

8-160

1983

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040613

DATE RECEIVED 4-14-83

DATE OF REPORT 4-18-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave., Suite 200
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION

SAMPLING POINT Warm Creek #1

SAMPLED BY K. Saremi; CRWQCB - SAR

DATES & HOURS SAMPLED 4-14-83; 1400 hours

APR 20 1983

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	_____ mg/l	Nickel.....	_____ mg/l
Ammonia.....	_____ mg/l	Nitrate..... (nitrogen).....	2.41 mg/l
Antimony.....	_____ mg/l	Oil & Grease.....	_____ mg/l
Arsenic.....	_____ mg/l	pH.....	_____
BOD.....	_____ mg/l	Phenols.....	_____ mg/l
Barium.....	_____ mg/l	Phosphate - Ortho.....	_____ mg/l
Beryllium.....	_____ mg/l	Phosphate, Total.....	_____ mg/l
Bismuth.....	_____ mg/l	Potassium.....	_____ mg/l
Boron.....	0.19 mg/l	Selenium.....	_____ mg/l
COD.....	_____ mg/l	Settleable Solids.....	_____ mg/l
Cadmium.....	_____ mg/l	Silver.....	_____ mg/l
Calcium.....	_____ mg/l	Sodium.....	_____ mg/l
Chloride.....	33.5 mg/l	Specific Conductance.....	micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	_____ mg/l	Sulfate.....	589 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.....	_____ mg/l
Flow (peak).....	_____ gals/min	Bicarbonate Alkalinity.....	_____ mg/l
Fluoride.....	_____ mg/l	Carbonate Alkalinity.....	_____ mg/l
Iron.....	_____ mg/l	Total Dissolved Solids -	_____ mg/l
Lead.....	_____ mg/l	(Filterable Residue).....	1210 mg/l
Magnesium.....	_____ mg/l	Total Hardness.....	_____ mg/l
Manganese.....	_____ mg/l	Turbidity.....	_____ Units
Mercury.....	_____ mg/l	Zinc.....	_____ mg/l

Joseph P. Zimmer

Laboratory Director

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STATE APPROVED WATER LABORATORY

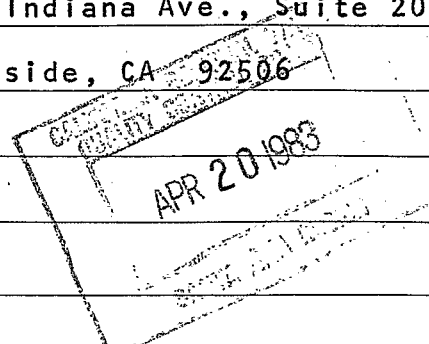
WAL NO. 3040614

DATE RECEIVED 4-14-83

DATE OF REPORT 4-18-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave., Suite 200
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION

SAMPLING POINT Warm Creek #2SAMPLED BY K. Saremi; CRWQCB - SARDATES & HOURS SAMPLED 4-14-83; 1445 hours

PARAMETER

VALUE

Aluminum	_____ mg/l
Ammonia	_____ mg/l
Antimony	_____ mg/l
Arsenic	_____ mg/l
BOD	_____ mg/l
Barium	_____ mg/l
Beryllium	_____ mg/l
Bismuth	_____ mg/l
Boron	<u>0.15</u> mg/l
COD	_____ mg/l
Cadmium	_____ mg/l
Calcium	<u>29.7</u> mg/l
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	_____ mg/l
Lead	_____ mg/l
Magnesium	_____ mg/l
Manganese	_____ mg/l
Mercury	_____ mg/l

PARAMETER

VALUE

Nickel	_____ mg/l
Nitrate (nitrogen)	<u>2.47</u> mg/l
Oil & Grease	_____ mg/l
pH	_____
Phenols	_____ mg/l
Phosphate - Ortho	_____ mg/l
Phosphate, Total	_____ mg/l
Potassium	_____ mg/l
Selenium	_____ mg/l
Settleable Solids	_____ mg/l
Silver	_____ mg/l
Sodium	_____ mg/l
Specific Conductance	<u>471</u> micromhos/cm
Sulfate	_____ mg/l
Sulfide	_____ mg/l
Surfactants (MBAS)	_____ mg/l
Suspended Solids	_____ mg/l
Temperature	_____ °F
Tin	_____ mg/l
Titanium	_____ mg/l
Total Alkalinity	_____ mg/l
Bicarbonate Alkalinity	_____ mg/l
Carbonate Alkalinity	_____ mg/l
Total Dissolved Solids - (Filterable Residue)	<u>1010</u> mg/l
Total Hardness	_____ mg/l
Turbidity	_____ Units
Zinc	_____ mg/l

Laboratory Director

Warm Creek.

