

245

8/23/83Bear Creek

Bear Creek sampling station is at Bear Creek Bridge located at TIN/River/Sec. 19
In addition two other stations on Santa Ana River were sampled one at the confluence point w/ Bear Cr. & another one at Camp Washwager.

Sampling points are as follows.

1. Santa Ana River road crossing below Camp Washwager, east of seven oaks
TIN/RIVER/Sec. 81
2. Bear Cr. Bridge approx. 1/4 mile north of Santa Ana River confluence pt.
TIN/RIVER/Sec. 19 A
3. Santa Ana River gaging station approx. 100 miles N of Bear Cr. confluence pt.
TIN/RIVER/Sec. 19 A

1 - Santa Ana River Road crossing - below Camp Wainwright
east of Seven Oaks.

Date: 8/23/88 Time: 10:30 water Temp: 51.8° F

Air Temp: 75° F weather: clear/sunny, wind: app: clear

Flow: 1.75 ft³/s

F-Coli: 31, T-Coli: 250

Esar Cr. Bridge approx. 1/4 mile north of
Santa Ana River Confluence Pt.

Date: 8/23/85 Time: 13:00 water Temp: 62.6 F

Air Temp: 75 F, weather: clear, water app: clear

Flow: 5.45 ft³/sec.

F-col: 11 T-col: 1-90

3-- Santa Ana River Gauging station

Approx. 100' east of Bear Cr. confluence pt.

Date: 8/22/83, Time: 13:00 water Temp: 53.6 °F

Air Temp: 75 °F weather: clear, water app: clear

Flow: 15 ft³/sec.

F. coli: 33 T. coli: 540

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3080911

SEP 12 1983

DATE RECEIVED 8-23-83

DATE OF REPORT 9-8-83

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 - Sample #1

SAMPLING POINT Santa Ana River Crossing below Camp Wasqagen

SAMPLED BY Jeff Earls

DATES & HOURS SAMPLED 8-23-83; 10:30 am

PARAMETER

VALUE

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia..... (N)	0.03 mg/l
Antimony.....	mg/l
Arsenic.....	mg/l
BOD.....	mg/l
Barium.....	mg/l
Beryllium.....	mg/l
Bismuth.....	mg/l
Boron.....	<0.01 mg/l
BOD.....	mg/l
Calcium.....	19.6 mg/l
Chloride.....	3.9 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.....	4.60 mg/l
Manganese.....	mg/l
Mercury.....	mg/l

Nickel.....	mg
Nitrate..... (N)	0.03 mg
Oil & Grease.....	mg
pH.....	8.20
Phenols.....	mg
Phosphate - Ortho.....	<0.05 mg
Phosphate, Total.....	mg
Potassium.....	1.63 mg
Selenium.....	mg
Settleable Solids.....	mg
Silver.....	mg
Sodium.....	6.40 mg
Specific Conductance.....	156 micromhos/cm
Sulfate.....	10.8 mg
Sulfide.....	mg
Surfactants (MBAS).....	mg
Suspended Solids.....	mg
Temperature.....	
Tin.....	mg
Titanium.....	mg
Total Alkalinity.....	70.0 mg
Bicarbonate Alkalinity.....	70.0 mg
Carbonate Alkalinity.....	0 mg
Total Dissolved Solids -	
(Filterable Residue).....	113 mg
Total Hardness.....	68.0 mg
Turbidity.....	Un
Zinc.....	mg

Hydroxide Alkalinity 0 mg/l

Silica 16. mg/
Carbon Dioxide <0.5 mg/

SAWPA DES



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Paul P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO.

