

219

Summary:

on 4/19/83, Tu between 13-15.00 p.m.

I sampled Temescal wash at four (4) stations.

- 1 Dawson Cyn. Rd. & Temescal Cyn. Rd. T35/R6W/32
- 2 Cajalco Rd. & Temescal Cyn. Rd. T45/R6W/32
- 3 Magnolia & Sixth st in Corona. (T35/R6W/32)
- 4 3rd st. & E Grand Blvd in Corona. T35/R6W/32

Sampled for Mineral Analysis.

Ca^{++} , Mg^{++} , Na^{+} ,

OH^{-} , CO_3^{-} , HCO_3^{-} , Cl^{-} , SO_4^{-} , TDS,

Total Alk, CO_2 , Total Hardness, pH

E.C., Silica, B, Iron, NO_3^{-} , NH_3 , PO_4^{-}

Sample No. 1

T-1

Temescal wash

Time: 13:15

Date: 4/19/83

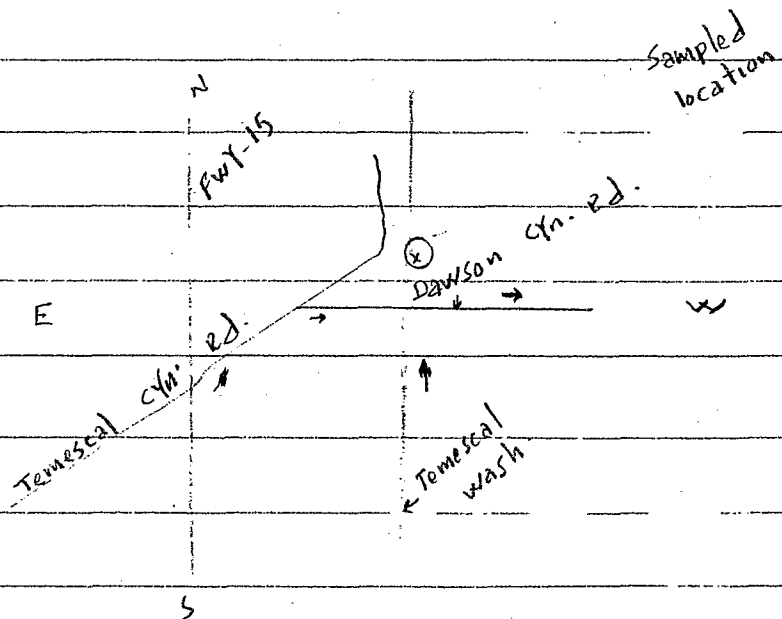
weather: Partial cloudy

water Temp: 23°C

Air Temp: 70°F

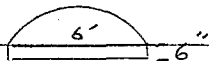
water app: clear

location:



Tested For: Mineral analysis

flow:



$$(.5)(6') = 3 \text{ ft}^2$$

$$v = 4 \text{ ft} / 10 \text{ sec}$$

$$Q = vA$$

$$Q = (.4)(3)$$

$$= 1.2 \text{ ft}^3 / \text{sec}$$

Sample No. 2 T-2 Temescal wash

Time: 14:00 P.M.

Date: 4/19/83

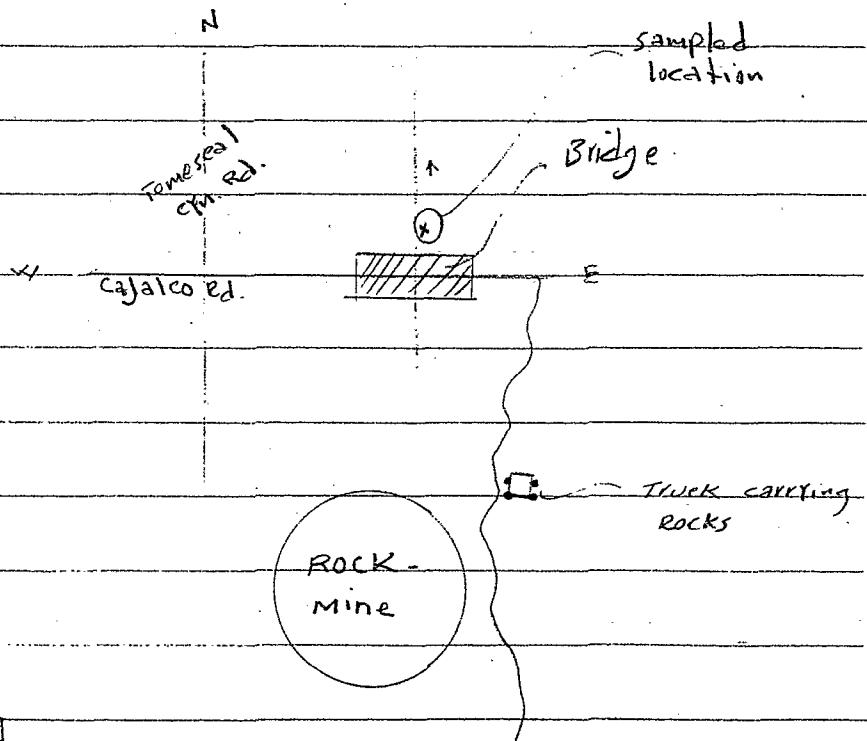
weather: Sunny

water Temp: 21°C

Air Temp: 72°F

water app: muddy

Location



Tested for: Mineral Analysis

Flow: $18'$
 $v = 1'/\text{sec}$

$$\begin{aligned} Q &= VA \\ &= (1)(18) \\ &= 18 \text{ ft}^3/\text{sec} \end{aligned}$$

Sample No. 3 T 3 Temescal wash

Time: 14:45

Date: 4/19/83

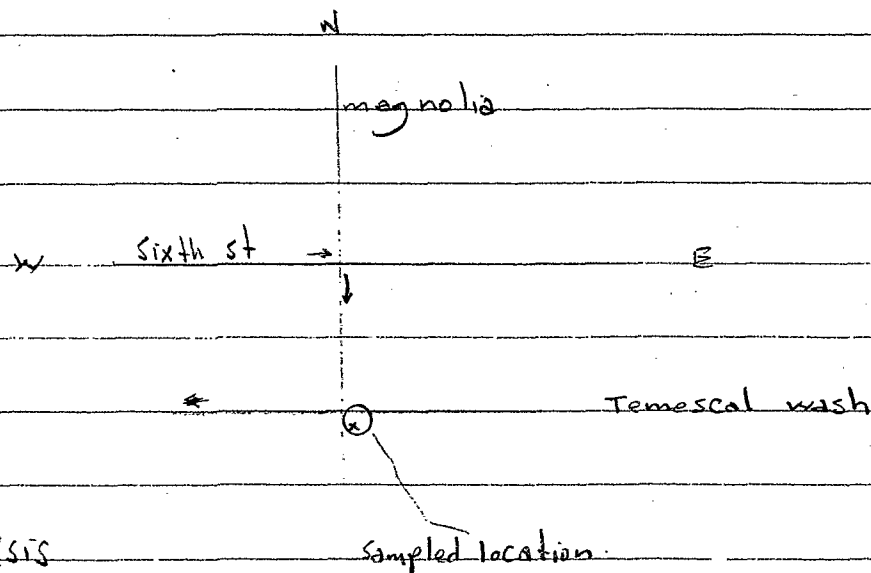
weather: sunny

water Temp: 17°C

air Temp: 70°F

water spp: little green

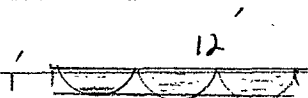
location



Tested for: Mineral Analysis

sampled location

flow:



$$v = 1.5'/\text{sec}$$

$$Q = VA$$

$$Q = (1.5)(12) =$$

$$= 18 \text{ ft}^3/\text{sec}$$

Sample no. 4 T-4 Temescal wash

Time: 15:15

Date: 4/19/83

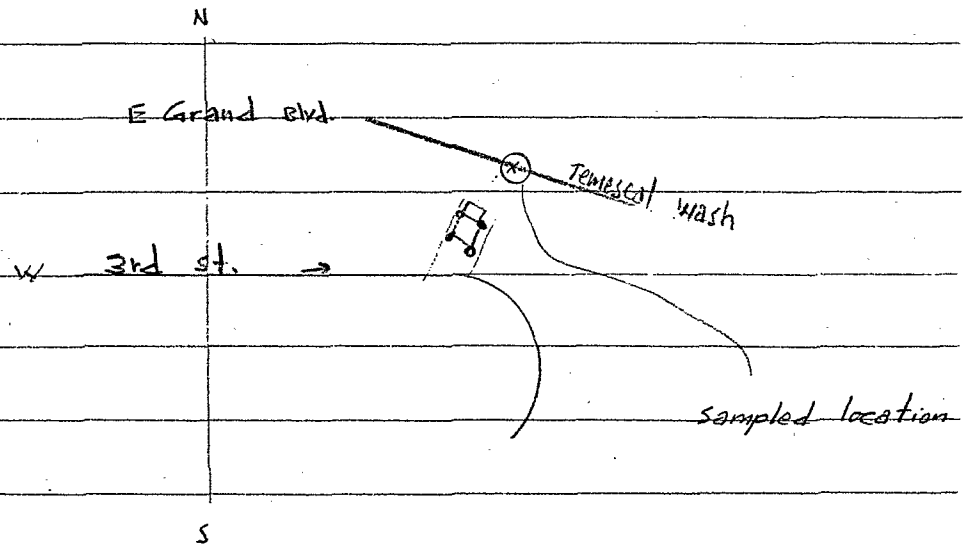
weather: cloudy

water Temp: 19°C

Air Temp: 68°F

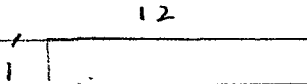
water app: not clear

location:



Tested for: mineral analysis

flow:



$$v = 1.5 / \text{sec}$$

$$Q = vA$$

$$= (1.5)(12)$$

$$Q = 18 \text{ ft}^3 / \text{sec.}$$

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040842

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave.
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, Ca 92506

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal wash T-1

SAMPLED BY Kamron Sarami/ CRWQCB - SAR

DATES & HOURS SAMPLED 4-19-83; 1315 hours

MAY 6 1983

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum (N)	<0.03 mg/l	Nickel	mg/l
Ammonia	mg/l	Nitrate (N)	6.82 mg/l
Antimony	mg/l	Oil & Grease	mg/l
Arsenic	mg/l	pH	8.48
BOD	mg/l	Phenols	mg/l
Barium	mg/l	Phosphate - Ortho	8.41 mg/l
Beryllium	mg/l	Phosphate, Total	mg/l
Bismuth	mg/l	Potassium	3.02 mg/l
Boron	0.09 mg/l	Selenium	mg/l
COD	mg/l	Settleable Solids	ml/l
Cadmium	mg/l	Silver	mg/l
Calcium	76.7 mg/l	Sodium	43.5 mg/l
Chloride	29.8 mg/l	Specific Conductance	721 micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate	175 mg/l
Chromium (Hexavalent)	mg/l	Sulfide	mg/l
Chromium (Total)	mg/l	Surfactants (MBAS)	mg/l
Cobalt	mg/l	Suspended Solids	mg/l
Copper	mg/l	Temperature	°F
Cyanide	mg/l	Tin	mg/l
Dissolved Oxygen	mg/l	Titanium	mg/l
Flow (total)	gals/day	Total Alkalinity	101 mg/l
Flow (peak)	gals/min	Bicarbonate Alkalinity	99 mg/l
Fluoride	mg/l	Carbonate Alkalinity	2 mg/l
Iron	<0.02 mg/l	Total Dissolved Solids -	mg/l
Lead	mg/l	(Filterable Residue)	488 mg/l
Magnesium	15.1 mg/l	Total Hardness	254 mg/l
Manganese	mg/l	Turbidity	Units
Mercury	mg/l	Zinc	mg/l
Hydroxide Alkalinity	0 mg/l	Silica	32.7 mg/l
		Carbon Dioxide	0 mg/l



Joseph P. Zimmer

Laboratory Director

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STATE APPROVED WATER LABORATORY

WAL NO. 3040843

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal wash T-2

SAMPLED BY Kamron Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1400 hours

MAY 6 1983

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia (N).....	0.05 mg/l	Nitrate (N).....	1.78 mg/l
Antimony.....	mg/l	Oil & Grease.....	8.21 mg/l
Arsenic.....	mg/l	pH.....	8.21
BOD.....	mg/l	Phenols.....	6.90 mg/l
Barium.....	mg/l	Phosphate - Ortho.....	6.90 mg/l
Beryllium.....	mg/l	Phosphate, Total.....	4.23 mg/l
Bismuth.....	mg/l	Potassium.....	mg/l
Boron.....	0.12 mg/l	Selenium.....	mg/l
COD.....	mg/l	Settleable Solids.....	ml/l
Cadmium.....	mg/l	Silver.....	83.9 mg/l
Calcium.....	104 mg/l	Sodium.....	1105 mg/l
Chloride.....	104 mg/l	Specific Conductance.....	1105 micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	203 mg/l
Chromium (Hexavalent).....	mg/l	Sulfide.....	mg/l
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg/l
Cobalt.....	mg/l	Suspended Solids.....	mg/l
Copper.....	mg/l	Temperature.....	°F
Cyanide.....	mg/l	Tin.....	mg/l
Dissolved Oxygen.....	mg/l	Titanium.....	mg/l
Flow (total).....	gals/day	Total Alkalinity.....	176 mg/l
Flow (peak).....	gals/min	Bicarbonate Alkalinity.....	176 mg/l
Fluoride.....	mg/l	Carbonate Alkalinity.....	0 mg/l
Iron.....	<0.02 mg/l	Total Dissolved Solids -	
Lead.....	mg/l	(Filterable Residue).....	683 mg/l
Magnesium.....	27.2 mg/l	Total Hardness.....	371 mg/l
Manganese.....	mg/l	Turbidity.....	Units
Mercury.....	mg/l	Zinc.....	mg/l
Hydroxide Alkalinity.....	0 mg/l	Silica.....	23.8 mg/l
		Carbon Dioxide.....	0.9 mg/l



Joseph P. Zimmer
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13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040844

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal Wash T-3

SAMPLED BY Kamron Sarami; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1445 hours

MAY - 6 1983

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia..... (N)	0.04 mg/l	Nitrate..... (N)	1.97 mg/l
Antimony.....	mg/l	Oil & Grease.....	mg/l
Arsenic.....	mg/l	pH.....	8.50
BOD.....	mg/l	Phenols.....	mg/l
Barium.....	mg/l	Phosphate - Ortho.....	6.07 mg/l
Beryllium.....	mg/l	Phosphate, Total.....	mg/l
Bismuth.....	mg/l	Potassium.....	4.28 mg/l
Boron.....	0.08 mg/l	Selenium.....	mg/l
COD.....	mg/l	Settleable Solids.....	ml/l
Cadmium.....	mg/l	Silver.....	mg/l
Calcium.....	103 mg/l	Sodium.....	91.5 mg/l
Chloride.....	106 mg/l	Specific Conductance.....	1130 micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	235 mg/l
Chromium (Hexavalent).....	mg/l	Sulfide.....	mg/l
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg/l
Cobalt.....	mg/l	Suspended Solids.....	mg/l
Copper.....	mg/l	Temperature.....	°F
Cyanide.....	mg/l	Tin.....	mg/l
Dissolved Oxygen.....	mg/l	Titanium.....	mg/l
Flow (total).....	gals/day	Total Alkalinity.....	175 mg/l
Flow (peak).....	gals/min	Bicarbonate Alkalinity.....	159 mg/l
Fluoride.....	mg/l	Carbonate Alkalinity.....	16 mg/l
Iron.....	<0.02 mg/l	Total Dissolved Solids -	
Lead.....	mg/l	(Filterable Residue).....	708 mg/l
Magnesium.....	29.4 mg/l	Total Hardness.....	377 mg/l
Manganese.....	mg/l	Turbidity.....	Units
Mercury.....	mg/l	Zinc.....	mg/l
Hydroxide Alkalinity	0 mg/l	Silica	25.3 mg/l
		Carbon Dioxide	0 mg/l

SAWPA DES
001006109

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040845

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Region
 ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water - Grab sample

SAMPLING POINT Temescal Wash T-4

SAMPLED BY Kamron Sarami; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1515 hours

