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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 mile
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: low

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 Vincente, 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.

JB
08/28/01

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.

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
Low

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.

JB
08/28/01

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

SUMMARY OF PROPOSED ACTION (recommendation for listing or no listing)

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 exceedences in levels of fecal coliform.

Recommend 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	Pollutant	Fecal coliform
Hydrologic Unit	San Diego River HUC 907.310	Total Waterbody Size	SD River Upper Middle - 10.0 miles
Size or reach affected	1 mile	Suspected Sources	urban runoff
Further Location Descriptors	Located in Santee	TMDL Priority	low

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 ail 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 Vincente, Jennings, Murray, El Capitan, and Cuymaca 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 permltee. Monthly data was taken for the months of Oct lst-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 ls 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 Fort-ester 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 l-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.

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

Low

7. Information Sources

The San Diego office of Baykeeper provide 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 the 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.

Padre Dam Municipal Wastewater District
Facility Santee Water Reclamation Plant
(619)258-4600

NPDES Permit Required Monitoring
Sample Type: Grab
Sample Frequency: Biweekly/Monthly
Analyzed By: Env. Eng. LAB & D. White

TOTAL/FECAL COLIFORM (MPN/100-ml)

Dates?

Site No.	Location	Parameter	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Apr-98	Apr-98	May-98	May-98	Jun-98
1	Carlton Hills Blvd. Bridge	Total	800	800	1300	3000	13000	1700	2300	300	2300	2300	700
1	Carlton Hills Blvd. Bridge	Fecal	2	2	2	2	2	2	2	200	2	2	200
2	Forrester Creek	Total	3000	3000	3000	7000	24000	5000	30000	5000	8000	5000	2300
2	Forrester Creek	Fecal	200	200	2	~~800~~	~~1100~~	~~1100~~	~~24000~~	200	~~1700~~	400	400
3	Sycamore Creek/SD River	Total	5000	500	5000	1300	13000	2200	3000	1300	2300	2300	2300
3	Sycamore Creek/SD River	Fecal	200	200	2	2	800	2	400	2	2	2	2
3a	Mast Blvd. Bridge	Total											
3a	Mast Blvd. Bridge	Fecal											
4	Old Mission Dam	Total	2300	2300	1700	8000	30000	2300	2200	7000	2300	2300	5000
4	Old Mission Dam	Fecal	2	2	2	2	1700	2	700	200	2	200	400
5	Mission Ponds	Total	NF	1700	400	800	3000	2600	3000	5000	2300	2300	3000
5	Mission Ponds	Fecal	NF	800	2	2	200	400	400	2	2	2	2
6	I-5 Estuary	Total	NF	2300	800	1700	13000	2100	3000	5000	1700	2300	3000
6	I-5 Estuary	Fecal	NF	2	2	2	800	200	2	200	2	2	2
6a	Fashion Valley Rd.	Total											
6a	Fashion Valley Rd.	Fecal											

TOTAL

Site No.	Location	Location	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Apr-98	Apr-98	May-98	May-98	Jun-98
1	Carlton Hills Blvd. Bridge	Carlton Hills Blvd. Bridge	800	800	1300	3000	13000	1700	2300	300	2300	2300	700
2	Forrester Creek	Forrester Creek	3000	3000	3000	7000	24000	5000	30000	5000	8000	5000	2300

TOTAL/FECAL COLIFORM (MPN/100-ml)

3	Sycamore Creek/SD River	Sycamore Creek/SD River	5000	500	5000	1300	13000	2200	3000	1300	2300	2300	2300
3a	Mast Blvd. Bridge	Mast Blvd. Bridge											
4	Old Mission Dam	Old Mission Dam	2300	2300	1700	8000	30000	2300	2200	7000	2300	2300	5000
5	Mission Ponds	Mission Ponds	NF	1700	400	800	3000	2600	3000	5000	2300	2300	3000
6	I-5 Estuary	I-5 Estuary	NF	2300	800	1700	13000	2100	3000	5000	1700	2300	3000
6a	Fashion Valley Rd.	Fashion Valley Rd.											
		MEAN	1387.5	1325.0	1525.0	2725.0	12000.0	1987.5	5437.5	2950.0	2362.5	2062.5	2037.5
		SE	616.7	340.3	603.6	1095.6	3376.4	420.0	3942.6	907.7	844.3	389.7	494.7

FECAL

Site No.	**Location**		**Oct-97**	**Nov-97**	**Dec-97**	**Jan-98**	**Feb-98**	**Mar-98**	**Apr-98**	**Apr-98**	**May-98**	**May-98**	**Jun-98**
1	Carlton Hills Blvd. Bridge		2	2	2	2	2	2	2	200	2	2	200
2	Forrester Creek		200	200	2	√800	√1100	√1100	√24000	200	√1700	400	400
3	Sycamore Creek/SD River		200	200	2	2	800	2	400	2	2	2	2
3a	Mast Blvd. Bridge												
4	Old Mission Dam		2	2	2	2	1700	2	700	200	2	200	400
5	Mission Ponds		NF	800	2	2	200	400	400	2	2	2	2
6	I-5 Estuary		NF	2	2	2	√800	200	2	200	2	2	2
6a	Fashion Valley Rd.												
		MEAN	50.5	150.8	1.5	101.3	575.3	213.3	3188.0	100.5	213.8	76.0	125.8
		SE	40.4	109.3	0.0	115.2	217.4	152.1	3422.0	36.1	245.1	58.8	69.2

FILE: s\wqs\303dlist\san diego river\San Diego River Bacteria Data
DATE PRINTED: 6/4/01

Padre Dam Municipal Wastewater District
Facility Santee Water Reclamation Plant
(619)258-4600

NPDES Permit Required Monitoring
Sample Type: Grab
Sample Frequency: Biweekly/Monthly
Analyzed By: Env. Eng. LAB & D. White

TOTAL/FECAL COLIFORM (MPN/100-ml)

PS Sampled 1/98

Site No.	Location	Jun-98	Jun-98	Jul-98	Jul-98	Aug-98	Aug-98	Sep-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99
1	Carlton Hills Blvd. Bridge	2300	1330	400	2	1700	2300	400	400	800	400	8000	600	1400	1300
1	Carlton Hills Blvd. Bridge	200	2	2	2	2	2	2	2	2	2	3000	2	2	2
2	Forrester Creek	300	1700	3000	1300	1600	1100	30000	2300	3000	30000	30000	3000	17000	50000
2	Forrester Creek	2	2	2	2	1600	2	2200	400	1100	1300	8000	200	2	400
3	Sycamore Creek/SD River	1100	1100	2300	2300	1300	2300	3000	1700	800	3000	5000	110	1300	2700
3	Sycamore Creek/SD River	2	2	800	2	200	2	800	200	2	400	1300	200	2	2
3a	Mast Blvd. Bridge														
3a	Mast Blvd. Bridge														
4	Old Mission Dam	800	3000	500	1700	1300	1300	2300	1600	400	1700	50000	2200	2300	3000
4	Old Mission Dam	2	200	200	200	2	2	200	2	2	2	5000	2	2	2
5	Mission Ponds	1300	2200	2300	1300	3000	400	300	800	300	2100	30000	400	800	800
5	Mission Ponds	2	200	2	2	2	2	200	2	200	400	1400	2	2	2
6	I-5 Estuary	1300	3000	2300	2300	1700	5000	1300	2300						
6	I-5 Estuary	2	200	800	200	700	1700	400	800						
6a	Fashion Valley Rd.									300	5000	17000	2	1100	5000
6a	Fashion Valley Rd.									200	700	1700	2	2	2

