

WQA
FIELD FORM

248

DATE: 8/17/92AIR TEMP: 100°+SAMPLER(S): HMS, HMS, DJBWATER BODY: Carbon Canyon Creek

SAMPLE LOCATION

#1: (1335) Downstream of La Vida Mineral Springs#2: (1400) upstream of La Vida Mineral Springs (sandy bottom)#3: (1440) Carbon Cyn Golf Course

#4: _____

H₂O TEMP: #1 22.9pH: #1 8.26EC: #1 4000 (151)#2 23#2 7.86#2 1000 (120)#3 23#3 7.86#3 1000 (120)

#4 _____

#4 _____

#4 _____

LAB ANALYSIS: NBAS Fecal Strep EnterobacterMineralsFecal coliNutrientsTotal colCOMMENTS: * See Map from 1985 for Sampling Sites

PURPOSE

The purpose of sampling Carbon Canyon Creek was to evaluate water quality. Carbon Canyon Creek was last sampled 3/11/1985. Sampling was performed to evaluate whether the Basin Plan Objectives objective of a rec-1 water body were being met. This data will also be compared to previous data taken in 1985 in order to evaluate if trends in water quality parameters are occurring. (Sampling sites were selected to duplicate 1985 sites.)

DISCUSSION

This creek currently is not listed in the Basin Plan and thus shows no beneficial uses or water quality objectives. This waterbody may be included in the next amendment as a rec-1 waterbody and so these objectives will be compared to the data. The objective for Fecal Coliform states the log mean is less than 200/100 ml based on five or more samples in a 30 day period, and not more than 10% of the samples exceed 400/100 ml for any 30-day period. Only 3 samples were taken on this creek, thus the first part of the objective can not be compared. The latter part states the objective is 400/100 ml for 90% of the samples over 30-day period. All but one of the sites would then meet this objective. This is the 2nd site with a fecal coliform count of 5000 MPN. In 1985 the coliform samples were analyzed by lab incorrectly and thus produced no results. Nitrates went down at all stations in 1992 compared to 1985 data. The other constituent which seem to stand out when compared to 1985 data is TDS. TDS was lower in two stations and higher at the golf course station. The levels of TDS are still predominately high, even though they went down in 1992. The results that did increase in 1992 compared to 1985 data may have increased due to the time of year the 1992 results were obtained. 1985 sampling was done in the spring while the 1992 sampling was performed in the late summer months.

Table 1

Carbon Canyon Creek
1992 vs. 1985

Constituent	1992 #1	1985 #2		1992 #2	1985 #3		1992 #3	1985 #6
Alkalinity	1060	650		398	350		504	325
Bicarbonate	1293	793		486	427		615	397
Boron	2.08	1.2		0.32	0.3		0.24	0.1
Calcium	65	110		122	160		229	160
Carbonate	ND	ND		ND	ND		ND	ND
Chloride	470	321		194	204		177	96
Flouride	1.17	0.7		0.72	0.5		0.56	0.4
Iron	0.03	0.15		ND	0.03		ND	0.3
Magnesium	77	90		109	105		73	46
Nitrate	0.7	2.9		0.3	2.9		0.3	4.9
Potassium	5.4	5		4.2	4		3.9	2
Sodium	712	455		168	166		133	65
Sulfate	330	475		408	560		350	260
Tl. Anions	41.37	32.15		21.95	24.63		22.38	14.98
Tl. Cations	40.68	33		22.46	24.57		23.31	14.76
TDS	2320	2940		1300	1500		1320	870
Hardness	479	650		752	838		871	592
Tl. Phosphate	0.27	ND		0.11	ND		0.32	0.5
MBAS	ND	0.1		ND	<0.1		ND	0.1
Temperature	27.9	19		23	16		23	18

Carbon Canyon Creek
8/17/92

Constituent	Method	Results		
		DnMin	UpMin	Golf
Alkalinity	SM 403	1060	398	504
Ammonia	EPA 350.2	ND	ND	ND
Bicarbonates	SM403	1293	486	615
Boron	SM 200.7	2.08	0.32	0.24
Calcium	EPA 200.7	65	122	229
Carbonates	SM 403	ND	ND	ND
Chloride	A1000	470	194	177
EC	EPA 120.1	3790	1920	1940
Flouride	EPA 200.7	1.17	0.72	0.56
Iron	EPA 200.7	0.03	ND	ND
Magnesium	EPA 200.7	77	109	73
Nitrate-N	B1011	3	1.3	1.55
pH	EPA 150.1	7.47	7.33	7.19
Potassium	EPA 200.7	5.4	4.2	3.9
Sodium	EPA 200.7	712	168	133
Sulfate	A1000	330	408	350
Tl. Anions	Calc.	41.37	21.95	22.38
Tl. Cations	Calc.	40.68	22.46	23.31
TDS	EPA 160.1	2320	1300	1320
Tl. Hardness	Calc.	479	752	871
Tl. Phosphate	EPA 365.2	0.27	0.11	0.32
Ammonia-N	EPA 350.2	ND	ND	ND
Kjeldahl-N	EPA 351.3	1.5	0.7	1.1
Nitrate-N	B1011	0.7	0.3	0.3
Nitrite-N	B1011	0.5	ND	ND
Organic-N	Calc.	1.5	0.7	1.1
Tl. Nitrogen	EPA 350.2	2.2	1	1.4
Ortho-phos	EPA 365.2	0.23	0.08	0.35
Tl. Phos	EPA 365.2	0.27	0.11	0.39
MBAS	EPA 425.1	ND	ND	ND
Tl. Coliform		2400	9000	2400
Fec. Coliform		240	5000	300
Fecal Strep		50	23	30
Enterococcus		45	18	25
Temp.		27.9	23	23
pH		8.26	7.86	7.86
EC		4000	1600	1600

Carbon Cyn #1

8/17/92

Temp - 100°F

NBAS/Minerals

Nutrients H_2SO_4 + Rain

Time 1335

FecalStrip/Fecal/Total Coli/Enterococcus

pH 8.26

Temp 27.9 (31)

EC 4000

Carbon Cyn #2

(Sandy Bottom)

Time: 1400

pH 7.86

Temp 23 (26)

EC 1600

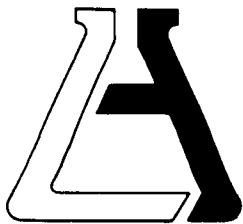
Carbon Cyn #3

Time: 1440

pH ~~7.86~~ 7.86

Temp 23 ~~26~~ (26)

EC ~~1600~~ 1600



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

California Regional Water
Quality Control Board
Attn: Nancy Martin
2010 Iowa Ave. Suite 100
Riverside, CA 92507

(1079) LAB NO. G36088-01
REPORTED 09/16/92

SAMPLE

Wastewater - H.S.

