Sycamore Cyn Creek 907,120

File Name: J:\LIMSUSER\rkf\syc2-an.csv San Diego Water Quality Laboratory WQL

Report By: RKF Report Date: June 1, 2000 1:41 PM

Report Selection Criteria Analysis IN ('ANIONS\_IC') Reportable(1/0) = 1 Sample Date BETWEEN '01-Jan-2000' AND '31-May-2000' Source IN ('SCY2') Test Type IN ('SAMP')

Report Options Equal\_Weight\_Samples=Y Equal\_Weight\_Days=N Apply\_Less\_Than=Y Non\_Detect\_Mdl\_Factor=NULL Concatenate\_Cells\_Calculation=N Quote\_Strings=Y Strip\_Internal=N Print\_Comments=Y

**Output Specification** 

Sample Date Sample Id Source Protocol Analyte Avg Qualifier Avg Value Avg Units Avg MDL

Report Data

Number of result records gueried: 10 Number of summary records found: 10 Sample Da Sample Id Source Avg Qualifi Avg Value Avg Units Avg MDL Protocol Analyte 6-Mar-00 W133162 SCY2 EPA300A BROMIDE 0.288 MG/L 0.1 21-Feb-00 W131086 SCY2 EPA300A BROMIDE 0.194 MG/L 0.1 6-Mar-00 W133162 SCY2 EPA300A CHLORIDE 192 MG/L 0.5 21-Feb-00 W131086 SCY2 40.8 MG/L 0.5 EPA300A CHLORIDE 11.9 MG/L 0.2 6-Mar-00 W133162 SCY2 EPA300A NITRATE 21-Feb-00 W131086 SCY2 EPA300A NITRATE 26.6 MG/L 0.2 6-Mar-00 W133162 SCY2 EPA300A PHOSPHATE O 1.5 MG/L 0.2 21-Feb-00 W131086 SCY2 EPA300A PHOSPHATE\_O 4.75 MG/L 0.2 6-Mar-00 W133162 SCY2 EPA300A SULFATE 288 MG/L 0.5 21-Feb-00 W131086 SCY2 EPA300A SULFATE 85.7 MG/L 0.5 File Name: J:\LIMSUSER\rkf\SYC2-ANIONS.csv San Diego Water Quality Laboratory WQL

Report By: RKF Report Date: May 31, 2000 2:03 PM

Report Selection Criteria Analysis IN ('ANIONS\_IC') Reportable(1/0) = 1 Sample Date BETWEEN '01-Jan-2000' AND '31-May-2000' Source IN ('GVC2') Test Type IN ('SAMP')

Report Options Equal\_Weight\_Samples=Y Equal\_Weight\_Days=N Apply\_Less\_Than=Y Non\_Detect\_Mdl\_Factor=NULL Concatenate\_Cells\_Calculation=N Quote\_Strings=Y Strip\_Internal=N Print\_Comments=Y

**Output Specification** 

Sample Date Sample Id Source Protocol Analyte Avg Qualifier Avg Value Avg Units Avg MDL

#### **Report Data**

Number of result records queried: 71 Number of summary records found: 60 Sample Da Sample Id Source Avg Qualifi Avg Value Avg Units Avg MDL Protocol Analyte 3-Apr-00 W138336 GVC2 EPA300A BROMIDE 0.721 MG/L 0.1 6-Mar-00 W133136 GVC2 EPA300A BROMIDE 0.146 MG/L 0.1 10-Apr-00 W140968 GVC2 EPA300A BROMIDE 0.723 MG/L 0.1 13-Mar-00 W134395 GVC2 EPA300A BROMIDE 0.422 MG/L 0.1 0.19 MG/L 0.1 EPA300A BROMIDE 14-Feb-00 W128776 GVC2 14-Feb-00 W128953 GVC2 EPA300A BROMIDE 0.206 MG/L 0.1 0.226 MG/L 0.1 15-Feb-00 W128954 GVC2 EPA300A BROMIDE EPA300A BROMIDE 0.222 MG/L 0.1 15-Feb-00 W128955 GVC2 0.1 18-Apr-00 W141890 GVC2 EPA300A BROMIDE 0.131 MG/L 0.647 MG/L 0.1 21-Mar-00 W135239 GVC2 EPA300A BROMIDE 0.1 EPA300A BROMIDE ND MG/L 22-Feb-00 W130336 GVC2 0.344 MG/L 0.1 29-Feb-00 W132079 GVC2 EPA300A BROMIDE EPA300A CHLORIDE 3-Apr-00 W138336 GVC2 394 MG/L 0.1

