

WATER REPORT

Vista Irrigation District Consumer Confidence Report

We test the drinking water quality for many constituents as required by State and Federal Regulations.
This report shows the results of our monitoring for the period of January 1—December 31, 1999.

*Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hablé con
alguién que lo entienda bien.*

WHAT IS THIS REPORT?

This brochure is a snapshot of the quality of the water that comes from what it comes from. 12,000 standards allies

we provided last year. Included are details about where your water meets Federal and State standards. Last year, we conducted more than 1143 samples and did not have any contaminants that exceeded State or Federal standards. You with this information because informed customers are our best allies. Call us at 760-594-1143 and ask for Marty Becker.

10-30095264.02
10-0002893.02
09-0241.02
09-0241.02

The Vista Irrigation District is responsible for acting as a watershed manager, protecting the environment, and providing safe drinking water to the community.

Vista Irrigation District
✓ Adam Langtry

The source of our water comes from wells. A few cases, such as the one above, come from surface sources like rivers and lakes.

- Microbial contaminants, which may have been caused by human activity.

- Inorganic chemicals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

WHERE DOES WATER COME FROM?

Water comes from three main sources: local groundwater, Colorado River, and treated wastewater. Local groundwater is the primary source, accounting for about 43,000 acre-feet per year. The Colorado River is the second largest source, providing about 10,000 acre-feet per year. Treated wastewater is the third largest source, providing about 5,000 acre-feet per year. The treated wastewater is treated at plants in Riverside County and is ready for distribution.

WHAT IS DRINKING WATER?

Drinking water is water that is safe to drink. It includes rivers, lakes, streams, ponds, reservoirs, springs, and groundwater. It is treated to remove naturally occurring minerals and, in some cases, to remove the presence of animals or from human activity.

WHAT IS NOT DRINKING WATER?

Non-drinking water is water that is not safe to drink. It can come from sewage treatment plants, septic systems, agricultural land, or areas where there is a high concentration of people. Non-drinking water can also come from wells, rivers, and lakes that are contaminated with bacteria, viruses, or other harmful substances.

Non-drinking water can also come from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Non-drinking water can also come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Non-drinking water can also come from gas stations, urban storm water runoff, and septic systems.

IS MY WATER SAFE?



In order to ensure that tap water is safe to drink, USEPA and the State Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

DATA TABLES

Tables 1– 7 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year or have not been a problem in the past. Some of the data, though representative of the water quality, are more than one year old. We took 1,300 samples to test for Coliform Bacteria and, specifically, E.coli. We had no positive results. Some of the following tables show water from two sources—local water from Lake Henshaw that is treated at the Escondido/Vista Filtration Plant and imported water which is provided by the Metropolitan Water District (MWD).

Table 1—Sampling Results Showing the Detection of Coliform Bacteria

| Chemical or Constituent | Sample Date | Avg. Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
|--|-------------|---------------------|---------------------|------|------------|--------------------------------------|
| Total Coliform Bacteria for Imported Water | 1999 | 0.2% | 0 - 0.2% | 5.0% | (0) | Naturally present in the environment |

Table 2—TTHM's (Trihalomethane) for Filtration Plant Effluent

| Chemical or Constituent | Sample Date | Avg. Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant (and reporting units) |
|--------------------------------------|-------------|---------------------|---------------------|-----|------------|---|
| Quarterly TTHM's Filtration Plant | 1999 | 51 | 41-73 | | | By-product of drinking water chlorination. |
| Quarterly TTHM's Distribution System | 1999 | 50 | 33-74 | 100 | none | Reported in parts per billion. ($\mu\text{g/L}$) |

Table 3—Detection of Contaminants with a Primary Drinking Water Standard

| Chemical or Constituent | Sample Date | Avg. Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant (and reporting units) |
|-------------------------------|-------------|---------------------|---------------------|-----|------------|--|
| Gross Alpha Activity—Imported | 1999 | 3.99 | ND - 5.53 | | | Erosion of natural deposits (pCi/L) |
| Gross Alpha Activity—Local | 1999 | 3.2 | ND - 5.7 | 15 | (0) | |
| Gross Beta Activity—Imported | 1999 | 5.24 | ND - 7.48 | | | Decay of natural and man-made deposits (pCi/L) |
| Gross Beta Activity—Local | 1999 | 3.3 | ND - 4.3 | 50 | (0) | |
| Fluoride—Imported | 1999 | 0.26 | 0.22 - 0.30 | | | Erosion of natural deposits; water additive believed to promote strong teeth; discharge from fertilizer and aluminum factories (mg/L) |
| Fluoride—Local | 1999 | 0.29 | 0.27 - 0.32 | 2 | 1 | |
| Radium 226—Imported | 1999 | 1.25 | ND - 2.36 | | | Erosion of natural deposits (pCi/L) |
| Radium 226—Local | 1999 | 0.70 | ND - 1.20 | 5 | (0) | |
| Radium 228—Imported | 1999 | 1.25 | ND - 2.36 | | | Erosion of natural deposits (pCi/L) |
| Radium 228—Local | 1999 | 1.35 | 1.35 | 5 | (0) | |
| Uranium—Imported | 1999 | 2.61 | ND - 3.18 | | | Erosion of natural deposits (pCi/L) |
| Uranium—Local | 1999 | 2.1 | ND - 3.5 | 20 | (0) | |

