meaningful to issue a separate stormwater permit to each of the entities within the permitted area whose land/facilities drain into the county storm drain systems. The Regional Board and a majority of the cities and the county have concluded that the best management option for the San Bernardino County area is to issue an areawide stormwater permit.

AREAWIDE STORMWATER PERMIT - CONT'D

Some of the storm drain systems in the project area discharge into storm drain systems controlled by other entities, such as the County of Riverside, which is regulated under the Regional Board's Order No. 90-104 (NPDES No. CA 8000192), the County of Orange, which is regulated under the Regional Board's Order No. 90-71, NPDES No. CA 8000180, and the County of Los Angeles, which is regulated under the Los Angeles Regional Board's Order No. 90-79, NPDES No. CA 0061654. A majority of the San Bernardino County drainage areas lies within the Lahonton and Colorado River Basin Regions of the Regional Water Quality Control Board. Urbanization of the San Bernardino County drainage areas within the Lahonton and Colorado River Basin Regional Boards is minimal in comparison to that in the drainage areas under the Santa Ana Regional Board's jurisdiction. Therefore, early areawide stormwater permits for stormwater discharges from the drainage areas of San Bernardino County within the jurisdiction of the Lahonton and Colorado River Basin Regional Boards are not expected at this time.

COORDINATION WITH OTHER REGIONAL AGENCIES

In developing best management practices and monitoring programs, consultation/coordination with other flood control districts and other regional boards is essential. Regional Board staff will coordinate the program with other regional boards and other flood control districts/cities on an "as needed" basis.

EXISTING FACILITIES AND PROGRAMS

Within the Santa Ana Region, the SBCFCD serves a population of approximately 1.11 million, occupying an area of approximately 985 square miles. The County has estimated 258 miles of above-ground and 241 miles of below-ground storm drain channels in the project area. Approximately seven percent (7%) of the San Bernardino County area drains into water bodies within this Regional Board's jurisdiction. Stormwater discharges from urbanized areas consist mainly of surface runoff from residential, commercial, and industrial developments. In addition, there are stormwater discharges from agricultural land uses, including dairy operations. The constituents of concern and significance in these discharges are: total and fecal coliform, enterococcus, total suspended solids, biochemical oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon (TOC), oil and grease (O&G), heavy metals, nutrients, base/neutral and acid extractibles, pesticides, herbicides, and petroleum hydrocarbon components.

EXISTING FACILITIES AND PROGRAMS - CONT'D

Currently, the SBCFCD does not have an active surface water quality monitoring program in the permitted area. However, the SBCFCD collects precipitation data from 102 precipitation stations and streamflow data from 60 recording gages and eight alert gages. The County has 112 inactive precipitation stations; historic records for these inactive precipitation stations are available at the SBCFCD.

Recognizing the fact that stormwater discharges contain significant amounts of pollutants, the SBCFCD, the County of San Bernardino, the incorporated cities of San Bernardino County, and the Regional Board have all agreed that an areawide stormwater permit is the most effective way to develop and implement a comprehensive stormwater management program in a timely manner. This areawide stormwater permit contains requirements with time schedules that will allow the County of San Bernardino and the cities to address water quality problems caused by urban stormwater runoff by developing and implementing management programs to reduce pollutants in stormwater discharges to the maximum extent practicable.

PERMIT REQUIREMENTS

In accordance with Section 402(p)(3), as part of a program to reduce the pollutants in stormwater discharges to the maximum extent practicable, the dischargers are required to submit existing management plans and programs being implemented in the localities, and information that could lead to successful identification of illegal discharges and sources of pollutants in stormwater discharges. In addition, the dischargers will be required to adopt and implement effective management programs and control measures in accordance with a time schedule approved by the Executive Officer of the Regional Board. Due to the large number of water bodies covered in this order, it is necessary to prioritize water bodies for the development and implementation of the stormwater management program. The stormwater management program will be developed and implemented in three phases, Phases I, II, and III. In Phase I, the dischargers will be required to submit existing stormwater qualitative data and develop management and monitoring programs for those water bodies where beneficial uses are threatened or impaired due to runoff of stormwater and urban nuisance water. These water bodies include Reaches 4 and 5 of the Santa Ana River and its tributaries, Prado area streams (Chino Creek), San Gabriel Mountain Streams (Mountain and Valley Reaches), Baldwin Lake, and Big Bear Lake. In Phase II, the dischargers will be required to submit existing stormwater qualitative data and to develop stormwater management and monitoring programs for Reaches 1 and 2 of San Timoteo Creek and its tributaries. In Phase III,

PERMIT REQUIREMENTS - CONT'D

the dischargers will be required to submit existing stormwater qualitative data and develop management and monitoring programs for Reach 6 of the SAR, San Bernardino Mountain streams, and Jenks Lake.

