

July 6, 2000

Chem-tronics, Inc.
1150 West Bradley Avenue
El Cajon, CA 92020

Attention: Mr. Julian Medina, Manager of Environmental Affairs

Dear Mr. Medina:

On July 5, 2000, the City of El Cajon received notification of a toxic originating from your facility. It was reported that approximately 1000 gallons of sodium hydroxide leaked from a holding tank and eventually found its way into the Forrester Creek Channel. A follow up site inspection and investigation by the El Cajon Public Works Department found environmental damage along Forrester Creek consistent with that described in the complaint.

I am writing this letter to inform you that the dumping of such toxic waste is a violation of Clean Water Act provisions of State and Federal Law, as well as a violation of the El Cajon Municipal Code. As you well know, an offense can result in a substantial fine. I have enclosed a copy of the pertinent sections of the El Cajon Municipal Code for your information.

Please be advised that the City of El Cajon will not tolerate the dumping of pollutants into areas where they will subsequently enter the City storm drainage system. The City storm drainage system and the streams and rivers leading to the Pacific Ocean are not appropriate disposal points for materials that should be collected and disposed of in an appropriate manner. Be aware that all subsequent suspected violations of the enclosed section of the El Cajon Municipal Code will be investigated, and when warranted, fines and penalties will be assessed.

Your cooperation in ensuring that you have Best Management Practices for both spill prevent, and to facilitate response and cleanup of such spills is both needed and requested. You should review your system layout and operating procedures and make

whatever improvements and revisions are necessary to prevent future spills. All Chem-tronic employees should be made familiar with your prevention and response procedures, and perform these practices while on the job.

To this end, we request that you respond in writing and document what changes are being made. If there is any additional information on this matter that you desire, please contact me at 441-1653, or Mr. Robert Griswold of the Public Works Department at 441-1704.

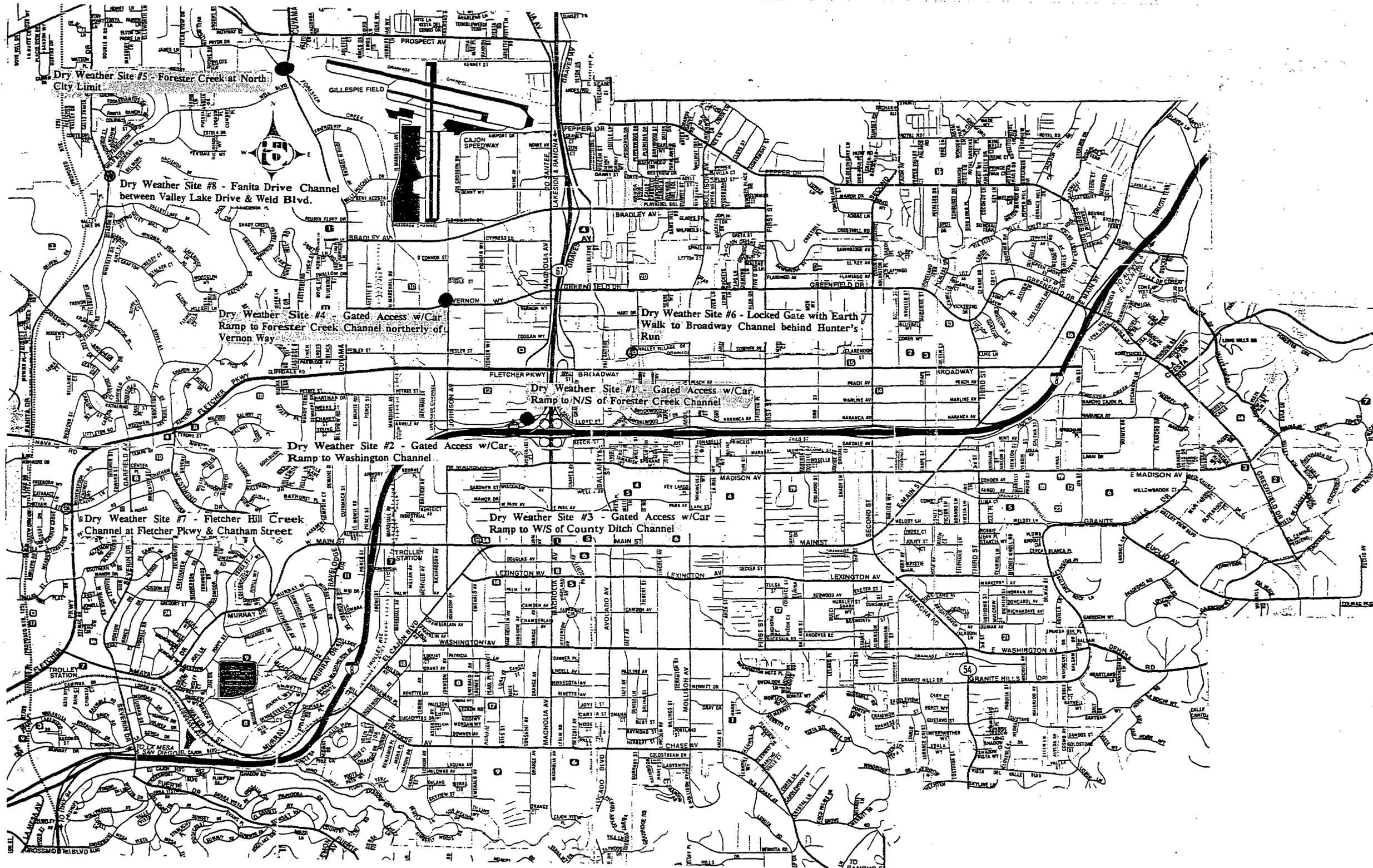
Sincerely,

Richard C. Odiorne
City Engineer

AMM/RG:

attachment: City Council Ordinance 4426

c: 1.) Engineering Job 2446
 2.) Assistant City Manager



Dry Weather Site #5 - Forester Creek at North City Limit

Dry Weather Site #8 - Fanita Drive Channel between Valley Lake Drive & Weld Blvd.

Dry Weather Site #4 - Gated Access w/Car Ramp to Forester Creek Channel northerly of Vernon Way

Dry Weather Site #6 - Locked Gate with Earth Walk to Broadway Channel behind Hunter's Run

Dry Weather Site #1 - Gated Access w/Car Ramp to N/S of Forester Creek Channel

Dry Weather Site #2 - Gated Access w/Car Ramp to Washington Channel

Dry Weather Site #7 - Fletcher Hill Creek Channel at Fletcher Pkwy & Chatham Street