RECEIVED 08/18/92

IDENTIFICATION

Carbon Canyon #1 - Water Quality Assessment
Date Collected 08/17/92 @ 1335 Hrs.
As Submitted

BASED ON SAMPLE

STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Alkalinity	SM 403	1,060 mg/l
Ammonia	EPA 350.2	ND <0.1 mg/l
Bicarbonates	SM 403	1,293 mg/l
Boron	SM 200.7	2.08 mg/l
Calcium	EPA 200.7	65 mg/l
Carbonates	SM 403	ND <1 mg/l
Chloride	A1000	470 mg/l
Electrical Conductivity	EPA 120.1	3,790 μ mhos/cm
Fluoride	EPA 200.7	1.17 mg/l
Iron	EPA 200.7	0.03 mg/l
Magnesium	EPA 200.7	77 mg/l
Nitrate Nitrogen	B1011	3.0 mg/l
pH	EPA 150.1	7.47
Potassium	EPA 200.7	5.4 mg/l
Sodium	EPA 200.7	712 mg/l
Sulfate	A1000	330 mg/l
Total Anions	Calculated	41.37 meq/l
Total Cations	Calculated	40.68 meq/l
Total Dissolved Solids	EPA 160.1	2,320 mg/l
Total Hardness	Calculation	479 mg/l
Total Phosphate	EPA 365.2	0.27 mg/l

Continued on Page 2



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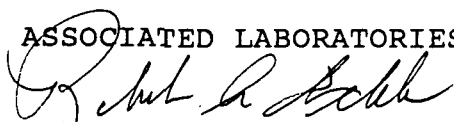
Client : California Regional Water
Quality Control Board
Lab No.: G36088-01

COMBINED NUTRIENT ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	1.5 mg/l
Nitrate Nitrogen	B1011	0.7 mg/l
Nitrite Nitrogen	B1011	0.5 mg/l
Organic Nitrogen	Calculation	1.5 mg/l
Total Nitrogen	EPA 350.2	2.2 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.23 mg/l
Total Phosphorus	EPA 365.2	0.27 mg/l

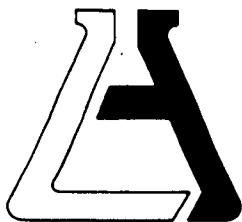
<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		2,400 MPN/100mls
Fecal Coliform		240 MPN/100mls
Fecal Strep.		50 MPN/100mls
Enterococcus		45 Col/100mls

ASSOCIATED LABORATORIES: by:


Robert A. Webber
Vice President

RAW/jaw





ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

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CLIENT

California Regional Water
Quality Control Board
Attn: Nancy Martin
2010 Iowa Ave. Suite 100
Riverside, CA 92507

(1079) LAB NO. G36088-02
REPORTED 09/16/92

SAMPLE

Wastewater - H.S.

RECEIVED 08/18/92

IDENTIFICATION

Carbon Canyon #2 - Water Quality Assessment

Date Collected 08/17/92 @ 1400 Hrs.

As Submitted

BASED ON SAMPLE

STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Alkalinity	SM 403	398 mg/l
Ammonia	EPA 350.2	ND <0.1 mg/l
Bicarbonates	SM 403	486 mg/l
Boron	SM 200.7	0.32 mg/l
Calcium	EPA 200.7	122 mg/l
Carbonates	SM 403	ND <1 mg/l
Chloride	A1000	194 mg/l
Electrical Conductivity	EPA 120.1	1,920 μ mhos/cm
Fluoride	EPA 200.7	0.72 mg/l
Iron	EPA 200.7	ND <0.007 mg/l
Magnesium	EPA 200.7	109 mg/l
Nitrate Nitrogen	B1011	1.3 mg/l
pH	EPA 150.1	7.33
Potassium	EPA 200.7	4.2 mg/l
Sodium	EPA 200.7	168 mg/l
Sulfate	A1000	408 mg/l
Total Anions	Calculated	21.95 meq/l
Total Cations	Calculated	22.46 meq/l
Total Dissolved Solids	EPA 160.1	1,300 mg/l
Total Hardness	Calculation	752 mg/l
Total Phosphate	EPA 365.2	0.11 mg/l

Continued on Page 2



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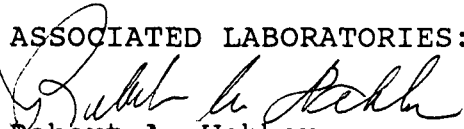
Client : California Regional Water
Quality Control Board
Lab No.: G36088-02

COMBINED NUTRIENT ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	0.7 mg/l
Nitrate Nitrogen	B1011	0.3 mg/l
Nitrite Nitrogen	B1011	ND <0.03 mg/l
Organic Nitrogen	Calculation	0.7 mg/l
Total Nitrogen	EPA 350.2	1.0 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.08 mg/l
Total Phosphorus	EPA 365.2	0.11 mg/l

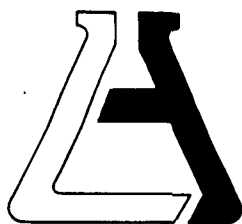
<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		9,000 MPN/100mls
Fecal Coliform		5,000 MPN/100mls
Fecal Strep.		23 MPN/100mls
Enterococcus		18 Col/100mls

ASSOCIATED LABORATORIES: by:


Robert A. Webber
Vice President

RAW/jaw





ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

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CLIENT

California Regional Water
Quality Control Board
Attn: Nancy Martin
2010 Iowa Ave. Suite 100
Riverside, CA 92507

(1079) LAB NO. G36088-03
REPORTED 09/16/92

SAMPLE

Wastewater - H.S.