DATA TABLES—continued

Table 4—Detection of Contaminants with a Secondary Drinking Water Standard

| Chemical or Constituent | Sample Date | Avg. Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant (and reporting units) |
|---------------------------------|-------------|---------------------|---------------------|-----|------------|--|
| Color—Imported | 1999 | 1.5 | 1 - 2 | | | Naturally occurring organic materials (Units) |
| Color—Local | 1999 | <1.4 | 1 - 2 | | | |
| Chloride—Imported | 1999 | 72 | 67 - 76 | | | Runoff/leaching from natural deposits; seawater influence (mg/L) |
| Chloride—Local | 1999 | 69 | 64 - 75 | | | |
| Sulfate—Imported | 1999 | 197 | 163 - 230 | | | Runoff/leaching from natural deposits; industrial wastes (mg/L) |
| Sulfate—Local | 1999 | 152 | 130 - 170 | | | |
| Zinc—Imported | 1999 | ND | ND | | | Runoff/leaching from natural deposits; industrial wastes (mg/L) |
| Zinc—Local | 1999 | 0.44 | ND - 0.45 | | | |
| Total Dissolved Solids—Imported | 1999 | 509 | 445 - 574 | | | Runoff/leaching from natural deposits; seawater influence (mg/L) |
| TDS—Local | 1999 | 415 | 380 - 440 | | | |

*Any violation of an MCL is asterisked.

Table 5—Clarity of the Water (Turbidity)

| Parameter | Sample Date | Avg. Level Detected at Treatment Plant | Range of Detections | MCL | PHG (MCLG) | Typical Source / Comments |
|------------------------------------|-------------|--|---------------------|-----|------------|------------------------------------|
| Combined Filter Effluent Turbidity | 1999 | 0.14 | 0.07-0.26 | 0.5 | None | By-product of soil run-off. (NTU*) |

*Turbidity (measured in Nephelometric Turbidity Units or NTU) is a measurement of the clarity of water and is a good indicator of water quality and filtration performance. Turbidity results, which meet performance standards, are considered to be in compliance with filtration requirements.



The table below shows the levels of copper and lead found in the homes of selected customers. The copper/lead rule requires VID to collect special samples every three years. The last sample we completed was in 1997.

Table 6—Levels of Copper and Lead

| Parameter | Units | 90th Percentile of 52 Samples | AL | MCLG | Sites AL | DLR | Typical Source of Contaminant (and reporting unit) |
|-------------|-------|-------------------------------|-----|------|----------|------|---|
| Copper (Cu) | mg/L | 0.3 | 1.3 | 1.3 | 0 | 0.05 | Internal corrosion of household pipes; erosion of natural deposits (mg/L) |
| Lead (Pb) | ug/L | 6 | 15 | 0 | 0 | 5 | Internal corrosion of household pipes; erosion of natural deposits (ug/L) |