Dry Weather Site #3 - Gated Access w/Car Ramp to W/S of County Ditch Channel

Table 1b Forester Creek - 1997 and 2000

Sep-Dec 97 & Jan-Dec 2000 Data

	Std (Drinking Water)	Sep-97 (avg)	Apr 00 ^a (avg)	May 00 ^a (avg)	June 00 ^a (avg)	July 00 ^a (avg)	Aug 00 ^a (avg)	Sep 00 ^a (avg)	Oct 00 ^a (avg)	Nov 00 ^a (avg)	Dec 00 ^a (avg)	
BOD	mg/L/24 hrs	110										
COD	mg/L/24 hrs	250										
Flowrate	MGD	0.3645	0.28	0.39	0.39	0.29	0.25	0.20	0.45	0.25	0.15	
TSS	(mg/L)											
pH (am)	pH units	6.5-8.5	7.96	7.92	8.03	7.76	7.91	7.76	7.67	8.05	8.04	7.22
Specific Conductance	urnhos	900	2 of 2 3180	2 of 2 2730	3 of 3 2670	2 of 2 2635	2 of 2 2790	2 of 2 2795	2 of 2 2640	1 of 1 2470	1 of 1 2570	1 of 1 2370
Cl ₂	(mg/L)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia-N	(mg/L)	0.025	2 of 2 0.24	1 of 2 0.05	ND	0.845	ND	0.49	2 of 2 0.255	1 of 1 0.18	ND	ND
Total N	(mg/L)	10	3.84	4.32	4.80	2.575	2.9	2.055	2.54	3.9	3.19	
Total P	(mg/L)	0.1	2 of 2 0.225	0.048	0.04	1 of 2 0.143	0.051	0.0725	1 of 2 0.086	0.076	0.1	0.038
Nitrate-N	(mg/L)	10	2.65	3.785	3.60	2.295	0.97	0.165	0.48	0.99	3.2	2.42
Ortho-Phosphate	(mg/L)	0.15	2 of 2 0.325	0.016	0.01	0.014	0.0075	0.0119	0.0465	0.041	0.065	0.025
TDS	(mg/L)	500 (CDHS & USEPA, Secondary MCL)	2 of 2 1987.5	2 of 2 1697	3 of 3 1669	2 of 2 1647	2 of 2 1744	2 of 2 1716	2 of 2 1651	1 of 1 1554	1 of 1 1606	1 of 1 1481
DO	(mg/L)	5	10.1	7.35	8.17	1 of 2 4.68	7.115	1 of 2 6.28	1 of 2 4.15	9.67	10.4	9.81
Temp	(C)		23.65	18.4	21.87	23.6	23.8	24.55	21.15	23.6	15.6	11.4
Grease & Oil	(mg/L)	narrative, 5.07										
Color	units	15										
MBAS	(mg/L)	0.5										
% NA	%	80										
Turbidity	(NTU)	5 (secondary MCL)		1.47	1.80	3.09	3.68	1.90	1.29	2.88	1.22	2.67

(-) = no sample taken

ND = not detected or below detection limit

NF = no flow

No data in Jan, Feb and Mar of 2000 or in Oct, Nov, Dec of 1997

Data not analyzed: CL₂ contact basin, Plant Raw Sludge

8/22/01

jgs



COUNTY OF SAN DIEGO

Department of Environmental Health

REFERRAL

DATE: 05/02/2001

TO: Dennis Davis
City of El Cajon
200 E. Main St
El Cajon, CA 92020

The County of San Diego Department of Environmental Health (DEH) has received a complaint and has determined that it does not have sufficient enforcement authority to resolve the complainant's concern. The Stormwater Management Program finds it necessary to refer the issue to your agency in order to resolve the issue properly. The Reporting Party has given us permission to release their identity to your office for follow-up. If Reporting Party information appears below, they have requested that you contact them.

The information below contains names, locations, and the nature of the problem (as described by the Reporting Party). At the bottom of this page is the name and phone number of the investigator from the Department of Environmental Health. They are available to answer your questions and may be available to assist in enforcement action.

REPORTING PARTY

NAME: **RANDY OLMS** AGENCY: **EMPLOYEE**
ADDRESS: **1150 W BRADLEY AV** **El Cajon** ZIP: **92020** PHONE: **(619) 258-5062 X**

COMPLAINT INFORMATION

INCIDENT ONSET DATE: **05/01/2001** INCIDENT TIME: **5:30 PM**

ADDRESS: **1150 BRADLEY AV** X-STREET:
El Cajon ZIP: **92020** THOM BROS PAGE: **1251** COORD: **E2**

PARCEL #:

MISC INFORMATION:

SUBSTANCE: **SPILL - NOTIFY - REPORT** VEH TYPE:
VEH LIC PLATE:

NATURE OF COMPLAINT: **REPORTS THAT THIS MORNING DISCOVERED THAT A CHILLER WATER TANK WITH A COPPER COIL - DISOLVED WITH ACID, CAUSED A SPILL OF ACID/WATER/W-COPPER MIXTURE. ESTIMATES LOSS OF ABOUT 10 TO 20 GALLONS, WITH OVERFLOW OF PH2 & PH3 ENTERING FORRESTER CREEK. ONE PART OF FORRESTER CREEK IS A DRY BED CREEK - DID NOT FLOW ANYWHERE, PUDDLED IN CREEK/CHANNEL. EMERGENCY RESPONSE TEAM ON SCENE TO CONDUCT CLEAN UP. RWQB, AND OTHER AGENCIES TO BE NOTIFIED BY RANDY OLMS. .**

ACTION TAKEN BY DEH: **DEH referred complaint to the City of El Cajon.**

COMPLAINT NO: **200102425**

DATE/TIME RECEIVED: **05/02/2001**

ASSIGNED TO:

County of San Diego

Toll-free: (888) 846-0800

PO Box 129261

San Diego, CA 92112-9261

**Lower San Diego River (907.110) – 303(d) Fact Sheet
Photographic Tour (Santee Segment) by V. K. Collinsworth
Also includes Forrester (907.130) and Sycamore (907.120)**

The photographs and statements provided are not sufficient for 303(d) listing. These water bodies should be listed as threatened due to possible eutrophication and trash.

Watershed Characteristics

The Lower San Diego River is a 6.0-mile waterway in the San Diego River Watershed of Region 9. It is classified inland surface water with the following beneficial uses: MUN, AGR, IND, PROC, REC1, REC2, WARM, COLD and WILD¹. Forrester Creek is a 3.0-mile waterway in the San Diego River Watershed of Region 9. It is classified inland surface water with the following beneficial uses: MUN, IND, REC1, REC2, WARM, COLD and WILD¹. Sycamore Creek is a 7.0-mile waterway in the San Diego River Watershed of Region 9. It is classified inland surface water with the following beneficial uses: AGR, IND, REC1, REC2, WARM, COLD, WILD and RARE¹.

Water Quality Objectives not Obtained

The document² claims that eutrophication (algae blooms, algal mats, decomposing plant matter, offensive odors, stagnation) is occurring in all three waterbodies. The photos are said to be evidence of impairment to the following beneficial uses: MUN, AGR, IND, REC1, REC2, WARM, COLD, WILD and RARE². The document² also purports evidence of garbage, river odors, invasive plants, fertilizer runoff, animal waste, non-point source pollution, polluted dry-flows, sediment and oil in the waterways. The only clear evidence contained in the photographs is the existence of trash and algal mats in the waterways.

Evidence of Impairment

The only evidence submitted was photographic images. Trash and algal mats are the only evidence of impairment to water quality evident in the images.

Extent of Impairment

Photographs appear to have been taken on only four dates: 3 and 4 May 01 for Forrester and Sycamore Creeks, and 5 and 8 May 01 for the San Diego River stations. Sycamore Creek was sampled at 19 locations, Forrester Creek at 5 locations and the San Diego River was sampled at 20 locations. All sites are in the Santee area; approximately from Magnolia Ave downstream to the Mission Dam and up Sycamore Creek to just past Santee Lakes.

Potential Sources - Unknown

TMDL Priority - No TMDL is required at this time.

Notes

Information Sources

¹ Water Quality Control Plan for the San Diego Basin (9), 1994

² Collinsworth, V. K. 2001. San Diego River Photographic Tour of a Polluted Watershed – Santee Segment.

From: "Van K. Collinsworth" <Van27@home.com>
To: <gibsd@rb9.swrcb.ca.gov>
Date: 5/8/01 7:40AM
Subject: Water Testing

Dear Mr. Gibson:

Mary Anne Pentis suggested that I contact you regarding water tests in our area.

I would like to see the San Diego River in Santee and Lakeside, Sycamore Creek and Forrester Creek in Santee designated as "impaired." due to the poor water quality that impacts recreation and wildlife uses.