RECEIVED 08/18/92

IDENTIFICATION

Carbon Canyon #3 - Water Quality Assessment
Date Collected 08/17/92 @ 1440 Hrs.
As Submitted

BASED ON SAMPLE

STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Alkalinity	SM 403	504 mg/l
Ammonia	EPA 350.2	ND <0.01 mg/l
Bicarbonates	SM 403	615 mg/l
Boron	SM 200.7	0.24 mg/l
Calcium	EPA 200.7	229 mg/l
Carbonates	SM 403	ND <1 mg/l
Chloride	A1000	177 mg/l
Electrical Conductivity	EPA 120.1	1,940 μ mhos/cm
Fluoride	EPA 200.7	0.56 mg/l
Iron	EPA 200.7	ND <0.007 mg/l
Magnesium	EPA 200.7	73 mg/l
Nitrate Nitrogen	B1011	1.55 mg/l
pH	EPA 150.1	7.19
Potassium	EPA 200.7	3.9 mg/l
Sodium	EPA 200.7	133 mg/l
Sulfate	A1000	350 mg/l
Total Anions	Calculated	22.38 meq/l
Total Cations	Calculated	23.31 meq/l
Total Dissolved Solids	EPA 160.1	1,320 mg/l
Total Hardness	Calculation	871 mg/l
Total Phosphate	EPA 365.2	0.32 mg/l

Continued on Page 2



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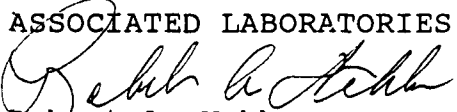
Client : California Regional Water
Quality Control Board
Lab No.: G36088-03

COMBINED NUTRIENT ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	1.1 mg/l
Nitrate Nitrogen	B1011	0.3 mg/l
Nitrite Nitrogen	B1011	ND <0.03 mg/l
Organic Nitrogen	Calculation	1.1 mg/l
Total Nitrogen	EPA 350.2	1.4 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.35 mg/l
Total Phosphorus	EPA 365.2	0.39 mg/l

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		2,400 MPN/100mls
Fecal Coliform		300 MPN/100mls
Fecal Strep.		30 MPN/100mls
Enterococcus		25 Col/100mls

ASSOCIATED LABORATORIES: by:


Robert A. Webber
Vice President

RAW/jaw





Date 8/17/92 Page 1 of 1

LABORATORY		ASSOCIATED		PROJECT MANAGER		HOPE SMYTHE	
SECTION		PLANNING		PHONE NUMBER		782-4493	
PROJECT NAME				SAMPLERS: (Signature)			
WATER QUALITY ASSESSMENT				<i>Michael Shaughnessy</i>			

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			SOLID	NO. OF CNTNRS	TESTS REQUIRED
				WATER	AIR				
				Comp.	Grab.				
1	Carbon Cyn #1	8/17	1335		✓			5	MBAS, Minerals, Fecal Coli, Total Coli
									Fecal Strep, Enterococcus, Nutrients
2	Carbon Cyn #2	8/17	1400		✓			5	"
3	Carbon Cyn #3	8/17	1440		✓			5	"

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
<i>Michael Shaughnessy</i>		<i>[Signature]</i>		8/18/92 030	
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
<i>[Signature]</i>		<i>[Signature]</i>		8/18/92 11:00 AM	
Relinquished by: (Signature)		Received by Mobile Laboratory for field analysis: (Signature)		Date/Time	
Dispatched by: (Signature)		Date/Time		Received for Laboratory by:	
Method of Shipment:				Date/Time	
Special Instructions:				TASK CODE	
				ESTIMATED COST	



CHAIN OF CUSTODY RECORD

Date 8/17/92 Page 1 of 1

LABORATORY	PROJECT MANAGER
ASSOCIATED	HOPE SMYTHE
STATION	PHONE NUMBER
PLANNING	782-4493
PROJECT NAME	SAMPLERS: (Signature)
WATER QUALITY ASSESSMENT	<i>Michelle Shaughnessy</i>

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			SOLID	NO. OF CONTNRS	TESTS REQUIRED
				WATER		AIR			
				Comp.	Grab.				
1	Carbon Cyn #1	8/17	1335		✓			5	MBAS, Minerals, Fecal Coli, Total Coli
									Fecal Strept, Enterococcus, Nutrients
2	Carbon Cyn #2	8/17	1400		✓			5	"
3	Carbon Cyn #3	8/17	1440		✓			5	"

Shipped by: (Signature)	Received by: (Signature)	Date/Time
<i>Michelle Shaughnessy</i>	<i>[Signature]</i>	8/18/92 83
Shipped by: (Signature)	Received by: (Signature)	Date/Time
Shipped by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Shipped by: (Signature)	Date/Time	Received for Laboratory by:
Method of Shipment:		Date/Time
Special Instructions:		TASK CODE
		ESTIMATED COST \$200.00

Carbon Canyon Creek

Date: 2/27/85

Tests: MBAS

Minerals- general

Total Coli / Fecal Coli

Sample Stations:

1. Carbon Canyon Regional Park

(One mile NE of Valencia on Carbon Canyon Road (Hwy. 142)

2. Downstream from La Vida Mineral Springs

At road crossing - 3.3 miles NE of Valencia on

Carbon Canyon Road (Hwy. 142)

3. Upstream from La Vida Mineral Springs

3.6 miles NE of Valencia on Carbon Canyon Road

(Hwy. 142)

4. Rosemary Lane - Sleepy Hollow

4.7 miles NE of Valencia on Carbon Canyon Road

(Hwy. 142)

②

Carbon Canyon Creek - Continued:

5. Upstream of Sleepy Hollow

5.6 miles NE of Valencia on Carbon Canyon
Road (Hwy. 142)

(.2 mi. of Canyon Hills Road)

6. Carbon Canyon Creek Golf Course - upstream of
Ornamental lake

6.2 miles NE of Valencia on Carbon Canyon
Road (Hwy. 142)

PURPOSE

The purpose of sampling Carbon Canyon Creek was to evaluate if the water quality has decreased since the 1985 sampling. Sampling was performed to evaluate whether the Basin Plan Objectives objective of a rec-1 water body were being met. This data will also be compared to previous data taken in 1985 in order to evaluate if trends in water quality parameters are occurring. (Sampling sites were selected to duplicate 1985 sites).