MAY - 6 1983

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia... (N)	0.03 mg/l	Nitrate... (N)	1.85 mg/l
Antimony.....	mg/l	Oil & Grease.....	8.52 mg/l
Arsenic.....	mg/l	pH.....	
BOD.....	mg/l	Phenols.....	6.00 mg/l
Barium.....	mg/l	Phosphate - Ortho.....	mg/l
Beryllium.....	mg/l	Phosphate, Total.....	4.14 mg/l
Bismuth.....	mg/l	Potassium.....	mg/l
Boron.....	<0.01 mg/l	Selenium.....	mg/l
BOD.....	mg/l	Settleable Solids.....	ml/l
Cadmium.....	mg/l	Silver.....	92.4 mg/l
Calcium.....	103 mg/l	Sodium.....	1123 mg/l
Chloride.....	109 mg/l	Specific Conductance.....	micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	224 mg/l
Chromium (Hexavalent).....	mg/l	Sulfide.....	mg/l
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg/l
Cobalt.....	mg/l	Suspended Solids.....	mg/l
Copper.....	mg/l	Temperature.....	°F
Cyanide.....	mg/l	Tin.....	mg/l
Dissolved Oxygen.....	mg/l	Titanium.....	mg/l
Flow (total).....	gals/day	Total Alkalinity.....	181 mg/l
Flow (peak).....	gals/min	Bicarbonate Alkalinity.....	167 mg/l
Fluoride.....	mg/l	Carbonate Alkalinity.....	14 mg/l
Iron.....	<0.02 mg/l	Total Dissolved Solids -	
Lead.....	mg/l	(Filterable Residue).....	705 mg/l
Magnesium.....	29.5 mg/l	Total Hardness.....	380 mg/l
Manganese.....	mg/l	Turbidity.....	Units
Mercury.....	mg/l	Zinc.....	mg/l
Hydroxide Alkalinity	0. mg/l	Silica	25.3 mg/l
		Carbon Dioxide	0 mg/l



Rayl P. Zimmer
 Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3041023

DATE RECEIVED 4-23-83

DATE OF REPORT 5-5-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water - Grab sample

SAMPLING POINT Temescal Wash Tem-1

SAMPLED BY K. Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-22-83; 2:45

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum	mg/l	Nickel	mg/l
Ammonia (N)	0.13 mg/l	Nitrate (N)	2.44 mg/l
Antimony	mg/l	Oil & Grease	mg/l
Arsenic	mg/l	pH	8.07
BOD	mg/l	Phenols	mg/l
Barium	mg/l	Phosphate - Ortho	5.52 mg/l
Beryllium	mg/l	Phosphate, Total	mg/l
Bismuth	mg/l	Potassium	6.86 mg/l
Boron	0.51 mg/l	Selenium	mg/l
COD	mg/l	Settleable Solids	ml/l
Cadmium	mg/l	Silver	mg/l
Calcium	121 mg/l	Sodium	386 mg/l
Chloride	404 mg/l	Specific Conductance	2880 micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate	539 mg/l
Chromium (Hexavalent)	mg/l	Sulfide	mg/l
Chromium (Total)	mg/l	Surfactants (MBAS)	mg/l
Cobalt	mg/l	Suspended Solids	mg/l
Copper	mg/l	Temperature	°F
Cyanide	mg/l	Tin	mg/l
Dissolved Oxygen	mg/l	Titanium	mg/l
Flow (total)	gals/day	Total Alkalinity	261 mg/l
Flow (peak)	gals/min	Bicarbonate Alkalinity	261 mg/l
Fluoride	mg/l	Carbonate Alkalinity	0 mg/l
Iron	<0.02 mg/l	Total Dissolved Solids -	
Lead	mg/l	(Filterable Residue)	2014 mg/l
Magnesium	66.4 mg/l	Total Hardness	576 mg/l
Manganese	mg/l	Turbidity	Units
Mercury	mg/l	Zinc	mg/l
Hydroxide alkalinity	0 mg/l	Silica	24.3 mg/l
Nitrite (N)	0.04 mg/l	Carbon Dioxide	4.4 mg/l
Organic Nitrogen	0.47 mg/l		

SAWPA DES



001006111

Joseph P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3041024

DATE RECEIVED 4-23-83

DATE OF REPORT 5-5-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water - Grab Sample

SAMPLING POINT Temescal Wash Tem-# 2

SAMPLED BY K. Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-22-83; 3:25

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia. (N)	0.09	Nitrate... (N)	0.77
Antimony.....	mg/l	Oil & Grease	mg/l
Arsenic.....	mg/l	pH	7.75
B O D	mg/l	Phenols.....	mg/l
Barium.....	mg/l	Phosphate - Ortho	6.07
Beryllium.....	mg/l	Phosphate, Total.....	mg/l
Bismuth.....	mg/l	Potassium	10.0
Boron.....	0.82	Selenium.....	mg/l
C O D	mg/l	Settleable Solids.....	ml/l
Cadmium	mg/l	Silver.....	mg/l
Calcium.....	123	Sodium	505
Chloride.....	484	Specific Conductance.....	3330
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	micromhos/cm
Chromium (Hexavalent).....	mg/l	Sulfide.....	744
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg/l
Cobalt.....	mg/l	Suspended Solids	mg/l
Copper.....	mg/l	Temperature.....	°F
Cyanide.....	mg/l	Tin	mg/l
Dissolved Oxygen.....	mg/l	Titanium	mg/l
Flow (total).....	gals/day	Total Alkalinity	278
Flow (peak)	gals/min	Bicarbonate Alkalinity.....	278
Fluoride.....	mg/l	Carbonate Alkalinity	0
Iron.....	< 0.02	Total Dissolved Solids -	mg/l
Lead.....	mg/l	(Filterable Residue).....	2493
Magnesium	77.2	Total Hardness.....	626
Manganese	mg/l	Turbidity	Units
Mercury.....	mg/l	Zinc.....	mg/l
Hydroxide Alkalinity	0 mg/l	Silica	16.5 mg/l
Nitrite (N)	0.02 mg/l	Carbon Dioxide	10.8 mg/l
Organic Nitrogen	0.87 mg/l		