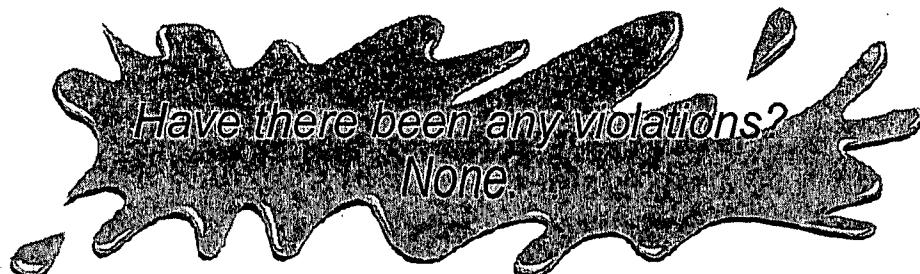


Table 7—Sampling Results for Contaminants Detected

| Chemical or Constituent | Sample Date | Avg. Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant (and reporting units) |
|---------------------------|-------------|---------------------|---------------------|------|------------|---|
| Sodium—Imported | 1999 | 74 | 66-82 | none | none | Generally found in ground and surface water (mg/L) |
| Sodium—Local | 1999 | 62 | 56-66 | none | none | Generally found in ground and surface water. Also called CaCO ₃ . (mg/L) |
| Hardness—Imported | 1999 | 245 | 214-287 | none | none | Generally found in ground and surface water. Also called CaCO ₃ . (mg/L) |
| Hardness—Local | 1999 | 214 | 206-221 | none | none | Generally found in ground and surface water. Also called CaCO ₃ . (mg/L) |
| Total Alkalinity—Imported | 1999 | 113 | 104-126 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Total Alkalinity—Local | 1999 | 104 | 97-111 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Carbonate—Local | 1999 | 0.2 | 0.16-0.31 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Bicarbonate—Local | 1999 | 127 | 118-135 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Calcium—Imported | 1999 | 61 | 52-72 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Calcium—Local | 1999 | 53 | 52-56 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Magnesium—Imported | 1999 | 22.5 | 20.5-26 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Magnesium—Local | 1999 | 20 | 18-22 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Potassium—Imported | 1999 | 3.7 | 3.5-4.1 | none | none | Erosion of natural deposits; Leaching (mg/L) |
| Potassium—Local | 1999 | 3.7 | 3.5-3.9 | none | none | Erosion of natural deposits; Leaching (mg/L) |

*Any violation of an MCL is asterisked.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium parvum* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Primary Drinking Water Standards (PDWS): MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

ND: not detectable at testing limit

DLR: Detection Limit for Reporting, a detected contaminant is any contaminant detected at or above its detection level for purposes of reporting.

pCi/L: picocuries per liter (a measure of radiation)

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. The California Environmental Protection Agency sets PHGs.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. The U.S. Environmental Protection Agency (USEPA) sets MCLGs.

Regulatory Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppm: parts per million or milligrams per liter (mg/L)

Vista Irrigation District
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San Luis Rey River 903.11 at Old Highway 395

It is recommended that the Lower San Luis Rey River be listed as threatened for nutrients and total dissolved solids but not added to 303(d) listing for 2002.

Watershed Characteristics

The San Luis Rey River is located in the San Luis Rey Watershed in north end of San Diego County, California. The San Luis Rey River originates from Lake Henshaw and runs parallel to Highway 76 in the lower segment all the way to the pacific coastline.

The San Luis Rey River is designated an Inland Surface Water. It is used for municipal and domestic, agricultural, and industrial water supply, contact and non-contact recreation, freshwater replenishment, warm freshwater habitat, wildlife habitat, and rare, threatened and endangered species.

Water Quality Objectives not Obtained

On June 11, 1998, the San Luis Rey River at Old Highway 395 was not in compliance for the following water quality parameters: Total Phosphorus and Total Dissolved Solids (TDS) (Pardy Table 1).

Evidence of Impairment

The allowed upper limit for these constituents along with the day, site and exceeded value for each constituent are given in the attached tables.

Extent of Impairment

The data available for San Luis Rey River at Old Highway 395 shows only one sampling date, June 11, 1998. Other sampling that occurred in the same program was on May 20, 1998 downstream at the Old Highway 395 crossing of the San Luis Rey River (Pardy Table 1). The river is also sampled by the City of Oceanside quarterly at Bonsall Bridge, Douglas Bridge, and Benet Road. All these sites are located in Oceanside except at Old Highway 395, which is in Bonsall. Benet Road is located roughly 6 miles south of the Douglas Bridge and directly south of the Oceanside Municipal Airport, about 5 miles east of the ocean (Gonzales 1997-2000).

Potential Sources

The San Luis Rey Watershed Guidelines 2000 indicates that land use of the watershed is 50% undeveloped, 37% agriculture, 5% Residential, 5% Parks and Recreation, Water 2% and Industrial, Transportation, Commercial and Military comprising the remaining 1%.

TDS consists of manganese, iron, bicarbonate, chloride, sulfate, and other substances. All of these listed components were found to be in violation of the water quality standards at Old Highway 395 and at other stations along the San Luis Rey River. Several sand mining operations do conduct business in and around the San Luis Rey River and could be a possible source for the TDS exceedence. Other potential sources

are the run-off from agricultural activities, recreation associated with the adjacent parks and golf courses, urban runoff, and light industry.

Total phosphate was another exceedence noted at Old Highway 395. Although the exceedence was over the Basin Plan concentration of 0.05 mg/l, it was below the Nitrogen:Phosphate ratio of 10:1 (Basin Plan).

Phosphate is often associated with fertilizer used in agriculture. Since agriculture is the predominant use in the San Luis Rey watershed, it is the most likely source in the river. Other sources include urban runoff, recreation associated with the adjacent golf courses and parks, and light industry.