Water quality tests would be beneficial on:

Sycamore Creek near Carlton Oaks Boulevard and Pebble Beach Drive.
Forrester Creek anywhere in Santee and especially near the San Diego River floodplain (Mission Gorge Road and Fanita Drive or Carlton Hills Blvd.)
San Diego River below the Carlton Oaks Golf Course --West Hills Parkway and anywhere else accessible.

Please let me know if any tests are planned.

Thanks,
Van

Protect our quality of life and conserve Fanita Ranch!

Van K. Collinsworth
Van27@home.com
619-258-7929
<http://members.home.net/van27/welcomepws.html>

CC: <maryanne@pentis.com>

See SD Rive File for Data (Photos)

**303(d) Fact Sheet -- San Diego River/Forrester Creek
907.310 - Padre Dam Municipal Water District Data**

SUMMARY OF PROPOSED ACTION:

San Diego River/Forester Creek data provided by the Padre Dam Municipal Water District was analyzed to look for bacterial impairments at several locations either in the San Diego River or in tributaries to this river. The Forrester Creek sample station was analyzed during the years 1998 and 2000 for total and fecal coliform. Data shows that 10/19 samples taken during the 1998 wet and dry weather seasons were impaired due to high levels of fecal coliform. During the year 2000 monitoring, 4/11 samples analyzed showed elevated levels of fecal coliform. The entirety of the San Diego River and its tributaries have a REC 1 listed beneficial use. The Forrester Creek tributary of the San Diego River does not meet the Water Quality Standard for REC 1 activity in an inland water body due to exceedances in levels of fecal coliform.

Staff recommends placing the Forrester Creek tributary of the San Diego River on the 303(d) list for impaired water bodies.

Waterbody Name: San Diego River-Forrester Creek
Hydrologic Unit: San Diego River HUC 907.310
Size or reach affected: 1/2 mile up and downstream from the sampling point
Further Location Descriptors located in Santee
Pollutant: fecal coliform
Total Waterbody Size: SD River Upper Middle - 10.0 miles
Suspected Sources: urban runoff
TMDL Priority: medium

Notes:

Data for the assessment of the Forrester Creek tributary of the San Diego River was provided through both Baykeeper (619-758-7743) and the NPDES Permit No. CA0107492 for the Padre Municipal Water District.

Visual observations of this creek indicate foam, algal blooms and foul smells.

References:

Lab Analysis performed by Environmental Engineering Lab and the Padre Dam Water Recycling Center. This lab is EPA certified and follows all QA/QC procedures. Water monitoring performed bi-weekly from April 1st-Oct. 1st, and monthly from Oct. 31st-March 31st.

1. Watershed Characteristics

The San Diego HU 907.00 is a long, triangular shaped area of about 440 square miles drained by the San Diego River. San Vicente, Jennings, Murray, El Capitan, and Cuyamaca reservoirs are major water supply storage facilities in the HU. This watershed contains all or parts of the cities of San Diego, Poway, La Mesa, and El Cajon and the unincorporated communities of Santee, Lakeside, Alpine and Julian.

2. Water Quality Objective Not Attained

The San Diego River and its tributaries are all listed for REC 1 activity for an inland water body. The Forrester Creek tributary of the river does not meet the water quality standard of 400 MPN/ml of fecal coliform for a grab sample.

3. Evidence of Impairment

Data from routine monitoring by the Padre Dam Municipal Wastewater Treatment and Recycle Center was used to examine the quality of the water at the Fashion Valley Road site. Data was found in the routine monitoring reports provided by the permittee. Monthly data was taken for the months of Oct 1st-March and bi-monthly data was taken for April-Oct 31st. The samples were monitored for total and fecal coliform levels. The data shows 10/19 samples, or 53%, of the analyzed samples in 1998 having levels of fecal coliform in excess of 400 MPN/ml. In addition, 4/11 samples in 2000, or 35 %, had fecal coliform levels greater than 400 MPN/ml. Since the San Diego River is listed for REC.1 activity, this reach of the river is considered to not support the listed beneficial use.

4. Extent of Impairment

Samples in the Forrester Creek tributary of the San Diego River were taken at only one monitoring point. Fish tissue analysis as reported by San Diego Baykeeper indicated that a 1-mile reach of the creek was considered threatened. Narrative data provided by Baykeeper was used to determine the extent of impairment and was set at 1 mile of the creek (1/2 mile up and downstream of the sampling point).

5. Potential Sources

Narrative data provided by Baykeeper indicates that Forrester Creek is an urban creek that receives a variety of contaminants in both wet and dry weather. Urban runoff and urban impact are the two main sources of contamination.

6. TMDL Priority

medium

7. Information Sources

San Diego Baykeeper provided narrative text on the status of the San Diego River and its tributaries. They also provided some summaries of the Padre Dam Municipal Wastewater Treatment Plant monitoring reports. The Padre Dam treatment plant NPDES monitoring data was examined to determine water quality at the Fashion Valley Road site.

Dr. Suzanne M. Michel, Ph.D., Water Resources Geography, San Diego State University provided written text on the contamination problems with the San Diego River and its tributaries.

May 15, 2001

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD



2001 MAY 15 P 4: 58

Chairman John Minan and Boardmembers
Regional Water Quality Control Board, San Diego Region
9771 Clairemont Mesa Blvd., Suite A
San Diego, CA 92124

Re: CWA Section 303(d) Listing

Dear Chairman Minan and Boardmembers:

San Diego BayKeeper, a community-based 501(c)(3) non-profit organization dedicated to protecting and restoring the region's bays, coastal waters and watersheds, submits these comments on the 2002 Clean Water Act (CWA) section 303(d) listing. San Diego BayKeeper has serious concerns with the adequacy of the current 303(d) list for the region, and we are equally concerned about the direction staff may be taking in compiling the April 2002 listing.

First, we remain concerned that Region 9's proposed 303(d) list is not based on a comprehensive assembly and review of information and data on water quality and other impairments regarding all water bodies in Region 9, as the Clean Water Act and its implementing regulations require. *See, e.g., 40 C.F.R. Section 130.7.* Indeed, wholly apart from the Section 303(d) scheme, under Clean Water Act Section 305(b) and accompanying regulations, each regional board must conduct a regional water quality assessment (WQA) of all water bodies in its region. It is clear from an even cursory review of the most recent 1998 California Water Quality Assessment Report, prepared in August 1999 by the Division of Water Quality, State Water Resources Control Board, that such a comprehensive review has yet to be performed in the San Diego region. After a brief review of data in the 1998 WQA, BayKeeper has concluded that, more than twenty years after these requirements were established, at least 80% of San Diego's waters have not yet been fully assessed. Moreover, much of the data that has been gathered may not be easily accessed or understandable. In other words, this data is never fully reviewed or analyzed.

BayKeeper is also concerned about the requirements placed upon organizations wishing to submit information to support the upcoming 2002 CWA section 303(d) listing. The 305(b) and 303(d) lists are essential steps in first understanding and then addressing the overall health of our waters. Not only will the development of comprehensive and accurate 303(d) and 305(b) reports ensure that waters receive the appropriate level of protection through development of Total Maximum Daily Loads or antidegradation policies, but accurate lists will help ensure resources will be allocated wisely. Proper listings will also allow the region to tap into state and federal dollars earmarked for protecting impaired waters (e.g. SWRCB's 319(h) program or Proposition 13). Despite the importance of the 303(d) list, though, those local residents most knowledgeable about their local waters and most impacted by pollution will have a difficult time complying with the submittal requirements established by this Board even though they may have vital and reliable data. Some of our specific concerns relate to:

Timeframe – Region 9, like other regions, is requiring all information to be submitted by May 15, 2001, a full 11 months prior to the final 2002 303(d) listing. We believe this deadline is not only arbitrary, but also extremely difficult to comply with due to the amount of information being requested in a short timeframe. The San Diego Regional Board did not issue their solicitation for information until March 2001, and a formal workshop to discuss the Board's submission requirements was not held until April 4, 2001. This has left interested parties with a scant six weeks to gather and process information. Considering the more than twenty years the regional board has had to develop sufficient 303(d) and

305(b) reports (which we are still waiting for), less than six weeks to provide needed data is wholly insufficient. BayKeeper intends to continue providing information to regional board staff through the two remaining public comment periods – August 2001 (when RWQCBs solicit input on draft 303(d) list recommendations) and Winter/Spring 2002 (when the SWRCB conducts formal public hearings on the draft 303(d) list). It is our expectation that the data provided in this timeframe will be reviewed and assessed by regional and state board staff for the 2002 listing.