DISCUSSION

This creek currently is not in the Basin Plan Amendment and thus shows no beneficial uses. This waterbody may be included in the next amendment as a rec-1 waterbody and so these objectives will be compared to the data. The objective for Fecal Coliform states the log mean is less than 200/100ml based on five or more samples in a 30 day period, and not more than 10% of the samples exceed 400/100 ml for any 30-day period. Only 3 samples were taken on this creek, thus the first part of the objective can not be compared. The latter part states the objective is 400/100 ml for 90% of the samples over 30-day period. All but one of the sites would then meet this objective. This is the 2nd site with a fecal coliform count of 5000. In 1985, the coliform samples were analyzed by lab incorrectly and thus produced no results. Other constituents which seem to stand out when compared to 1985 data are nitrates and TDS. Nitrates went up at two of the stations. The golf course station (#3) more than doubled and the station upstream of the mineral springs (#2) went up slightly. These levels would still meet the basin plan objectives if this was a MUN waterbody. TDS was lower in two stations and higher at the golf course station. The levels of TDS are still predominately high, even though they went down.

The increased ^{in results} ~~data~~ may be due to the time of year sampled. 1985 results were in the spring while the 1992 results were obtained in the late summer months when more samples collected in 1985.

I'm wondering if some of parameters may be higher in 1992 because of the time of year that we sampled? possibly

- The fact that MBAS were all ND and nitrates are fairly low ^{may} ~~indicate~~ indicate no septic system problem. But then why are the bacteria levels high? hmmm

how could we find out what's causing high coliform levels? sampling at diff times throughout the year? yes - good idea for

THE ~~WATER~~ ^{SO} Carbon Canyon Creek was last sampled in 1985.

r water quality objectives

really

1

1985

Resample - Total Coliforms

Date: 3-11-85

Time: 0906 hours

Location Carbon Canyon Regional Park
one mile NE of Valerita on Carbon Canyon Road
(Hwy. 142)

Legal location:

Sample #: 1

Sampled by: NAB

Weather: Cool & Cloudy

Air Temp: $\sim 65^{\circ}\text{F}$

Water Temp: 18°C

Water Appearance: Clear

Flow: less than 0.1 cfs

Resamye : Total 100% (2000)

Date: 3-11-85

Time: 0928 hours

Location Down stream of the White Horse Spring, Tennessee
(at road crossing)
3.5 miles NE of Williams on Jackson County Road (Hwy. 142)

Legal location:

Sample #: 2

Sampled by: NAO

Weather: Cool & Cloudy

Air Temp: $\sim 68^{\circ} \text{F}$

Water Temp: 17°C

Water Appearance: Clear

Flow: 1.377 cfs

$W = 1.03'$

$d = 0.09$

$v = 10' / 7 \text{ sec}$

Resamp : Total coli / Fecal coli

Date: 3-11-85

Time: 6:15 PM

Location Carbon Canyon Creek - Upstream of La Vida Mineral
Springs - 5.6 miles NE of Valencia on Carbon Canyon
Road (Hwy. 142).

Legal location:

Sample #: 3

Sampled by: NAO

Weather:

Air Temp:

Water Temp:

Water Appearance:

Flow:

W. 1.5' d. 0.2

1.4/89 CF

Resample Total coli / Fecal coli

Date: 3-1-88

Time: 10:30 AM

Location Carbon Canyon Creek - Rosemary Lane (Sleepy Hollow)
4.7 miles NE of Valhalla on Carbon Canyon Road (40-10)

Legal location:

Sample #: 4

Sampled by: NAO

Weather: Partly Cloudy

Air Temp:

Water Temp:

Water Appearance:

Flow: 0.75 cfs

Resample - total col / fecal

Date:

Time:

Location

Carbon Canyon Creek - Upstream of Slippy Hollow
5.5 miles US 50 - Junction to Carbon Canyon State Hwy, 1997
0.2 miles NE of Canyon Hills Road

Legal location:

Sample #:

Sampled by: MAG

Weather:

Air Temp:

Water Temp:

Water Appearance:

Flow:

$W = 2.7'$ $D = 0.3$ $V = 10' / 15 \text{ sec.}$
 0.539 cfs

Resample: F46 Coli / Fecal Coli

Date: 3-11-88

Time: 1045

Location: ~~San Joaquin River - Golf Course (near the~~
~~San Joaquin River~~
0.2 miles NE of Valencia on Canyon (near Rd 42)

Legal location:

Sample #: 6

Sampled by: NAD

Weather: Cool and Clear

Air Temp: $\sim 65^{\circ}\text{F}$

Water Temp: 15°C

Water Appearance: Clear

Flow: less than 2.5 cfs

AGRICULTURAL CONSULTANTS
CHEMISTS
APPROVED WATER LABORATORY

PHONE 684-1881
AREA CODE 714

LABORATORIES
3215 CHICAGO AVENUE

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P. O. BOX 432
RIVERSIDE, CALIFORNIA 92502