TMDL Priority

Although TDS and Total Phosphate exceeded Basin Plan water quality parameters at the time of sampling and a similar trend was observed at other locations along the river, it is not a high priority at this time. Supporting information comes from a preliminary bioassessment study that was conducted on in San Diego County in 1998 and 1999. In the report titled "San Diego Regional Water Quality Control Board: 1999 Biological Assessment Report." In this preliminary study, it was noted that the San Luis Rey watershed is a potential reference site for San Diego County.

It is recommended that this stretch of the San Luis Rey River not have a 303(d) listing and be considered a low priority, but continued water quality monitoring and bioassessments is still warranted.

Source References

All water quality standards were taken from the Water Quality Control Plan for the San Diego Basin.

San Luis Rey River Watershed Guidelines, 2000

Linda Pardy Table 1

San Diego Regional Water Quality Control Board: 1999 Biological Assessment Report.

Harrington, James. "San Diego Regional Water Quality Control Board: 1999 Biological Assessment Report." California Department Fish and Game. 1999.

Gonzalez, Mary. Quarterly Monitoring Reports for the City of Oceanside. 1997-2000.

May 15, 2001

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD



2001 MAY 15 P 4:58

Chairman John Minan and Boardmembers
Regional Water Quality Control Board, San Diego Region
9771 Clairemont Mesa Blvd., Suite A
San Diego, CA 92124

Re: CWA Section 303(d) Listing

Dear Chairman Minan and Boardmembers:

San Diego BayKeeper, a community-based 501(c)(3) non-profit organization dedicated to protecting and restoring the region's bays, coastal waters and watersheds, submits these comments on the 2002 Clean Water Act (CWA) section 303(d) listing. San Diego BayKeeper has serious concerns with the adequacy of the current 303(d) list for the region, and we are equally concerned about the direction staff may be taking in compiling the April 2002 listing.

First, we remain concerned that Region 9's proposed 303(d) list is not based on a comprehensive assembly and review of information and data on water quality and other impairments regarding all water bodies in Region 9, as the Clean Water Act and its implementing regulations require. *See, e.g., 40 C.F.R. Section 130.7.* Indeed, wholly apart from the Section 303(d) scheme, under Clean Water Act Section 305(b) and accompanying regulations, each regional board must conduct a regional water quality assessment (WQA) of all water bodies in its region. It is clear from an even cursory review of the most recent 1998 California Water Quality Assessment Report, prepared in August 1999 by the Division of Water Quality, State Water Resources Control Board, that such a comprehensive review has yet to be performed in the San Diego region. After a brief review of data in the 1998 WQA, BayKeeper has concluded that more than twenty years after these requirements were established, at least 80% of San Diego's waters have not yet been fully assessed. Moreover, much of the data that has been gathered may not be easily accessed or understandable. In other words, this data is never fully reviewed or analyzed.

BayKeeper is also concerned about the requirements placed upon organizations wishing to submit information to support the upcoming 2002 CWA section 303(d) listing. The 305(b) and 303(d) lists are essential steps in first understanding and then addressing the overall health of our waters. Not only will the development of comprehensive and accurate 303(d) and 305(b) reports ensure that waters receive the appropriate level of protection through development of Total Maximum Daily Loads or antidegradation policies, but accurate lists will help ensure resources will be allocated wisely. Proper listings will also allow the region to tap into state and federal dollars earmarked for protecting impaired waters (e.g. SWRCB's 319(h) program or Proposition 13). Despite the importance of the 303(d) list, though, those local residents most knowledgeable about their local waters and most impacted by pollution will have a difficult time complying with the submittal requirements established by this Board even though they may have vital and reliable data. Some of our specific concerns relate to:

Timeframe – Region 9, like other regions, is requiring all information to be submitted by May 15, 2001, a full 11 months prior to the final 2002 303(d) listing. We believe this deadline is not only arbitrary, but also extremely difficult to comply with due to the amount of information being requested in a short timeframe. The San Diego Regional Board did not issue their solicitation for information until March 2001, and a formal workshop to discuss the Board's submission requirements was not held until April 4, 2001. This has left interested parties with a scant six weeks to gather and process information. Considering the more than twenty years the regional board has had to develop sufficient 303(d) and

305(b) reports (which we are still waiting for), less than six weeks to provide needed data is wholly insufficient. BayKeeper intends to continue providing information to regional board staff through the two remaining public comment periods – August 2001 (when RWQCBs solicit input on draft 303(d) list recommendations) and Winter/Spring 2002 (when the SWRCB conducts formal public hearings on the draft 303(d) list). It is our expectation that the data provided in this timeframe will be reviewed and assessed by regional and state board staff for the 2002 listing.