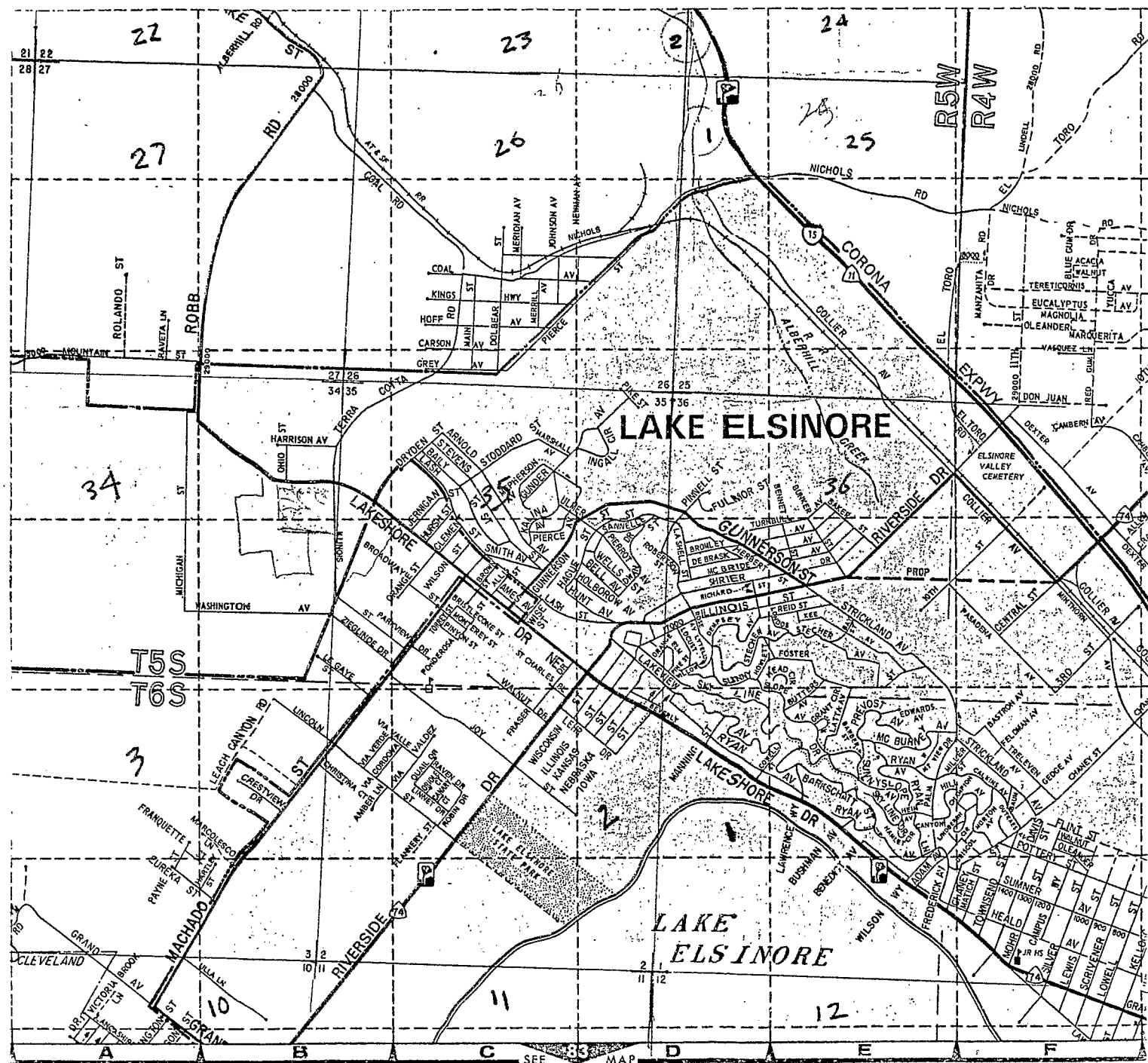
SAWPA DES

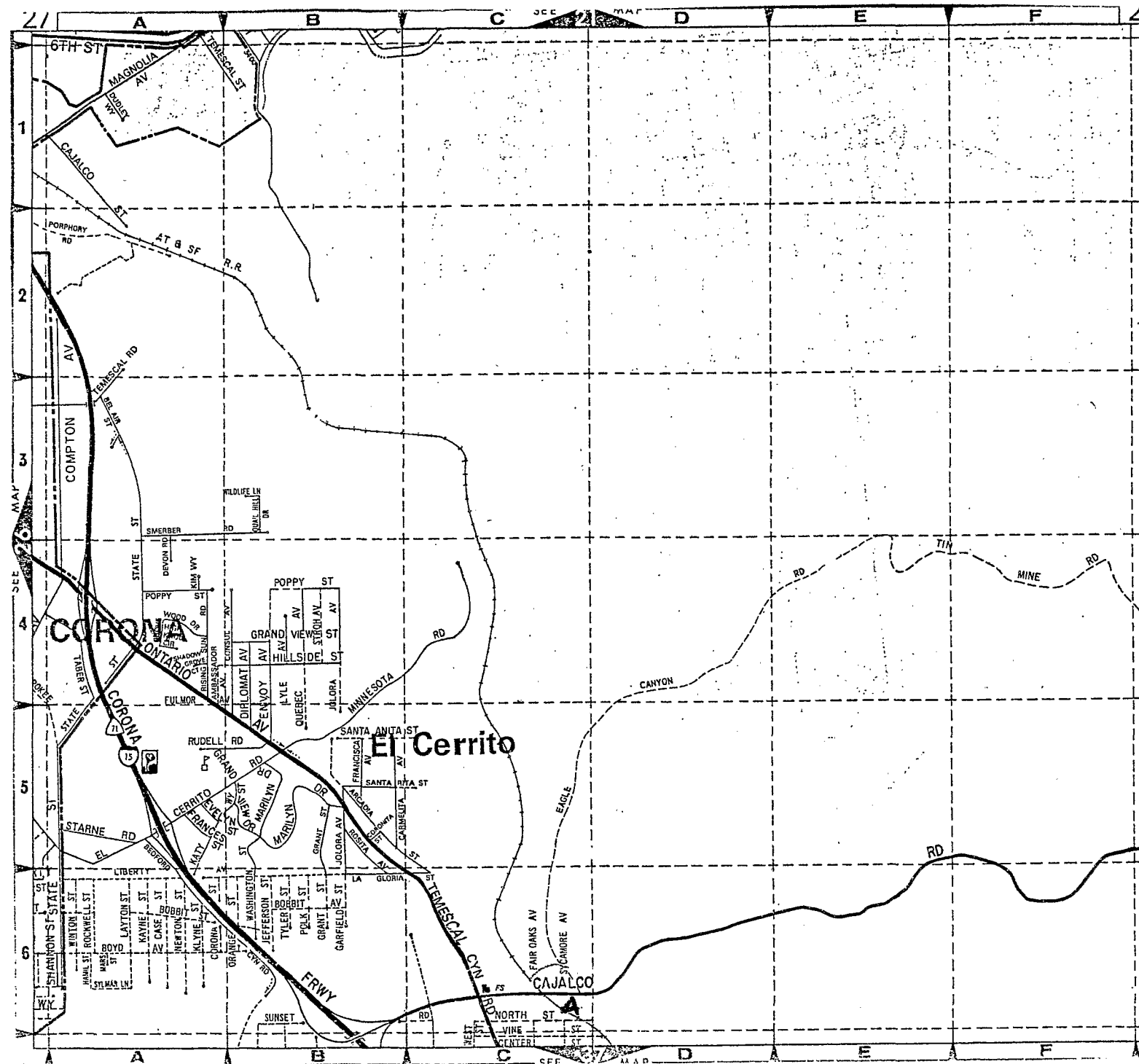


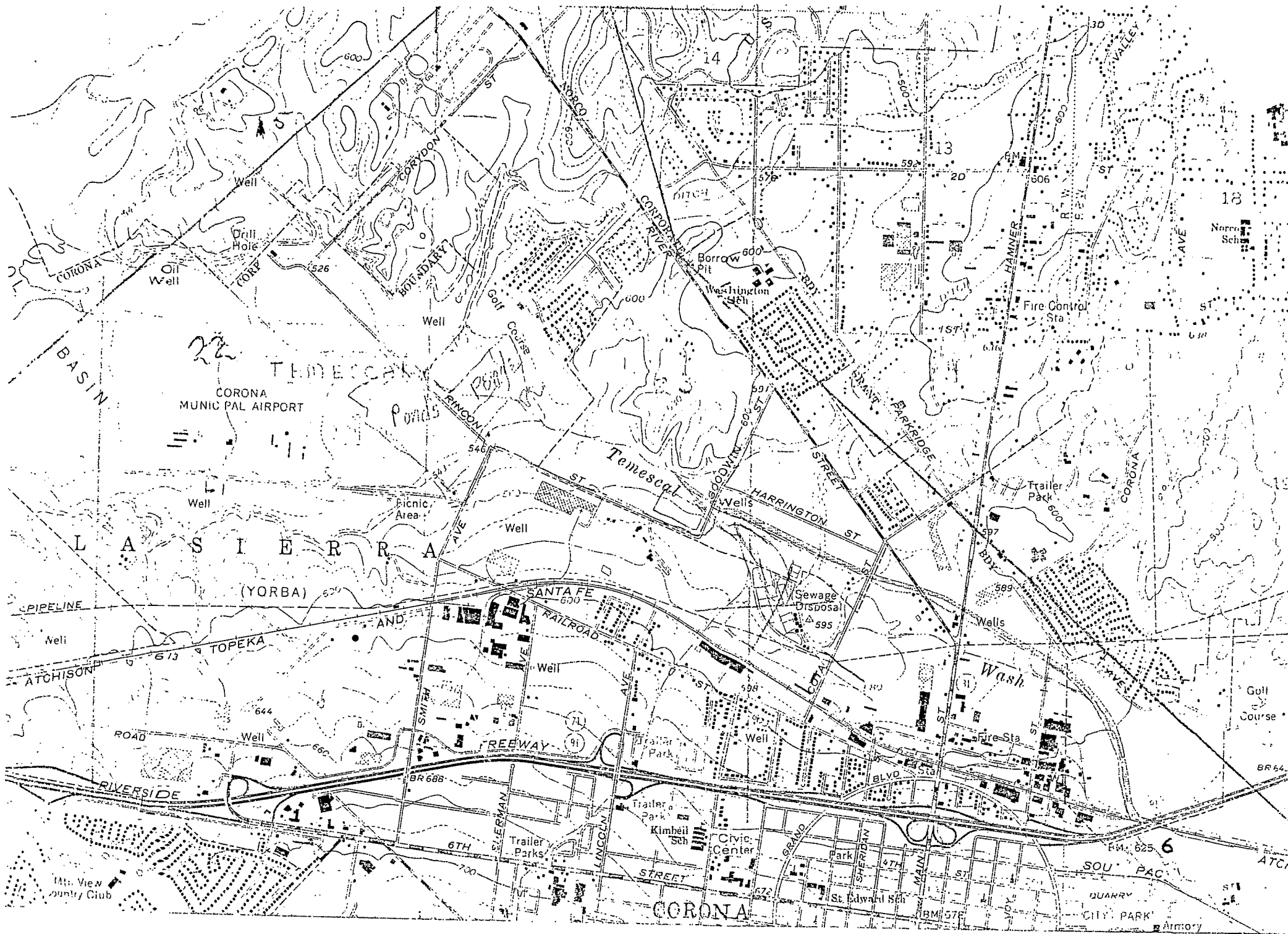
001006112

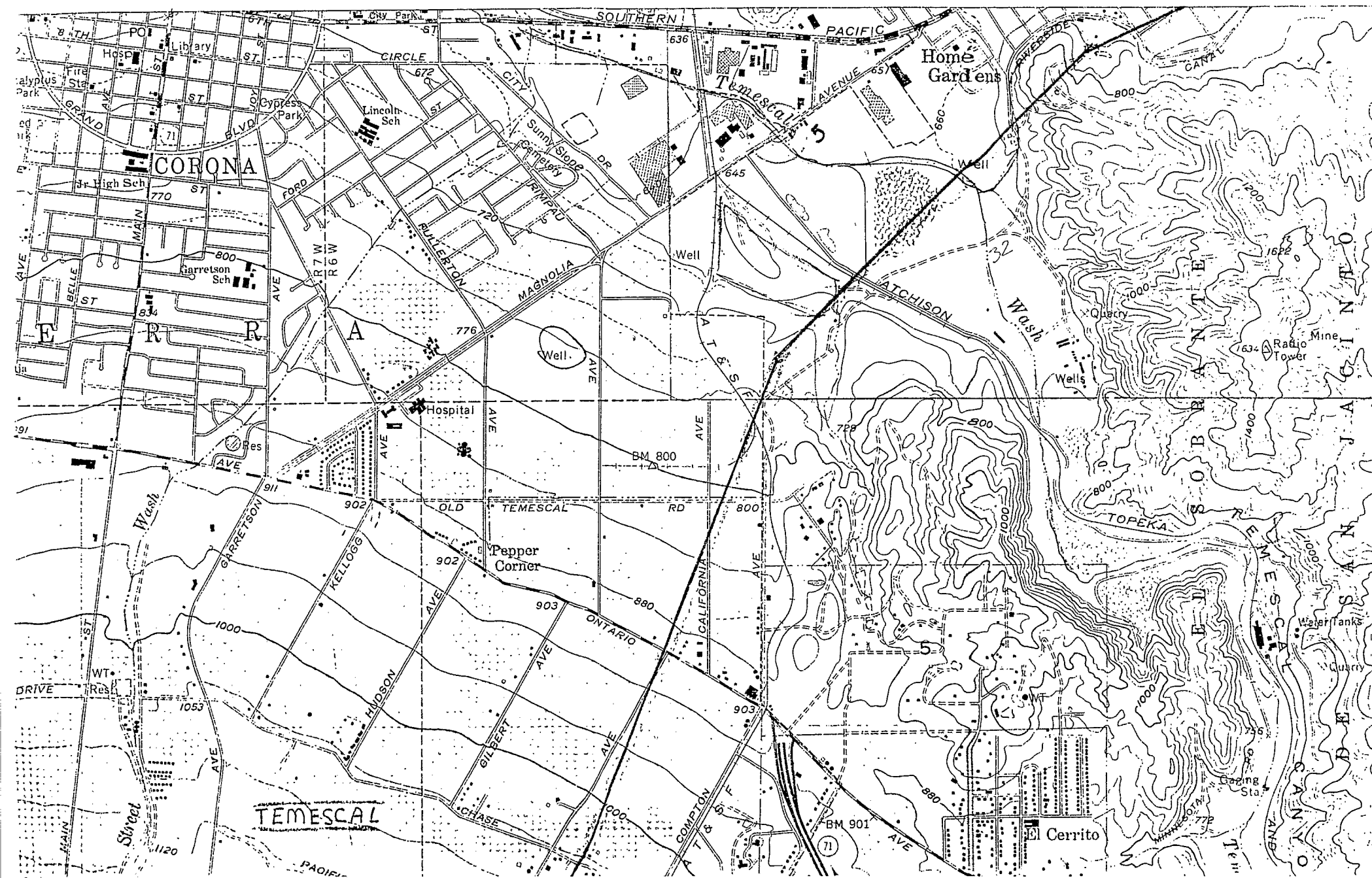
Joseph P. Zimmer

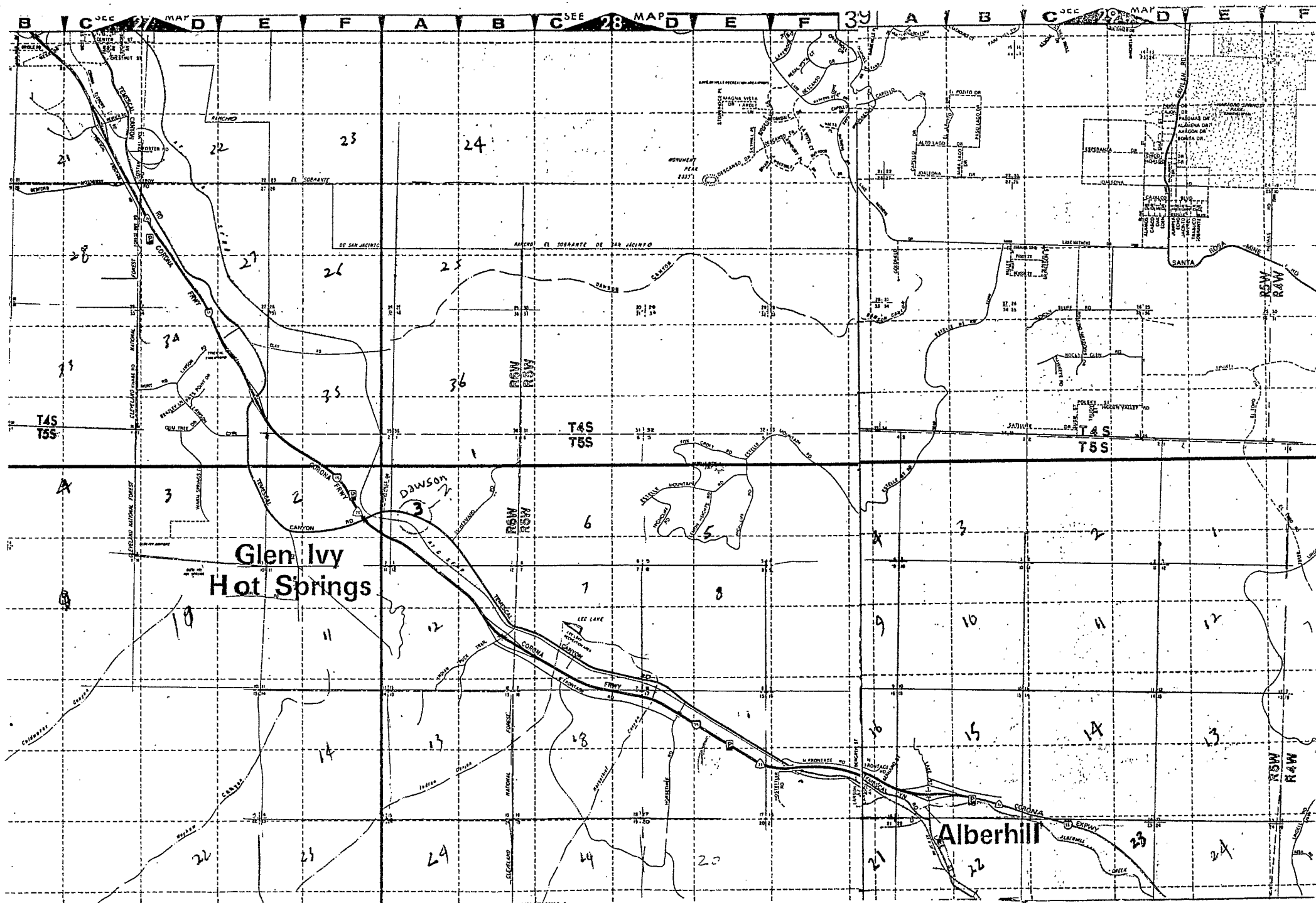
Laboratory Director











Temescal wash

4/22/83

Temescal wash sampling starts from Nichols Rd., off
FWY 15 south, & stops in Corona.

Sampling points are as follows:

Concrete channel T 5S, R 5W, Sec. 25 E

Temescal wash, T 5S, R 5W, Sec. 23

Temescal Cyn. Rd. & Dawson Cyn. Rd. T 5S/R 6W/Sec. 1

Temescal Cyn. Rd. & Cajalco Rd. T 4S/R 6W/Sec. 16

Magnolia & Sixth St. in Corona T 3S/R 6W/Sec. 22

E. Grand Blvd. & 3rd St. in Corona T 3S/R 6W/Sec. 27

Concrete channel, north of Nichols Rd T5S/R5W/Sec. 25

Time: 14:45, Date: 4/22/83, water Temp: 70°F, water app: not clear w/

Algae on the side.

Flow: 1.2 ft³/sec.

Temp: 1

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia..... (N)	0.13 mg/l
Antimony.....	mg/l
Asenic.....	mg/l
Chloride.....	mg/l
Copper.....	mg/l
Iron.....	0.51 mg/l
Lead.....	mg/l
Magnesium.....	121 mg/l
Manganese.....	404 mg/l
Mercury.....	mg/l
Nickel.....	mg/l
Nitrate..... (N)	mg/l
Oil & Grease.....	mg/l
pH.....	8.07
Phenols.....	mg/l
Phosphate - Ortho.....	5.52 mg/l
Phosphate, Total.....	6.86 mg/l
Potassium.....	mg/l
Selenium.....	mg/l
Settleable Solids.....	ml/l
Silver.....	386 mg/l
Sodium.....	2880 mg/l
Specific Conductance.....	2880 micromhos/cm
Sulfate.....	539 mg/l
Sulfide.....	mg/l
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	261 mg/l
Bicarbonate Alkalinity.....	261 mg/l
Carbonate Alkalinity.....	0 mg/l
Total Dissolved Solids - (Filterable Residue).....	2014 mg/l
Total Hardness.....	576 mg/l
Turbidity.....	Units
Zinc.....	mg/l

Hydroxide alkalinity 0 mg/l
Nitrite (N) 0.04 mg/l
Organic Nitrogen 0.47 mg/l

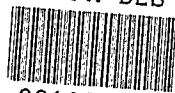
PARAMETER

VALUE

Nickel.....	mg/l
Nitrate..... (N)	2.44 mg/l
Oil & Grease.....	mg/l
pH.....	8.07
Phenols.....	mg/l
Phosphate - Ortho.....	5.52 mg/l
Phosphate, Total.....	6.86 mg/l
Potassium.....	mg/l
Selenium.....	mg/l
Settleable Solids.....	ml/l
Silver.....	386 mg/l
Sodium.....	2880 mg/l
Specific Conductance.....	2880 micromhos/cm
Sulfate.....	539 mg/l
Sulfide.....	mg/l
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	261 mg/l
Bicarbonate Alkalinity.....	261 mg/l
Carbonate Alkalinity.....	0 mg/l
Total Dissolved Solids - (Filterable Residue).....	2014 mg/l
Total Hardness.....	576 mg/l
Turbidity.....	Units
Zinc.....	mg/l

Silica 24.3 mg/l
Carbon Dioxide 4.4 mg/l

SAWPA DES



001006101

Joseph P. Zimmer

Laboratory Director

Temescal wash, north of Nichols Rd TSS/PSW/sec 23

north of sampling pt 1 (one)

Time: 15:25, Date: 4/22/83, water Temp: 63°F, water app. not clear

Temp - 2

Flow: ~ 6 ft³/sec

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia..... (N)	0.09	Nitrate..... (N)	0.77
Antimony.....	mg/l	Oil & Grease.....	mg/l
Asenic.....	mg/l	pH.....	7.75
O.D.....	mg/l	Phenols.....	mg/l
Arium.....	mg/l	Phosphate - Ortho.....	6.07
Aryllium.....	mg/l	Phosphate, Total.....	mg/l
Smuth.....	mg/l	Potassium.....	10.0
Iron.....	0.82	Selenium.....	mg/l
O.D.....	mg/l	Settleable Solids.....	ml/l
Admium.....	mg/l	Silver.....	mg/l
Alcium.....	123	Sodium.....	505
Chloride.....	484	Specific Conductance.....	3330
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	micromhos/cm
Chromium (Hexavalent).....	mg/l	Sulfide.....	744
Chromium (Total).....	mg/l	Sulfide.....	mg/l
Cobalt.....	mg/l	Surfactants (MBAS).....	mg/l
Copper.....	mg/l	Suspended Solids.....	mg/l
Cyanide.....	mg/l	Temperature.....	°F
Dissolved Oxygen.....	mg/l	Tin.....	mg/l
D.O. (total).....	gals/day	Titanium.....	mg/l
D.O. (peak).....	gals/min	Total Alkalinity.....	278
Fluoride.....	mg/l	Bicarbonate Alkalinity.....	278
Iron.....	< 0.02	Carbonate Alkalinity.....	0
Lead.....	mg/l	Total Dissolved Solids -	mg/l
Magnesium.....	77.2	(Filterable Residue).....	2493
Manganese.....	mg/l	Total Hardness.....	626
Mercury.....	mg/l	Turbidity.....	Units
		Zinc.....	mg/l
Hydroxide Alkalinity.....	0 mg/l	Silica.....	16.5 mg/l
Nitrite (N).....	0.02 mg/l	Carbon Dioxide.....	10.8 mg/l
Organic Nitrogen.....	0.87 mg/l		

SAWPA DES



001006102

Joseph P. Zimmer

Laboratory Director

Temescal Cyn. Rd. & Dawson Cyn. Rd. TSS/RGW/Sec 1

Time: 13:15 Date: 4/10/83, water Temp: 74°F, water app: clear

Flow: 1.2 ft³/sec. T-1

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia..... (N)	<0.03
Antimony.....	mg/l
Asenic.....	mg/l
Barium.....	mg/l
Beryllium.....	mg/l
Bismuth.....	mg/l
Boron.....	0.09
Barium.....	mg/l
Cadmium.....	76.7
Calcium.....	29.8
Chloride.....	mg/l
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l
Chromium (Hexavalent).....	mg/l
Chromium (Total).....	mg/l
Cobalt.....	mg/l
Copper.....	mg/l
Cyanide.....	mg/l
Dissolved Oxygen.....	mg/l
Flow (total).....	gals/day
Flow (peak).....	gals/min
Fluoride.....	mg/l
Iron.....	<0.02
Lead.....	mg/l
Magnesium.....	15.1
Manganese.....	mg/l
Mercury.....	mg/l

Hydroxide Alkalinity

0 mg/l

PARAMETER

VALUE

Nickel.....	mg/l
Nitrate..... (N)	6.82
Oil & Grease.....	mg/l
pH.....	8.48
Phenols.....	mg/l
Phosphate - Ortho.....	8.41
Phosphate, Total.....	mg/l
Potassium.....	3.02
Selenium.....	mg/l
Settleable Solids.....	ml/l
Silver.....	mg/l
Sodium.....	43.5
Specific Conductance.....	721
Sulfate.....	micromhos/cm
Sulfide.....	175
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	101
Bicarbonate Alkalinity.....	99
Carbonate Alkalinity.....	2
Total Dissolved Solids - (Filterable Residue).....	488
Total Hardness.....	254
Turbidity.....	Units
Zinc.....	mg/l