TOTAL

Site No.	Location	Jun-98	Jun-98	Jul-98	Jul-98	Aug-98	Aug-98	Sep-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99
1	Carlton Hills Blvd. Bridge	2300	1330	400	2	1700	2300	400	400	800	400	8000	600	1400	1300
2	Forrester Creek	300	√1700	√3000	√1300	√1600	√1100	√30000	√2300	√3000	√30000	√30000	3000	17000	50000

TOTAL/FECAL COLIFORM (MPN/100-ml)

3	Sycamore Creek/SD River	1100	1100	2300	2300	1300	2300	3000	1700	800	3000	5000	110	1300	2700
3a	Mast Blvd. Bridge														
4	Old Mission Dam	800	3000	500	1700	1300	1300	2300	1600	400	1700	50000	2200	2300	3000
5	Mission Ponds	1300	2200	2300	1300	3000	400	300	800	300	2100	30000	400	800	800
6	I-5 Estuary	1300	3000	2300	2300	1700	5000	1300	2300						
6a	Fashion Valley Rd.									300	5000	17000	2	1100	5000
		887.5	1541.3	1350.0	1112.8	1325.0	1550.0	4662.5	1137.5	700.0	5275.0	17500.0	789.0	2987.5	7850.0
		235.0	290.3	382.1	301.8	223.2	570.4	4136.3	275.2	367.2	4014.5	5940.0	439.7	2261.6	6867.2

FECAL

Site No.	Location	Jun-98	Jun-98	Jul-98	Jul-98	Aug-98	Aug-98	Sep-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99
1	Carlton Hills Blvd. Bridge	200	2	2	2	2	2	2	2	2	2	3000	2	2	2
2	Forrester Creek	2	2	2	2	~~1600~~	2	~~2200~~	400	~~1100~~	~~1300~~	~~8000~~	200	2	400
3	Sycamore Creek/SD River	2	2	~~800~~	2	200	2	~~800~~	200	2	400	~~1300~~	200	2	2
3a	Mast Blvd. Bridge														
4	Old Mission Dam	2	200	200	200	2	2	200	2	2	2	~~5000~~	2	2	2
5	Mission Ponds	2	200	2	2	2	2	200	2	200	400	~~1400~~	2	2	2
6	I-5 Estuary	2	200	~~800~~	200	~~700~~	~~1700~~	400	~~800~~						
6a	Fashion Valley Rd.									200	~~700~~	~~1700~~	2	2	2
		26.3	75.8	225.8	51.0	313.3	213.8	475.3	175.8	188.3	350.5	2550.0	51.0	1.5	51.3
		28.6	38.3	139.3	36.1	226.0	245.1	287.7	113.0	151.0	172.5	937.8	36.1	0.0	57.4

Padre Dam Municipal Wastewater District
Facility Santee Water Reclamation Plant
(619)258-4600

NPDES Permit Required Monitoring
Sample Type: Grab
Sample Frequency: Biweekly/Monthly
Analyzed By: Env. Eng. LAB & D. White

TOTAL/FECAL COLIFORM (MPN/100-ml)

Site No.	Location	Apr-00	Apr-00
1	Carlton Hills Blvd. Bridge	210	1100
1	Carlton Hills Blvd. Bridge	20	40
2	Forrester Creek	1700	8000
2	Forrester Creek	40	800
3	Sycamore Creek/SD River		
3	Sycamore Creek/SD River		
3a	Mast Blvd. Bridge	500	2200
3a	Mast Blvd. Bridge	20	220
4	Old Mission Dam	700	300
4	Old Mission Dam	20	200
5	Mission Ponds	500	300
5	Mission Ponds	40	40
6	I-5 Estuary		
6	I-5 Estuary		
6a	Fashion Valley Rd.	300	1300
6a	Fashion Valley Rd.	20	130

TOTAL

Site No.	Location	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	Apr-00
1	Carlton Hills Blvd. Bridge	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210	1100
2	Forrester Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700	8000

TOTAL/FECAL COLIFORM (MPN/100-ml)

3	Sycamore Creek/SD River														
3a	Mast Blvd. Bridge	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	2200
4	Old Mission Dam	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	700	300
5	Mission Ponds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	300
6	I-5 Estuary														
6a	Fashion Valley Rd.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	300	1300
		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	488.8	1650.0
		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191.4	1035.4

FECAL

Site No.	Location	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	Apr-00
1	Carlton Hills Blvd. Bridge	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	40
2	Forrester Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	800
3	Sycamore Creek/SD River														
3a	Mast Blvd. Bridge	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	220
4	Old Mission Dam	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	200
5	Mission Ponds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	40
6	I-5 Estuary														
6a	Fashion Valley Rd.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	130
		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.0	178.8
		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	101.0

Padre Dam Municipal Wastewater District
Facility Santee Water Reclamation Plant
(619)258-4600

NPDES Permit Required Monitoring
Sample Type: Grab
Sample Frequency: Biweekly/Monthly
Analyzed By: Env. Eng. LAB & D. White

TOTAL/FECAL COLIFORM (MPN/100-ml)

Site No.	Location	May-00	May-00	May-00	Jun-00	Jun-00	Jul-00	Jul-00	Aug-00	Aug-00	Sep-00	Sep-00
1	Carlton Hills Blvd. Bridge	900	3000	2200	700	300	300	1300	800	500	230	1300
1	Carlton Hills Blvd. Bridge	20	40	20	20	20	2	2	20	20	20	20
2	Forrester Creek	1700	1300	2200	2200	800	5000	1700	1700	9000	5000	1700
2	Forrester Creek	70	40	~~500~~	230	300	130	130	110	80	~~3000~~	~~500~~
3	Sycamore Creek/SD River											
3	Sycamore Creek/SD River											
3a	Mast Blvd. Bridge	1100	3000	9000	1100	9000	2400	2200	1400	9000	9000	5000
3a	Mast Blvd. Bridge	230	40	20	300	5000	40	40	70	130	800	500
4	Old Mission Dam	1300	1600	9000	300	2400	3000	1400	600	230	800	1400
4	Old Mission Dam	20	20	20	20	20	20	20	40	20	20	40
5	Mission Ponds	700	500	500	1700	800	2200	2400	1100	1100	300	500
5	Mission Ponds	20	40	20	20	70	20	40	110	40	130	40
6	I-5 Estuary											
6	I-5 Estuary											
6a	Fashion Valley Rd.	2200	1400	1700	16000	9000	2400	500	2400	1400	1700	1700
6a	Fashion Valley Rd.	130	700	500	5000	1400	800	170	800	500	1100	1300

TOTAL

Site No.	Location	May-00	May-00	May-00	Jun-00	Jun-00	Jul-00	Jul-00	Aug-00	Aug-00	Sep-00	Sep-00
1	Carlton Hills Blvd. Bridge	900	3000	2200	700	300	300	1300	800	500	230	1300
2	Forrester Creek	1700	1300	2200	2200	800	5000	1700	1700	9000	5000	1700