Required Documentation – The regional board has indicated they will consider information and data generated since July 1997 that is provided both in hard copy as well as electronic formats, and that includes “bibliographic citations, identification of software used, model outputs with calibration and quality assurance information and description and interpretation of information provided.” In separate meetings with regional board staff, BayKeeper has been told that data that can demonstrate trend analysis, that has been replicated and that covers physical, chemical and biological parameters will be most useful in helping to establish an accurate 303(d) list.

BayKeeper appreciates that the more comprehensive the data we are able to provide, the better. We are nonetheless concerned that these requirements are far beyond the criteria of ‘reliability’ which we believe is appropriate. In fact, it is our assertion that the Regional Board must use *all* relevant, reasonably available data (e.g. water quality, sediment, fish tissue, photos, narrative standards, land use plans, videotapes media coverage) to list waters. Listing should occur if evidence under reasonably foreseeable conditions indicates that a standard (e.g., California Toxics Rule, National Toxics Rule, Basin Plans, beneficial uses) is, or will be, violated. Where judgment calls are required, BayKeeper believes the Regional Board must err on the side of environmental and human health protection.

We assert such an interpretation is embodied in the requirement that “Each State shall identify those waters within its boundaries for which the effluent limitations . . . are not stringent enough to implement *any* water quality standard applicable to such waters.” (CWA, section 303(d)(1)(A), *emphasis added*). Furthermore, the Clean Water Act and its implementing regulations also distinguish between those existing uses that are actually being attained and designated beneficial uses that *must still be protected*, whether or not they are currently being attained.

Yet, the submittal requirements of the regional board require a rigor that is both unrealistic and unnecessary for listing. First, it is extremely costly to undertake much of the scientific analysis being requested by the Board, particularly if multiple replicates are being requested, as is trend analysis. It is unreasonable to expect small, grassroots organizations or concerned citizens to incur these types of expenses. In fact, to undertake some of the water quality analysis being requested by the regional board is costing BayKeeper thousands of dollars, and these costs would be substantially higher if we rushed our orders to meet the May 15 deadline. With limited resources, we decided not to rush these orders, meaning certified lab testing of metals, pesticides and herbicides along the San Diego River will be submitted after May 15, but as soon as is practicable.

It is also often impossible for local residents to gain access to some heavily polluted waters to conduct the types of analysis being requested, particularly as these residents often fear reprisals from local businesses that may be impacted by a demonstration that they are polluting these waters. This is a real and serious problem BayKeeper has faced in trying to gather data for this listing from local residents, particularly along certain areas of the San Diego River.

BayKeeper is also uncertain about the requirement that data be generated since July 1997. Again, we understand the need for reliable data, and more current data would be preferable. We also recognize that it is not necessary to provide pre-1997 data that has already led to a listing in 1998 or before (other than possibly using data to ensure that inappropriate delisting does not occur). However, we believe that valid

pre-1997 data (particularly that data that the Board already possess) that demonstrates impairment, but which has not yet led to a listing, must be considered by this Board. In fact, as is discussed in greater detail below, the 1998 WQA report includes listings of several water bodies that show some level of impairment but which have not yet been listed. Listing those waters for which information already exists must be the first step in the 2002 listing.

Finally, while BayKeeper – through its ever-expanding Citizen Water Quality Monitoring taskforce – looks forward to working closely with regional board staff to undertake a more comprehensive assessment of local waters, the ultimate burden of listing lies with your agency. Because of the importance of the 2002 list in terms of water quality protections as well as access to resources to help restore waters, we will do everything within our power to point regional board staff in the direction of identifying impaired waters. However, we believe it is the duty of this Board – a duty that has not yet been met – to prepare complete and accurate 305(b) and 303(d) lists. The following information on waters we believe should be listed will need follow-up from regional board staff, and in no way is meant to represent a comprehensive listing of all of San Diego's waters which may be impaired.

303(d) List

BayKeeper believes the first step in preparing an accurate 2002 303(d) list is necessarily to review the most recent 1998 Water Quality Assessment. In that report, a matrix is provided which lists each separate hydrological unit in San Diego, and indicates whether each unit has or has not been assessed. For those that have been assessed, the matrix indicates whether these waters are supporting designated beneficial uses fully, partially, not at all, or whether beneficial uses are threatened. For the reasoning highlighted above, BayKeeper believes it is incumbent on the regional board to err on the side of environmental and human health protection, meaning that listing should occur for every assessed water body that is not meeting designated beneficial uses. This is not the case with the 1998 WQA report, and some examples follow:

Dana Point Harbor (Hydrological Unit 901.140) – listed as 215 acres fully supporting designated beneficial uses. Yet, the assessment comments column indicates that Dana Point Harbor and Baby Beach were closed from 8/96 to 7/97 to water contact recreation. As Dana Point Harbor is listed as meeting Recreation 1 and 2 standards, it should be listed as impaired if it was indeed closed for nearly a year to water contact.