Silica

32.7 mg/l

Carbon Dioxide

0 mg/l

SAWPA DES



001006103

Carol P. Zimmer

Laboratory Director

Temescal Cyn. Rd. & Cajalco Rd. T45/R4W/sec. 16

Time: 14:00, Date: 4/19/83, water Temp: 70°F, water app: muddy

Flow: 18 ft³/sec. T 2

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia (N).....	0.05 mg/l
Antimony.....	mg/l
Arsenic.....	mg/l
COD.....	mg/l
Chromium.....	mg/l
Cyanide.....	mg/l
Cadmium.....	0.12 mg/l
COD.....	mg/l
Cadmium.....	mg/l
Calcium.....	104 mg/l
Chloride.....	104 mg/l
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l
Chromium (Hexavalent).....	mg/l
Chromium (Total).....	mg/l
Cobalt.....	mg/l
Copper.....	mg/l
Cyanide.....	mg/l
Dissolved Oxygen.....	mg/l
Flow (total).....	gals/day
Flow (peak).....	gals/min
Fluoride.....	mg/l
Iron.....	<0.02 mg/l
Lead.....	mg/l
Magnesium.....	27.2 mg/l
Manganese.....	mg/l
Mercury.....	mg/l

Hydroxide Alkalinity 0 mg/l

PARAMETER

VALUE

Nickel.....	mg/l
Nitrate (N).....	1.78 mg/l
Oil & Grease.....	mg/l
pH.....	8.21
Phenols.....	mg/l
Phosphate - Ortho.....	6.90 mg/l
Phosphate, Total.....	mg/l
Potassium.....	4.23 mg/l
Selenium.....	mg/l
Settleable Solids.....	ml/l
Silver.....	mg/l
Sodium.....	83.9 mg/l
Specific Conductance.....	1105 micromhos/cm
Sulfate.....	203 mg/l
Sulfide.....	mg/l
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	176 mg/l
Bicarbonate Alkalinity.....	176 mg/l
Carbonate Alkalinity.....	0 mg/l
Total Dissolved Solids - (Filterable Residue).....	683 mg/l
Total Hardness.....	371 mg/l
Turbidity.....	Units
Zinc.....	mg/l

Silica 23.8 mg/l
Carbon Dioxide 0.9 mg/l

SAWPA DES



001006104

Joseph P. Zimmer

Laboratory Director

magnolia & Sixth st. in Corona, south of Sixth st, cross

magnolia

T 35/R 64/sec 32

Time: 14:45, Date: 4/19/83, water Temp: 63, water app. little green

Flow: 18 ft³/sec

T-3

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia..... (N)	0.04 mg/l
Antimony.....	mg/l
Arsenic.....	mg/l
Barium.....	mg/l
Beryllium.....	mg/l
Bismuth.....	mg/l
Boron.....	0.08 mg/l
Bromine.....	mg/l
Cadmium.....	mg/l
Calcium.....	103 mg/l
Chloride.....	106 mg/l
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l
Chromium (Hexavalent).....	mg/l
Chromium (Total).....	mg/l
Cobalt.....	mg/l
Copper.....	mg/l
Cyanide.....	mg/l
Dissolved Oxygen.....	mg/l
Flow (total).....	gals/day
Flow (peak).....	gals/min
Fluoride.....	mg/l
Iron.....	<0.02 mg/l
Lead.....	mg/l
Magnesium.....	29.4 mg/l
Manganese.....	mg/l
Mercury.....	mg/l

Hydroxide Alkalinity

0 mg/l

PARAMETER

VALUE

Nickel.....	mg/l
Nitrate..... (N)	1.97 mg/l
Oil & Grease.....	mg/l
pH.....	8.50
Phenols.....	mg/l
Phosphate - Ortho.....	6.07 mg/l
Phosphate, Total.....	mg/l
Potassium.....	4.28 mg/l
Selenium.....	mg/l
Settleable Solids.....	ml/l
Silver.....	mg/l
Sodium.....	91.5 mg/l
Specific Conductance.....	1130 micromhos/cm
Sulfate.....	235 mg/l
Sulfide.....	mg/l
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	175 mg/l
Bicarbonate Alkalinity.....	159 mg/l
Carbonate Alkalinity.....	16 mg/l
Total Dissolved Solids - (Filterable Residue).....	708 mg/l
Total Hardness.....	377 mg/l
Turbidity.....	Unit
Zinc.....	mg/l

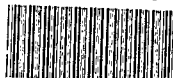
Silica

25.3 mg/l

Carbon Dioxide

0 mg/l

SAWPA DES



001006105

Joseph P. Zimmer

Laboratory Director

E. Grand Blvd. & 3rd St. in Corona, End of 3rd St.

TSS/26W/Sec 27

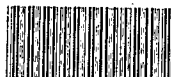
Time: 15:15, Date: 4/19/83, water Temp: 67 F, water app: not clear

Flow: 18 ft³/sec

T-4

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia (N).....	0.03 mg/l	Nitrate (N).....	1.85 mg/l
Antimony.....	mg/l	Oil & Grease.....	8.52 mg/l
Barium.....	mg/l	pH.....	
Benzene.....	mg/l	Phenols.....	6.00 mg/l
BOD.....	mg/l	Phosphate - Ortho.....	4.14 mg/l
Bromine.....	mg/l	Phosphate, Total.....	
Bryllium.....	mg/l	Potassium.....	
Cadmium.....	mg/l	Selenium.....	
Calcium.....	103 mg/l	Settleable Solids.....	ml/l
Chloride.....	109 mg/l	Silver.....	92.4 mg/l
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sodium.....	1123 mg/l
Chromium (Hexavalent).....	mg/l	Specific Conductance.....	micromhos/cm
Chromium (Total).....	mg/l	Sulfate.....	224 mg/l
Cobalt.....	mg/l	Sulfide.....	mg/l
Copper.....	mg/l	Surfactants (MBAS).....	mg/l
Cyanide.....	mg/l	Suspended Solids.....	mg/l
Dissolved Oxygen.....	mg/l	Temperature.....	°F
Flow (total).....	gals/day	Tin.....	mg/l
Flow (peak).....	gals/min	Titanium.....	181 mg/l
Fluoride.....	mg/l	Total Alkalinity.....	167 mg/l
Iron.....	0.02 mg/l	Bicarbonate Alkalinity.....	14 mg/l
Lead.....	mg/l	Carbonate Alkalinity.....	
Magnesium.....	29.5 mg/l	Total Dissolved Solids -	
Manganese.....	mg/l	(Filterable Residue).....	705 mg/l
Mercury.....	mg/l	Total Hardness.....	380 mg/l
		Turbidity.....	Units
		Zinc.....	mg/l
Hydroxide Alkalinity	0. mg/l	Silica	25.3 mg/l
		Carbon Dioxide	0 mg/l

SAWPA DES



001006106

Carol P. Zimmer

Laboratory Director

Summary :

on 4/22/83, Fri, 14-16.00 P.M. I sampled
Temescal wash at two stations.

one sample was taken at a concrete wash
north of Nichols Rd on a dirt road
this concrete channel goes under the dirt road
and appears further north again.

second sample was taken further north when the
road splits and turns left.

Samples were tested for mineral Analysis, Nitrogen Series

Sample NO. 1

Tem - 1

Temescal wash

Time: 14:45

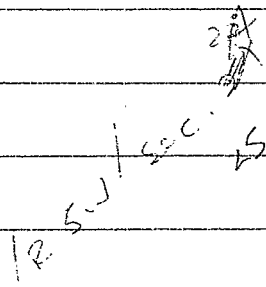
Date: 4/22/83

weather: Sunny, 70°F

water Temp: 21°C

water app: not clear

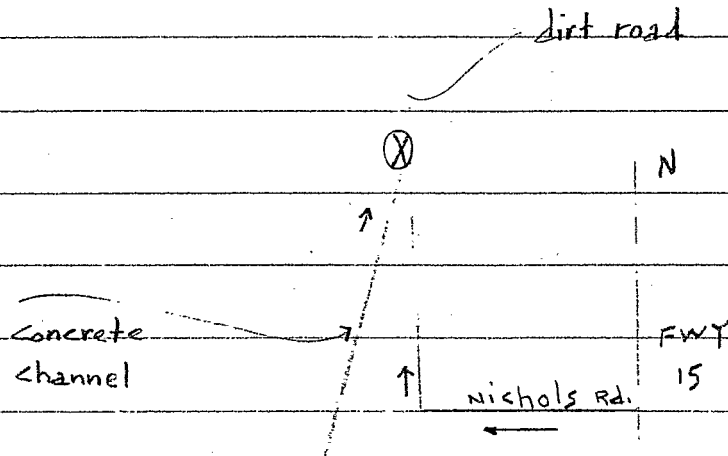
Algae is Growing on the Bank



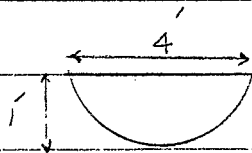
SP

dirt road

location:



APP. Flow:



cross sectional area $4' \times 1' = 4 \text{ ft}^2$

velocity = $6/20 \text{ sec.}$

$$Q = V \times A$$

$$= (6/20)(4)$$

$$Q = 1.2 \text{ ft}^3/\text{sec.}$$

Sample NO. 2 Tem. 2 Temescal wash

Time: 15:25

Date: 4/22/83

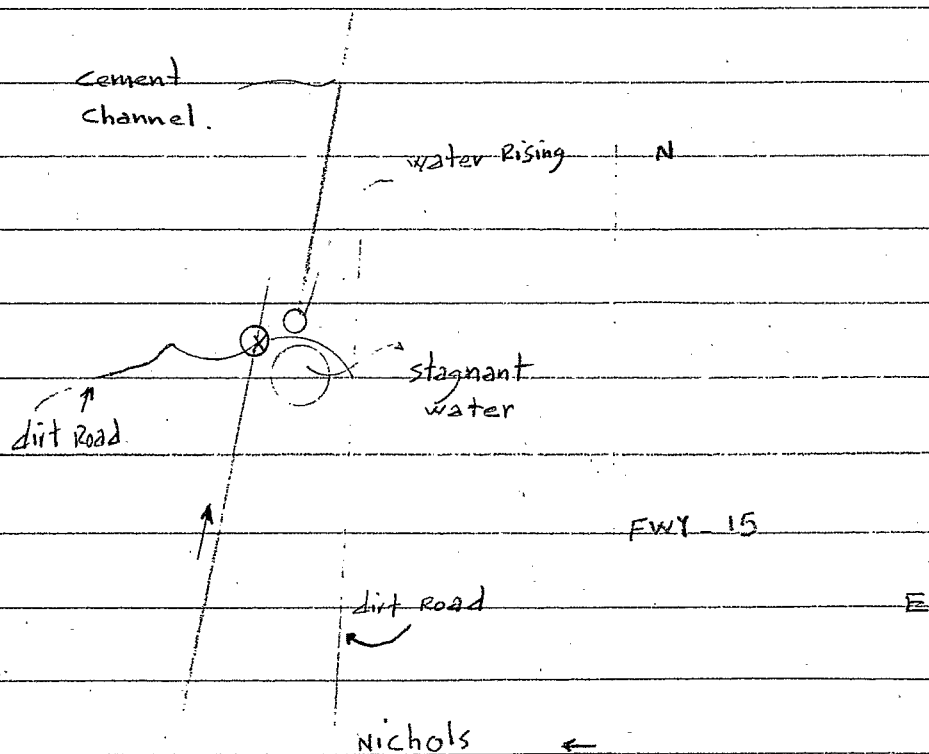
weather: sunny 70°F

water Temp: 17°C

water app: not clear

55 ft

Location:



APP. Flow

$$Q = 6 \text{ ft}^3/\text{sec.}$$

Inland Water Bodies

1. Temescal Creek:

- Beneficial Uses: AGR, IND, GWR, REC1, REC2, WARM, WILD, RARE, SPWN, LWRM
- Hydrologic Unit: 801.25
- Total Water Body Size:
- Size Impaired: Unknown at this time
- Extent of Impairment: Unknown at this time
- Data Analyses:
 - Orange County Water District Data*
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" arsenic standard of 150 ug/L (based on hardness = 285 mg/L)
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" cadmium standard of 13 ug/L (based on hardness = 285 mg/L)
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" copper standard of 36 ug/L (based on hardness = 285 mg/L)
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" lead standard of 190 ug/L (based on hardness = 285 mg/L)
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" nickel standard of 1100 ug/L (based on hardness = 285 mg/L)
 - 0/1 exceeded the CTR "max. conc. 1-hr avg" zinc standard of 280 ug/L (based on hardness = 285 mg/L)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 8.5 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 13 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 11 ug/L (Based on hardness = 238)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 25 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 36 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 31 ug/L (Based on hardness = 238)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 810 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 1100 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 980 ug/L (Based on hardness = 238)

- Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” lead standard of 130 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” lead standard of 190 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” lead standard of 170 ug/L (Based on hardness = 238)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” selenium standard of 20 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” selenium standard of 20 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” selenium standard of 20 ug/L (Based on hardness = 238)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” zinc standard of 200 ug/L (Based on hardness = 194)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” zinc standard of 280 ug/L (Based on hardness = 284)
 - Reach 1A – 0/1 exceeded the “Cal Toxics Rule Max Conc 1 hr Avg” zinc standard of 250 ug/L (Based on hardness = 238)
- Potential Sources: Unknown at this time
 - Recommendation: More monitoring due to not enough data points available per parameter to reach a conclusion for impairment and insufficient data to back up results.
 - TMDL Priority: None at this time
 - TMDL Start Date: Not applicable at this time
 - TMDL End Date: Not applicable at this time

Temescal Creek

StationName	ParamName	Result_Val	Units	SampDate	SampTime
CK-TEMESCAL-01	Arsenic	3.3	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Cadmium	0.1	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Copper	11	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Lead	0.1	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Nickel	1.5	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Selenium	0.5	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Zinc	5	ug/L	8/23/99	11:45
CK-TEMESCAL-02	Arsenic	4.6	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Arsenic	3.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Arsenic	0.2	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Copper	13	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Copper	6.4	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Copper	5.7	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Lead	0.1	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Lead	0.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Lead	2.7	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Nickel	1.3	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Nickel	1.6	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Nickel	1.9	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Zinc	5	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Zinc	5	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Zinc	5	ug/L	8/22/00	14:40

California Toxics Rule ✓

Receiving Water Body	Parameter Name	Number of times above std.	Standard ^{all are in (mg/L)}	Source of Standard
Temescal Creek O2	Arsenic	8/25/97 4.6 8/17/98 3.1	— No std. for dissolved	
Temescal Creek O2	Cadmium	8/25/97 0.1 mg/L 0/1	Hardness = 194 8.5	Max. Conc. 1 hr. Avg. (Continuous Conc. 1-day Avg. N/A)
"	Cadmium	8/17/98 0.1 mg/L 0/1	Hardness = 194 13	Max. Conc. 1 hr. Avg.
"	Cadmium	8/22/00 0.1 mg/L 0/1	Hardness = 238 11	"
Temescal Creek O2	Copper	8/25/97 13 0/1	Hardness = 194 25	Max. Conc. 1 hr. Avg.
"	Copper	8/17/98 6.4 0/1	Hardness = 284 36	"
"	Copper	8/22/00 5.4 0/1	Hardness = 238 31	"
Temescal Creek O2	Nickel	8/25/97 1.3 0/1	Hardness = 194 810 25	Max. Conc. 1 hr. Avg.
"	Nickel	8/17/98 1.6 0/1	Hardness = 284 1100 35	"
"	Nickel	8/22/00 1.9 0/1	Hardness = 238 980 31	"
Temescal Creek O2	Lead	8/25/97 0.1 0/1	Hardness = 194 130 25	Max. Conc. 1 hr. Avg.
"	Lead	8/17/98 0.1 0/1	Hardness = 284 190 35	"
"	Lead	8/22/00 2.7 0/1	Hardness = 238 170 31	"
Temescal Creek O2	Selenium	8/25/97 0.5 0/1	Hardness = 194 20 25	Max. Conc. 1 hr. Avg.
"	Selenium	8/17/98 0.5 0/1	Hardness = 284 20 35	"
"	Selenium	8/22/00 0.5 0/1	Hardness = 238 20 31	"
Temescal Creek O2	Zinc	8/25/97 5 0/1	Hardness = 194 200 25	Max. Conc. 1 hr. Avg.
"	Zinc	8/17/98 5 0/1	Hardness = 284 280 35	"
"	Zinc	8/22/00 5 0/1	Hardness = 238 250 31	"

[illegible]

Max. Power, 1 hr, Avg.	(4 min Avg)
"	N/A

11

12

1188

Tennessee WASH Jumping Performance

Purpose

Tennessee WASH was sampled in order to update information on the back. Specific goals of the sampling/assessment were:

1) Update information on the

2) Update information on the

3) Update information on the

4) Update information on the

5) Update information on the

6) Update information on the

7) Update information on the

E.M.L.D.