3080912

DATE RECEIVED

SEP 18-23-83

DATE OF REPORT

9-8-83

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 - Sample #2

SAMPLING POINT Bear Creek Bridge above Santa Ana Confluence

SAMPLED BY Jeff Earls

DATES & HOURS SAMPLED 8-23-83; 1:00 pm

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	mg/l	Nickel.....	mg
Ammonia (N).....	0.03 mg/l	Nitrate (N).....	0.14 mg
Antimony.....	mg/l	Oil & Grease.....	mg
Arsenic.....	mg/l	pH.....	7.80
BOD.....	mg/l	Phenols.....	mg
Barium.....	mg/l	Phosphate - Ortho.....	< 0.05 mg
Beryllium.....	mg/l	Phosphate, Total.....	mg
Bismuth.....	mg/l	Potassium.....	1.04 mg
Boron.....	< 0.01 mg/l	Selenium.....	mg
.....	mg/l	Settleable Solids.....	m
Cadmium.....	mg/l	Silver.....	mg
Calcium.....	22.0 mg/l	Sodium.....	9.82 mg
Chloride.....	3.9 mg/l	Specific Conductance.....	182 micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	mg/l	Sulfate.....	8.4 mg
Chromium (Hexavalent).....	mg/l	Sulfide.....	mg
Chromium (Total).....	mg/l	Surfactants (MBAS).....	mg
Cobalt.....	mg/l	Suspended Solids.....	mg
Copper.....	mg/l	Temperature.....	
Cyanide.....	mg/l	Tin.....	mg
Dissolved Oxygen.....	mg/l	Titanium.....	mg
Flow (total).....	gals/day	Total Alkalinity.....	80.0 mg
Flow (peak).....	gals/min	Bicarbonate Alkalinity.....	80.0 mg
Fluoride.....	mg/l	Carbonate Alkalinity.....	0 mg
Iron.....	< 0.02 mg/l	Total Dissolved Solids -	
Lead.....	mg/l	(Filterable Residue).....	127 mg
Magnesium.....	2.66 mg/l	Total Hardness.....	66.0 mg
Manganese.....	mg/l	Turbidity.....	Un
Mercury.....	mg/l	Zinc.....	mg
Hydroxide Alkalinity	0 mg/l	Silica	20 mg/l
		Carbon Dioxide	2.6 mg/l



Repl. P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WA NO. 3080913

DATE RECEIVED SEP 12 8-23-83

DATE OF REPORT 9-8-83

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 - Sample #3

SAMPLING POINT Santa Ana River 100 ft above Bear Creek Confluence

SAMPLED BY Jeff Earls

DATES & HOURS SAMPLED 8-23-83; 1:00 pm

PARAMETER	VALUE	PARAMETER	VALUE
Aluminum.....	_____ mg/l	Nickel.....	_____ mg
Amonia. (N).....	<u>0.03</u> mg/l	Nitrate (N).....	<u>0.02</u> mg
Antimony.....	_____ mg/l	Oil & Grease.....	_____ m
Arsenic.....	_____ mg/l	pH.....	<u>8.26</u>
BOD.....	_____ mg/l	Phenols.....	_____ m
Barium.....	_____ mg/l	Phosphate - Ortho.....	<u>< 0.05</u> m
Beryllium.....	_____ mg/l	Phosphate, Total.....	_____ m
Bismuth.....	_____ mg/l	Potassium.....	<u>1.83</u> m
Boron.....	<u>< 0.01</u> mg/l	Selenium.....	_____ m
.....	_____ mg/l	Settleable Solids.....	_____ m
Cadmium.....	_____ mg/l	Silver.....	_____ m
Calcium.....	<u>20.0</u> mg/l	Sodium.....	<u>8.22</u> m
Chloride.....	<u>4.2</u> mg/l	Specific Conductance.....	<u>185</u> micromhos/cm
Chlorinated Hydrocarbons- C ₁ - C ₆	_____ mg/l	Sulfate.....	<u>10.0</u> m
Chromium (Hexavalent).....	_____ mg/l	Sulfide.....	_____ m
Chromium (Total).....	_____ mg/l	Surfactants (MBAS).....	_____ m
Cobalt.....	_____ mg/l	Suspended Solids.....	_____ m
Copper.....	_____ mg/l	Temperature.....	_____ m
Cyanide.....	_____ mg/l	Tin.....	_____ m
Dissolved Oxygen.....	_____ mg/l	Titanium.....	_____ m
Flow (total).....	_____ gals/day	Total Alkalinity.....	<u>79.0</u> m
Flow (peak).....	_____ gals/min	Bicarbonate Alkalinity.....	<u>79.0</u> m
Fluoride.....	_____ mg/l	Carbonate Alkalinity.....	<u>0</u> m
Iron.....	<u>< 0.02</u> mg/l	Total Dissolved Solids -	_____ m
Lead.....	_____ mg/l	(Filterable Residue).....	<u>128</u> m
Magnesium.....	<u>4.55</u> mg/l	Total Hardness.....	<u>68.8</u> m
Manganese.....	_____ mg/l	Turbidity.....	_____ U
Mercury.....	_____ mg/l	Zinc.....	_____ m
Hydroxide Alkalinity	<u>0</u> mg/l	Silica	<u>18</u> mg/l
		Carbon Dioxide	<u>< 0.5</u> mg/l