San Diego Bay (Hydrological Unit 900.00) – While 222 acres of San Diego bay are listed as impaired due to benthic community effects, sediment toxicity and copper, 1772 acres are threatened, but not listed as impaired. The WQA assessment indicates that the entire bay (12000 acres) is posted with warnings for pregnant women and young children against consumption of fish due to elevated levels of PCB's, mercury and PAH's. By the Regional Board's own findings and by definition, BayKeeper believes the entire Bay should be listed as impaired.

Escondido Creek - (Hydrological Unit 904.600) – 23 miles of Escondido Creek are considered ‘threatened’ due to excessive sediment and nutrients, and should thus be listed as impaired.

Forester Creek - (Hydrological Unit 907.130) – 1 mile of Forester Creek is considered ‘threatened’ due to elevated fish tissue levels, and should thus be listed as impaired.

Otay River - (Hydrological Unit 910.200) – 5 miles of the Otay River are listed as only partially supporting designated beneficial uses, and should thus be listed as impaired.

Salt Creek - (Hydrological Unit 901.140) – Salt Creek was closed regularly in 1996 and 1997 due to elevated coliform levels from sewage spills, and should thus be listed as impaired.

San Diego River, Lower - (Hydrological Unit 907.110) – 6 miles of the Lower San Diego River is considered 'threatened' due to elevated coliform levels and exotic plant species, and should thus be listed as impaired. (Discussed in greater detail below.)

San Juan Creek, Upper Middle - (Hydrological Unit 901.260) – 3.2 miles of the Upper Middle San Juan Creek is considered 'threatened' due to elevated coliform levels, and should thus be listed as impaired.

San Luis Rey River, Lower - (Hydrological Units 903.100) – 18.7 miles of the Lower San Luis Rey River is considered 'threatened' due to elevated coliform levels and exotic plant species, and should thus be listed as impaired.

San Diego River

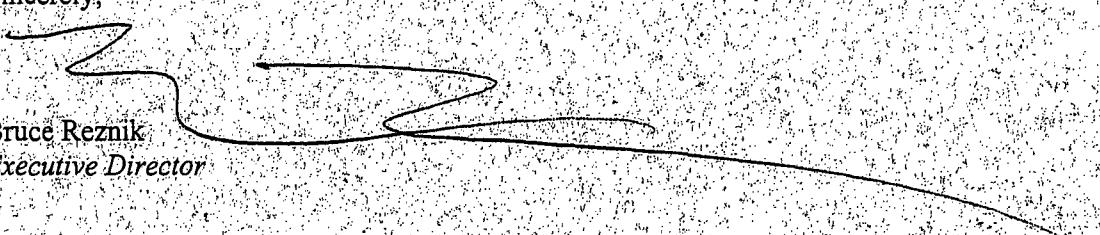
BayKeeper is submitting a separate letter and supporting materials detailing portions of the San Diego River for which sufficient information exists to require a 303(d) listing.

Otay/Sweetwater Rivers

BayKeeper is aware of several comment letters and photographs submitted by Ray Ymzon, Board Member of the Sweetwater Valley Civic Association to the San Diego Regional Water Quality Control relating to 401 certification for the proposed SR-125 toll road. These letters and photos demonstrate increasing trash, and apparent oil and grease problems, at a minimum, along stretches of the rivers, particularly the Sweetwater. We believe further investigation and likely listing is warranted based on the information provided. BayKeeper has not provided copies of these materials, as they should already be in your files.

On behalf of San Diego BayKeeper, I appreciate the opportunity to provide comments on the 2002 CWA section 303(d) listing, and hope they are helpful. A great deal of work is needed to ensure a complete and accurate listing in 2002 and beyond, and BayKeeper looks forward to working with the regional board to ensure such listings. Please do not hesitate to contact me should you have any questions need additional information.