Staff - Hope Smith, the

8) Update information on the

Summary

- Field Measurements

- Notes

- Materials

<u>Sampling Site</u>	<u>Date</u>
1) EISNER ETP	8/19/88
2. TUCK @ CHURCH VILLAGE	"
3) TUCK @ HULLOCK	8/11/88
4) Side Stream @ Suburban	8/11/88
5) TUCK @ Suburban	8/11/88
6) Home Gardens FC @ Hullock	8/11/88
7) TUCK @ Minnesota D.	8/16/88

See map in EPN map file.

Temescal Cr. Water Quality Objectives

Lower CSAR to Riverside Canal

TFR - 800
Hard. - 400
Na - 100
Cl - 200
Tot. Inorg. M - 6
SO₄ - 70

LOMUE W/ 8/11/88 Sample Water
@ Rukundale

TFR - 850 *
Hard - 450 *
Na - 120 *
Cl - 127
TDM - 11.9 *
SO₄ - 176 *

* EXCEED EACH FAN OBJECTIVES

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
6809 INDIANA AVENUE, SUITE 200
RIVERSIDE, CALIFORNIA 92506
PHONE: (714) 782-4130



October 11, 1988

Mr. Chip Paulson
Montgomery Engineers
30 Corporate Park, Suite 310
Irvine, CA 92714

TEMESCAL CREEK WATER QUALITY DATA

Dear Chip:

As you requested, I am enclosing the water quality data obtained this summer from our sampling of Temescal Creek. I have detailed on the analyses sheets the exact location where the samples were collected.

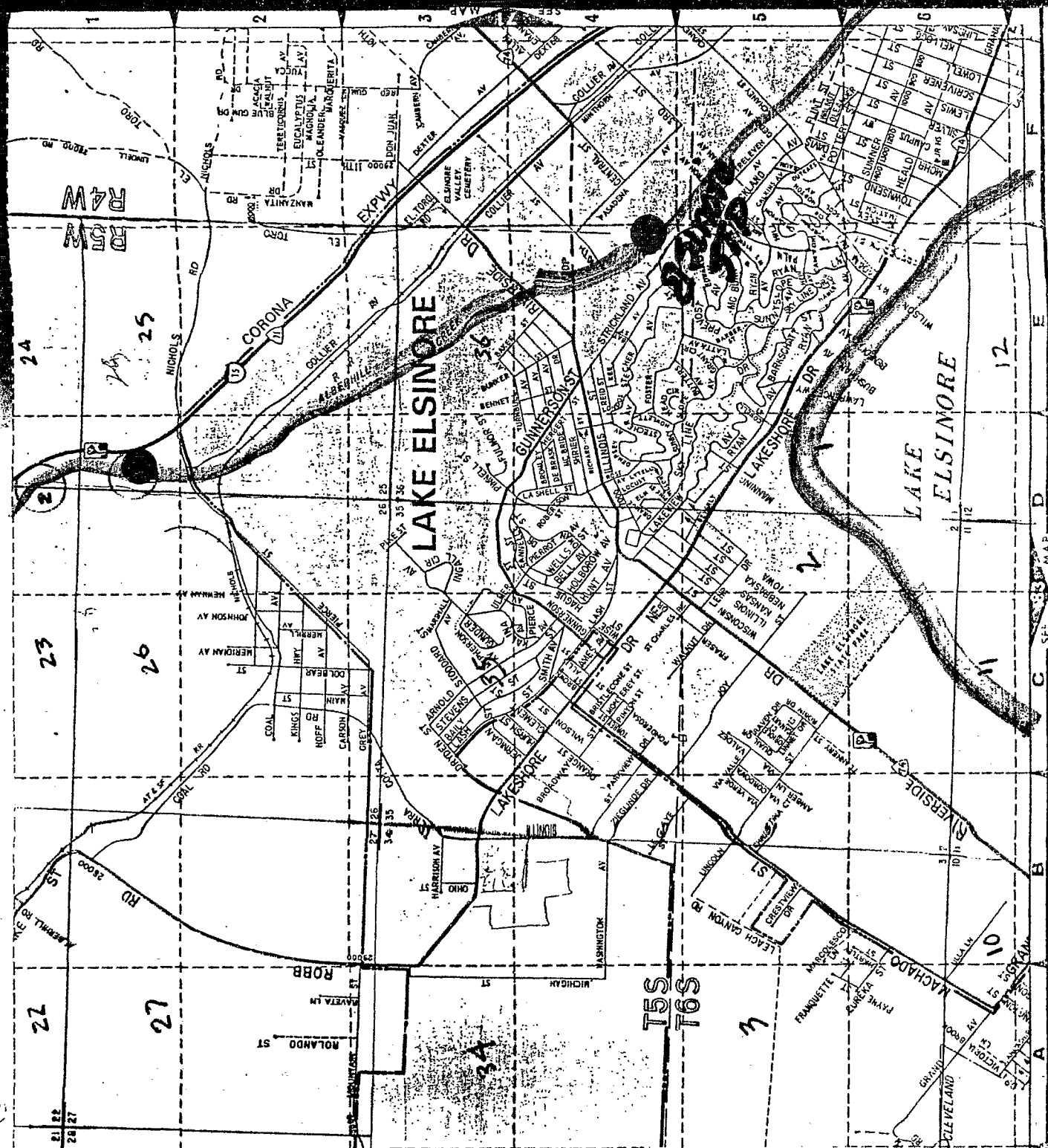
If you need additional information or have any questions, please let me know.

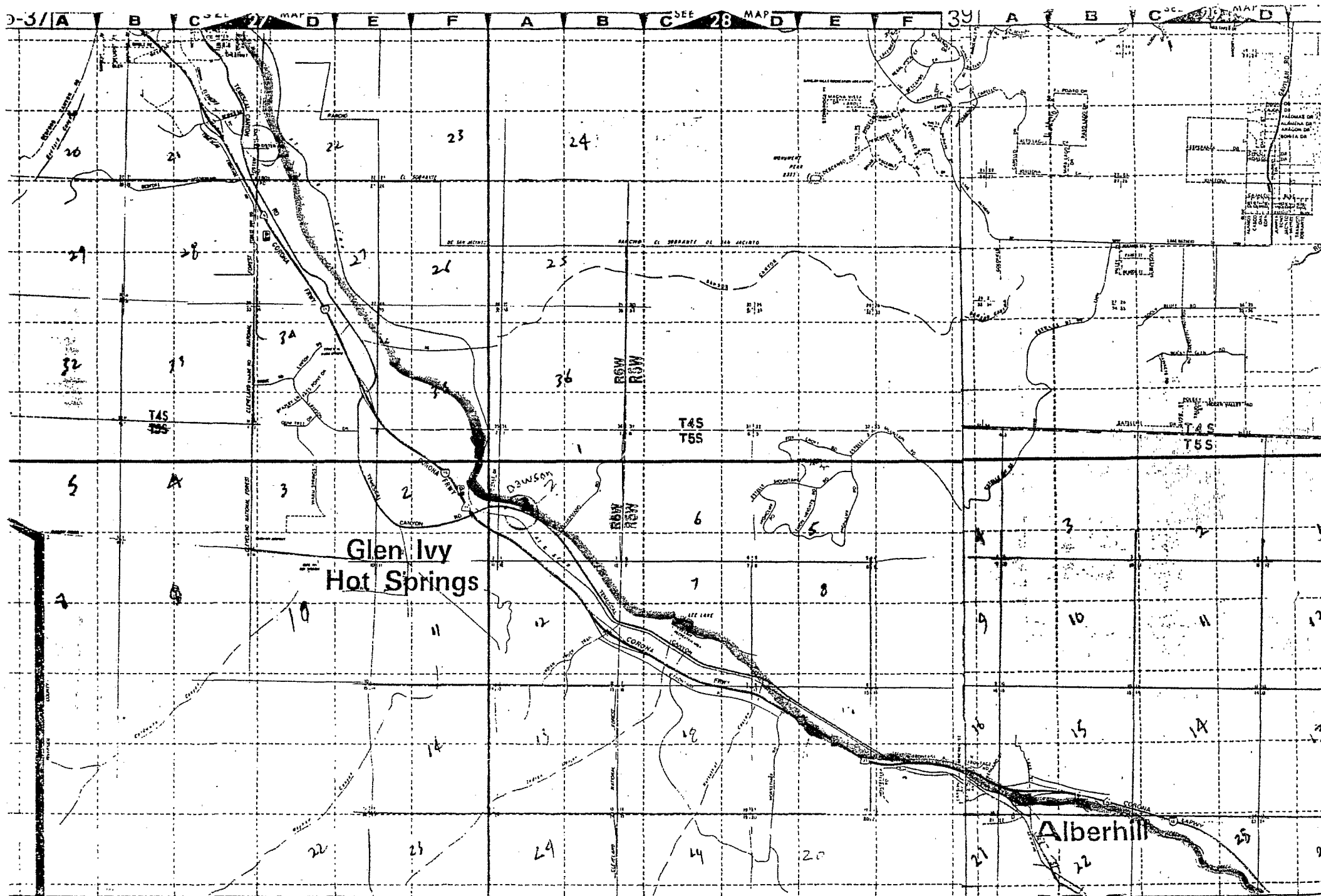
Sincerely,

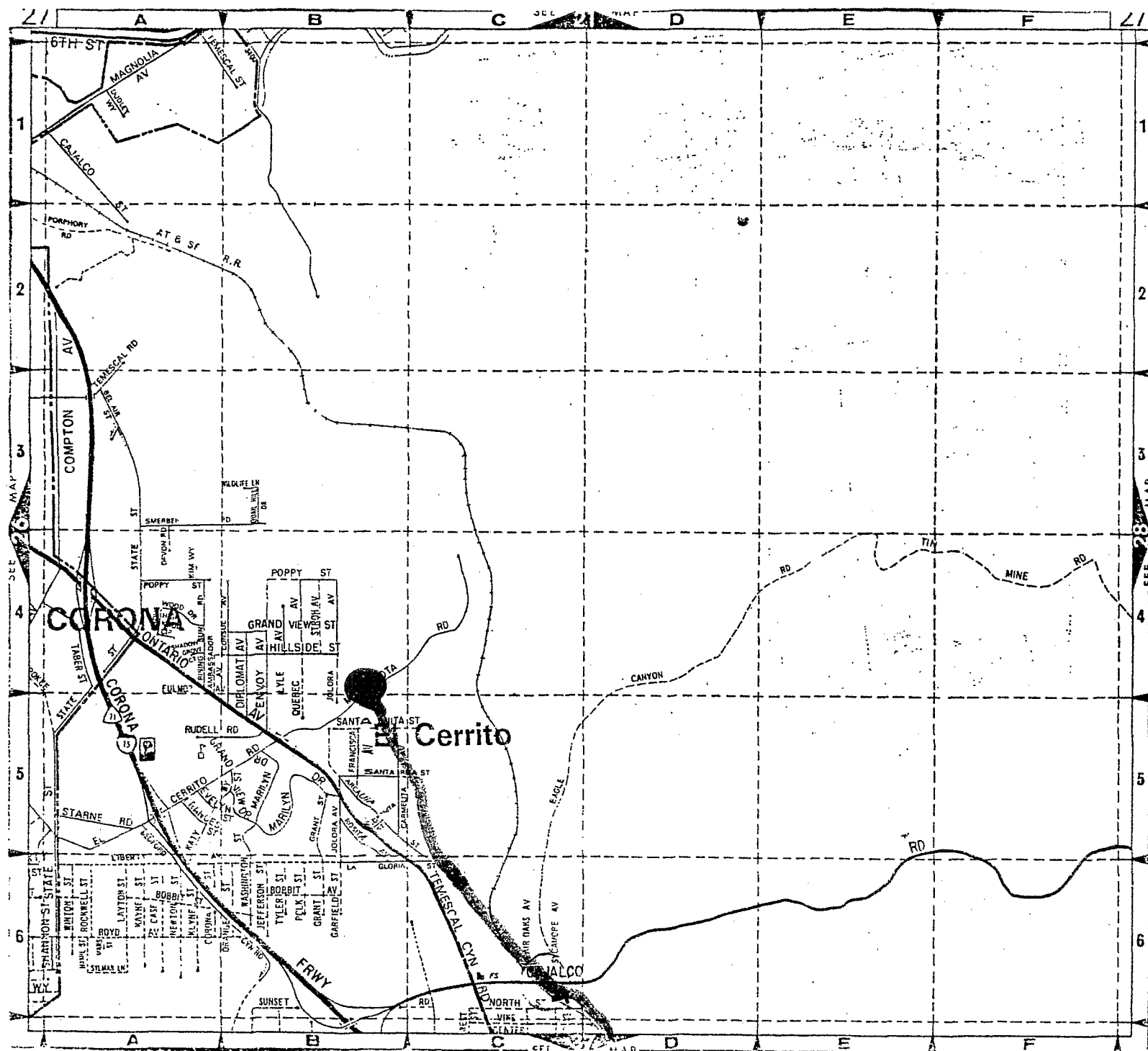
Hope M. Smythe
Environmental Specialist III