MAR 15 1985

TO Regional Water Quality Control Board #8
6809 Indiana Ave.
Riverside, CA 92506

Copy sent to client 3/27/85



Lab No. 350311-6139

Invoice No. 40607

Submitted _____ Sampled _____

By _____

Date 3-8

Time 11:40

Time Started 3:10 PM

NOTE: Sampled
on 3-11-85
not 3-8-85 as
listed on form

Sample Mark	Standard Plate Count	Coliform Bacteria																					
		ml Planted	Presumptive					Confirmed					Tubes +	MPN/100 ml	Fecal					Tubes +	MPN/100		
1. Carbon upon creek downstream	1.0	24	+	+	+	+	+	24	+	+	+	+	-	4	34	24	+	+	-	-	-	2	9
		48						48					-										
	0.1	24	+	+	+	+	+	24	+	-	+	+	-	3		24	+	-	-	-	-	1	
		48						48		-			-										
	0.01	24	-	-	-	+	-	24	-		-	+	-	2		24	-		-	+	-	1	
		48	+	-	+		+	48	-		-		+										
		24						24								24							
		48						48															
2. Carbon upon creek downstream La Vida Mineral Springs/Restaurant	1.0	24	+	+	+	+	+	24	+	+	+	+	+	5	300	24	+	+	+	-	-	3	8
		48						48															
	0.1	24	+	+	+	+	+	24	-	+	-	-	-	5		24	-	-	-	-	-	0	
		48						48	+		+	+	+										
	0.01	24	-	-	-	-	-	24			-	-	-	1		24			-	-	-	0	
		48	-	-	+	+	+	48			-	+	-										
		24						24								24							
		48						48															
3. Carbon upon creek upstream from Vida Health Springs	1.0	24	+	+	+	+	+	24	-	-	-	+	-	3	11	24	-	-	-	-	+	1	2
		48						48	-	+	+	-											
	0.1	24	+	+	+	+	+	24	-	-	-	-	-	1		24	-	-	-	-	-	0	
		48						48	-	-	-	-	+										
	0.01	24	-	-	-	-	-	24	-					0		24	-	-				0	
		48	-	+	-	-	-	48	-														
		24						24								24							
		48						48															

cc: 2

SAWPA DES



001004581

EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

CALLED _____

AGRICULTURAL CONSULTANTS
CHEMISTS
APPROVED WATER LABORATORY

PHONE 684-1881
AREA CODE 714

LABORATORIES
3215 CHICAGO AVENUE

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P. O. BOX 432
RIVERSIDE, CALIFORNIA 92502
MAR 15 1985



TO Regional Water Quality Control Board #8
6809 Indiana Ave.
Riverside, CA 92506

Lab No. 850311-B139

Invoice No. 40607

Submitted _____ Sampled _____

By _____

Date 3-8

Time 11:40

Time Started 3:00 PM

NOTE:
Sampled
on 3-11-85
not 3-8
as listed on form

Sample Mark	Standard Plate Count	Coliform Bacteria												Tubes +	MPN/100ml	Fecal					Tubes +	MPN/10		
		ml Planted	Presumptive					Confirmed																
4 Carbon Canyon Creek - Rosemead East		1.0	24	+	+	+	+	+	24	+	+	+	+	+	5	170	24	+	+	+	+	+	5	80
			48						48															
		0.1	24	+	+	+	+	+	24	+	-	+	+	-	4		24	-	+	+	+	-	3	
			48						48		+			-										
		0.01	24	+	+	-	+	+	24	-	-	-	-	-	1		24	-	-		-	-	0	
			48			-			48	-	+	-	-	-										
			24						24								24							
			48						48															
5 upstream Sleepy hollow		1.0	24	+	+	+	+	+	24	-	+	-	-	-	1	2	24	-	-	-	-	-	0	<2
			48						48	-		-	-	-										
0.2 mi. NE of (Hills Road)		0.1	24	-	-	-	-	-	24	-	-	-	-	-	0		24	-	-	-	-	-	0	
			48	+	+	+	+	+	48	-	-	-	-	-										
		0.01	24	-	-	-	-	-	24	-	-	-	-	-	0		24	-	-	-	-	-	0	
			48	+	+	+	+	+	48	-	-	-	-	-										
			24						24								24							
			48						48															
Carbon Canyon Creek		1.0	24	+	+	+	+	+	24	+	+	+	+	+	5	170	24	-	+	+	+	+	4	13
			48						48															
		0.1	24	+	+	+	+	+	24	-	-	-	-	-	4		24	-	-	-	-	-	0	
			48						48	+	+	+	-	+										
		0.01	24	-	-	-	-	+	24	-	-	-	-	-	1		24	-	-	-	-	-	0	
			48	+	+	+	+		48	-	-	+	-	-										
			24						24								24							
			48						48															

cc: 2

SAWPA DES



001004582

EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

CALLED _____

Carbon Canyon Creek

Date: 2/27/85

Tests: MBAS

Minerals-general

Total Coli/Fecal Coli

Sample Stations:

1. Carbon Canyon Regional Park

(One mile NE of Valencia on Carbon Canyon Road (Hwy 142)

2. Downstream from La Vida Mineral Springs

At road crossing = 3.3 miles NE of Valencia on
Carbon Canyon Road (Hwy. 142)

3. Upstream from La Vida Mineral Springs

3.6 miles NE of Valencia on Carbon Canyon Road
(Hwy. 142)

4. Rosemary Lane - Sleepy Hollow

4.7 miles NE of Valencia on Carbon Canyon Road
(Hwy. 142)

(2)

Carbon Canyon Creek - Continued:

5. Upstream of Sleepy Hollow

5.6 miles NE of Valencia on Carbon Canyon
Road (Hwy. 142)

(.2 mi. of Canyon Hills Road)

6. Carbon Canyon Creek Golf Course - upstream of
Ornamental lake

6.2 miles NE of Valencia on Carbon Canyon
Road (Hwy. 142)

Date: 2-27-85

Time: 1100 Hours

Location Carbon Canyon Regional Park
One mile east of Valencia on Carbon Canyon Road
(Hwy. 142)

Legal location:

Sample #: 1

Sampled by: JES/NAC

Weather: Slight Overcast

Air Temp: 70° F (estimated)

Water Temp: 15°C

Water Appearance: Clear

Flow: ICFS (estimated)

Date: 2-27-85

Time: 1125 Hours

Location Downstream of La Vida Mineral Springs/Restaurant
(at road crossing)

3.3 miles NE of Valencia on Carbon Canyon Road (Hwy. 142)

Legal location:

Sample #: $\frac{1}{2}$

Sampled by: JES/NAO

Weather: Slightly Overcast

Air Temp: $\sim 70^{\circ} \text{F}$

Water Temp: 19°C

Water Appearance: Lightly turbid

Flow: 0.75 cfs

($w = 3'$ $d = 0.2'$ $v = 10' / 8 \text{ sec}$)

Date: 2-27-85

Time: 1200 Hours

Location Carbon Canyon Creek - Upstream from La Vida Mineral Springs - 3.6 miles NE of Valencia on Carbon Canyon Road (Hwy. 142)

Legal location:

Sample #: # 3

Sampled by: JES/NAO

Weather: Slightly overcast/warm

Air Temp: 70°F - estimated

Water Temp: 16°C

Water Appearance: Clear

Flow: 525 cfs

($w = 3.5'$ $A = .15$ $v = 5'/5 \text{ sec.}$)

Date: 2-27-85

Time: 1300 Hours

Location Carbon Canyon Creek - Rosemary Lane (Sleepy Hollow)

4.7 miles NE of Valencia on Carbon Canyon Road (Hwy. 142)

Legal location:

Sample #: #4

Sampled by: JES/NAO

Weather: Clear and warm

Air Temp: $\sim 75^{\circ}\text{F}$

Water Temp: 17°C

Water Appearance: Clear

Flow: .773 cfs

($w = 2.9'$ $d = .2$ $v = 10' / 7.5 \text{ sec.}$)

Date: 2-27-85

Time: 1330 Hours

Location Carbon Canyon Creek - Upstream of Sleepy Hollow
5.6 miles NE of Valencia on Carbon Canyon Road (Hwy. 14)
0.2 miles NE of Canyon Hills Road

Legal location:

Sample #: #5

Sampled by: JES/NAO

Weather: Clear & warm

Air Temp: ~ 75°F

Water Temp: 18°C

Water Appearance: Clear; algal growth on bottom

Flow: 509 cfs

$L_d = 0.2'$ $w = 2.8'$ $v = 10' / 11 \text{ sec.}$

Date: 2-27-85

Time: 1350

Location Carbon Canyon Creek - Golf Course (near the
ornamental lake)
6.2 miles NE of Valencia on Carbon Canyon Rd. (Hwy. 142)

Legal location:

Sample #: #6

Sampled by: JES/NAO

Weather: Clear + Warm

Air Temp: ~ 75°F

Water Temp: 18°C

Water Appearance: Clear

Flow: Less than 0.5 cfs

AGRICULTURAL CONSULTANTS
CHEMISTS
APPROVED WATER LABORATORY

PHONE 684-1881
AREA CODE 714

LABORATORIES
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



MAR 18 1985

3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-281
Invoice No. 40280

#1
Sample Marked: Carbon Canyon Creek at
Regional Park

Submitted Sampled

By Joanne NAG
Date 2/27 2/27
Time 3:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	604 mg/L	Specific Conductance	1960 umho/cm
as CaCO ₃		pH	7.7
Calcium (Ca)	128 mg/L	Total Filterable	1310 mg/L
Magnesium (Mg)	68 mg/L	Residue	
Sodium (Na)	212 mg/L	Carbon Dioxide	10 mg/L
Potassium (K)	6 mg/L	Silica (SiO ₂)	14 mg/L
Ammonium (NH ₄)	1.2 mg/L	Phosphate (PO ₄)	0.3 mg/L
Total Cations	21.51 me/L	Boron (B)	0.5 mg/L
Total Alkalinity	270 mg/L	Fluoride (F)	0.4 mg/L
as CaCO ₃		Iron (Fe)	1.5 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO ₃)	None mg/L		
Bicarbonate (HCO ₃)	329 mg/L		
Sulfate (SO ₄)	540 mg/L		
Chloride (Cl)	146 mg/L		
Nitrate (NO ₃)	5 mg/L		
Total Anions	20.83 me/L		

Flow ~ 1 CFS
Temperature 18°C
Time 1100 hours

SAWPA DES



001004583

EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-278
Invoice No. 40280

	<u>Submitted</u>	<u>Sampled</u>
Sample Marked: #2 Carbon Canyon Creek at Downstream of LaVida Health Club	By Joanne Date 2/27 Time 3:00	NAG 2/27

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	650 mg/L	Specific Conductance	2940 umho/cm
as CaCO ₃		pH	7.7
Calcium (Ca)	110 mg/L	Total Filterable	1840 mg/L
Magnesium (Mg)	90 mg/L	Residue	
Sodium (Na)	455 mg/L	Carbon Dioxide	20 mg/L
Potassium (K)	5 mg/L	Silica (SiO ₂)	21 mg/L
Ammonium (NH ₄)	1.7 mg/L	Phosphate (PO ₄)	<0.1 mg/L
Total Cations	33.00 me/L	Boron (B)	1.2 mg/L
Total Alkalinity	650 mg/L	Fluoride (F)	0.7 mg/L
as CaCO ₃		Iron (Fe)	0.15 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO ₃)	None mg/L		
Bicarbonate (HCO ₃)	793 mg/L		
Sulfate (SO ₄)	475 mg/L		
Chloride (Cl)	321 mg/L		
Nitrate (NO ₃)	13 mg/L		
Total Anions	32.15 me/L		

Flow 0.75 cfs
Temperature 19° C
Time 1125 hours

SAWPA DES



001004584

EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

PHONE 684-1881
AREA CODE 714

LABORATORIES
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



MAR 18 1985

3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-279
Invoice No. 40280

Sample Marked: #3 Carbon Canyon Creek
Upstream from LaVida Health Club

Submitted By Joanne
Date 2/27
Time 3:00

Sampled NAG
2/27

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	838 mg/L	Specific Conductance	2130 umho/cm
as CaCO ₃		Total Filterable	1500 mg/L
Calcium (Ca)	160 mg/L	Residue	
Magnesium (Mg)	105 mg/L	pH	8.0
Sodium (Na)	166 mg/L	Carbon Dioxide	6 mg/L
Potassium (K)	4 mg/L	Silica (SiO ₂)	22 mg/L
Ammonium (NH ₄)	<1 mg/L	Phosphate (PO ₄)	<0.1 mg/L
Total Cations	24.57 me/L	Boron (B)	0.3 mg/L
Total Alkalinity	350 mg/L	Fluoride (F)	0.5 mg/L
as CaCO ₃		Iron (Fe)	0.03 mg/L
Hydroxide (OH)	None mg/L	MBAS	<0.1 mg/L
Carbonate (CO ₃)	None mg/L		
Bicarbonate (HCO ₃)	427 mg/L		
Sulfate (SO ₄)	560 mg/L		
Chloride (Cl)	204 mg/L		
Nitrate (NO ₃)	13 mg/L		
Total Anions	24.63 me/L		

Flow .525 cfs
Temperature 16 °C
Time 1200 hours

SAWPA DES



001004585

EDWARD S. BABCOCK & SONS, INC.

