

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

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040614

DATE RECEIVED 4-14-83

DATE OF REPORT 4-18-83

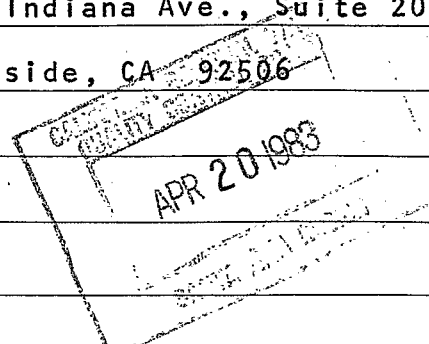
CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana Ave., Suite 200
CONTROL BOARD Santa Ana Region
ATTENTION James W. Anderson Riverside, CA 92506

SAMPLE IDENTIFICATION

SAMPLING POINT Warm Creek #2

SAMPLED BY K. Saremi; CRWQCB - SAR

DATES & 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	0.15 mg/l
COD	mg/l
Cadmium	mg/l
Calcium	29.7 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)	2.47 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	micromhos/cm
Sulfate	471 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)	1010 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

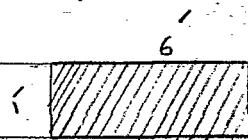
Arrowhead Ave.

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

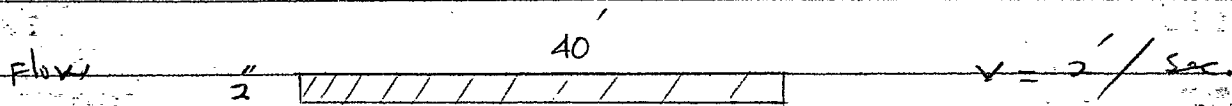
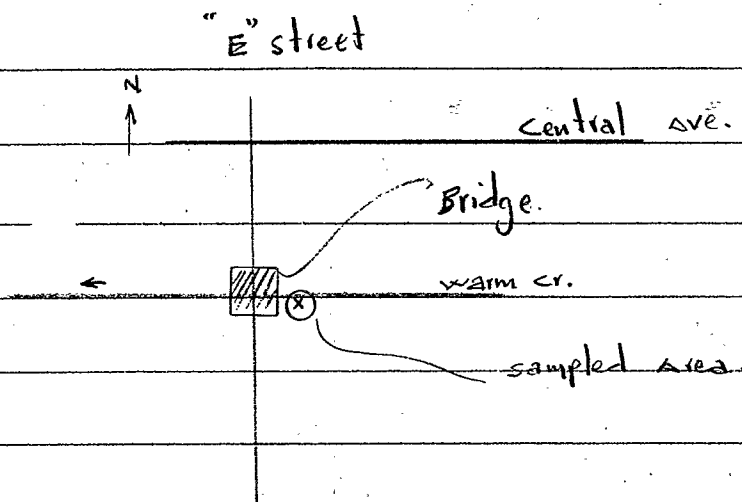
water appearance: little unclear

odor: slightly

Air temp: 79°F

water Temp: N.D.

Location:



cross sectional area $(2 \frac{1}{2})(40) = 6.6 \text{ ft}^2$

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

flow $Q = VA$

$$= (2)(6.6)$$

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