6-Mar-00 W133136	GVC2 EPA	A300A	CHLORIDE	97.6	MG/L	0.5
10-Apr-00 W140968	GVC2 EPA	A300A	CHLORIDE	403	MG/L	0.5
13-Mar-00 W134395		A300A	CHLORIDE	230	MG/L	0.5
14-Feb-00 W128776	GVC2 EPA	300A	CHLORIDE	116		0.5
14-Feb-00 W128953			CHLORIDE			0.5
15-Feb-00 W128954			CHLORIDE			0.5
15-Feb-00 W128955			CHLORIDE			0.5
18-Apr-00 W141890			CHLORIDE			0.5
21-Mar-00 W135239			CHLORIDE			0.5
22-Feb-00 W130336			CHLORIDE			0.5
29-Feb-00 W132079			CHLORIDE			0.5
3-Apr-00 W138336			NITRATE	0.419		0.1
6-Mar-00 W133136			NITRATE			0.2
10-Apr-00 W140968			NITRATE	0.929		0.2
13-Mar-00 W134395			NITRATE			0.2
14-Feb-00 W128776			NITRATE			0.2
14-Feb-00 W128770			NITRATE			0.2
15-Feb-00 W128954			NITRATE			0.2
15-Feb-00 W128955			NITRATE			0.2
18-Apr-00 W141890			NITRATE			0.1
21-Mar-00 W135239			NITRATE ND	2.70		0.2
22-Feb-00 W130336			NITRATE	3 72		0.2
29-Feb-00 W132079			NITRATE			0.2
3-Apr-00 W138336			PHOSPHAND			0.1
6-Mar-00 W133136			PHOSPHATE_O	0°58		0.2
10-Apr-00 W140968			PHOSPHATE_O			0.2
13-Mar-00 W134395			PHOSPHATE_O			0.2
14-Feb-00 W128776			PHOSPHATE_O			0.2
14-Feb-00 W128770			PHOSPHATE_O			0.2
15-Feb-00 W128953			PHOSPHATE_O			0.2
15-Feb-00 W128955			PHOSPHATE_O			0.2
18-Apr-00 W141890			PHOSPHATE_O			0.1
21-Mar-00 W135239			PHOSPHANE_O			0.2
22-Feb-00 W130336			PHOSPHATE O			0.2
22-Feb-00 W130336 29-Feb-00 W132079			PHOSPHATE_O			0.2
3-Apr-00 W138336	and the second secon		SULFATE		a die Naarden Staat in die en gewaarde van de staat de staat de staat die staat die staat die staat die staat d	0.1
6-Mar-00 W133136			SULFATE			0.5
10-Apr-00 W130138			SULFATE			0.5
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13-Mar-00 W134395			SULFATE			0.5
14-Feb-00 W128776			SULFATE			0.5
14-Feb-00 W128953			SULFATE			0.5
15-Feb-00 W128954			SULFATE			0.5
15-Feb-00 W128955			SULFATE			0.5
18-Apr-00 W141890.			SULFATE			0.1
21-Mar-00 W135239			SULFATE			0.5
22-Feb-00 W130336			SULFATE			0.5
29-Feb-00 W132079	GVC2 EPA	300A	SULFATE	296	MG/L	0.5

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# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

# ADDENDUM NO 1 TO ORDER NO. 98-60 NPDES NO. CA0107492 AN ADDENDUM MODIFYING THE MONITORING AND REPORTING PROGRAM FOR PADRE DAM MUNICIPAL WATER DISTRICT PADRE DAM WATER RECYCLING FACILITY DISCHARGE TO SYCAMORE CREEK AND THE SAN DIEGO RIVER SAN DIEGO COUNTY

The California Regional Water Quality Board, San Diego Region (hereinafter Regional Board), finds that:

- 1. On May 9, 1998, the Regional Board adopted Order No. 98-60, National Pollutant Discharge Elimination System Permit No. CA0107492, Waste Discharge Requirements for Padre Dam Municipal Water District, Padre Dam Water Recycling Facility Discharge to Sycamore Creek and The San Diego River, San Diego County. Order No. 98-60 establishes requirements for the discharge of up to 2.0 million gallons per day (MGD) of treated sewage from the Padre Dam Water Recycling Facility (PDWRF) through the Santee Lakes to Sycamore Creek and the San Diego River.
- 2. On April 1, 1998, Padre Dam Municipal Water District (PDMWD) submitted a report of waste discharge requesting the Monitoring and Reporting Program of Order No. 98-60 be modified to change testing methods for measurement of biological activity and sampling benthic invertebrates, locations of sampling stations, and frequency of sampling for priority pollutants and biological oxygen demand.
- 3. The Monitoring and Reporting Program as modified by this Addendum is reasonable for determining compliance with the terms and conditions of Order No. 98-60 and all applicable State and federal water quality standards.
- 4. The issuance of this Addendum is exempt from the requirements for preparation of environmental document under the California Environmental Quality Act in accordance with Section 13389 of the Clean Water Code.

5. The Regional Board has considered all environmental factors associated with the existing discharge.

6. The Regional Board has notified PDMWD and all known interested parties of its intent to modify waste discharge requirements for the existing discharge.

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)

Carlton Hills Blvd Bridge, Forester Creek, Sycamore Creek, Old Mission Dam, Mission Pond, I-5 Estuary and Fashion Valley Road should be listed as threatened for ammonia-nitrogen and total phosphorus. In addition, Forester Creek should be listed as threatened for 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<sup>1</sup>. 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<sup>1</sup>. 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<sup>1</sup>.

### Water Quality Objectives not Obtained

Typical values (Metcalf and Eddy, 1991) for specific conductance were exceeded. Basin plan standards<sup>1</sup> for ammonia-nitrogen, total-nitrogen, nitratenitrogen, total-phosphorus, ortho-phosphate, chlorine, total dissolved solids (TDS), dissolved oxygen (DO), boron, sulfate, manganese and mercury were exceeded. Note that drinking water standards were only applied to Forester Creek.

### **Evidence of Impairment**

Sampling occurred at point of influence into the plant, effluent ponds, at Cl<sub>2</sub> contact ponds, at a "raw sludge" point and at seven receiving bodies. Point of influence, Cl<sub>2</sub> contact ponds and "raw sludge" data were analyzed.

Typical values (Metcalf and Eddy, 1991) for specific conductance were exceeded every time it was measured. TDS values at Forester Creek always exceeded the secondary maximum contaminant levels (MCLs) for drinking water (Table 1b). Concentrations of ammonia-nitrogen, nitrate-nitrogen, total phosphorus and ortho-phosphate were frequently in excess of Basin Plan Standards at all sampling points. Of the nutrients, ammonia-nitrogen and total phosphorus showed the highest rate of exceedances and were often two-times the standard. DO values often were below 5 mg/L at all locations (Tables 2000-Table 1 and

08/17/01 jgs 1997-Table 1). Boron, sulfate, manganese and mercury were occasionally in excess of standards (Tables 2000-Table 2 and 1997-Table 2). 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 100 meters is the conservative estimate.

### **Potential Sources**

Unknown

#### TMDL Priority

No TMDL is required 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. Two samples per month are not enough to clearly show impairment. Values of ammonia-nitrogen and total-phosphorus warrant further investigation. DO sampling occurred generally in the morning hours and may be influencing the results. Boron, sulfate, manganese and mercury values were only rarely above standards.

#### Information Sources

 Water Quality Control Plan for the San Diego Basin (9), 1994
Metcalf and Eddy, 1991. Wastewater Engineering: Treatment, Disposal and Reuse, 3<sup>rd</sup> Edition, McGraw-Hill, Inc., 1334 pages.

# 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 WILD<sup>1</sup>. 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<sup>1</sup>. 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: MUN, IND, REC1, REC2, WARM, COLD and WILD<sup>1</sup>. 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 RARE<sup>1</sup>.

# Water Quality Objectives not Obtained

The document<sup>2</sup> 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 RARE<sup>2</sup>. The document<sup>2</sup> 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 in 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**

<sup>1</sup> Water Quality Control Plan for the San Diego Basin (9), 1994

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

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Canyon Creek 907.120 Sycamore See SD River Folder For Pholographic Eurdence of trash, Possibly entrophreation's bacheria

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# Southern California Bight 1998 Regional Monitoring Program Volume 3: Storm Event Shoreline Microbiology

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