Required Documentation – The regional board has indicated they will consider information and data generated since July 1997 that is provided both in hard copy as well as electronic formats, and that includes "bibliographic citations, identification of software used, model outputs with calibration and quality assurance information and description and interpretation of information provided." In separate meetings with regional board staff, BayKeeper has been told that data that can demonstrate trend analysis, that has been replicated and that covers physical, chemical *and* biological parameters will be most useful in helping to establish an accurate 303(d) list.

BayKeeper appreciates that the more comprehensive the data we are able to provide, the better. We are nonetheless concerned that these requirements are far beyond the criteria of 'reliability' which we believe is appropriate. In fact, it is our assertion that the Regional Board must use *all* relevant, reasonably available data (e.g. water quality, sediment, fish tissue, photos, narrative standards, land use plans, videotapes media coverage) to list waters. Listing should occur if evidence under reasonably foreseeable conditions indicates that a standard (e.g. California Toxics Rule, National Toxics Rule, Basin Plans, beneficial uses) is, or will be, violated. Where judgment calls are required, BayKeeper believes the Regional Board must err on the side of environmental and human health protection.

We assert such an interpretation is embodied in the requirement that "Each State shall identify those waters within its boundaries for which the effluent limitations . . . are not stringent enough to implement *any* water quality standard applicable to such waters." (CWA, section 303(d)(1)(A), *emphasis added*). Furthermore, the Clean Water Act and its implementing regulations also distinguish between those existing uses that are actually being attained and designated beneficial uses that *must still be protected* whether or not they are currently being attained.

Yet, the submittal requirements of the regional board require a rigor that is both unrealistic and unnecessary for listing. First, it is extremely costly to undertake much of the scientific analysis being requested by the Board, particularly if multiple replicates are being requested, as is trend analysis. It is unreasonable to expect small, grassroots organizations or concerned citizens to incur these types of expenses. In fact, to undertake some of the water quality analysis being requested by the regional board is costing BayKeeper thousands of dollars, and these costs would be substantially higher if we rushed our orders to meet the May 15 deadline. With limited resources, we decided not to rush these orders, meaning certified lab testing of metals, pesticides and herbicides along the San Diego River will be submitted after May 15, but as soon as is practicable.

It is also often impossible for local residents to gain access to some heavily polluted waters to conduct the types of analysis being requested, particularly as these residents often fear reprisals from local businesses that may be impacted by a demonstration that they are polluting these waters. This is a real and serious problem BayKeeper has faced in trying to gather data for this listing from local residents, particularly along certain areas of the San Diego River.

BayKeeper is also uncertain about the requirement that data be generated since July 1997. Again, we understand the need for reliable data, and more current data would be preferable. We also recognize that it is not necessary to provide pre-1997 data that has already led to a listing in 1998 or before (other than possibly using data to ensure that inappropriate delisting does not occur). However, we believe that valid

pre-1997 data (particularly that data that the Board already possess) that demonstrates impairment, but which has not yet led to a listing, must be considered by this Board. In fact, as is discussed in greater detail below, the 1998 WQA report includes listings of several water bodies that show some level of impairment but which have not yet been listed. Listing those waters for which information already exists must be the first step in the 2002 listing.

Finally, while BayKeeper – through its ever-expanding Citizen Water Quality Monitoring taskforce – looks forward to working closely with regional board staff to undertake a more comprehensive assessment of local waters, the ultimate burden of listing lies with your agency. Because of the importance of the 2002 list in terms of water quality protections as well as access to resources to help restore waters, we will do everything within our power to point regional board staff in the direction of identifying impaired waters. However, we believe it is the duty of this Board – a duty that has not yet been met – to prepare complete and accurate 305(b) and 303(d) lists. The following information on waters we believe should be listed will need follow-up from regional board staff, and in no way is meant to represent a comprehensive listing of all of San Diego's waters which may be impaired.

303(d) List

BayKeeper believes the first step in preparing an accurate 2002 303(d) list is necessarily to review the most recent 1998 Water Quality Assessment. In that report, a matrix is provided which lists each separate hydrological unit in San Diego, and indicates whether each unit has or has not been assessed. For those that have been assessed, the matrix indicates whether these waters are supporting designated beneficial uses fully, partially, not at all, or whether beneficial uses are threatened. For the reasoning highlighted above, BayKeeper believes it is incumbent on the regional board to err on the side of environmental and human health protection, meaning that listing should occur for every assessed water body that is not meeting designated beneficial uses. This is not the case with the 1998 WQA report, and some examples follow:

Dana Point Harbor (Hydrological Unit 901.140) – listed as 215 acres fully supporting designated beneficial uses. Yet, the assessment comments column indicates that Dana Point Harbor and Baby Beach were closed from 8/96 to 7/97 to water contact recreation. As Dana Point Harbor is listed as meeting Recreation 1 and 2 standards, it should be listed as impaired if it was indeed closed for nearly a year to water contact.

San Diego Bay (Hydrological Unit 900.00) – While 222 acres of San Diego bay are listed as impaired due to benthic community effects, sediment toxicity and copper, 11772 acres are threatened, but not listed as impaired. The WQA assessment indicates that the entire bay (12000 acres) is posted with warnings for pregnant women and young children against consumption of fish due to elevated levels of PCB's, mercury and PAH's. By the Regional Board's own findings and by definition, BayKeeper believes the entire Bay should be listed as impaired.

Escondido Creek - (Hydrological Unit 904.600) – 23 miles of Escondido Creek are considered 'threatened' due to excessive sediment and nutrients, and should thus be listed as impaired.

Forester Creek - (Hydrological Unit 907.130) – 1 mile of Forester Creek is considered 'threatened' due to elevated fish tissue levels, and should thus be listed as impaired.

Otay River - (Hydrological Unit 910.200) – 5 miles of the Otay River are listed as only partially supporting designated beneficial uses, and should thus be listed as impaired.

Salt Creek - (Hydrological Unit 901.140) – Salt Creek was closed regularly in 1996 and 1997 due to elevated coliform levels from sewage spills, and should thus be listed as impaired.

San Diego River, Lower - (Hydrological Unit 907.110) - 6 miles of the Lower San Diego River is considered 'threatened' due to elevated coliform levels and exotic plant species, and should thus be listed as impaired. (Discussed in greater detail below.)

San Juan Creek, Upper Middle - (Hydrological Unit 901.260) - 3.2 miles of the Upper Middle San Juan Creek is considered 'threatened' due to elevated coliform levels, and should thus be listed as impaired.

San Luis Rey River, Lower - (Hydrological Units 903.100) - 18.7 miles of the Lower San Luis Rey River is considered 'threatened' due to elevated coliform levels and exotic plant species, and should thus be listed as impaired.