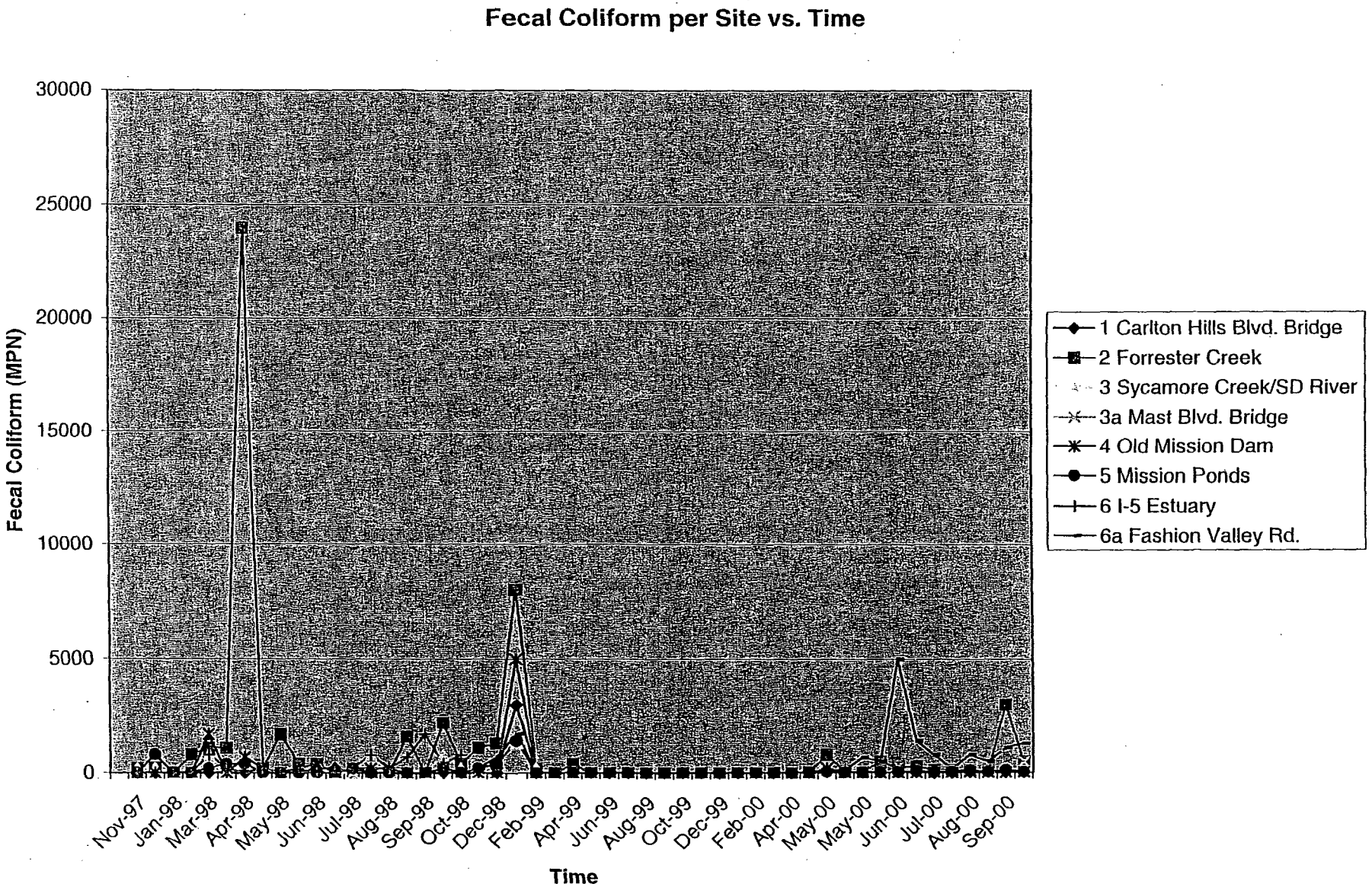
TOTAL/FECAL COLIFORM (MPN/100-ml)

3	Sycamore Creek/SD River										
3a	Mast Blvd. Bridge	1100	3000	9000	1100	9000	2400	2200	1400	9000	9000	5000
4	Old Mission Dam	1300	1600	9000	300	2400	3000	1400	600	230	800	1400
5	Mission Ponds	700	500	500	1700	800	2200	2400	1100	1100	300	500
6	I-5 Estuary											
6a	Fashion Valley Rd.	2200	1400	1700	16000	9000	2400	500	2400	1400	1700	1700
		987.5	1350.0	3075.0	2750.0	2787.5	1912.5	1187.5	1000.0	2653.8	2128.8	1450.0
		195.5	354.3	1359.8	2149.7	1468.4	534.7	242.3	232.0	1502.9	1238.3	553.5