[Signature]

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-280
Invoice No. 40280

Sample Marked: #4 Carbon Canyon Creek
Rosemary Ln (Sleepy Hollow)

<u>Submitted</u>	<u>Sampled</u>
By Joanne	NAG
Date 2/27	2/27
Time 3:00	

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO ₃	834 mg/L	Specific Conductance	2070 umho/cm
Calcium (Ca)	175 mg/L	pH	8.0
Magnesium (Mg)	97 mg/L	Total Filterable Residue	1400 mg/L
Sodium (Na)	131 mg/L	Carbon Dioxide	6 mg/L
Potassium (K)	3 mg/L	Silica (SiO ₂)	30 mg/L
Ammonium (NH ₄)	1 mg/L	Phosphate (PO ₄)	0.3 mg/L
Total Cations	22.51 me/L	Boron (B)	0.4 mg/L
Total Alkalinity as CaCO ₃	388 mg/L	Fluoride (F)	0.4 mg/L
Hydroxide (OH)	None mg/L	Iron (Fe)	0.41 mg/L
Carbonate (CO ₃)	None mg/L	MBAS	<0.1 mg/L
Bicarbonate (HCO ₃)	473 mg/L		
Sulfate (SO ₄)	470 mg/L		
Chloride (Cl)	179 mg/L		
Nitrate (NO ₃)	21 mg/L		
Total Anions	22.94 me/L		

Flow .773 cfs
Temperature 17 °C
Time 1300 hours



EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

MAR 18 1985



3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-277
Invoice No. 40280

Sample Marked: #5 Carbon Canyon Creek
Upstream of Sleepy Hollow

<u>Submitted</u>	<u>Sampled</u>
By Joanne	NAG
Date 2/27	2/27
Time 3:00	

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	1000 mg/L	Specific Conductance	2070 umho/cm
as CaCO ₃		pH	7.8
Calcium (Ca)	250 mg/L	Total Filterable	1480 mg/L
Magnesium (Mg)	90 mg/L	Residue	
Sodium (Na)	128 mg/L	Carbon Dioxide	10 mg/L
Potassium (K)	2 mg/L	Silica (SiO ₂)	34 mg/L
Ammonium (NH ₄)	2 mg/L	Phosphate (PO ₄)	0.6 mg/L
Total Cations	25.73 me/L	Boron (B)	0.3 mg/L
Total Alkalinity	448 mg/L	Fluoride (F)	0.4 mg/L
as CaCO ₃		Iron (Fe)	0.14 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO ₃)	15 mg/L		
Bicarbonate (HCO ₃)	515 mg/L		
Sulfate (SO ₄)	470 mg/L		
Chloride (Cl)	181 mg/L		
Nitrate (NO ₃)	19 mg/L		
Total Anions	24.14 me/L		

Flow

Temperature

Hours

504 CFS
18 °C
1330 Hours



EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock



PHONE 684-1881
AREA CODE 714

EDWARD S. BABCOCK & SONS, INC.

LABORATORIES
3215 CHICAGO AVE.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

3/15/85

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 850227-282
Invoice No. 40280

Sample Marked: #6 Carbon Canyon Creek
at golf course

Submitted Sampled

By Joanne NAG
Date 2/27 2/27
Time 3:00 0

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	592 mg/L	Specific Conductance	1310 umho/cm
as CaCO ₃		pH	7.5
Calcium (Ca)	160 mg/L	Total Filterable	870 mg/L
Magnesium (Mg)	46 mg/L	Residue	
Sodium (Na)	65 mg/L	Carbon Dioxide	17 mg/L
Potassium (K)	2 mg/L	Silica (SiO ₂)	41 mg/L
Ammonium (NH ₄)	1.4 mg/L	Phosphate (PO ₄)	0.5 mg/L
Total Cations	14.79 me/L	Boron (B)	0.1 mg/L
Total Alkalinity	325 mg/L	Fluoride (F)	0.4 mg/L
as CaCO ₃		Iron (Fe)	0.30 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO ₃)	None mg/L		
Bicarbonate (HCO ₃)	397 mg/L		
Sulfate (SO ₄)	260 mg/L		
Chloride (Cl)	96 mg/L		
Nitrate (NO ₃)	22 mg/L		
Total Anions	14.98 me/L		

Flow

Temperature

Time

60.5 Cfs

78°C

1350 hours

SAWPA DES



001004588

EDWARD S. BABCOCK & SONS, INC.

Sherman Babcock

AGRICULTURAL CONSULTANTS
CHEMISTS
APPROVED WATER LABORATORY

PHONE 684-1881
AREA CODE 714

LABORATORIES
15 CHICAGO AVENUE

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P. O. BOX 432
RIVERSIDE, CALIFORNIA 92502
MAR 1 1985

CALIFORNIA REGIONAL WATER
QUALITY CONTROL BOARD

MAR - 4 1985

SANTA ANA

NOTE



Recampled
These are incorrect
Tested it as drinking water instead of surface water.
Lab No. 88227-153

TO Regional Water Quality Control Board #8
6809 Indiana Avenue Suite 200
Riverside, CA 92506

Invoice No. 40281

Submitted Sampled

By [Signature]

Date 2-27 2-27

Time 3:00

Time Started 3:30 PM

Sample Mark	Standard Plate Count	Coliform Bacteria														Tubes +	MPN/100	Tubes +	MPN/100					
		ml Planted	Presumptive					Confirmed					Tubes +	MPN/100 ml	Fecal									
Carbon Canyon Regional Park	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
Downstream La Brea Health	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
Carbon Canyon Cr. upstream of La Brea	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
Carbon Canyon Cr. at Rosemary	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
Carbon Canyon Cr. upstream of Sleepy Hollow	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
Carbon Canyon Cr. at Half Course	75700	10	24	+	+	+	+	+	24	+	+	+	+	+	5	716	24	+	+	+	+	+	5	> 16
			48						48															
			24						24								24							
			48						48															
			24						24								24							
			48						48															
			24						24								24							
			48						48															
			24						24								24							
			48						48															
			24						24								24							
			48						48															
			24						24								24							
			48						48															

SAWPA DES



001004589

EDWARD S. BABCOCK & SONS, INC.