San Diego River

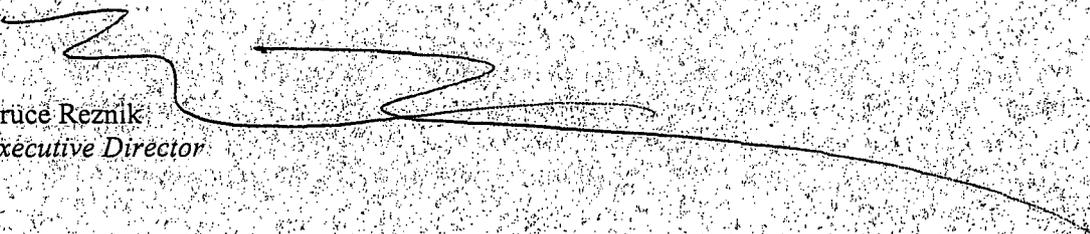
BayKeeper is submitting a separate letter and supporting materials detailing portions of the San Diego River for which sufficient information exists to require a 303(d) listing.

Otay/Sweetwater Rivers

BayKeeper is aware of several comment letters and photographs submitted by Ray Ymzon, Board Member of the Sweetwater Valley Civic Association to the San Diego Regional Water Quality Control relating to 401 certification for the proposed SR-125 toll road. These letters and photos demonstrate increasing trash, and apparent oil and grease problems, at a minimum, along stretches of the rivers, particularly the Sweetwater. We believe further investigation and likely listing is warranted based on the information provided. BayKeeper has not provided copies of these materials, as they should already be in your files.

On behalf of San Diego BayKeeper, I appreciate the opportunity to provide comments on the 2002 CWA section 303(d) listing, and hope they are helpful. A great deal of work is needed to ensure a complete and accurate listing in 2002 and beyond, and BayKeeper looks forward to working with the regional board to ensure such listings. Please do not hesitate to contact me should you have any questions need additional information.

Sincerely,


Bruce Reznik
Executive Director

Forrester Creek

All locations exceed the compliance range for pH of 6.5-8.5

N of I8 btw Magnolia & Johnson	
Date	pH
9/27/94	9.2
9/28/94	9.3
5/13/96	9.6
5/14/96	9.8
11/24/97	9.4
11/25/97	9.3
1/4/99	9
1/5/99	9.2
6/24/99	9.9
6/25/99	9.5
12/15/99	9.5
7/6/00	9.2
1/2/01	9.1
1/3/01	9

N of Vernon Way btw Johnson & Marshall	
Date	pH
9/27/94	9.2
9/28/94	9.2
5/13/96	9.7
5/14/96	9.7
11/24/97	9.3
11/25/97	9.3
1/4/99	9.3
1/5/99	9.3
6/25/99	8.8
7/5/00	8.8
1/2/01	8.8
1/3/01	8.8

F. Creek Channel at N City limit	
Date	pH
9/27/94	9.3
9/28/94	9.4
5/13/96	9.5
5/14/96	9.8
11/24/97	9.9
11/25/97	9.5
1/4/99	8.8
1/5/99	8.9
6/24/99	8.9
7/5/00	8.8
1/2/01	8.9
1/3/01	8.8

400 ft before junction w/ Washinton channel	
Date	pH
11/1/93	10.6
11/2/93	9.2

To the east of city shops at Vernon	
Date	pH
11/1/93	10.2
11/2/93	9.7

Marshall & B. Mitchel	
Date	pH
11/1/93	9.7
11/2/93	9.5

CITY OF EL CAJON
N.P.D.E.S.
Field Screen Data

DATE: 11/1/93 (SAMPLE 1)*

DATE: 11/2/93 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK NO. EST 1

SAMPLING LOCATION: u/s - d/s Small

MASTER DRAINAGE BOOK 400 ft → Before junction with WASHINGTON CHANNEL
PAGE: 12; ft. (NESW) of Between &

DRAINAGE AREA: Indust. (Comm.) / Res. / Open Space / Other

CHANNEL TYPE: Concrete Portland Cement lined

DIMENSIONS: CH. WIDTH/PIPE DIA 24 ft/in

WEATHER: sunny, cloudy, windy, rain, fog, other

TIME: 1:22 PM AIR TEMP: 27 C
WATER TEMP: 23 C
FLOWRATE: 3 cfs Est/Meas
AVE DEPTH: 2 ft/in
COLOR: Clear pH 10.6

TIME: 10:55 AIR TEMP: 27 C
WATER TEMP: 23 C
FLOWRATE: 2 cfs Est/Meas
AVE DEPTH: 1.7 ft/in
COLOR: Cloudy pH 9.2

FLOATABLES:** yes/ no
OIL SHEEN/SCUM:** yes/ no
ODOR:** yes/ no
TURBIDITY: no/ yes organic/silt/clay
ALGAE: yes/ no
AQUATIC LIFE: Algae

FLOATABLES:** yes/ no
OIL SHEEN/SCUM:** yes/ no
ODOR:** yes/ no
TURBIDITY: no/ yes organic/silt/clay
ALGAE: yes/ no
AQUATIC LIFE: Algae & Micro organisms

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 1.5 ppm
TOTAL COPPER: 0.1 ppm
TOTAL PHENOL: 0 ppm
DETERGENTS: 0.5 ppm
AMMONIA: _____ ppm
OTHER: _____

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 0.7 ppm
TOTAL COPPER: 0.1 ppm
TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm
AMMONIA: _____ ppm
OTHER: _____

SAMPLE COLLECTED: yes/ no

SAMPLE COLLECTED: yes/ no

COMMENTS: _____

COMMENTS: _____

L.A.L.
Inspector (Name)

* The two samples must be taken not less than 4 and not more than 24 hours apart.
**Describe in comments.

CITY OF EL CAJON
N.P.D.E.S.
Field Screen Data

DATE: 11/1/93 (SAMPLE 1)*

DATE: 11/2/93 (SAMPLE 2)*

CHANNEL NAME: FORRESTER CREEK NO. IST#4

SAMPLING LOCATION: u/s - d/s To the East of City Shops

MASTER DRAINAGE BOOK PAGE: 11; Ft. (NESW) of , Between Marshall & Johnson ^{at VERNON-}

DRAINAGE AREA: Indust. Comm./Res./Open Space/Other

CHANNEL TYPE: P.C.C. lined

DIMENSIONS: CH. WIDTH/PIPE DIA ft/in

WEATHER: sunny, cloudy, windy, rain, fog, other

TIME: 2:20 PM AIR TEMP: 28 C
WATER TEMP: 24 C
FLOWRATE: 2.0 cfs Est/Meas
AVE DEPTH: ft/in
COLOR: Clear PH 10.2

TIME: 11:45 AIR TEMP: 28 C
WATER TEMP: 24 C
FLOWRATE: 1.8 cfs Est/Meas
AVE DEPTH: ft/in
COLOR: PH 9.7

FLOATABLES:** yes/no
OIL SHEEN/SCUM:** yes/no
ODOR:** yes/no
TURBIDITY: no/yes organic/silt/clay
ALGAE: yes/no
AQUATIC LIFE: ALGAE & LARVAE

FLOATABLES:** yes/no
OIL SHEEN/SCUM:** yes/no
ODOR:** yes/no
TURBIDITY: no/yes organic/silt/clay
ALGAE: yes/no
AQUATIC LIFE: ALGAE & LARVAE

COLORIMETRIC FIELD TEST
TOTAL CHLORINE: 0.4 ppm
TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.75 ppm
AMMONIA: ppm
OTHER:

COLORIMETRIC FIELD TEST
TOTAL CHLORINE: 1.0 ppm
TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm
AMMONIA: ppm
OTHER:

SAMPLE COLLECTED: yes/no

SAMPLE COLLECTED: yes/no

COMMENTS:

COMMENTS:

J. A. L.
Inspector (Name)

* The two samples must be taken not less than 4 and not more than 24 hours apart.
**Describe in comments.