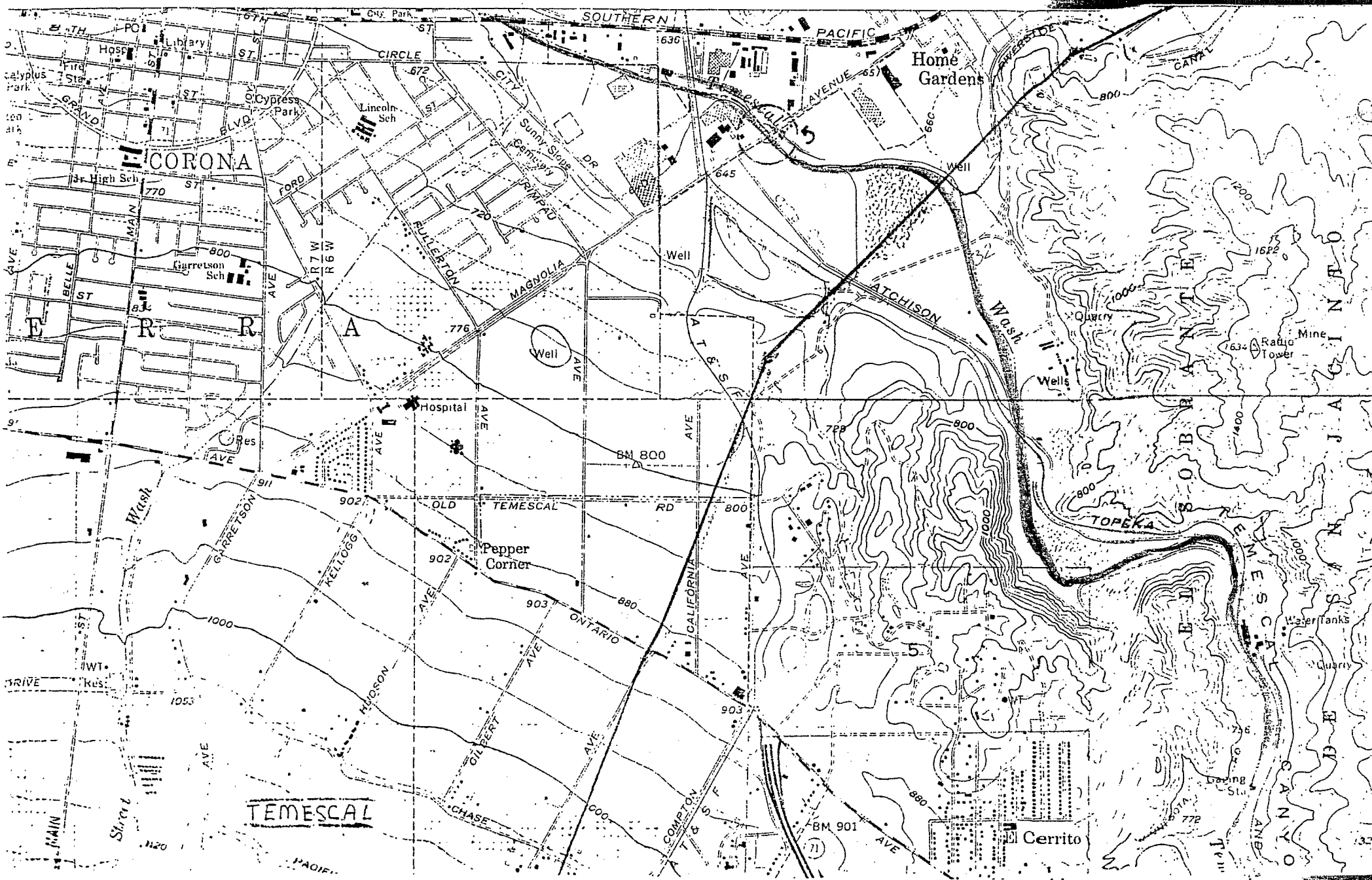
enclosure

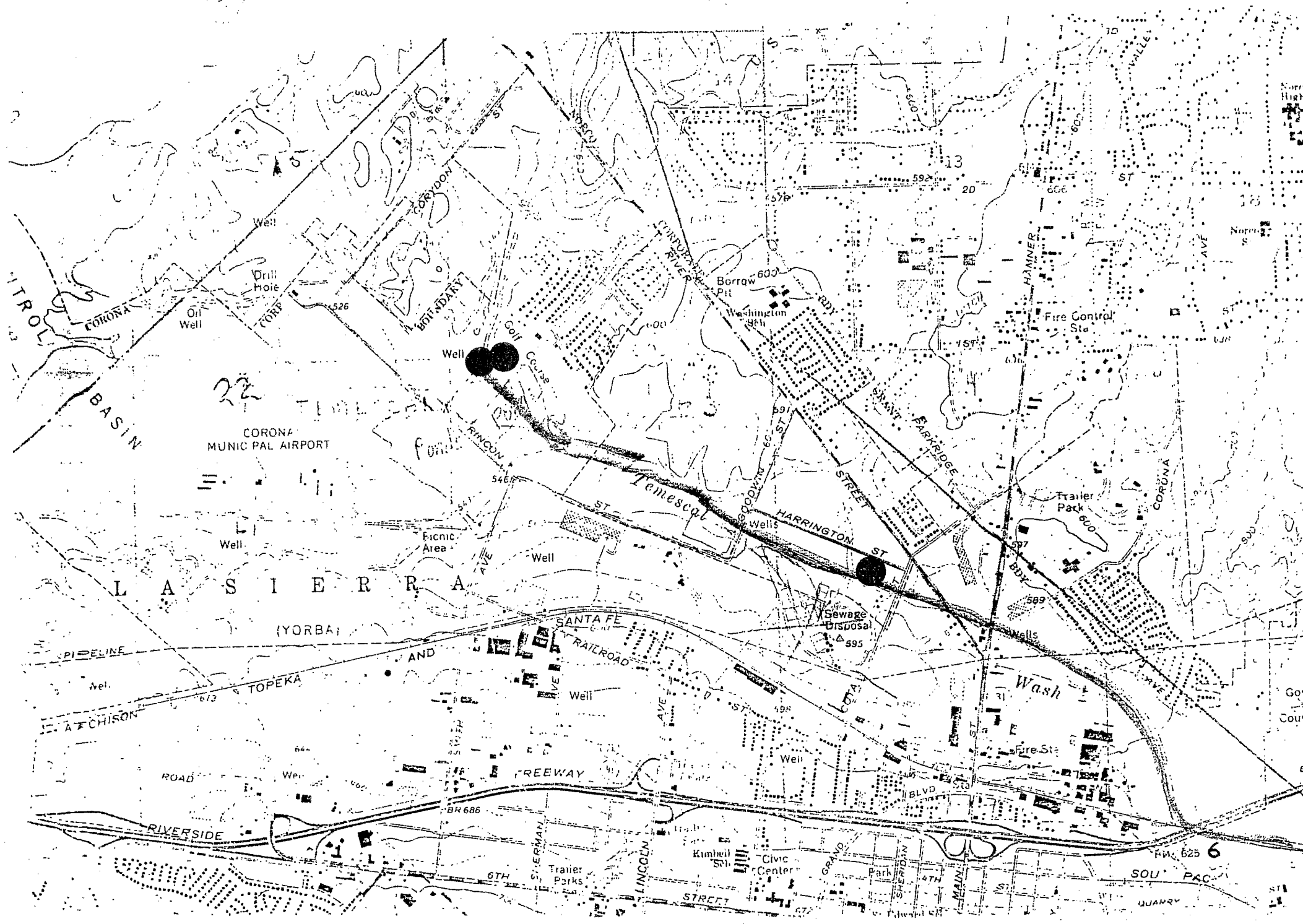
file:Tem.Cr./Paulson.let











BACTERIOLOGY
WATER TESTING
HAZARDOUS WASTE TESTING
CALIF. DHS CERTIFIED
PHONE (714) 684-1881
LABORATORIES
215 CHICAGO AVE.

ESTABLISHED 1906
EDWARD S. BABCOCK & SONS, INC.
P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



09/08/88

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

Lab. No. 880816-200
Invoice No. 93014

Sample Marked: ~~Temescal Creek Flood Control~~
@ Minnesota St. (water)
Submitted By KS
Date 8/16/88
Time 8:45
Sampled KLS/HS
8/15/88
11:45

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	339 mg/L	Specific Conductance	1200 umho/cm
as CaCO ₃		pH	8.2
Calcium (Ca)	130 mg/L	Total Filterable	520 mg/L
Magnesium (Mg)	27 mg/L	Residue	
Sodium (Na)	81 mg/L	BOD ₅	6 mg/L
Potassium (K)	2 mg/L	COD	35 mg/L
Ammonium Nitrogen	0.2 mg/L	Fluoride (F)	0.5 mg/L
Total Cations	12.34 me/L	Kjeldahl Nitrogen	2.2 mg/L
Total Alkalinity	200 mg/L	Total Nitrogen	10.5 mg/L
as CaCO ₃		Total Phosphorus	0.07 mg/L
Hydroxide (OH)	none mg/L	Phosphate Phosphorus	0.04 mg/L
Carbonate (CO ₃)	none mg/L	Organic Nitrogen	2.0 mg/L
Bicarbonate (HCO ₃)	244 mg/L	Nitrite Nitrogen	0.3 mg/L
Sulfate (SO ₄)	223 mg/L	Boron (B)	0.1 mg/L
Chloride (Cl)	113 mg/L	Iron (Fe)	0.09 mg/L
Nitrate Nitrogen	8.0 mg/L		
Total Anions	12.40 me/L		

pH = 8.09

EC = 1250 @ 27°C

Q = 0.2145

Chain of Custody on File

EDWARD S. BABCOCK & SONS, INC.

Sherman Babcock

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EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

RECEIVED

AUG 31 1988



CRWQCB - REGION 3

08/30/88

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

Lab No. 880811-430
Invoice No. 92934

Submitted Sampled

Sample Marked: Temescal Crk #3 Wastewater
~~Temescal~~ @ Harrison

By KS KS/HS
Date 8/11/88 8/11/88
Time 16:35 11:40

Home 6:00 PM

<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	375 mg/L
as CaCO ₃	
Calcium (Ca)	85 mg/L
Magnesium (Mg)	39 mg/L
Sodium (Na)	114 mg/L
Potassium (K)	3 mg/L
Ammonium Nitrogen	1.9 mg/L
Total Cations	12.68 me/L
Total Alkalinity	200 mg/L
as CaCO ₃	
Hydroxide (OH)	none mg/L
Carbonate (CO ₃)	none mg/L
Bicarbonate (HCO ₃)	244 mg/L
Sulfate (SO ₄)	200 mg/L
Chloride (Cl)	128 mg/L
Nitrate Nitrogen	11.8 mg/L
Total Anions	12.62 me/L

<u>PARAMETER</u>	<u>RESULT</u>
Specific Conductance	1225 umho/cm
pH	8.7
Total Filterable	735 mg/L
Residue	
BOD ₅	10 mg/L
COD	30 mg/L
Fluoride (F)	0.6 mg/L
Kjeldahl Nitrogen	2.7 mg/L
Total Nitrogen	14.6 mg/L
Total Phosphorus	0.17 mg/L
Phosphate Phosphorus	0.05 mg/L
Organic Nitrogen	0.8 mg/L
Nitrite Nitrogen	0.1 mg/L
Boron (B)	0.3 mg/L
Iron (Fe)	1.5 mg/L

PH = 8.38 @ 25.1°C

EC -- 1220 @ 24°C

Q = 6.17 cfs

EDWARD S. BABCOCK & SONS, INC.

Edward S. Babcock

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WATER TESTING
HAZARDOUS WASTE TESTING
CALIF. DHS CERTIFIED

PHONE (714) 684-1881

LABORATORIES
CHICAGO AVE.

ESTABLISHED 1908

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P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



08/30/88

RECEIVED

AUG 31 1988

CRWQCB - RESULTS

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

Lab No. 880811-428
Invoice No. 92934

Sample Marked: Temescal Crk #1 Wastewater
Temescal & Aubardale

Submitted Sampled

By KS KS/HS
Date 8/11/88 8/11/88
Time 16:35 9:40

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	450 mg/L	Specific Conductance	1400 umho/cm
as CaCO ₃		pH	8.2
Calcium (Ca)	110 mg/L	Total Filterable	830 mg/L
Magnesium (Mg)	42 mg/L	Residue	
Sodium (Na)	120 mg/L	BOD ₅	17 mg/L
Potassium (K)	5 mg/L	COD	30 mg/L
Ammonium Nitrogen	0.1 mg/L	Fluoride (F)	0.5 mg/L
Total Cations	14.35 me/L	Kjeldahl Nitrogen	2.9 mg/L
Total Alkalinity	303 mg/L	Total Nitrogen	14.7 mg/L
as CaCO ₃		Total Phosphorus	0.10 mg/L
Hydroxide (OH)	none mg/L	Phosphate Phosphorus	0.03 mg/L
Carbonate (CO ₃)	none mg/L	Organic Nitrogen	2.8 mg/L
Bicarbonate (HCO ₃)	369 mg/L	Nitrite Nitrogen	0.1 mg/L
Sulfate (SO ₄)	176 mg/L	Boron (B)	0.4 mg/L
Chloride (Cl)	127 mg/L	Iron (Fe)	0.34 mg/L
Nitrate Nitrogen	11.7 mg/L		
Total Anions	14.14 me/L		

PH = 8.09

Temp = 19.4

EC = 1020 (T = 20°C)

Q = 4.71 cfs

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RIVERSIDE, CALIFORNIA 92502



RECEIVED

08/30/88

AUG 31 1988

CRWQCB

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

Lab No. 880811-429
Invoice No. 92934

Submitted Sampled

Sample Marked: Temescal Ck #2 Wastewater
Side Stream @ Aubarndale

By KS KS/HS
Date 8/11/88 8/11/88
Time 16:35 10:30

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	425 mg/L	Specific Conductance	1290 umho/cm
as CaCO ₃		pH	8.4
Calcium (Ca)	120 mg/L	Total Filterable	790 mg/L
Magnesium (Mg)	30 mg/L	Residue	
Sodium (Na)	110 mg/L	BOD ₅	10 mg/L
Potassium (K)	7 mg/L	COD	30 mg/L
Ammonium Nitrogen	0.8 mg/L	Fluoride (F)	0.5 mg/L
Total Cations	13.52 me/L	Kjeldahl Nitrogen	1.8 mg/L
Total Alkalinity	217 mg/L	Total Nitrogen	6.0 mg/L
as CaCO ₃		Total Phosphorus	0.38 mg/L
Hydroxide (OH)	none mg/L	Phosphate Phosphorus	0.18 mg/L
Carbonate (CO ₃)	none mg/L	Organic Nitrogen	1.0 mg/L
Bicarbonate (HCO ₃)	265 mg/L	Nitrite Nitrogen	<0.1 mg/L
Sulfate (SO ₄)	240 mg/L	Boron (B)	0.2 mg/L
Chloride (Cl)	120 mg/L	Iron (Fe)	0.70 mg/L
Nitrate Nitrogen	4.2 mg/L		
Total Anions	13.03 me/L		

PH = 8.08

T = 22.5

NO EC

NO Q

EDWARD S. BABCOCK & SONS, INC.

James V. Babcock

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ESTABLISHED 1906

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08/30/88

AUG 31 1988
CRWQCB

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

Lab No. 880811-431
Invoice No. 92934

Sample Marked: Temescal Creek Wastewater #4
True Temescal @ Harrison

<u>Submitted</u>	<u>Sampled</u>
By KS	KS/HS
Date 8/11/88	8/11/88
Time 16:35	14:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	255 mg/L	Specific Conductance	920 umho/cm
as CaCO ₃		pH	10.0
Calcium (Ca)	87 mg/L	Total Filterable	615 mg/L
Magnesium (Mg)	9 mg/L	Residue	
Sodium (Na)	92 mg/L	BOD ₅	6 mg/L
Potassium (K)	6 mg/L	COD	15 mg/L
Ammonium Nitrogen	0.8 mg/L	Fluoride (F)	0.7 mg/L
Total Cations	9.31 me/L	Kjeldahl Nitrogen	1.9 mg/L
Total Alkalinity	68 mg/L	Total Nitrogen	1.9 mg/L
as CaCO ₃		Total Phosphorus	0.23 mg/L
Hydroxide (OH)	none mg/L	Phosphate Phosphorus	0.08 mg/L
Carbonate (CO ₃)	27 mg/L	Organic Nitrogen	1.1 mg/L
Bicarbonate (HCO ₃)	27 mg/L	Nitrite Nitrogen	<0.1 mg/L
Sulfate (SO ₄)	257 mg/L	Boron (B)	0.1 mg/L
Chloride (Cl)	88 mg/L	Iron (Fe)	0.34 mg/L
Nitrate Nitrogen	<0.1 mg/L		
Total Anions	9.18 me/L		

PH = 9.9 @ 30.2°C

EC -

Q ~ 0.1 to 0.2 cfs

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James K. Babcock

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P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



09/13/88

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

Lab No. 880819-85
Invoice No. 93136

Submitted Sampled

Sample Marked: #2 Temescal @ Beehives
Water

By Kay KLS/HS
Date 8/19/88 8/19/88
Time 15:30 1:40

PARAMETER

RESULT

Total Hardness	301	mg/L
as CaCO ₃		
Calcium (Ca)	77	mg/L
Magnesium (Mg)	26	mg/L
Sodium (Na)	196	mg/L
Potassium (K)	13	mg/L
Ammonium Nitrogen	0.4	mg/L
Total Cations	14.90	me/L
Total Alkalinity	180	mg/L
as CaCO ₃		
Hydroxide (OH)	none	mg/L
Carbonate (CO ₃)	none	mg/L
Bicarbonate (HCO ₃)	220	mg/L
Sulfate (SO ₄)	209	mg/L
Chloride (Cl)	190	mg/L
Nitrate Nitrogen	<0.1	mg/L
Total Anions	13.30	me/L

PARAMETER

RESULT

Specific Conductance	1450	umho/cm
pH	8.0	
Total Filterable	640	mg/L
Residue		
BOD ₅	4	mg/L
COD	65	mg/L
Fluoride (F)	0.6	mg/L
Kjeldahl Nitrogen	3.1	mg/L
Total Nitrogen	3.2	mg/L
Total Phosphorus	3.5	mg/L
Phosphate Phosphorus	3.3	mg/L
Organic Nitrogen	2.7	mg/L
Nitrite Nitrogen	0.1	mg/L
Boron (B)	0.3	mg/L
Iron (Fe)	0.62	mg/L

EDWARD S. BABCOCK & SONS, INC.