[Signature]

CALLED

1992

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION**

909 INDIANA AVENUE, SUITE 200
VERSIDE, CALIFORNIA 92306

PHONE: (714) 684-9330



June 27, 1983

Mr. Ron Campbell
General Manager
Elsinore Valley Municipal Water District
33751 Mission Trail Lane
Elsinore, CA 92330

Dear Mr. Campbell:

**Proposed Discharge Limitations for
Regional Wastewater Treatment Facility**

On May 13, 1983 the Regional Board adopted an updated Water Quality Control Plan for the Santa Ana River Basin. This Plan must now be approved by the State Water Resources Control Board and the Environmental Protection Agency. However, we do not expect any significant changes to result from their review.

The new Plan will require some minor changes in waste discharge requirements for the proposed regional system. In order to be consistent with the new Plan, and to insure that our proposed requirements are clear and known to all interested parties, we are providing the following information.

We have provided tentative requirements for the first three wastewater discharge alternatives recommended by your Blue Ribbon Advisory Committee, as well as for discharge to Lake Elsinore, to Temescal Wash within the Santa Ana Watershed, and to the San Jacinto River, even though these last three alternatives may not be among those now being seriously considered. This letter will supercede our previous letters of September 25, 1979, December 5, 1980 and May 14, 1981 on this subject.

The proposed waste discharge requirements (or NPDES permit values) listed below are subject to change after agency review and public hearing and are only official when adopted by the Regional Board, but they represent the staff's current recommendations.

Assumption 1 - Discharge of Effluent to Percolation Ponds located at Scales Way and Grand Avenue Site Near Lakeland Village.

This is considered a discharge to the Elsinore Ground Water Basin.

Proposed Waste Discharge Requirements

- | | |
|----------------------------|----------|
| I. Total Filtrable Residue | 700 mg/l |
| Total Hardness | 290 mg/l |
| Sodium | 120 mg/l |
| Chloride | 125 mg/l |
| Sulfate | 100 mg/l |
| Ammonia Nitrogen | 14 mg/l |
| Increment for TFR | 250 mg/l |
- II. Unless additional land is acquired, or reclamation uses found the total amount of effluent discharged into percolation ponds should be limited to 1 MGD.

The discharge of waste shall not cause a nuisance, or shall there be any discharge to the Lake.

Assumption 2 - Discharge of Effluent to Percolation Ponds located (a) near Nichols Road (east of freeway); (b) near Nichols Road (west of freeway); (c) Alberhill area.

This is considered a discharge to the watershed of Lee Lake Subbasin.

Proposed Waste Discharge Requirements:

- | | |
|----------------------------|----------|
| I. Total Filtrable Residue | 750 mg/l |
| Total Hardness | 330 mg/l |
| Sodium | 150 mg/l |
| Chloride | 150 mg/l |
| Sulfate | 150 mg/l |
| Ammonia Nitrogen | 14 mg/l |
| Increment for TFR | 250 mg/l |

- II. Effluent must be kept underground (if effluent rises and flows off of property controlled by discharger requirement similar to discharge to Temescal Wash must be met).

Assumption 3 - Discharge of Effluent to Percolation Ponds in McVicker Canyon.

This is considered a discharge to the Elsinore Ground Water Basin.

Proposed Waste Discharge Requirements

I. Total Filtrable Residue	700 mg/l
Total Hardness	290 mg/l
Sodium	120 mg/l
Chloride	125 mg/l
Sulfate	100 mg/l
Ammonia Nitrogen	14 mg/l
Increment for TFR	250 mg/l

- II. The amount of effluent discharged may be limited to assimilating capacity of basin for Total Filtrable Residue and Nitrate.

Assumption 4 - Direct Discharge of Effluent to Lake Elsinore.

This is considered a discharge to the lake at a point in the lake below elevation of 1250 feet. (No recharge of effluent to Elsinore Ground Water Basin).

Proposed NPDES Permit

I. The effluent must comply with Section 60315, Non-restricted Recreational Impoundment of Title 22 of California Administrative Code, (tertiary treatment).	
II. BOD	20 mg/l
Suspended Solids	20 mg/l
Total Nitrogen	1.5 mg/l
Total Phosphorus	0.5 mg/l
Total Filtrable Residue	850 mg/l
Total Coliform	2.2/100 mg/l
Turbidity	2 turbidity units

Assumption 5 - Discharge to Temescal Wash within the Santa Ana Watershed.

This is considered a discharge to the Santa Ana River, Reach 3. (Temescal Wash downstream from a point about 1/4 miles past the City of Lake Elsinore).

Proposed NPDES Permit

- I.a. Direct discharge - the effluent must comply with Section 60315. Non-restricted Recreational Impoundments of Title 22 of California Administrative Code (tertiary treatment).
- I.b. Indirect discharge - the effluent must have been kept underground for a sufficient period of time and distance to insure removal of all bacteria and viruses.
- II. Total Filtrable Residue 700 mg/l
- Total Hardness 330 mg/l
- Sodium 170 mg/l
- Chloride 165 mg/l
- Sulfate 180 mg/l
- Ammonia-Nitrogen 14 mg/l
- BOD 20 mg/l
- Suspended Solids 20 mg/l
- Turbidity 2 Turbidity units
- Coliform 2.2/100 mg/l

Assumption 6 - Discharge to the San Jacinto River Direct

This is considered a direct discharge to San Jacinto River, Lake Elsinore, and Elsinore Ground Water Basin.

Proposed NPDES Permit

1. The effluent must comply with Section 60315, Non-Restricted Recreational Impoundments of Title 22 of California Administrative Code (tertiary treatment).

II. Total Filtrable Residue	700 mg/l
Total Hardness	290 mg/l
Sodium	120 mg/l
Chloride	125 mg/l
Total Nitrogen	1.5 mg/l
Sulfate	100 mg/l
BOD	20 mg/l
Suspended Solids	20 mg/l
Total Phosphate	0.5 mg/l
Turbidity	2 Turbidity units
Coliform	2.2/100 mg/l

Sincerely,

JAMES W. ANDERSON
Executive Officer

cc: John Grantham, James Montgomery Engineers - Pasadena

RRN:kyb