CITY OF EL CAJON
N.P.D.E.S.
Field Screen Data

DATE: 11/1/93 (SAMPLE 1)*

DATE: 11/2/93 (SAMPLE 2)*

CHANNEL NAME: FORRESTER CREEK NO. NEW

SAMPLING LOCATION: u/s - d/s MARSHAL + B. MITCHELL

MASTER DRAINAGE BOOK PAGE: 5; Ft. (NESW) of , Between &

DRAINAGE AREA: Indust. / Comm. / Res. / Open Space / Other

CHANNEL TYPE: Temp. plastic lined channel (pumped) cut to Copanaca

DIMENSIONS: CH. WIDTH/PIPE DIA 16 ft (in)

WEATHER: sunny, cloudy, windy, rain, fog, other

TIME: 3:15 AIR TEMP: 28 C
WATER TEMP: 24 C
FLOWRATE: 4 cfs Est/Meas
AVE DEPTH: ft/in
COLOR: Clear pH 9.7

TIME: 17:15 AIR TEMP: 29 C
WATER TEMP: 25 C
FLOWRATE: 3 cfs Est/Meas
AVE DEPTH: 3 1/2 ft/in
COLOR: CLAR pH 9.5

FLOATABLES:** yes/no no
OIL SHEEN/SCUM:** yes/no no
ODOR:** yes/no no
TURBIDITY: no/yes organic/silt/clay no
ALGAE: yes/no no
AQUATIC LIFE: none only in suspension

FLOATABLES:** yes/no no
OIL SHEEN/SCUM:** yes/no no
ODOR:** yes/no no
TURBIDITY: no/yes organic/silt/clay no
ALGAE: yes/no no
AQUATIC LIFE: none only in suspension

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 0.2 ppm
TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm
AMMONIA: ppm
OTHER:

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 0.4 ppm
TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm
AMMONIA: ppm
OTHER:

SAMPLE COLLECTED: yes/no

SAMPLE COLLECTED: yes/no

COMMENTS:

COMMENTS:

L.A.L.
Inspector (Name)

* The two samples must be taken not less than 4 and not more than 24 hours apart.
**Describe in comments.

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: SEPT 27, 1994 (SAMPLE 1)* DATE: SEPT 28, 1994 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: SUNNY

TIME: 9:00 AM AIR TEMP: 25°C
WATER TEMP: 24°C
FLOW RATE: 1 CFS
AVERAGE DEPTH: 2 IN.
COLOR: CLEAR PH: 9.2

TIME: 9:15 AM AIR TEMP: 27°C
WATER TEMP: 24°C
FLOW RATE: 1 CFS
AVERAGE DEPTH: 2 IN.
COLOR: CLEAR PH: 9.3

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.18K
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

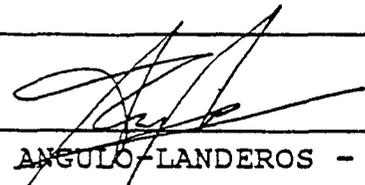
TOTAL CHLORINE: 1.5
TOTAL COPPER: 0.10K
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: SEPT 27, 1994 (SAMPLE 1)* DATE: SEPT 28, 1994 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY

TIME: 11:30 AM AIR TEMP: 26°C
WATER TEMP: 24°C
FLOW RATE: 2 CFS
AVERAGE DEPTH: 2 IN.
COLOR: CLEAR PH: 9.2

TIME: 11:15 AM AIR TEMP: 26°C
WATER TEMP: 24°C
FLOW RATE: 2 CFS
AVERAGE DEPTH: 2 IN.
COLOR: CLEAR PH: 9.2

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

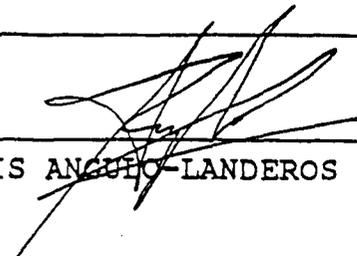
TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: SEPT 27, 1994 (SAMPLE 1)* DATE: SEPT 28, 1994 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY

TIME: 12:30 PM AIR TEMP: 26°C
WATER TEMP: 26°C
FLOW RATE: 2.3 CFS
AVERAGE DEPTH: 2.5 IN.
COLOR: CLEAR PH: 9.3

TIME: 12:15 PM AIR TEMP: 27°C
WATER TEMP: 26°C
FLOW RATE: 2.5 CFS
AVERAGE DEPTH: 2.5 IN.
COLOR: CLEAR PH: 9.4

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.5
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5

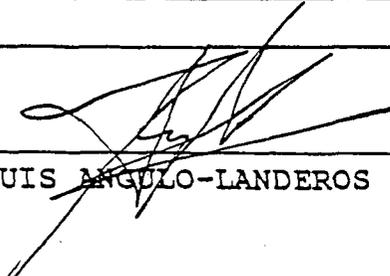
TOTAL CHLORINE: 1.5
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: MAY 13, 1996 (SAMPLE 1)*

DATE: MAY 14, 1996 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: SUNNY, 5/13/96 AND 5/14/96

TIME: 3:30 PM AIR TEMP: 28°C
WATER TEMP: 28°C
FLOW RATE: .6 CFS
AVERAGE DEPTH: .5 IN.
COLOR: CLEAR PH: 9.6

TIME: 12:20 AM AIR TEMP: 33°C
WATER TEMP: 31.6°C
FLOW RATE: .7 CFS
AVERAGE DEPTH: .75 IN.
COLOR: CLEAR PH: 9.8

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.3
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

TOTAL CHLORINE: 0.2
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

Robert Griswold 7/10/96
ROBERT GRISWOLD, ENGINEERING TECHNICIAN III

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: MAY 13, 1996 (SAMPLE 1)* DATE: MAY 14, 1996 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY, 5/13/96 AND 5/14/96

TIME: 12:25 PM AIR TEMP: 32°C
WATER TEMP: 29.9°C
FLOW RATE: 1.5 CFS
AVERAGE DEPTH: 1 IN.
COLOR: CLEAR PH: 9.7

TIME: 11:45 AM AIR TEMP: 34°C
WATER TEMP: 28.9°C
FLOW RATE: 1.5 CFS
AVERAGE DEPTH: 1 IN.
COLOR: CLEAR PH: 9.7

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.3
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

TOTAL CHLORINE: 0.2
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

Robert Griswold 7/10/96

ROBERT GRISWOLD, ENGINEERING TECHNICIAN III

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: MAY 13, 1996 (SAMPLE 1)*

DATE: MAY 14, 1996 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY, 5/13/96 AND 5/14/96

TIME: 1:05 PM AIR TEMP: 32°C
WATER TEMP: 23.5°C
FLOW RATE: 1.8 CFS
AVERAGE DEPTH: 1.6 IN.
COLOR: CLEAR PH: 9.5

TIME: 11:41 AM AIR TEMP: 33°C
WATER TEMP: 34°C
FLOW RATE: 2 CFS
AVERAGE DEPTH: 2 IN.
COLOR: CLEAR PH: 9.8

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.6
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

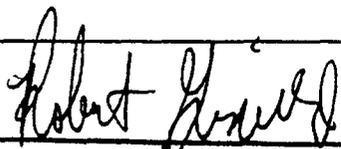
TOTAL CHLORINE: 0.3
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

 7/10/96
ROBERT GRISWOLD, ENGINEERING TECHNICIAN III

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: NOV 24, 1997 (SAMPLE 1)* DATE: NOV 25, 1997 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: OVERCAST 11/24/97; SUNNY & WARM 11/25/97

TIME: 10:00 AM AIR TEMP: 24°C
WATER TEMP: 17.0° C
FLOW RATE: 1.0 CFS
AVERAGE DEPTH: .4 IN.
COLOR: CLEAR PH: 9.4

TIME: 08:00 AM AIR TEMP: 17°C
WATER TEMP: 12.0° C
FLOW RATE: 0.6 CFS
AVERAGE DEPTH: .2 IN.
COLOR: CLEAR PH: 9.3

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.2
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25
AMMONIA: 0.0

TOTAL CHLORINE: 0.2
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.75
AMMONIA: 0.5

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: NOV 24, 1997 (SAMPLE 1)*

DATE: NOV 25, 1997 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: OVERCAST 11/24/97; SUNNY & WARM 11/25/97

TIME: 11:45 AM AIR TEMP: 30°C

WATER TEMP: 21°C

FLOW RATE: 2.5 CFS

AVERAGE DEPTH: 1.0 IN.