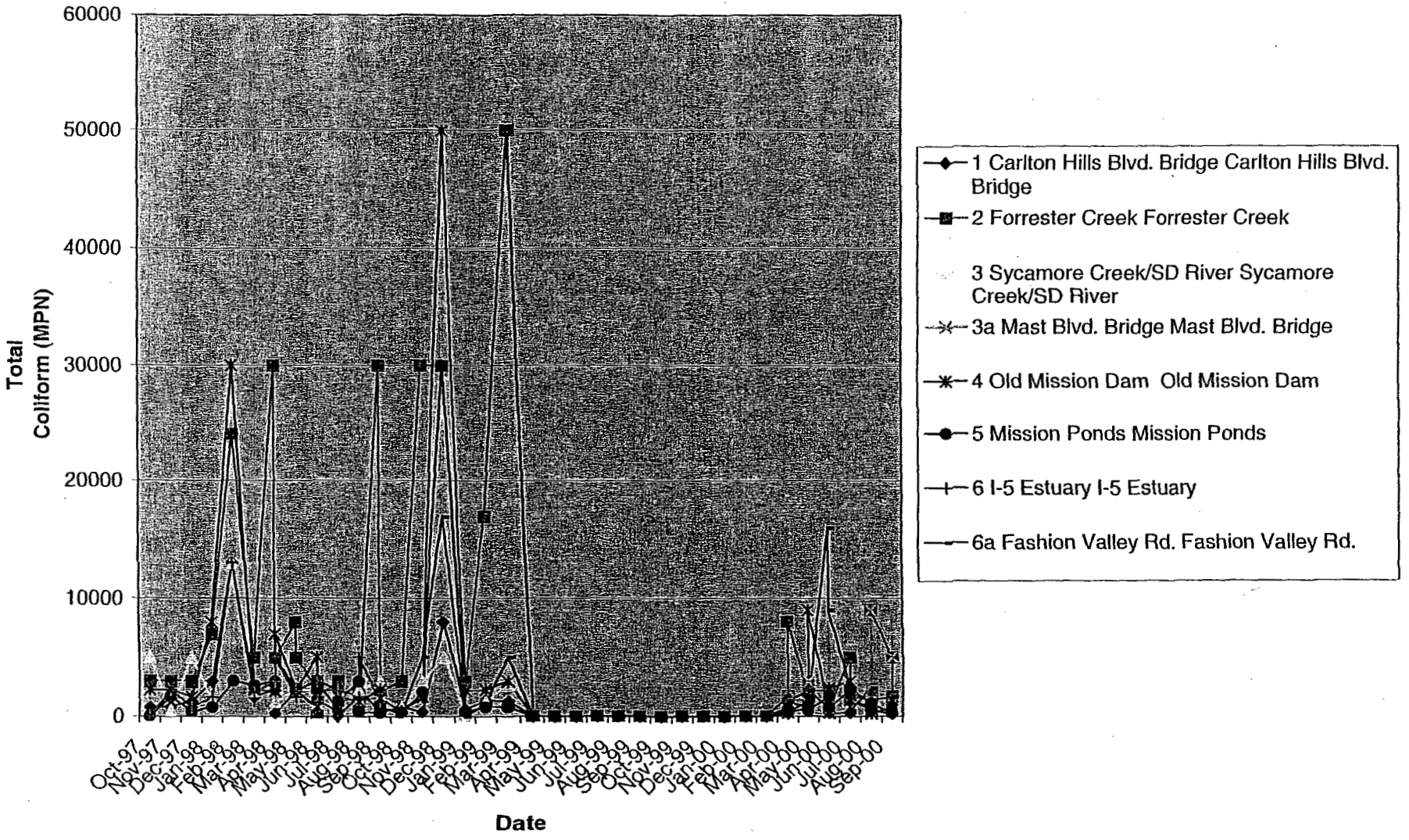
FECAL

Site No.	Location	May-00	May-00	May-00	Jun-00	Jun-00	Jul-00	Jul-00	Aug-00	Aug-00	Sep-00	Sep-00
1	Carlton Hills Blvd. Bridge	20	40	20	20	20	2	2	20	20	20	20
2	Forrester Creek	70	40	~~500~~	230	300	130	130	110	80	~~3000~~	500
3	Sycamore Creek/SD River											
3a	Mast Blvd. Bridge	230	40	20	300	~~5000~~	40	40	70	130	~~800~~	~~500~~
4	Old Mission Dam	20	20	20	20	20	20	20	40	20	20	40
5	Mission Ponds	20	40	20	20	70	20	40	110	40	130	40
6	I-5 Estuary											
6a	Fashion Valley Rd.	130	~~700~~	~~500~~	~~5000~~	~~1400~~	~~800~~	170	~~800~~	~~500~~	~~1100~~	~~1300~~
		61.3	110.0	135.0	698.8	851.3	126.5	50.3	143.8	98.8	633.8	300.0
		30.0	95.9	87.6	706.0	695.1	110.5	23.7	106.1	65.5	405.7	175.6

FILE: s\wqs\303dlist\san diego river\San Diego River Bacteria Data
DATE PRINTED: 6/4/01


Fecal Coliform per Site vs. Time
Fecal Coliform (MPN)
30000
25000
20000
15000
10000
5000
0
Nov-97
Jan-98
Mar-98
Apr-98
May-98
Jun-98
Jul-98
Aug-98
Sep-98
Oct-98
Dec-98
Feb-99
Apr-99
Jun-99
Aug-99
Oct-99
Dec-99
Feb-00
Apr-00
May-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Time
1 Carlton Hills Blvd. Bridge
2 Forrester Creek
3 Sycamore Creek/SD River
3a Mast Blvd. Bridge
4 Old Mission Dam
5 Mission Ponds
6 I-5 Estuary
6a Fashion Valley Rd.

Total Coliform MPN per Site vs. Time



San Diego River in Santee (907.110) – 303(d) Fact Sheet
Fish Kill Report from the R9WQCB (L. Brown)

This data does not lead to a listing recommendation.

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 WILD[1].

Water Quality Objectives not Obtained
None

Evidence of Impairment
R9WQCB staff documented photographic evidence of fish kills in the San Diego River at Santee.

Extent of Impairment
Fish kill is most likely attributable to pond turnover.

Potential Sources
No evidence of abrupt temperature changes, increased winds or excessive rainfall are evident that might trigger a sudden turnover that would prove lethal.

TMDL Priority
No TMDL is required at this time.

Notes

Information Sources
[1] Water Quality Control Plan for the San Diego Basin (9), 1994

07/31/01
jgs

California Regional Water Quality Control Board

San Diego Region

Winston H. Hickox
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov/rwqcb9/
9771 Clairemont Mesa Boulevard, Suite A, San Diego, California 92124-1324
Phone (858) 467-2952 • FAX (858) 571-6972

Gray Davis
Governor

TO: Greig Peters, SIRT Response Coordinator

FROM: Lisa Brown, Environmental Specialist III

DATE: September 1, 2000

SUBJECT: Fish kill in the San Diego River in Santee, reported August 30, 2000

A site visit was made on August 31, 2000 in response to the report of a fish kill potentially due to an illegal dumping of pesticide. A band of dead fish (shad) was observed around the edge of pond feature of the river. A few large fish (catfish, bullhead, bass, and bluegill) were also found dead in an isolated spot. Algae were also present at the edges of the pond. Numerous live fish of a different species from those that had died were observed swimming near shore. I spoke with a fisherman on scene. He said that there were dead fish all the way around the pond, however it was to a lesser degree on the north and west sides. The worst of it was on the eastern side.

The area was littered with debris from vagrants/homeless. There was no evidence of pesticide containers or a point of entry indicating an illegal dumping from the shoreline. Additionally, this condition was not present in the upstream section of stream feeding into the pond. A pesticide smell was not observed but rather a pungent odor that was likely due to gasses that developed from the anaerobic condition as well as decay. Furthermore, there was no observation of an oily sheen in the pond.

Digital photos were taken and placed on the network in S:\Complain\SIRT photos, SD River 8'31'00. A fish was collected for potential analysis for pesticides if needed. The sample is being stored in the freezer located in the laboratory/students office.

Telephone communication with Bill Paznokas of Department of Fish and Game (9/1/00, 1000). He had responded to the report on 8/30/00 and it was his opinion that the fish kill was a result of a shallow pond turnover and not a chemical spill. He also said that DFG had reports of fish kill events at the Buena Vista Lagoon and Canon Lake this week.

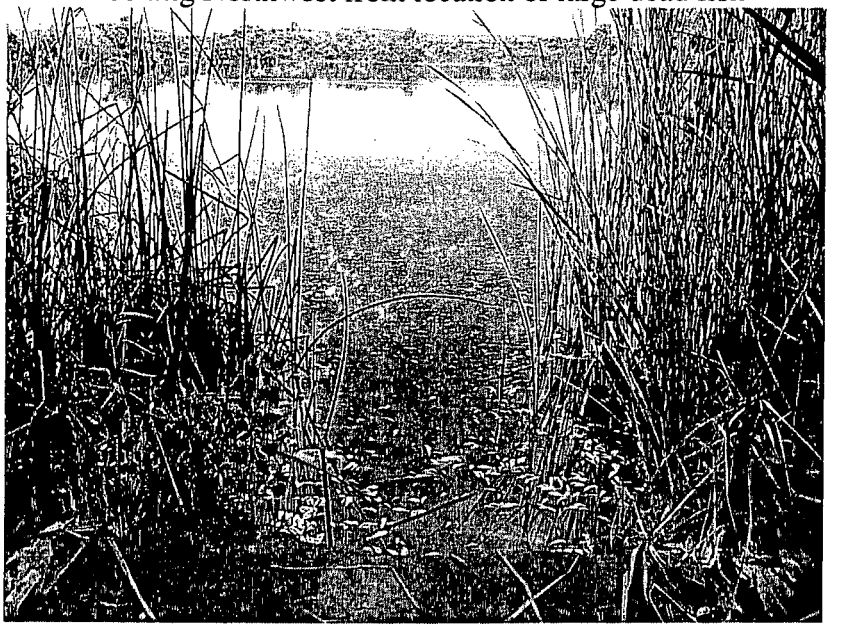
Based on the above information, this fish kill can be attributed to a shallow pond turnover, which created a low dissolved oxygen condition, killing the fish and causing the odor, and not a pesticide spill.