Allison Mackenz

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P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502



09/13/88

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

Lab No. 880819-84
Invoice No. 93136

Submitted Sampled

Sample Marked: #1 Temescal @ STP
Water

By Kay
Date 8/19/88
Time 15:30

KLS/HS
8/19/88
1:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness	231 mg/L	Specific Conductance	1300 umho/cm
as CaCO ₃		pH	7.7
Calcium (Ca)	64 mg/L	Total Filterable	600 mg/L
Magnesium (Mg)	17 mg/L	Residue	
Sodium (Na)	160 mg/L	BOD ₅	15 mg/L
Potassium (K)	12 mg/L	COD	50 mg/L
Ammonium Nitrogen	17 mg/L	Fluoride (F)	0.6 mg/L
Total Cations	13.10 me/L	Kjeldahl Nitrogen	17 mg/L
Total Alkalinity	213 mg/L	Total Nitrogen	17.6 mg/L
as CaCO ₃		Total Phosphorus	5.9 mg/L
Hydroxide (OH)	none mg/L	Phosphate Phosphorus	5.5 mg/L
Carbonate (CO ₃)	none mg/L	Organic Nitrogen	<1 mg/L
Bicarbonate (HCO ₃)	259 mg/L	Nitrite Nitrogen	0.1 mg/L
Sulfate (SO ₄)	161 mg/L	Boron (B)	0.3 mg/L
Chloride (Cl)	153 mg/L	Iron (Fe)	0.11 mg/L
Nitrate Nitrogen	0.5 mg/L		
Total Anions	11.95 me/L		

PH 7.30 @ 23.7°C

Chain of Custody on File

EDWARD S. BABCOCK & SONS, INC.

Allison Mackey

Temescal Creek - Beneficial Uses

Sept. 8, 1988

Beneficial uses for Temescal Creek are being revised for incorporation into the updated Basin Plan. The review of Temescal Creek beneficial uses involved the division of Temescal Creek into 5 Reaches, with each Reach being assigned appropriate beneficial uses.

During the summer of 1988, staff of the Regional Board (H. Smythe and K. Stritzke) spent several days of reconnaissance of the characteristics of Temescal Creek. These trips consisted of mapping the creek channel, noting inputs, photo-documentation of conditions along the creek and stream gaging and collecting water samples where the creek was flowing. The focus of these activities was to gain a clearer picture of Temescal Creek in order to incorporate Temescal Creek into the QUAL 2E model for the Santa Ana River.

Proposed Reach designations and beneficial uses are listed in the attached table.

Reach 1 extends from the Santa Ana River to Riverside Canal. Riverside Canal demarcates the Riverside groundwater sub-basin and thus is good point for establishing the Reach boundary. Approximately 50% of the Creek stretch, from the Santa Ana River to Cota St. is concrete lined and flows through urban areas. Furthermore, approximately 75% of this Reach has year around continuous flow due to drainage from a Home Gardens flood control channel.

The 50% of this Reach that is an unlined natural channel, is open with easy access conducive to REC-1 and REC-2 uses. Housing tracts are nearby (a few hundred yards in some places) to the creek. Staff observed mosquito fish and aquatic insects at the Auburndale St. crossing. The aquatic inhabitants are further documented by CSUF in their 1986 UIA study. The combination of the water, riparian vegetation and aquatic insects help to create the WILD beneficial use. Other uses noted in this area include IND (there are gravel operations in this area)* and GWR (groundwater recharge to the Temescal groundwater sub-basin). *gravel ops

Reach 2 extends from Riverside Canal to the Lee Lake outlet. The Lee Lake boundary was selected since the dam acts as a barrier to any downstream flow.

In this Reach, Temescal Creek is all natural channel, part of which contains dense riparian vegetation (Riverside Canal to Cajalco Rd.). The remaining channel is rocky, dry stream bed.

Gravel washing by the numerous gravel companies downstream of Minnesota Ave. justifies the IND beneficial use. Temescal Creek is also readily accessible to the nearby ranches and homes. Equestrian trails traverse the creek in this Reach. REC-1 and

REC-2 uses are inevitable. This dense riparian vegetation provide a warm freshwater habitat (WARM and WILD beneficial use). There is also groundwater recharge to the Bedford groundwater basin (GWR).

Reach 3 extends from Lee Lake to the freeway cut. This Reach was chosen because characteristics upstream from the freeway cut are distinctly different from those downstream.

Lee Lake, a privately owned recreation area, is regularly stocked with catfish and bass. Other wildlife observed in this area include raccoons, deer, coyote, rabbits, squirrels and rattlesnakes (J. Mumoz, Lee Lake). This Reach has the following beneficial uses: WARM, WILD, REC-1, REC-2. Groundwater recharge to the Lee Lake groundwater basin supports the GWR beneficial use. AGR is also a use of Temescal Creek in this Reach.

Reach 4 extends from the Freeway cut to Lake Elsinore Basin. Elsinore Basin boundary was chosen to correspond with the Elsinore groundwater sub-basin boundary.

Water in Temescal Creek is backed up behind the freeway cut. As a result there are several areas where the water ponds in algae covered pools. Very large fish (carp) and tadpoles were observed at the Collier St. crossing. This entire Reach has thick, marshy riparian vegetation which would support the WARM and WILD beneficial uses.

The creek in this Reach is accessible to provide both REC-1 and REC-2 uses. According to J. Mumoz of Lee Lake, people camp out in the areas near and upstream of the freeway cut. Other uses noted in this Reach are AGR and GWR. Elsinore MWD diverts water from the creek and transports this water in a separate channel, parallel the Creek, for the GWR and AGR use.

Reach 5 extends from Lake Elsinore Basin to Lake Elsinore outlet. The creek in this Reach is open, accessible and heavily vegetated. Beneficial uses include WARM, WILD, REC-1, REC-2 and GWR (to the Elsinore groundwater sub-basin).

Temescal Creek

Reach 1 - Santa Ana River
to Riverside
Canal

MUN
AGR
INT
PROD
GOLF
HAW
POW
REL-
REL-1
COMM
WARM
COLD
BIOL
WILL
RARE
SPID
MAR
SHEL

X X X X X X X

Reach 2. Riverside
Canal to Lee
Lake

X X X X X X X

Reach 3. Lee Lake to
Freeway Cut

X X X X X X

Reach 4. Freeway Cut to
Elsinore Basin

X X X X X X

Reach 5. Elsinore Basin
to Lake Elsinore
outlet

X X X X X

..

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No.. . . .

Comp. by.

WATER RESOURCES DIVISION

Flood Control at Minnesota St.

Sta. No. **DISCHARGE MEASUREMENT NOTES** Checked by

~~Terminated in Emergency Gate~~

Date 8/15/88, 19 1145. Party

Width Area Vel. G. H. Disch.

Method No. secs. G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. plots. . . . % diff. from. . . . rating. Levels obtained.

GAGE READINGS						WATER QUALITY MEASUREMENTS		
Time		Inside	ADR	Graphic	Outside	No	Yes	Time
						<u>Samples Collected</u>		
						No	Yes	Time
						<u>Method Used</u>		
						EDI	EWI	Other.
						<u>SEDIMENT SAMPLES</u>		
						No	Yes	Time
						<u>Method Used</u>		
						EDI	EWI	Other.
Weighted M.G.H.						<u>BIOLOGICAL SAMPLES</u>		
G. H. correction						Yes	Time	
Correct M.G.H.						No	Type	

Check bar, chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . feet, mile, above, below gage

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond

Flow.....

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max: Min:

Manometer No. _____ Pressure Tank _____ Feed _____ Bbl rate _____ per min _____

CSG checked _____ Stick reading _____

Observer:

Observer
HWM outside in wet

Remarks

Remarks

.....

.....

C.H. of gas flow	ft	Sheet No	of	sheets
------------------	----	----------	----	--------

G.R. of zero flow SHEET NO. OF SHEETS

Right and Left Bank	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in sec-onds	VELOCITY		Adjusted for hor. angle or	Area	Discharge
							At point	Mean in vertical			
20	0										
	18	2	.3		0		0			.6	0
	16	2	.2		5	70	.176			.4	.07
	15	1	.5		10	41	.552			.5	.28
	14	1	.5		10	41	.552			.5	.28
	13	1	.5		15	47	.716			.5	.36
	12	1	.6		10	46	.494			.6	.30
	11	1	.6		20	48	.928			.6	.56
	10	1	.5		20	46	.968			.5	.48
	9	1	.5		20	42	1.06			.5	.52
	8	1	.6		20	40	1.11			.6	.67
	7	1	.6		20	47	.948			.6	.57
	6	1	.6		15	48	.701			.6	.47
	5	1	.5		7	43	.375			.5	.19
0	4	1	.5		0		0			.5	0
	1 left Bank										
										EQ	4.71 cfs

9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No.

Comp. by.

WATER RESOURCES DIVISION

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Temescal Ck at Auburndale St.

Date 8/11/88, 19. Party KLS / HS

Width Area Vel. G. H. Disch.

Method No. secs. G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS		
Time	Inside	ADR	Graphic	Outside	No	Yes	Time
					Samples Collected		
					No	Yes	Time
					Method Used		
					EDI	EWI	Other
					SEDIMENT SAMPLES		
					No	Yes	Time
					Method Used		
					EDI	EWI	Other
					BIOLOGICAL SAMPLES		
					Yes	Time	
					No	Type	

Weighted M.G.H.

G. H. correction

Correct M.G.H.

Check bar, chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

NWM outside, in well

Remarks

G.H. of zero flow ft. Sheet No. of sheets

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Comp. by

WATER RESOURCES DIVISION

Harrison St. (Temescal)

Date 8/11/88 19 88 Party KLS/HIS

Width Area Vel. G. H. Disch.

Method No. secs. G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

... plots. . . . % diff. from. . . . rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	ADR	Graphic	Outside	No Yes. Time
						<u>Samples Collected</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EDI Other.
						<u>SEDIMENT SAMPLES</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EDI Other.
Weighted M.G.H.						<u>BIOLOGICAL SAMPLES</u>
G. H. correction						Yes. Time
Correct M.G.H.						No Type

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

• • • • •

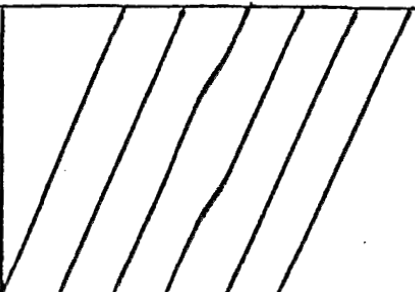
.....

G.H. of zero flow _____ ft. Sheet No. _____ of _____ sheets

Date Aug 19 Page 1 of 1

LABORATORY				PROJECT MANAGER					
SECTION				PHONE NUMBER					
PROJECT NAME				SAMPLERS: (Signature)					
Babcock				Ray Stutzke / Hope Smythe					
Temescal Creek				782-4130					
Temescal Creek				Hope Smythe					
SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			SOLID	NO. OF CNTNRS	TESTS REQUIRED
				WATER		AIR			
				Comp.	Grab.				
1	Temescal @ STP	8/19/88	1:00		X			2	General Minerals, 105 16 7.50 43
2	Temescal @ Bernards	8/19/88	1:40		X			2	" " " "
Relinquished by: (Signature)				Received by: (Signature)				Date/Time	
Ray Stutzke				Ken Stutzke				8/19 1530	
Relinquished by: (Signature)				Received by: (Signature)				Date/Time	
Relinquished by: (Signature)				Received by Mobile Laboratory for field analysis: (Signature)				Date/Time	
Dispatched by: (Signature)		Date/Time		Received for Laboratory by:				Date/Time	
Method of Shipment:									
Special Instructions:									
TASK CODE 13101									
ESTIMATED COST \$212.00									

EDWARD S. BABCOCK & SONS, INC.

Proj. No.		Project Name <i>Temescal Creek</i>				No. of con- tainers	 Remarks					
Samplers: (Signature) <i>Kay Stritzke</i>												
Sta. No.	Date	Time	Comp.	Grab	Station Location							
<i>1</i>	<i>8/15</i>	<i>11:45</i>		<i>✓</i>	<i>Flood Control at Minnesota St.</i>	<i>1</i>					<i>Nutrients, COD (preserved)</i>	
<i>1</i>	<i>8/15</i>	<i>11:45</i>		<i>✓</i>	<i>Flood Control at Minnesota St.</i>	<i>1</i>					<i>General Minerals, BOD</i>	
Relinquished by: (Signature) <i>Kay Stritzke</i>			Date/Time <i>8/16 8:45am</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks		

Chain of Custody Record

est. cost. \$171.50

13101



LABORATORY <u>Babecock</u>	PROJECT MANAGER <u>Kathy Shutzke</u>
SECTION <u>Planning</u>	PHONE NUMBER <u>782-4130</u>
PROJECT NAME <u>Temescal Creek</u>	SAMPLERS: (Signature) <u>Kathy Shutzke</u>

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			SOLID	NO. OF CNTNRS	TESTS REQUIRED
				WATER		AIR			
				Comp.	Grab.				
1	Temescal @ Aubundale	8/11/88	9:40		X			2	BOD, COD, NUTRIENTS Gen. MINERALS
2	Side Channel @ "	"	10:40		X			2	"
3	Temescal @ Harrison	"	11:40		X			2	"
4	"True" Temescal @ Harrison	"	2:00		X			2	"
									#16 + \$17.50 + \$43 + 105

Relinquished by: (Signature) <u>Kathleen Shutzke</u>		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>Cathy S. Shutzke</u>		Date/Time <u>8/11/88 1635</u>
Method of Shipment:				
Special Instructions:				TASK CODE <u>13101</u>
				ESTIMATED COST <u>\$177.50</u>

Temescal Ck
at Main St.

from Marline

19/7/88

USGS

8/3 1300 6.5 cfs

8/19 12:30 5.72 cfs

available

7/30 exact values in Sept

UCR

7/26 1600 4.6 cfs

7/26 15:30 6.5 cfs

7/27 8:30 6.0 cfs

8/31 14:00 7.8 cfs

Discrepancy w/UCR & Baber
example: Cl^- 166 $\downarrow$ 66 mg/L

Sept 1988

100'

100'

State

1012

here - November

Marline

Provisional Data - Not good for Main St. Temescal

5-7 cfs Jan-July, August

USGS streamgaging

100' ^{USGS} gage 100'

cfs

Tentative

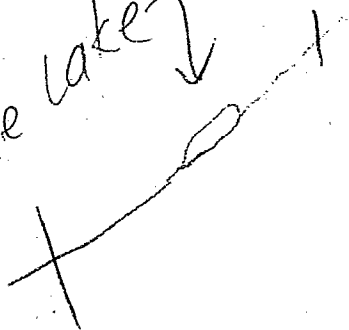
Temescal Creek

Reach	Stream Length (miles)	Description	Cota
1 - ✓	2.7, 0-2.7	Santa Ana Confluence to Goodwin St	Lincoln
2 - ✓	1.8, 2.7-4.5	Goodwin St to Fwy Xing	Cota
3 - ✓	2.1, 4.5-6.6	Fwy Xing to Riverside Canal	
4 - ✓	2.5, 6.6-9.1	Riverside Canal to Gage near El Cerrito	
5 - ✓	1.6, 9.1-10.7	Gage near El Cerrito to Cajalco Creek	
6 - ✓	2.3, 10.7-13.0	Cajalco Cr. to Olsen Canyon	
7 - ✓	1.3, 13.0-14.3	Olsen Canyon to Cold Water Canyon	
8 - ✓	2.6, 14.3-16.9	Cold Water Canyon to Lee Lake Basin	
9 - ✓	2.6, 16.9-19.5	Lee Lake Basin to Lee Lake	
10 - ✓	2.5, 19.5-22.0	South Line Sec. 8 to Fwy cut	
11 - ✓	2.7, 22.0-24.7	Fwy cut to Nichols Rd (Alberhill Cr.)	
12 - ✓	2.9, 24.7-27.6	Nichols Rd to Elsinore Basin (Alberhill Cr.)	
13 - ✓	1.3, 27.6-28.9	Elsinore Basin to Elsinore Lake	
28.8 miles			

Roman Num. for Beneficial Uses & Water Quality Obj.