COLOR: CLEAR PH: 9.3

TIME: 10:05 AM AIR TEMP: 26°C

WATER TEMP: 19°C

FLOW RATE: 2.5 CFS

AVERAGE DEPTH: 1.0 IN.

COLOR: CLEAR PH: 9.3

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.6

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.5

AMMONIA: 0.0

TOTAL CHLORINE: 0.5

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.5

AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: NOV 24, 1997 (SAMPLE 1)* DATE: NOV 25, 1997 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: OVERCAST 11/24/97; SUNNY & WARM 11/25/97

TIME: 12:00 PM AIR TEMP: 30°C

WATER TEMP: 21°C

FLOW RATE: 2.8 CFS

AVERAGE DEPTH: 1.5 IN.

COLOR: CLEAR PH: 9.9

TIME: 10:30 AM AIR TEMP: 30°C

WATER TEMP: 21°C

FLOW RATE: 2.8 CFS

AVERAGE DEPTH: 1.5 IN.

COLOR: CLEAR PH: 9.5

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.6

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.50

AMMONIA: 0.0

TOTAL CHLORINE: 0.6

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.50

AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUNE 16, 1998 (SAMPLE 1)* DATE: JUNE 17, 1998 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: OVERCAST 06/16/98; SUNNY & WARM 06/17/98

TIME: 13:30 PM AIR TEMP: 26°C
WATER TEMP: 23°C
FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 8.3

TIME: 09:30 AM AIR TEMP: 25°C
WATER TEMP: 22.5°C
FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 8.3

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.75
AMMONIA: 0.0

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.5
AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL. CAJON
NPDES
FIELD SCREEN DATA

DATE: JUNE 16, 1998 (SAMPLE 1)* DATE: JUNE 17, 1998 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: OVERCAST 06/16/98; SUNNY & WARM 06/17/98

TIME: 13:45 PM AIR TEMP: 26°C
WATER TEMP: 23°C
FLOW RATE: 3.2 CFS
AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.5

TIME: 10:30 AM AIR TEMP: 27°C
WATER TEMP: 23°C
FLOW RATE: 2.8 CFS
AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.4

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORIMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.75
AMMONIA: 0.0

TOTAL CHLORINE: 0.6
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25
AMMONIA: 0.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JAN. 04, 1999 (SAMPLE 1)* DATE: JAN. 05, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: . CLEAR & SUNNY 01/04/99; CLEAR & SUNNY 01/05/99

TIME: 12::15 PM AIR TEMP: 25°C

WATER TEMP: 12.0° C

FLOW RATE: 2.0 CFS

AVERAGE DEPTH: 1.0 IN.

COLOR: CLEAR PH: 9.0

TIME: 11:45 AM AIR TEMP: 23°C

WATER TEMP: 12.0° C

FLOW RATE: 2.5 CFS

AVERAGE DEPTH: 1.2 IN.

COLOR: CLEAR PH: 9.2

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.6

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.8

TOTAL CHLORINE: 0.8

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 1.0

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JAN. 04, 1999 (SAMPLE 1)* DATE: JAN. 05, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: CLEAR & SUNNY 01/04/99; CLEAR & SUNNY 01/05/99

TIME: 10:00 AM AIR TEMP: 21°C

TIME: 09:30 AM AIR TEMP: 16°C

WATER TEMP: 11°C

WATER TEMP: 9.5°C

FLOW RATE: 3.5 CFS

FLOW RATE: 3.5 CFS

AVERAGE DEPTH: 1.8 IN.

AVERAGE DEPTH: 1.8 IN.

COLOR: CLEAR PH: 9.3

COLOR: CLEAR PH: 9.3

FLOATABLES: NO

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

ODOR:** NO

TURBIDITY: NO

TURBIDITY: NO

ALGAE: YES

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8

TOTAL CHLORINE: 0.8

TOTAL COPPER: 0.0

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.75

DETERGENTS: 0.75

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JAN. 04, 1999 (SAMPLE 1)* DATE: JAN. 05, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: CLEAR & SUNNY 01/04/99; CLEAR & SUNNY 01/05/99

TIME: 9:30 AM AIR TEMP: 21°C TIME: 9:45 AM AIR TEMP: 18°C

WATER TEMP: 12°C

WATER TEMP: 13°C

FLOW RATE: 4.0 CFS

FLOW RATE: 4.0 CFS

AVERAGE DEPTH: 2.0 IN.

AVERAGE DEPTH: 2.0 IN.

COLOR: CLEAR PH: 8.8

COLOR: CLEAR PH: 8.9

FLOATABLES: NO

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

ODOR:** NO

TURBIDITY: NO

TURBIDITY: NO

ALGAE: YES

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8

TOTAL CHLORINE: 0.6

TOTAL COPPER: 0.0

TOTAL COPPER: 0.0

TOTAL PHENOL: 0.0

TOTAL PHENOL: 0.0

DETERGENTS: 0.75

DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUNE 24, 1999 (SAMPLE 1)* DATE: JUNE 25, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: CLEAR & SUNNY 06/24/99; CLEAR & SUNNY 06/25/99

TIME: 11:55 PM AIR TEMP: 33°C
WATER TEMP: 33.1° C
FLOW RATE: 2.0 CFS
AVERAGE DEPTH: 1.0 IN.
COLOR: CLEAR PH: 9.9

TIME: 11:10 AM AIR TEMP: 32°C
WATER TEMP: 31.0° C
FLOW RATE: 2.0 CFS
AVERAGE DEPTH: 1.0 IN.
COLOR: CLEAR PH: 9.5

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORIMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUNE 24, 1999 (SAMPLE 1)* DATE: JUNE 25, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: CLEAR & SUNNY 06/24/99; CLEAR & SUNNY 06/25/99

TIME: 12:25 AM AIR TEMP: 32°C

WATER TEMP: 32°C

FLOW RATE: 3.0 CFS

AVERAGE DEPTH: 1.2 IN.

COLOR: CLEAR PH: 8.3

TIME: 09:30 AM AIR TEMP: 25°C

WATER TEMP: 24°C

FLOW RATE: 3.0 CFS

AVERAGE DEPTH: 1.2 IN.