Looking towards the Southeast

Dead Shad
Note green algae/muck

Large dead fish on Southeast side

Looking Northwest from location of large dead fish



Forrester Creek (907.130) – 303(d) Fact Sheet
Spill Reports – SD Co DEH & City of El Cajon

The spill reports alone do not constitute enough evidence for listing. Combining this information with the evidence of high pH from NPDES monitoring by the City of El Cajon is enough to list this creek as impaired due to **high pH**. It should be placed on the **2002 303(d) list.**

Watershed Characteristics
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 WILD[1].

Water Quality Objectives not Obtained
No quantitative evidence of impairment of water quality objectives is provided. A qualitative assessment of damage along the creek is provided.

Evidence of Impairment
The only evidence submitted was reports of two spills of hazardous substances in to Forrester Creek. Ten to twenty gallons of an acid/water/copper mix (pH = 2 – 3) spilled from a chiller water tank in to a dry bed on 1 May 01. Approximately 1000 gallons of sodium hydroxide leaked from and holding tank found its way into the channel on 5 July 00. No water quality samples were taken.

Extent of Impairment
The smaller spill entered in to a dry bed, did not flow and was cleaned up. The larger spill did result in "environmental damage along Forrester Creek consistent with that described in the complaint." No quantitative assessment of the damage was provided.

Potential Sources
Sources are described above.

TMDL Priority – High pH values can increase the presence of ammonia. This could lead to toxic conditions for aquatic wildlife.

Notes
Indication of impairment due to these events should be linked with other data. The City of El Cajon NPDES monitoring data consistently shows pH values in excess of 9.0 at six sties along Forrester Creek.

Information Sources
[1] Water Quality Control Plan for the San Diego Basin (9), 1994

08/17/01
jgs

Notes
The accompaning fact sheet on Spill Reports by the SD Co DEH and the City of El Cajon describe a large spill of high-pH sodium hydroxide and lend support for this listing.

Source References
All water quality standards were taken from the Water Quality Control Plan for the San Diego Basin. Water quality data from City of El Cajon NPDES field screen data.

08/22/01
edited by jgs

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 ~~CODE~~ S/WALL
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	TIME: 10:55
AIR TEMP: 27 C	AIR TEMP: 27 C
WATER TEMP: 23 C	WATER TEMP: 23 C
FLOWRATE: 3 cfs (Est)/Meas	FLOWRATE: 2 (cfs) Est/Meas
AVE DEPTH: 2 ft/(in)	AVE DEPTH: 1.7 ft/(in)
COLOR: Clear pH 10.6	COLOR: CLEAR pH 9.2
FLOATABLES:** yes/(no)	FLOATABLES:** yes/(no)
OIL SHEEN/SCUM:** yes/(no)	OIL SHEEN/SCUM:** yes/(no)
ODOR:** yes/(no)	ODOR:** yes/(no)
TURBIDITY: (no)/yes organic/silt/clay	TURBIDITY: (no)/yes organic/silt/clay
ALGAE: (yes)/no	ALGAE: (yes)/no
AQUATIC LIFE: Algae	AQUATIC LIFE: Algae & Mud (organisms)

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 1.5 ppm	TOTAL CHLORINE: 0-7 ppm
TOTAL COPPER: 0.1 ppm	TOTAL COPPER: 0.1 ppm
TOTAL PHENOL: 0 ppm	TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm	DETERGENTS: 0.5 ppm
AMMONIA: _____ ppm	AMMONIA: _____ ppm
OTHER: _____	OTHER: _____
SAMPLE COLLECTED: yes/no	SAMPLE COLLECTED: yes/no
COMMENTS: _____	COMMENTS: _____

L.A.J.
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. FST#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: 2:20PM AIR TEMP: 28 C	TIME: 11:45 AIR TEMP: 28 C
WATER TEMP: 24 C	WATER TEMP: 24 C
FLOWRATE: 2.0 cfs Est/Meas	FLOWRATE: 1.8 cfs Est/Meas
AVE DEPTH: _____ ft/in	AVE DEPTH: _____ ft/in
COLOR: Clear pH 10.2	COLOR: _____ pH 9.7
FLOATABLES:** yes/no	FLOATABLES:** yes/no
OIL SHEEN/SCUM:** yes/no	OIL SHEEN/SCUM:** yes/no
ODOR:** yes/no	ODOR:** yes/no
TURBIDITY: no/yes organic/silt/clay	TURBIDITY: no/yes organic/silt/clay
ALGAE: yes/no	ALGAE: yes/no
AQUATIC LIFE: ALGAE & LARVAE	AQUATIC LIFE: ALGAE & LARVAE

COLORMETRIC FIELD TEST

TOTAL CHLORINE: 0.4 ppm	TOTAL CHLORINE: 1.0 ppm
TOTAL COPPER: 0.0 ppm	TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm	TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.75 ppm	DETERGENTS: 0.5 ppm
AMMONIA: _____ ppm	AMMONIA: _____ ppm
OTHER: _____	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. MITCHEL
MASTER DRAINAGE BOOK
PAGE: 5 ; _____ Ft. (NESW) of _____, Between _____ & _____

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

CHANNEL TYPE: Temp. Plastic lined channel (buried) out to Cajon

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

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

TIME: 3:15 AIR TEMP: 28 C	TIME: 12.15 AIR TEMP: 29 C
WATER TEMP: 22 C	WATER TEMP: 25 C
FLOWRATE: 4 cfs (Est)/Meas	FLOWRATE: 3 cfs Est/Meas
AVE DEPTH: 4 ft/(in)	AVE DEPTH: 3 1/2 ft/(in)
COLOR: Clear pH 9.7	COLOR: CLEAR pH 8.5
FLOATABLES:** yes/(no)	FLOATABLES:** yes/(no)
OIL SHEEN/SCUM:** yes/(no)	OIL SHEEN/SCUM:** yes/(no)
ODOR:** yes/(no)	ODOR:** yes/(no)
TURBIDITY: (no)/yes organic/silt/clay	TURBIDITY: (no)/yes organic/silt/clay
ALGAE: yes/(no)	ALGAE: yes/(no)
AQUATIC LIFE: none only in suspended	AQUATIC LIFE: none only in suspended
COLORMETRIC FIELD TEST	COLORMETRIC FIELD TEST
TOTAL CHLORINE: 0.3 ppm	TOTAL CHLORINE: 0.4 ppm
TOTAL COPPER: 0.0 ppm	TOTAL COPPER: 0.0 ppm
TOTAL PHENOL: 0.0 ppm	TOTAL PHENOL: 0.0 ppm
DETERGENTS: 0.5 ppm	DETERGENTS: 0.5 ppm
AMMONIA: _____ ppm	AMMONIA: _____ ppm
OTHER: _____	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: (Date No. 1) 1/2/01 (SAMPLE 1)* DATE: (Date No. 2) 1/03/01 (SAMPLE 2)*

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

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

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

COLORMETRIC FIELD TESTS (PPM)