Joseph P. Zimmerman

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC. SEP 6 1983

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD Santa Ana Region

WAL NO. 3080908-910

DATE RECEIVED 8-23-83

ATTENTION James W. Anderson

DATE OF REPORT 8-31-83

SAMPLE IDENTIFICATION: Water Samples for Total and Fecal Coliform

Collected by Jeff Earls

TANK NO. _____ GALLONS _____ SAMPLED 8-23-83

ANALYSIS		STANDARD	RESULTS	
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WAL #	SAMPLE	LOCATION	TIME	COLIFORM Fecal	(MPN/100) Total
3080908	1	Santa Ana River crossing below camp Waswagen	10:30	31	350
3080909	2	Bear Creek Bridge above Santa Ana Confluence	1:00	11	240
3080910	3	Santa Ana River 100 ft. above Bear Creek Confluence	1:00	33	540



RESULTS PHONED

☐ YES

☐ NO

TO WHOM _____

DATE _____

Paul J. Zimmer
Laboratory Director

1. SANTA ANA RIVER ROAD CROSSING
 BELOW CAMP WARWAGEN, EAST OF SEVEN OAKS,
 SAMPLED BY: JEFF EARLS, DATE: 8/23/83,
 TIME: 10:30 AM, WEATHER: CLEAR/WARM,
 AIR TEMP: 27.5° , WATER TEMP: 11° ,
 WATER APPEARANCE: CLEAR, APPROX FLOW: $75 \text{ }^3/\text{SEC}$.

2. BEAR CREEK BRIDGE APPROX $1/4$ MI. NORTH
 OF SANTA ANA RIVER CONFLUENCE
 SAMPLED BY: JEFF EARLS, DATE: ~~8/23/83~~ 8/23/83,
 TIME: 1:00 PM, WEATHER: CLEAR, AIR TEMP:
 27.5° , WATER TEMP: 17° , WATER APPEARANCE:
 CLEAR, APPROX FLOW: $45 \text{ }^3/\text{SEC}$

3. SANTA ANA RIVER GAGING STATION,
 APPROX 100' EAST OF BEAR CREEK CONFLUENCE
 SAMPLED BY: JEFF EARLS, DATE: 8/23/83
 TIME: 1:00 PM, WEATHER: CLEAR,
 AIR TEMP: 27.5° , WATER TEMP: 12° ,
 WATER APPEARANCE: CLEAR, APPROX FLOW:
 $45 \text{ }^3/\text{SEC}$

1. SANTA ANA RIVER ROAD CROSSING BELOW
CAMP WASWAGEN, EAST OF SEVEN OAKS,
TIN, R1E, SECT. 8K

2. BEAR CREEK BRIDGE APPROX. $\frac{1}{4}$ MILE NORTH
OF SANTA ANA RIVER CONFLUENCE, TIN, R1W,
SECT. 19A

3. SANTA ANA RIVER GAUGING STATION,
APPROX 100' EAST OF BEAR CREEK CONFLUENCE,
TIN, R1W, SECT. 19H

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13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

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STATE APPROVED WATER LABORATORY

WAL NO. 3080911

SEP 12 1983

DATE RECEIVED 8-23-83

DATE OF REPORT 9-8-83

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 - Sample #1

SAMPLING POINT Santa Ana River Crossing below Camp Wasqagen

SAMPLED BY Jeff Earls

DATES & HOURS SAMPLED 8-23-83; 10:30 am

PARAMETER

VALUE

Aluminum (N)	0.03	mg/l
Ammonia (N)		mg/l
Antimony		mg/l
Arsenic		mg/l
BOD		mg/l
Barium		mg/l
Beryllium		mg/l
Bismuth	<0.01	mg/l
Boron		mg/l
BOD		mg/l
Cadmium		mg/l
Calcium	19.6	mg/l
Chloride	3.9	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	4.60	mg/l
Manganese		mg/l
Mercury		mg/l