COLOR: CLEAR PH: 8.3

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO

OIL SHEEN/SCUM:** NO

ODOR:** NO

TURBIDITY: NO

ALGAE: YES

AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUNE 24, 1999 (SAMPLE 1)* DATE: JUNE 25, 1999 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: CLEAR & SUNNY 06/24/99; CLEAR & SUNNY 06/25/99

TIME: 11:00 AM AIR TEMP: 34°C
WATER TEMP: 33°C
FLOW RATE: 3.5 CFS
AVERAGE DEPTH: 1.6 IN.
COLOR: CLEAR PH: 8.9

TIME: 9:00 AM AIR TEMP: 23°C
WATER TEMP: 13°C
FLOW RATE: 2.8 CFS
AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.7

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

TOTAL CHLORINE: 1.8
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN

ATTACHEMENT A - Page 1

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: DEC 15, 1999 (SAMPLE 1)* DATE: JUL 06, 2000 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12

LOCATION: N OF I8 BETWEEN MAGNOLIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: SUNNY & WARM 7/5/2000 & 7/6/2000

TIME: 13:45 PM AIR TEMP: 30°C
WATER TEMP: 32.0° C
FLOW RATE: 1.75 CFS
AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 9.5

TIME: 12:00 PM AIR TEMP: 34°C
WATER TEMP: 32.0° C
FLOW RATE: 2.0 CFS
AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 9.2

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



ROBERT GRISWOLD, SENIOR ENGINEERING TECHNICIAN

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUL 05, 2000 (SAMPLE 1)* DATE: JUL 06, 2000 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VERNON WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY & WARM 7/5/2000 & 7/6/2000

TIME: 11:00 AM AIR TEMP: 34°C
WATER TEMP: 30°C
FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 8.8

TIME: 10:30 AM AIR TEMP: 30°C
WATER TEMP: 28°C
FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.0 IN.
COLOR: CLEAR PH: 8.3

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

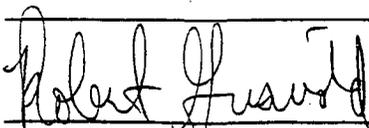
TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



ROBERT GRISWOLD, SENIOR ENGINEERING TECHNICIAN

ATTACHEMENT A - Page 5

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: JUL 05, 2000 (SAMPLE 1)* DATE: JUL 06, 2000 (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT NORTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: SUNNY & WARM 7/5/2000 & 7/6/2000

TIME: 11:20 AM AIR TEMP: 32°C
WATER TEMP: 33°C
FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.4 IN.
COLOR: CLEAR PH: 8.8

TIME: 11:00 AM AIR TEMP: 30°C
WATER TEMP: 33°C
FLOW RATE: 3.5 CFS
AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.7

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

FLOATABLES: NO
OIL SHEEN/SCUM:** NO
ODOR:** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

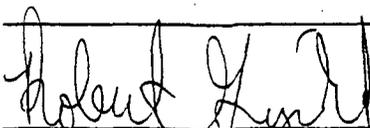
TOTAL CHLORINE: 1.0
TOTAL COPPER: 0.0
TOTAL PHENOL: 0.0
DETERGENTS: 0.25

SAMPLE COLLECTED: YES

SAMPLE COLLECTED: YES

COMMENTS: _____

COMMENTS: _____



ROBERT GRISWOLD, SENIOR ENGINEERING TECHNICIAN

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: (Date No. 1) (SAMPLE 1)* DATE: (Date No. 2) (SAMPLE 2)*

CHANNEL NAME: FORESTER CREEK (SAMPLING STATION #1)

MASTER DRAINAGE BOOK/PAGE: 12
LOCATION: N OF I8 BETWEEN MAG LIA AVENUE AND JOHNSON AVENUE

DRAINAGE AREA CHARACTER: COMMERCIAL/INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 16 FT.

WEATHER: *clear & warm* ; *clear & warm*
TIME: *1140 AM* AIR TEMP: *21.6C* TIME: *1115 AM* AIR TEMP: *18.7C*
WATER TEMP: *11.4C* WATER TEMP: *9.5C*
FLOW RATE: *2* CFS FLOW RATE: *2* CFS
AVERAGE DEPTH: *1* IN. AVERAGE DEPTH: *1* IN.
COLOR: CLEAR PH: *9.1* COLOR: CLEAR PH: *9.0*

FLOATABLES: *NO* FLOATABLES: *no*
OIL SHEEN/SCUM: *NO* OIL SHEEN/SCUM: *no*
ODOR: *NO* ODOR: *no*
TURBIDITY: *NO* TURBIDITY: *no*
ALGAE: *yes* ALGAE: *yes*
AQUATIC LIFE: *yes* AQUATIC LIFE: *yes*

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: *0.6* TOTAL CHLORINE: *0*
TOTAL COPPER: *0* TOTAL COPPER: *0*
TOTAL PHE L: *0* TOTAL PHE L: *0*
DETERGENTS: *0.25* DETERGENTS: *0.25*
AMMONIA: *-* AMMONIA: *-*

SAMPLE COLLECTED: *NO* SAMPLE COLLECTED:

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: (Date No. 1) (SAMPLE 1)* DATE: (Date No. 2) (SAMPLE 2)*

1/2/01 1/3/01
CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #4)

MASTER DRAINAGE BOOK/PAGE: 11

LOCATION: N OF VER N WAY BETWEEN JOHNSON AVE & MARSHALL AVE

DRAINAGE AREA CHARACTER: INDUSTRIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: clear + warm

clear + warm

TIME: 1042 PM AIR TEMP: 20 °C
WATER TEMP: 13.1 °C
FLOW RATE: 2 CFS
AVERAGE DEPTH: 1 IN.
COLOR: CLEAR PH: 8.8

TIME: 1035 AM AIR TEMP: 17 °C
WATER TEMP: 10.3 °C
FLOW RATE: 2 CFS
AVERAGE DEPTH: 1 IN.
COLOR: CLEAR PH: 8.8

FLOATABLES: NO
OIL SHEEN/SCUM: ** NO
ODOR: ** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS YES

FLOATABLES: NO
OIL SHEEN/SCUM: ** NO
ODOR: ** NO
TURBIDITY: NO
ALGAE: YES
AQUATIC LIFE: H2O INSECTS YES

COLORIMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.7
TOTAL COPPER: 0
TOTAL PHE L: 0
DETERGENTS: 0.25
AMMONIA: -

TOTAL CHLORINE: 0
TOTAL COPPER: 0
TOTAL PHE L: 0
DETERGENTS: 0.25
AMMONIA: -

SAMPLE COLLECTED: NO

SAMPLE COLLECTED: NO

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: (Date No. 1) (SAMPLE 1)* DATE: (Date No. 2) (SAMPLE 2)*
1/2/01 *1/03/01*

CHANNEL NAME: FORESTER CREEK CHANNEL (SAMPLING STATION #5)

MASTER DRAINAGE BOOK/PAGE: 5

LOCATION: FORESTER CREEK CHANNEL AT RTH CITY LIMIT

DRAINAGE AREA CHARACTER: INDUSTRIAL/COMMERCIAL

CHANNEL TYPE: CONCRETE LINED CHANNEL WIDTH AT BOTTOM: 20 FT.

WEATHER: *clear + warm*

clear + warm

TIME: *1110* AM AIR TEMP: *22* °C
WATER TEMP: *17.6* °C
FLOW RATE: *2* CFS
AVERAGE DEPTH: *1* IN.
COLOR: CLEAR PH: *8.9*

TIME: *1050* AM AIR TEMP: *20* °C
WATER TEMP: *13.1* °C
FLOW RATE: *2* CFS
AVERAGE DEPTH: *1* IN.
COLOR: CLEAR PH: *8.8*

FLOATABLES: *NO*
OIL SHEEN/SCUM: ** *NO*
ODOR: ** *NO*
TURBIDITY: *NO*
ALGAE: *yes*
AQUATIC LIFE: H2O INSECTS *yes*

FLOATABLES: *NO*
OIL SHEEN/SCUM: ** *NO*
ODOR: ** *NO*
TURBIDITY: *NO*
ALGAE: *yes*
AQUATIC LIFE: H2O INSECTS *yes*

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: *0.6*
TOTAL COPPER: *0*
TOTAL PHE L: *0*
DETERGENTS: *0.25*
AMMONIA: *-*

TOTAL CHLORINE: *0.1*
TOTAL COPPER: *0*
TOTAL PHE L: *0*
DETERGENTS: *0.25*
AMMONIA: *-*

SAMPLE COLLECTED: *no*

SAMPLE COLLECTED: *no*

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II