TOTAL CHLORINE: 0.6
TOTAL COPPER: Ø
TOTAL PHE L: Ø
DETERGENTS: 0.25
AMMONIA: —

SAMPLE COLLECTED: NO

TOTAL CHLORINE: 0.1
TOTAL COPPER: Ø
TOTAL PHE L: Ø
DETERGENTS: 0.25
AMMONIA: —

SAMPLE COLLECTED: NO

COMMENTS: _____

COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN II

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

ROBERT GRISWOLD, SENIOR 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	TIME: 9:00 AM AIR TEMP: 23°C
WATER TEMP: 33°C	WATER TEMP: 13°C
FLOW RATE: 3.5 CFS	FLOW RATE: 2.8 CFS
AVERAGE DEPTH: 1.6 IN.	AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.9	COLOR: CLEAR PH: 8.7
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:	1.8
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.25	DETERGENTS:	0.25

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

_____ _____

_____ _____

_____
LUIS ANGULO, ENGINEERING TECHNICIAN

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 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	TIME: 10:30 AM AIR TEMP: 27°C
WATER TEMP: 23°C	WATER TEMP: 23°C
FLOW RATE: 3.2 CFS	FLOW RATE: 2.8 CFS
AVERAGE DEPTH: 1.5 IN.	AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 8.5	COLOR: CLEAR PH: 8.4
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
AMMONIA:	0.0	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	TIME: 10:30 AM AIR TEMP: 30°C
WATER TEMP: 21°C	WATER TEMP: 21°C
FLOW RATE: 2.8 CFS	FLOW RATE: 2.8 CFS
AVERAGE DEPTH: 1.5 IN.	AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 9.9	COLOR: CLEAR PH: 9.5
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:	0.6	TOTAL CHLORINE:	0.6
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.50	DETERGENTS:	0.50
AMMONIA:	0.0	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: MAY 13, 1996 (SAMPLE 1)*

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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

DATE: MAY 14, 1996 (SAMPLE 2)*

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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

Robert Griswold 7/10/96

ROBERT GRISWOLD, ENGINEERING TECHNICIAN III

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	TIME: 12:15 PM AIR TEMP: 27°C
WATER TEMP: 26°C	WATER TEMP: 26°C
FLOW RATE: 2.3 CFS	FLOW RATE: 2.5 CFS
AVERAGE DEPTH: 2.5 IN.	AVERAGE DEPTH: 2.5 IN.
COLOR: CLEAR PH: 9.3	COLOR: CLEAR PH: 9.4
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:	1.5	TOTAL CHLORINE:	1.5
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.5	DETERGENTS:	0.5

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

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LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: (Date No. 1) 1/2/01 (SAMPLE 1)*	DATE: (Date No. 2) 1/3/01 (SAMPLE 2)*
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	TIME: 1035 AM AIR TEMP: 17 °C
WATER TEMP: 13.1 °C	WATER TEMP: 10.3 °C
FLOW RATE: 2 CFS	FLOW RATE: 2 CFS
AVERAGE DEPTH: 1 IN.	AVERAGE DEPTH: 1 IN.
COLOR: CLEAR PH: 8.8	COLOR: CLEAR PH: 8.8
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 yes	AQUATIC LIFE: H2O INSECTS yes
COLORMETRIC FIELD TESTS (PPM)	
TOTAL CHLORINE: 0.7	TOTAL CHLORINE: Ø
TOTAL COPPER: Ø	TOTAL COPPER: Ø
TOTAL PHE L: Ø	TOTAL PHE L: Ø
DETERGENTS: 0.25	DETERGENTS: 0.25
AMMONIA: —	AMMONIA: —
SAMPLE COLLECTED: NO	SAMPLE COLLECTED: NO
COMMENTS: _____	COMMENTS: _____

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LUIS ANGULO, ENGINEERING TECHNICIAN II

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

ROBERT GRISWOLD, SENIOR 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	TIME: 09:30 AM AIR TEMP: 25°C
WATER TEMP: 32°C	WATER TEMP: 24°C
FLOW RATE: 3.0 CFS	FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.2 IN.	AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 8.3	COLOR: CLEAR PH: 8.8
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:	0.25	DETERGENTS:	0.25

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

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LUIS ANGULO, ENGINEERING TECHNICIAN

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: _____

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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	TIME: 09:30 AM AIR TEMP: 25°C
WATER TEMP: 23°C	WATER TEMP: 22.5°C
FLOW RATE: 3.0 CFS	FLOW RATE: 3.0 CFS
AVERAGE DEPTH: 1.2 IN.	AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 8.3	COLOR: CLEAR PH: 8.3
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:	0.5
AMMONIA:	0.0	AMMONIA:	0.0
SAMPLE COLLECTED: YES		SAMPLE COLLECTED: YES	
COMMENTS: _____		COMMENTS: _____	

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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	TIME: 10:05 AM AIR TEMP: 26°C
WATER TEMP: 21°C	WATER TEMP: 19°C
FLOW RATE: 2.5 CFS	FLOW RATE: 2.5 CFS
AVERAGE DEPTH: 1.0 IN.	AVERAGE DEPTH: 1.0 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:	0.6	TOTAL CHLORINE:	0.5
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.5	DETERGENTS:	0.5
AMMONIA:	0.0	AMMONIA:	0.0

SAMPLE COLLECTED: YES	SAMPLE COLLECTED: YES
COMMENTS: _____	COMMENTS: _____
_____	_____
_____	_____

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LUIS ANGULO, ENGINEERING TECHNICIAN II

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: MAY 13, 1996 (SAMPLE 1)*

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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

DATE: MAY 14, 1996 (SAMPLE 2)*

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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

Robert Griswold 7/10/96

ROBERT GRISWOLD, ENGINEERING TECHNICIAN III

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: SEPT 27, 1994 (SAMPLE 1)*

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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

DATE: SEPT 28, 1994 (SAMPLE 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

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

SAMPLE COLLECTED: YES

COMMENTS: _____

LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

CITY OF EL CAJON
NPDES
FIELD SCREEN DATA

DATE: (Date No. 1) 1/2/01 (SAMPLE 1)* DATE: (Date No. 2) 1/3/01 (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 ~~PM~~ AM AIR TEMP: 21.6C	TIME: 1115 ~~PM~~ AM AIR TEMP: 18.7°C
WATER TEMP: 11.4°C	WATER TEMP: 9.5°C
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: Ø
TOTAL COPPER: Ø	TOTAL COPPER: Ø
TOTAL PHE L: Ø	TOTAL PHE L: Ø
DETERGENTS: 0.25	DETERGENTS: 0.25
AMMONIA: —	AMMONIA: —
SAMPLE COLLECTED: NO	SAMPLE COLLECTED:
COMMENTS: _____	COMMENTS: _____

LUIS ANGULO, ENGINEERING TECHNICIAN

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	TIME: 12:00 PM AIR TEMP: 34°C
WATER TEMP: 32.0° C	WATER TEMP: 32.0° C
FLOW RATE: 1.75 CFS	FLOW RATE: 2.0 CFS
AVERAGE DEPTH: 1.2 IN.	AVERAGE DEPTH: 1.5 IN.
COLOR: CLEAR PH: 9.5	COLOR: CLEAR PH: 9.2
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:	1.0	TOTAL CHLORINE:	1.0
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.25	DETERGENTS:	0.25

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

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Robert Griswold

ROBERT GRISWOLD, SENIOR 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 (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	TIME: 11:10 AM AIR TEMP: 32°C
WATER TEMP: 33.1° C	WATER TEMP: 31.0° C
FLOW RATE: 2.0 CFS	FLOW RATE: 2.0 CFS
AVERAGE DEPTH: 1.0 IN.	AVERAGE DEPTH: 1.0 IN.
COLOR: CLEAR PH: 9.9	COLOR: CLEAR PH: 9.5
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:	1.0	TOTAL CHLORINE:	1.0
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.25	DETERGENTS:	0.25