Hydroxide Alkalinity 0 mg/l

PARAMETER

VALUE

Nickel		mg/l
Nitrate (N)	0.03	mg/l
Oil & Grease		mg/l
pH	8.20	
Phenols		mg/l
Phosphate - Ortho	<0.05	mg/l
Phosphate, Total		mg/l
Potassium	1.63	mg/l
Selenium		mg/l
Settleable Solids		mg/l
Silver		mg/l
Sodium	156	mg/l
Specific Conductance		micromhos/cm
Sulfate	10.8	mg/l
Sulfide		mg/l
Surfactants (MBAS)		mg/l
Suspended Solids		mg/l
Temperature		°F
Tin		mg/l
Titanium		mg/l
Total Alkalinity	70.0	mg/l
Bicarbonate Alkalinity	70.0	mg/l
Carbonate Alkalinity	0	mg/l
Total Dissolved Solids -		
(Filterable Residue)	113	mg/l
Total Hardness	68.0	mg/l
Turbidity		Units
Zinc		mg/l

Silica 16. mg/l
Carbon Dioxide <0.5 mg/l

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE

CHINO, CALIFORNIA 91710

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO.

3080912

DATE RECEIVED

SEP 8-23-83

DATE OF REPORT

9-8-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY ADDRESS 6809 Indiana AveCONTROL BOARD Santa Ana RegionATTENTION James W. AndersonRiverside, CA 92506SAMPLE IDENTIFICATION Surface Water - Sample #2SAMPLING POINT Bear Creek Bridge above Santa Ana ConfluenceSAMPLED BY Jeff EarlsDATES & HOURS SAMPLED 8-23-83; 1:00 pm

PARAMETER

VALUE

PARAMETER

VALUE

Aluminum.....	mg/l
Ammonia (N).....	0.03 mg/l
Antimony.....	mg/l
Asenic.....	mg/l
COD.....	mg/l
Cadmium.....	mg/l
Cerium.....	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.....	2.66 mg/l
Manganese.....	mg/l
Mercury.....	mg/l

Hydroxide Alkalinity

0 mg/l

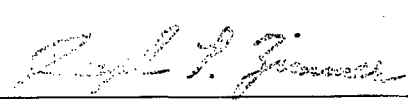
Nickel.....	mg/l
Nitrate (N).....	0.14 mg/l
Oil & Grease.....	mg/l
pH.....	7.80
Phenols.....	mg/l
Phosphate - Ortho.....	<0.05 mg/l
Phosphate, Total.....	mg/l
Potassium.....	1.04 mg/l
Selenium.....	mg/l
Settleable Solids.....	l
Silver.....	mg/l
Sodium.....	9.82 mg/l
Specific Conductance.....	182 micromhos/cm
Sulfate.....	8.4 mg/l
Sulfide.....	mg/l
Surfactants (MBAS).....	mg/l
Suspended Solids.....	mg/l
Temperature.....	°F
Tin.....	mg/l
Titanium.....	mg/l
Total Alkalinity.....	80.0 mg/l
Bicarbonate Alkalinity.....	80.0 mg/l
Carbonate Alkalinity.....	0 mg/l
Total Dissolved Solids - (Filterable Residue).....	127 mg/l
Total Hardness.....	66.0 mg/l
Turbidity.....	Units
Zinc.....	mg/l

Silica

20 mg/l

Carbon Dioxide

2.6 mg/l


Laboratory Director

(714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO

3080913

SFF

8-23-83

DATE RECEIVED

DATE OF REPORT

9-8-83

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 - Sample #3

SAMPLING POINT Santa Ana River 100 ft above Bear Creek Confluence

SAMPLED BY **Jeff Earls**

DATES & HOURS SAMPLED 8-23-83; 1:00 pm

[illegible]

Silica	18	mg/l
Carbon Dioxide	< 0.5	mg/l

Ed. J. Jones

Lab. oratory Director