If existing management programs are not effective in controlling pollutant loading and in achieving the water quality objectives of the receiving waters, additional programs shall be developed and implemented.

The permit also requires the development and implementation of management programs (best management practices) during the life of the permit such that the quality of stormwater discharged can be improved and the water quality objectives of the receiving waters can be met ultimately. It is also expected that the beneficial uses of the receiving waters will be protected through implementation of best management practices.

The proposed order also requires the dischargers to submit a stormwater system monitoring program that will meet the objectives outlined in Item VII.1., of the order.

BENEFICIAL USES

Stormwater flows which are discharged to storm drain systems in San Bernardino County are tributary to various water bodies (inland surface streams and lake and reservoirs) of the state. The beneficial uses of these water bodies include municipal and domestic supply (MUN), agricultural supply (AGR), industrial service supply (IND), industrial process supply (PROC), groundwater recharge (GWR), hydropower generation (POW), water contact recreation (REC-1), non-contact water recreation (REC-2), warm freshwater habitat (WARM), cold freshwater habitat (COLD), wildlife habitat (WILD), and fish spawning (SPWN). The beneficial uses of individual water bodies are shown on Attachment "E". The ultimate goal of this stormwater management program is to protect the beneficial uses of the receiving waters.

ANTIDegradation ANALYSIS

The Regional Board has considered whether a complete antidegradation analysis, pursuant to 40 CFR 131.12 and State Board Resolution No. 68-16, is required for the stormwater discharges. The Regional Board finds that the pollutant loading rates to the receiving waters will be reduced with the implementation of the requirements in this order. As a result, the quality of stormwater discharges and receiving waters will be improved, thereby protecting the beneficial uses of waters of the United States. This discharge is consistent with the federal and state antidegradation requirements and a complete antidegradation analysis is not necessary.

PUBLIC WORKSHOP

The Regional Board recognizes the significance of San Bernardino County's Stormwater/Urban Runoff Management Program and will conduct at least one workshop every year during the term of this permit to discuss the progress of the stormwater management program. The details of the annual workshop will be published in local newspapers and mailed to interested parties. Persons wishing to be included in the mailing list for any of the items related to this permit may register their name, mailing address and phone number with the Regional Board office at the address given below.

PUBLIC HEARING

The Regional Board will hold a public hearing regarding the proposed waste discharge requirements. The public hearing is scheduled to be held on Friday, October 19, 1990, at 9:00 a.m. at the City Council Chambers at 3300 Newport Boulevard, Newport Beach. Further information regarding the conduct and nature of the public hearing concerning these waste discharge requirements may be obtained by writing or visiting the Santa Ana Regional Board office, 6809 Indiana Avenue, Suite 200, Riverside.

WRITTEN COMMENTS

Interested persons are invited to submit written comments on the proposed waste discharge requirements and the Fact Sheet. Comments should be submitted by September 28, 1990, either in person or by mail to:

Joanne Lee
California Regional Water Quality Control Board
Santa Ana Region
6809 Indiana Avenue, Suite 200
Riverside, CA 92506-4298

INFORMATION AND COPYING

Persons wishing further information may write to the above address or call Joanne Lee at (714)782-4130. Copies of the application, proposed waste discharge requirements, and other documents (other than those which the Executive Officer maintains as confidential) are available at the Regional Board office for inspection and copying by appointment scheduled between the hours of 10:00 a.m. and 4:00 p.m., Monday through Thursday (excluding holidays).

REGISTER OF INTERESTED PERSONS

Any person interested in a particular application or group of applications may leave his name, address, and phone number as part of the file for an application. Copies of tentative waste discharge requirements will be mailed to all interested parties.