Boundaries around

Lee Lake



Journal

Each

1 Confluence to Cota

2 Cota to Fuy Xing

- Flows into Elmore West of Spring St. ("Temescal Wash")
- At Limited St. Crossing - cattails
- Flow starts between Heald St and Graham St near pump
- Chaney St. Crossing - West side water
↓
East side dry
Near STP

$\frac{1}{2}$ block West of Chaney on dirt road STP discharge pipe (probably) -- near big pipes and dirt mound.
Water is entering through pipes.

- 74. crossing West side overgrown pool
East side clear pool with huge
hollyhogs, carp and mosquito fish
- On Collier dirt road before begin of pavement
Completely dry
- Nichols Rd crossing dry
- Lake St. Crossing - Mineral Deposits Gate Closed
- On Temescal Canyon Rd - crossing there is water
- Huntington Pacific ^{Bridges} Ceramics - Bridge
Small flow Westward
- Hostetler Rd crossing - some standing water
(outlaw leather sign; before fwy underpass)

- After Jeneral Canyon Rd underpass.
Jemesal Ck goes under road in 3 pipes - dry
Much less vegetation around creekbed.
- Corona Lake - almost dry lake was dammed
- 08 mi Past Indian. Truck Trail - dirt road - dry
- pavement rd (^{may new} rd) before freeway underpass,
adjacent to railroad bridge - dry
- Mason Canyon Rd - Jemesal Ck crosses directly
after leaving Jemesal Canyon Rd. Ck is dry
- Cajaco Rd crossing - dry

Temescal CK

H/S/KLS

8/11/88

Actual
Slide #

Star Slides

- | | |
|---|-----|
| 1-3 Auburn dale | 3-5 |
| 4-5 Auburn dale Side channel from Housing Area | 6-7 |
| 6 Upstream from Auburn dale | 8 |
| 7 Upstream from Lincoln - Channelized | 9 |
| 8 Down st. from Lincoln - Marshy | |
| 9 u/s from Cota St - concrete | 11 |
| 10 p/s from Cota St - channelized; not concrete | 12 |
| 11 u/s from Main St - concrete | 13 |
| 2 u/s from Harrison - S.T.P. | 14 |
| 3 up from Harrison - channel forks under fly | 15 |
| 4 d/s from 6th St. < 2ft wide; channel | 17 |
| 15 u/s from Harrington ch. fork | 18 |
| 16 in Magnolia - dry | 19 |
-
- 8/15/88
17. u/s from bridge "detour to 15" (Corona) - Ed's Junkyard
- 18-19 d/s from bridge of gravel pits - pond, end of concrete channel
- 20 pond
- 21 pond
- 22-23 Cajalco ^{Street} above pond by Fontana facing INC
- Standing water under bridge / RR bridge
- 24-25 gaging Station - Minnesota St.
-
- 3 Minnesota St. Flood Control Channel
- 4 Calajco - dry
- 5 Flood plain near gage / Minnesota
- 6-12 Lee Lake
- ~~13-14 Lee Lake~~
- ~~15-16 Lee Lake~~
- ~~17-18 Lee Lake~~
- ~~19-20 Lee Lake~~
- ~~21-22 Lee Lake~~
- ~~23-24 Lee Lake~~
- ~~25-26 Lee Lake~~
- ~~27-28 Lee Lake~~
- ~~29-30 Lee Lake~~
- ~~31-32 Lee Lake~~
- ~~33-34 Lee Lake~~
- ~~35-36 Lee Lake~~
- ~~37-38 Lee Lake~~
- ~~39-40 Lee Lake~~
- ~~41-42 Lee Lake~~
- ~~43-44 Lee Lake~~
- ~~45-46 Lee Lake~~
- ~~47-48 Lee Lake~~
- ~~49-50 Lee Lake~~
- ~~51-52 Lee Lake~~
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- ~~67-68 Lee Lake~~
- ~~69-70 Lee Lake~~
- ~~71-72 Lee Lake~~
- ~~73-74 Lee Lake~~
- ~~75-76 Lee Lake~~
- ~~77-78 Lee Lake~~
- ~~79-80 Lee Lake~~
- ~~81-82 Lee Lake~~
- ~~83-84 Lee Lake~~
- ~~85-86 Lee Lake~~
- ~~87-88 Lee Lake~~
- ~~89-90 Lee Lake~~
- ~~91-92 Lee Lake~~
- ~~93-94 Lee Lake~~
- ~~95-96 Lee Lake~~
- ~~97-98 Lee Lake~~
- ~~99-100 Lee Lake~~

Elsinore Water District Ditch directly adjacent to Ck. 11-12

Between Nichols Rd and Lake Rd 13

14 Standing Water closer to Lake ^(with Elsinore Ditch adjacent) 14

15/16 Near Beehives $3\frac{1}{4}$ mi to Lake St. 15-16

↳ (Beehives is a sampling & gaging station)

P4 - 8.08

T - 12.5



1983

3/10/83

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD VAL NO. 3110660-661

DATE RECEIVED 11-16-83

ATTENTION James W. Anderson

DATE OF REPORT 11-22-83

SAMPLE IDENTIFICATION: Water samples for Fecal & Total Coliform

TANK NO. _____ GALLONS _____ SAMPLED 11-16-83

ANALYSIS		STANDARD		RESULTS	
----------	--	----------	--	---------	--

AL #	LOCATION	DATE	TIME	COLIFORM (MPN/100 ml)	
				Fecal	Total
110660	Temescal Wash at Nichols Road	11-16-83	1030 hrs	>2400	>2400
110661	Temescal Wash at Lake Elsinore	11-16-83	1000 hrs	8	70

SAWPA DES



001006097

RESULTS PHONED

☐ YES

☐ NO

TO WHOM _____

DATE _____

Joseph P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3110662

DATE RECEIVED 11-16-83

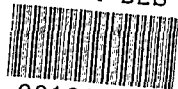
DEC 1 9 1983
DATE OF REPORT 12-9-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave
CONTROL BOARD Santa Ana Regional
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION Surface Water
SAMPLING POINT Temescal Wash at Nichols Rd.
SAMPLED BY J. Schneider
DATES & HOURS SAMPLED 11-16-83 1030 hours

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia..... (N)	0.16	Nitrate..... (N)	0.97
Antimony.....	mg/l	Oil & Grease.....	mg/l
Arsenic.....	mg/l	pH.....	7.98
BOD.....	mg/l	Phenols.....	mg/l
Barium.....	mg/l	Phosphate - Ortho.....	0.44
Beryllium.....	mg/l	Phosphate, Total.....	mg/l
Bismuth.....	mg/l	Potassium.....	14.7
Boron.....	0.32	Selenium.....	mg/l
COD.....	mg/l	Settleable Solids.....	ml/l
Cadmium.....	mg/l	Silver.....	mg/l
Calcium.....	43.4	Sodium.....	145
Chloride.....	131	Specific Conductance.....	1150
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	102
Chromium (Hexavalent).....	mg/l	Sulfide.....	mg/l
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg/l
Cobalt.....	mg/l	Suspended Solids.....	mg/l
Copper.....	mg/l	Temperature.....	°F
Cyanide.....	mg/l	Tin.....	mg/l
Dissolved Oxygen.....	mg/l	Titanium.....	mg/l
Flow (total).....	gals/day	Total Alkalinity.....	196
Flow (peak).....	gals/min	Bicarbonate Alkalinity.....	196
Fluoride.....	mg/l	Carbonate Alkalinity.....	0
Iron.....	1.75	Total Dissolved Solids -	
Lead.....	mg/l	(Filterable Residue).....	758
Magnesium.....	16.1	Total Hardness.....	175
Manganese.....	mg/l	Turbidity.....	Units
Mercury.....	mg/l	Zinc.....	mg/l
Hydroxide Alkalinity.....	0. mg/l	Carbon Dioxide.....	3.9 mg/l
		Silica.....	21 mg/l

SAWPA DES



001006098

Joseph P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORYWAL NO. 3110663DATE RECEIVED 11-16-83DATE OF REPORT 12-9-83CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana AveCONTROL BOARD Santa Ana RegionATTENTION James W. AndersonRiverside, CA 92506SAMPLE IDENTIFICATION Surface WaterAMPLING POINT Temescal Wash at Lake ElsinoreAMPLED BY M. SalterDATES & HOURS SAMPLED 11-16-83 1000 hours

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg/l
Ammonia (N).....	0.10	Nitrate (N).....	0.84
Antimony.....	mg/l	Oil & Grease.....	mg/l
Arsenic.....	mg/l	pH.....	8.20
BOD.....	mg/l	Phenols.....	mg/l
Barium.....	mg/l	Phosphate - Ortho.....	0.31
Beryllium.....	mg/l	Phosphate, Total.....	mg/l
Bismuth.....	mg/l	Potassium.....	16.8
Boron.....	0.30	Selenium.....	mg/l
COD.....	mg/l	Settleable Solids.....	ml/l
Cadmium.....	mg/l	Silver.....	mg/l
Calcium.....	30.4	Sodium.....	178
Chloride.....	148	Specific Conductance.....	1100
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	micromhos/cm
Chromium (Hexavalent).....	mg/l	Sulfide.....	88.9
Chromium (Total).....	mg/l	Sulfide.....	mg/l
Cobalt.....	mg/l	Surfactants (MBAS).....	mg/l
Copper.....	mg/l	Suspended Solids.....	mg/l
Cyanide.....	mg/l	Temperature.....	°F
Dissolved Oxygen.....	mg/l	Tin.....	mg/l
Flow (total).....	gals/day	Titanium.....	mg/l
Flow (peak).....	gals/min	Total Alkalinity.....	188
Fluoride.....	mg/l	Bicarbonate Alkalinity.....	188
Iron.....	0.19	Carbonate Alkalinity.....	0
Lead.....	mg/l	Total Dissolved Solids -	
Magnesium.....	14.8	(Filterable Residue).....	652
Manganese.....	mg/l	Total Hardness.....	137
Mercury.....	mg/l	Turbidity.....	Units
		Zinc.....	mg/l
Hydroxide alkalinity	0 mg/l	Carbon Dioxide	1.1 mg/l
		Silica	6.4 mg/l

SAWPA DES



001006099

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD SANTA ANA REGION

WAL NO. 3070935-41

DATE RECEIVED 7-26-83

ATTENTION James W. Anderson

DATE OF REPORT 8-5-83

SAMPLE IDENTIFICATION: Water samples for Fecal & Total Coliform from Temescal Wash
Collected by J. Sneider & J. Earls

TANK NO. _____ GALLONS _____ SAMPLED 7-26

ANALYSIS		STANDARD	RESULTS	
WAL #	SAMPLE LOCATION	TIME	COLIFORM Fecal	(MPN/100) Total
3070935	1 Upstream of lake Elsinore pumps	09:20	11	540
3070936	2 at Nichols Rd	09:50	>2400	>2400
3070937	3 at Dawson Cyn dirt road	11:00	140	1600
3070938	4 at Cajalco Rd	11:20	920	>2400
3070939	5 at Magnolia	11:50	33	70
3070940	6 at 3rd St. Corone (under 91 Fwy)	12:10	170	350
3070941	7 Downstream of Rincon Road	13:15	350	350

SAWPA DES



001006100

RESULTS PHONED

☐ YES ☐ NO

TO WHOM _____

DATE _____

Joseph P. Zimmer
Laboratory Director

Location: Temescal Wash, ~ 150 yds. downstream of Elsinore pumps

Date: 11-16-83 Time: 1000 hrs.

Sample #: 1

Sampled by: M. Salter / J. Schneider

Weather: scattered clouds

Water Temp: 20°C

Air Temp: $\sim 74^{\circ}\text{F}$

Water Appearance: brown-green, turbid

Flow: $30' / 23 \text{ sec}$ $D = 5'$ $W = 26'$ $\approx 169 \text{ ft}^3/\text{sec}$

Location: Temescal Wash at Nichols Rd.

Date: 11-16-83 Time: 1030 hrs.

Sample #: 2

Sampled by: J. Schneider

Weather: scattered clouds

Water Temp: 18°C

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

Water Appearance: green-brown; turbid

Flow: $D = \sim 2'$; $W = 30'$; $60' / 36 \text{ sec.} \approx 100 \text{ ft}^3/\text{sec.}$

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

WAL NO. 3070935-941

DATE RECEIVED 7-26-83

ATTENTION James Anderson

DATE OF REPORT 8-5-83

SAMPLE IDENTIFICATION: Temescal Wash (see Coliform sheet for location and time)

TANK NO. _____ GALLONS _____ SAMPLED 7-26

ANALYSIS	STANDARD	RESULTS
----------	----------	---------

L #	SAMPLE	AMMONIA NITROGEN (mg/l)	NITRATE NITROGEN (mg/l)	NITRITE NITROGEN (mg/l)	TOTAL ORGANIC Nitrogen (mg/l)	FILTERABLE RESIDUE (mg/l)
070935	1	0.05	0.62	0.01	0.14	587
0936	2	0.04	0.44	0.01	0.76	636
070937	3	0.12	0.55	0.01	0.66	674
070938	4	0.12	0.86	0.02	0.16	686
70939	5	0.13	0.70	0.03	0.03	698
070940	6	0.15	0.68	0.03	0.04	686
070941	7	0.12	3.84	0.05	0.07	795

960900100



SAMPA DES

RESULTS PHONED

☐ YES ☐ NO

TO WHOM _____

DATE _____

Joseph P. Zimmer

Laboratory Director

Sample #: 1

Location: Lake Elsinore - Temescal

Sampled by: J. Earls, J. Schneider

Wash

Time: 9:20

~30yds upstream of

Date: 7-26-83

pumps

Weather: 75°F; clear

Water Temp: 26°C

rapid flow - 7 out of 10 pipes

Air Temp: ~75°F

Water Appearance: greenish - slightly turbid

Flow: $26' \times 5' \times \left(\frac{30'}{24 \text{ sec}} \right) \approx 162.5 \text{ cfs}$

Sample #: 2

Location: Temescal Wash at

Sampled by: JES, J Earls

Nichols Rd.

Time: 0950

Date: 7-26-83

Weather: clear

Water Temp: 24°C

Air Temp: 75-80°F

Water Appearance: green, turbid

Flow: $30' \times 3' \times (78' / 40 \text{ sec}) = 175.5 \text{ cfs}$

Sample #: 3

Location: Temescal Wash at

Sampled by: Jeff Fink, JES

Dawson Canyon drive
road

Time: 1100

Date: 7-26-83

Weather: clear, calm

Water Temp: 26°C

Air Temp: $80-85^{\circ}\text{F}$

Water Appearance: green, slightly turbid

Flow: 5 culverts @ $15' \times 3' \times \frac{20'}{5\text{ sec}} = 90 \text{ cfs}$

Sample #: 4

Location: Temescal Wash at
Cajalco Rd.

Sampled by: JES, J. Earls

Time: 1120 hrs

Date: 7-26-83

Weather: clear, occasional light wind

Water Temp: 25°C

Air Temp: 80-85°F

Water Appearance: green, slightly turbid

Flow: $(45' \times 11 \text{ sec}) \times 1\frac{1}{2}' \times 33' = 198 \text{ cfs}$

Sample #: 5

Location: Temescal Wash at Magnolia

Sampled by: JES, Jeff Earls

Time: 1150

Date: 7-26-83

Weather: clear; occasional light wind

Water Temp: 25° C

Air Temp: 85° F

Water Appearance: brown green; slightly turbid

Flow: 4 culverts @ $4\frac{1}{2}' \times 1.3' \times (60' / 10 \text{ sec}) = 140.4 \text{ cfs}$

Sample #: 6

Location: Temescal Wash at

Sampled by: Jeff E. Wils. JES

3rd St. Corona (Under

Time: 12:10 hrs.

91 Hwy)

Date: 7-26-83

Weather: clear

Water Temp: 27°C

Air Temp: 85°F

Water Appearance: turbid; brown-green

Flow: ponded

Sample #: 7

Location: Temescal Wash downstream
of Rincon Rd.

Sampled by: JES, Jeff Everts

Time: 1315 hrs

Date: 7-26-83

Weather: clear

Water Temp: 27°C

Air Temp: 85°F

Water Appearance: muddy brown (downstream of construction -

Flow 1' x 57' x (45'/19sec) Temescal Flood Control Project
" 136.8 cfs