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

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LUIS ANGULO, ENGINEERING TECHNICIAN

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	TIME: 11:45 AM AIR TEMP: 23°C
WATER TEMP: 12.0° C	WATER TEMP: 12.0° C
FLOW RATE: 2.0 CFS	FLOW RATE: 2.5 CFS
AVERAGE DEPTH: 1.0 IN.	AVERAGE DEPTH: 1.2 IN.
COLOR: CLEAR PH: 9.0	COLOR: CLEAR PH: 9.2
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:	0.6	TOTAL CHLORINE:	0.8
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.8	DETERGENTS:	1.0

SAMPLE COLLECTED: YES SAMPLE COLLECTED: YES

COMMENTS: _____ COMMENTS: _____

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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 (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	TIME: 08:00 AM AIR TEMP: 17°C
WATER TEMP: 17.0° C	WATER TEMP: 12.0° C
FLOW RATE: 1.0 CFS	FLOW RATE: 0.6 CFS
AVERAGE DEPTH: .4 IN.	AVERAGE DEPTH: .2 IN.
COLOR: CLEAR PH: 9.4	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:	0.2	TOTAL CHLORINE:	0.2
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.25	DETERGENTS:	0.75
AMMONIA:	0.0	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: 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	TIME: 12:20 AM AIR TEMP: 33°C
WATER TEMP: 28°C	WATER TEMP: 31.6°C
FLOW RATE: .6 CFS	FLOW RATE: .7 CFS
AVERAGE DEPTH: .5 IN.	AVERAGE DEPTH: .75 IN.
COLOR: CLEAR PH: 9.6	COLOR: CLEAR PH: 9.8
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:	0.3	TOTAL CHLORINE:	0.2
TOTAL COPPER:	0.0	TOTAL COPPER:	0.0
TOTAL PHENOL:	0.0	TOTAL PHENOL:	0.0
DETERGENTS:	0.5	DETERGENTS:	0.5
AMMONIA:	0.0	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: SEPT 27, 1994 (SAMPLE 1)*

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

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:	0.15 OK
TOTAL PHENOL:	0.0
DETERGENTS:	0.25

SAMPLE COLLECTED: YES

COMMENTS: _____

DATE: SEPT 28, 1994 (SAMPLE 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

TOTAL CHLORINE:	1.5
TOTAL COPPER:	0.1 OK
TOTAL PHENOL:	0.0
DETERGENTS:	0.25

SAMPLE COLLECTED: YES

COMMENTS: _____

LUIS ANGULO-LANDEROS - ENGINEERING TECHNICIAN I

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 Deparment of Environmental Health (DEH) has received a complaint and has determined that it does not have sufficent 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

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

1150WBradleyAve.wpd

Padre Dam (influent and receiving waters) (907.120) – 303(d) Fact Sheet
Padre Dam Municipal Water District Receiving Water Sampling & Analysis
(Padre Dam, Carlton Hills Blvd Bridge, **Forester Creek**, Sycamore Creek, Old Mission Dam, Mission Pond, I-5 Estuary and Fashion Valley Road)

Forester Creek should be listed as threatened for ammonia-nitrogen. In addition, **Forester Creek should be 303(d) listed for specific conductance and total dissolved solids.**

Watershed Characteristics
Padre Dam is a Publicly Owned Treatment Work (POTW) that sits on Sycamore Canyon Creek, a tributary to the San Diego River. Sampling sites were located at influence to the facility, Carlton Hills Blvd Bridge, Forester Creek, Old Mission Dam, Mission Pond and Fashion Valley Road. These areas are located in the Lower San Diego River in the San Diego River Watershed of Region 9. Sycamore Canyon Creek is classified inland surface water with the following beneficial uses: AGR, IND, REC1, REC2, WARM, COLD WILD and Rare[1]. This designation also covers the Padre Dam, Carlton Hills Blvd Bridge, Old Mission Dam and Mission Pond sites. Forester Creek is classified inland surface water with the following beneficial uses: **MUN**, IND, REC1, REC2, WARM, COLD and WILD[1]. Fashion Valley Road and the I-5 Estuary are located further downstream and is classified inland surface water with the following beneficial uses: AGR, IND, REC1, REC2, WARM, COLD and WILD[1].

Water Quality Objectives not Obtained
Secondary Maximum Contaminant Levels[2] (MCLs) for specific conductance were exceeded. Basin plan standards[1] for ammonia-nitrogen were exceeded. Note that drinking water standards were applied to Forester Creek.

Evidence of Impairment
Sampling occurred at point of influence into the plant, effluent ponds, at Cl_2 contact ponds, at a "raw sludge" point and at seven receiving bodies. Point of influence, Cl_2 contact ponds and "raw sludge" data were analyzed.

The secondary MCL for specific conductance was exceeded every time it was measured. TDS values at Forester Creek always exceeded the MCL for drinking water (Table 1b). Concentrations of ammonia-nitrogen were frequently in excess of Basin Plan Standards. Ammonia-nitrogen was often two-times the standard. See attached tables for standard values, average values and frequency of exceedance.

Extent of Impairment
Sampling occurred at Carlton Hills Blvd Bridge, Forester Creek, Sycamore Creek, Old Mission Dam, Mission Pond, I-5 Estuary and Fashion Valley Road. Determining the extent of impairment from a single point in a waterbody is

difficult and dubious. An estimated extent of up and down stream for ½ mile is the conservative estimate.

Potential Sources
Unknown

TMDL Priority
A medium TMDL is recommended at this time.

Notes
Only data from the last quarter of 1997 and all of 2000 were analyzed. 1998 and 1999 data were reviewed only if the evidence of impairment condition was not clear in the 1997 and 2000 data sets.

Due to the limited nature of the sampling design, the percentage of time that water quality is impaired per year is not clear. While exceedances of TDS and specific conductance standards were always present, standard exceedances of ammonia-nitrogen warrant further investigation. DO sampling occurred generally in the morning hours and may be influencing the results.

TDS may consist of carbonates, bicarbonates, chlorides, sulfates, phosphates, nitrates, magnesium, sodium, iron and manganese. The most frequent constituents are usually salts (sodium, chloride, boron, etc.) Most of the problem can be traced to human impacts, and therefore, can be cleaned up. Geologic conditions help to define the natural levels of many of these constituents. The fact that Felicita Creek flows into the Lake Hodges drinking water reservoir adds further support for 303(d) listing. High TDS concentrations may be expected to impair the MUN beneficial use. High concentrations of TDS are also expected to impact the AGR beneficial use directly through irrigation waters or indirectly through adverse effects on soil permeability. TDS values between 450 to 2000 mg/L are expected to have a slight to moderate restriction on use of waters for irrigation of crops[1]. All samples were well above the secondary MCL for drinking water.[2] In addition, the average value in 9 of 10 months exceeded the Basin Plan Standard of 1500 mg/L.[1]

Specific Conductance
Excess of the secondary MCL of 900 umhos was always exceeded in Forester Creek. This is most likely caused by the same source(s) that lead to the high TDS concentrations. Beneficial use impacts would be expected to be the same are for high TDS concentrations.