Warm Creek Sampling starts from inside National Orange Show in San Bernardino City south of Mill St., between E. St. and Arrowhead Ave., and stops south of Central Ave. at the bridge on "E" St.

Sampling points are as follows:

- National Orange Show in front of Gate No. 2

- south of Central Ave. on "E" St.

1 National orange show,

Time: 14:00, Date: 4/14/83, water Temp: 72°F, water app: little
Turbid.

NO_3^- : 2.41 mg/L

TDS : 1210 " "

Flow = 7 ft³/sec.

Cl^- : 33.5 " "

SO_4^{2-} : 589, " "

B : 0.19 " "

2 South of Central Ave. on "E" st.

Time: 14:45, Date: 4/14/83, water Temp: N.D., water app: little
unclear w/ slight odor.

NO_3^- : 2.47 mg/L

TDS : 1010 mg/L

Flow = 13.2 ft³/sec.

Cl^- : 29.7 " "

SO_4^{2-} : 471 " "

B : 0.15 " "



Summary:

on 4/14/83, Thu. 1400-1500 p.m. I sampled warm Creek at two stations

one sample was taken inside National Orange show area. below bridge facing gate 9 go in the parking area, down the side.

second sample was taken under the Bridge on Mill st. on the East side of the bridge facing north

sampled for.

TDS

NO₃

Cl⁻

SO₄⁼

B

Sample no. 1

W. cr. 1

Time: 14:00 P.M.

date: 4/14/83

weather: Sunny

water appearance: little uncles

W/ Trash on the banks

Air Temp: 26°C 78.8°F

water Temp: 22°C 71.6°F

Location

E street

National Orange
Show.

Bridge

N

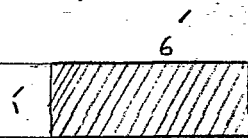
Arrowhead Ave.

Gate 9

Parking
Area

Sampled Area

Flow:



cross sectional area $1 \times 6 = 6 \text{ ft}^2$

velocity: $6/5 \text{ sec} = 1.2$

$Q = VA$

$\approx 7.2 \text{ ft}^3/\text{sec}$

Sample NO. 2

Time: 14:45 P.M.

W. Cr. 2

Date: 4/14/83

weather: sunny

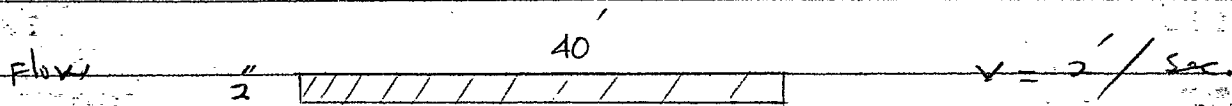
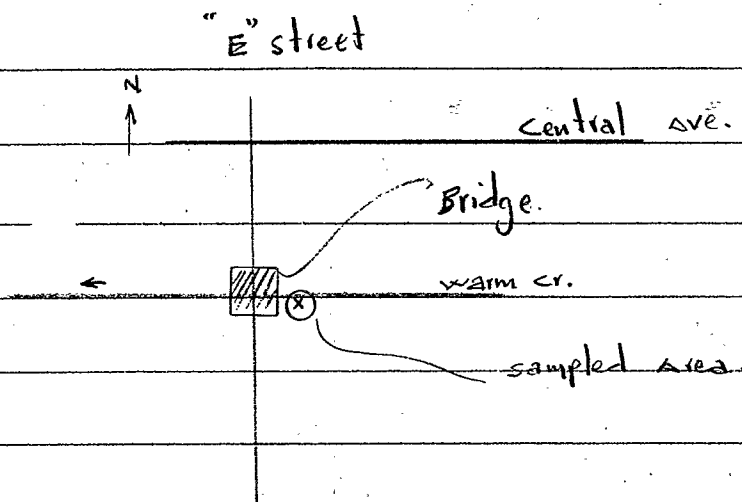
water appearance: little unclear

odor: slightly

Air temp: 79°F

water Temp: N.D.

Location:



$$\text{cross sectional area } (2' / 12) (40) = 6.6 \text{ ft}^2$$

$$\text{velocity: } 2' / \text{sec.}$$

$$\text{flow } Q = VA$$

$$= (2)(6.6)$$

$$= 13.2 \text{ ft}^3 / \text{sec}$$