Information Sources
[1] Water Quality Control Plan for the San Diego Basin (9), 1994
[2] State of California, 2001. California Code of Regulations, TITLE 22. Social Security Division 4. Environmental Health Chapter 15. Domestic Water Quality and Monitoring Regulations, Articles 4 and 16.

09/04/01
jgs

Table 1b Forester Creek - 1997 and 2000

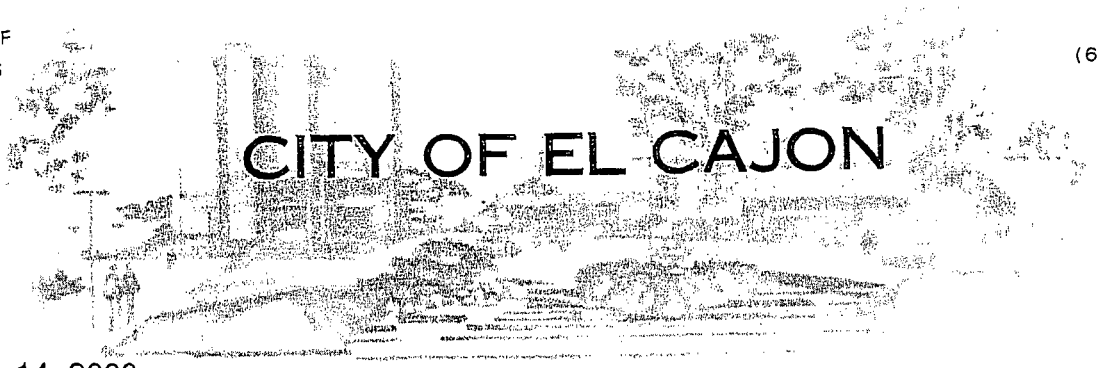
Sep-Dec 97 & Jan-Dec 2000 Data

		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	**umhos**	**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	2 of 2 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, 5.0?**										
Color	**units**	**15**										
MBAS	**(mg/L)**	**0.5**										
% NA	**%**	**60**										
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: CL_2 contact basin, Plant Raw Sludge

8/22/01
jgs

DEPARTMENT OF
PUBLIC WORKS



TELEPHONE
(619) 441-1653

March 14, 2003

Mr. John Robertus, Executive Director
Attention: Mike Porter
San Diego Regional Water Quality Control Board
9174 Sky Park Court, Suite 100
San Diego, CA 92123

Subject: Response to Basin Plan Triennial Review

Dear Mr. Robertus:

In response to the January 28, 2003 Notice of Public Solicitation Period and Public Workshop for Basin Plan Triennial Review, the City of El Cajon is submitting comments for Forester Creek. Please find attached two complete submittal forms.

If you have any questions, please contact Mr. Dennis Davies (619) 441-1661 or Julie Hampel (619) 441-5580 of my staff.

Sincerely,

For A. Marvin Munzenmaier
Director of Public Works

Enclosure

c. City Attorney
Dennis Davies
Julie Hampel

2003 Basin Plan Triennial Review
Comment Submittal Form

SUBMITTING ORGANIZATION

Name: City of El Cajon	
Address: 200 East Main St., El Cajon, CA 92020	
Contact Person Name: Dennis Davies	
Contact Person Phone Number: (619) 441-1611	*Contact Person Fax Number:* (619) 579-5254
Contact Person E-mail address: ddavies@ci.el-cajon.ca.us	

BASIN PLAN ISSUE (Instructions for completion appear on the back)

Name of Basin Plan Issue: Establish a procedure for revising beneficial use designations.
Affected Waterbody(ies) and Watershed(s): Waterbodies: Forrester Creek (907.13) and any waterbody that meets the criteria set forth in the Code of Federal Regulations (40 CFR 131.10(g)) for removal of a beneficial use designation.
Concise Summary of Basin Plan Issue: As we establish water quality objectives and implement plans to protect beneficial uses, it is imperative that we have a procedure for analyzing beneficial uses that are nonexistent or possibly unattainable.
Detailed Description of Basin Plan Issue: Federal Regulations state that a beneficial use designation can be removed by the state if certain criteria are met (40 CFR 131.10 (g)). Currently, it seems that there is no procedure for analyzing and revising the designated uses of waterbodies in the San Diego Region. When a waterbody potentially meets the Federal requirements for removal of a beneficial use, the Regional Board should have a procedure for initiating a "use attainability analysis" to determine if the beneficial use should be revised.
Result/Goal of Basin Plan Issue: The ultimate goal of this issue is to establish a procedure for analyzing and revising designated beneficial uses that are possibly nonexistent or unattainable. Hopefully, this would begin a move toward working to protect uses that actually benefit the people of Region 9.
Justification: The Regional Board should consider this there is a duty to the public to ensure waters are protected to the benefit they provide. Establishing appropriate and applicable water quality objectives and plans to protect beneficial uses is crucial in meeting the public's desire for useable waters.
Supporting Information or Data: AB982 and results of the City of Los Angeles versus USPEA No. CV00-08919R (RZx) where exceptions to the Basin Plan requirements were granted for storm water.
Affected Parties: All of the residents, businesses, industries, and municipalities the San Diego Region.
Recommended Priority: Priority 1

STAKEHOLDER LIST

Name of Organization	Contact Name	U.S. Mail Address	Phone Number	E-mail Address

2003 Basin Plan Triennial Review
Comment Submittal Form

SUBMITTING ORGANIZATION

Name: City of El Cajon	
Address: 200 East Main St., El Cajon, CA 92020	
Contact Person Name: Dennis Davies	
Contact Person Phone Number: (619) 441-1611	*Contact Person Fax Number:* (619) 579-5254
Contact Person E-mail address: ddavies@ci.el-cajon.ca.us	

BASIN PLAN ISSUE (Instructions for completion appear on the back)

Name of Basin Plan Issue: Revision of designated beneficial uses to recognize flood control and its incompatibility with beneficial uses in some cases.
Affected Waterbody(ies) and Watershed(s): Waterbodies: Any waterbody that has been modified for the purpose of flood control and may provide restricted access to protect the public. For example, Forrester Creek (907.13).
Concise Summary of Basin Plan Issue: Beneficial Uses such as contact recreation (REC1) and flood control are not compatible with certain beneficial uses.
Detailed Description of Basin Plan Issue: Several waterbodies in Region 9, including Forrester Creek (907.13) were modified (lined with concrete) prior to the creation of the Basin Plan. Public safety and health are primary focus of any waterbody. Flood control areas are often restructured to public access using fences and gates. Contact recreation is prohibited in channels as the area is unsafe for human use. Many of the waterbodies in the San Diego River Watershed are used primarily for flood control. Such a designation is the Basin Plan would provide a proper basis for determining water quality
Result/Goal of Basin Plan Issue: The goal of this issue is to refine the beneficial use categories in such a way that recognizes the fact that flood control is the primary use for certain waterbodies in Region 9.
Justification: The Regional Board should consider this issue because beneficial use designation forms the cornerstone of water quality protection. If flood control and its incompatibility with other uses are ignored, it will be impossible to move forward in our efforts to protect the uses of waterbodies that truly benefit the public.
Supporting Information or Data:
Affected Parties: All of the residents, businesses, industries, and municipalities the San Diego Region.
Recommended Priority: Priority 2

STAKEHOLDER LIST

Name of Organization	Contact Name	U.S. Mail Address	Phone Number	E-mail Address