Sincerely,


Bruce Reznik
Executive Director

Meets 10:1 criterion

No indication or proof of algae

TDS > 500 at both sites

mz/e

| Sampling Date | Station Name | Station ID | Hydrologic Subarea | Detection Limit | Station Location | | | | | | | | Ammonia-N | Nitrate as N | Nitrite-N | Total Kjeldahl Nitrogen | Orthophosphate-P | Total Phosphate-P (revised) | Total Phosphate PO ₄ | Total Dissolved Solids | Turbidity NTU | Calcium | Sodium | Magnesium | Potassium | Chloride | Sulfate | Total Hardness | Ec. umhos | Nitrile / Total Phosphate | Antimony | Arsenic |
|---------------|--------------|-----------------|--------------------|--|------------------|-------|------|------|------|------|--|--|-----------|--------------|-----------|-------------------------|------------------|-----------------------------|---------------------------------|------------------------|---------------|---------|--------|-----------|-----------|----------|---------|----------------|-----------|---------------------------|----------|---------|
| | | | | | Site 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/9/98 | RC-WGR | DFG-978-321 | | Rainbow Creek at Willow Glen Rd | <.14 | 11.47 | 0.02 | 0.44 | 0.95 | 0.77 | | | | | | | | | | | | | | | | | | | | | | |
| 6/9/98 | SMR-WGR | DFG-978-322 | | Santa Margarita at Willow Glen Rd (Stage Coach Ln). | <.14 | 3.76 | 0.02 | 0.47 | 0.11 | 0.62 | | | | | | | | | | | | | | | | | | | | | | |
| 6/9/98 | SMR-SCD | DFG-978-323 | | SMR at DeLuz/ Pico Rd near Sandia Ck | <.14 | 4.69 | 0.01 | 0.34 | 0.18 | 0.35 | | | | | | | | | | | | | | | | | | | | | | |
| 6/9/98 | SC-SCR | DFG-978-324 | | Sandia Ck at Sandia Ck Rd, 0.5 to 1 mile above confluence | <.14 | 5.83 | 0.01 | 0.17 | 0.24 | 0.30 | | | | | | | | | | | | | | | | | | | ND 7.8 | | | |
| 6/9/98 | SMR-CP | DFG-978-325 | | Santa Margarita River below diversion weir on Camp Pendleton | <.14 | 2.71 | 0.01 | 0.34 | 0.23 | 0.41 | | | | | | | | | | | | | | | | | | ND 5.9 | | | | |
| 6/9/98 | SMR-SMB | DFG-978-326 | | SMR at Stuart Mesa Rd bridge on Camp Pendleton | <.14 | 1.63 | 0.01 | 0.28 | 0.23 | 0.35 | | | | | | | | | | | | | | | | | | ND 2.3 | | | | |
| 6/10/98 | BVR-ED | DFG-978-327 | | San Marcos Creek at Rancheros Drive | <.14 | 14.70 | 0.05 | 0.53 | 0.14 | 0.95 | | | | | | | | | | | | | | | | | | | | | | |
| 6/10/98 | AHC-SA | DFG-978-328 | | Agua Hedionda Ck at Sycamore Ave. | 0.17 | 15.30 | 0.08 | 0.58 | 1.00 | 0.90 | | | | | | | | | | | | | | | | | | | | | | |
| 6/10/98 | SMC-SP | DFG-978-329 | | Buena Vista Ck at Wildwood Park | 0.23 | 3.40 | 0.09 | 0.62 | 0.12 | 0.75 | | | | | | | | | | | | | | | | | | | | | | |
| 6/10/98 | AC-CCR | DFG-978-330 | | Aliso Ck along Country Club Rd | 3.30 | 3.10 | 1.00 | 0.81 | 1.10 | 0.93 | | | | | | | | | | | | | | | | | | ND 1.2 | | | | |
| 6/10/98 | AC-PPD | DFG-978-331 | | Aliso Ck at Pacific Park Dr/ Oso Pkwy | 0.18 | 1.00 | 0.03 | 0.56 | 0.15 | 0.81 | | | | | | | | | | | | | | | | | | | | | | |
| 6/10/98 | AHC-ECR | DFG-978-332 | | Agua Hedionda Ck at El Camino Real | <.14 | 5.80 | 0.02 | 0.53 | 0.44 | 0.61 | | | | | | | | | | | | | | | | | | | | | | |
| 6/11/98 | SLRR-395 | DFG-978-333 | | San Luis Rey River at old Hwy 395 (Couser Canyon Rd) | <.14 | 4.20 | 0.03 | 0.42 | 0.75 | 0.99 | | | | | | | | | | | | | | | | | | | | | | |
| 6/29/98 | | LLP-978-405-BUV | | Buena Vista Creek | <.14 | 1.20 | 0.02 | 0.64 | 0.83 | | | | | | | | | | | | | | | | | | | | | | | |
| 6/29/98 | | LLP-978-405-AGH | | Agua Hedionda Creek | <.14 | 4.50 | 0.03 | 0.76 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 6/29/98 | | LLP-978-405-ESC | | Escondido Creek | <.14 | 3.60 | 0.01 | 0.76 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |

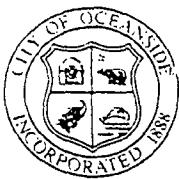
These are 4.2

| Hydrologic Subarea | Detection Limit | Station Location | | | | | | | | | | | | Ceriodaphnia survival | Ceriodaphnia-reproduction | Pimephales survival | Pimephales-growth | |
|--|-----------------|------------------|---------|----------------|--------------------|--------|-------------|-----------------|---------|--------|----------|--------|----------|-----------------------|---------------------------|---------------------|-------------------|--|
| | | Beryllium | Cadmium | Chromium Total | Chromium Dissolved | Copper | Lead, Total | Lead, Dissolved | Mercury | Nickel | Selenium | Silver | Thallium | Zinc, Total | Zinc, Dissolved | | | |
| Rainbow Creek at Willow Glen Rd | | | | | | | | | | | | | | | | | | |
| Santa Margarita at Willow Glen Rd (Stage Coach Ln). | | | | | | | | | | | | | | | | | | |
| SMR at DeLuz/ Pico Rd near Sandia Ck | | | | | | | | | | | | | | | | | | |
| Sandia Ck at Sandia Ck Rd, 0.5 to 1 mile above confluence | ND | ND | 17.0 | | 20.0 | 1.7 | | ND | 7.7 | ND | ND | ND | 26.2 | | | | | |
| Santa Margarita River below diversion weir on Camp Pendleton | ND | ND | 5.7 | | 4.0 | 6.7 | | ND | 2.8 | ND | ND | ND | 1.5 | 24.3 | | | | |
| SMR at Stuart Mesa Rd bridge on Camp Pendleton | ND | 0.44 | 14.7 | | 9.1 | 12.3 | | ND | 5.5 | ND | ND | ND | ND | 81.1 | | | | |
| San Marcos Creek at Rancheros Drive | | | | | | | | | | | | | | | | | | |
| Agua Hedionda Ck at Sycamore Ave | | | | | | | | | | | | | | | | | | |
| Buena Vista Ck at Wildwood Park | | | | | | | | | | | | | | | | | | |
| Aliso Ck along Country Club Rd | ND | ND | 7.6 | | 2.2 | ND | | ND | 3.4 | ND | ND | ND | 1.2 | 16.0 | | | | |
| Aliso Ck at Pacific Park Dr/ Oso Pkwy | | | | | | | | | | | | | | | | | | |
| Agua Hedionda Ck at El Camino Real | | | | | | | | | | | | | | | | | | |
| San Luis Rey River at old Hwy 395 (Couser Canyon Rd) | | | | | | | | | | | | | | | | | | |
| Buena Vista Creek | ND | ND | 0.0 | 0.01 | ND | ND | | ND | ND | ND | ND | ND | ND | 0.04 | 0.02 | No Difference | | |
| Agua Hedionda Creek | ND | ND | 0.0 | 0.01 | ND | ND | | ND | ND | ND | ND | ND | ND | 0.03 | 0.02 | No Difference | | |
| Escondido Creek | ND | ND | 0.0 | 0.01 | ND | ND | | 0.002 | ND | ND | ND | ND | ND | 0.06 | 0.04 | No Difference | | |

are in units of milligrams per liter.

ENDNOTES FOR TABLE 3-2

- a Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total Phosphorus (P) concentrations shall not exceed 0.05 mg/l in any stream at the point where it enters any standing body of water, nor 0.025 mg/l in any standing body of water. A desired goal in order to prevent plant nuisances in streams and other flowing waters appears to be 0.1 mg/l total P. These values are not to be exceeded more than 10% of the time unless studies of the specific body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used. Note - Certain exceptions to the above water quality objectives are described in Chapter 4 in the sections titled Discharges to Coastal Lagoons from Pilot Water Reclamation Projects and Dicahrges to Surface Waters.
- b These objectives apply to the lower portion of Murrieta Creek in the Wolf HSA (2.52) and the Santa Margarita River from it's beginning at the confluence of Murrieta and Temecula Creeks, through the Gavilan HSA (2.22) and DeLuz HSA (2.21), to where it enters the Upper Ysidora HSA (2.13).
- c Sycamore Canyon Subarea, a portion of the Santee Hydrologic Subarea, includes the watersheds of the following north-south trending canyons: Oak Creek, Spring Canyon, Little Sycamore Canyon, Quail Canyon, and Sycamore Canyon. The Sycamore Canyon subarea extends eastward from the Mission San Diego HSA to the confluence of the San Diego River and Forester Creek, immediately south of the Santee Lakes.
- d These objectives apply to the Lower Sycamore Canyon portion of the Santee Hydrologic Subarea described as all of the Sycamore Canyon watershed except that part which drains north of the boundary between sections 28 and 33, Township South, Range 1 West.



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

WATER QUALITY
CONTROL BOARD

2001 MAY 15 P 12:56
LABORATORY REPORT

Barry Martin
Assistant Water Utilities Director
City of Oceanside
300 North Coast Highway
Oceanside, California 92054

Sample ID: San Luis Rey River
Bonsall Bridge
Date sampled: 27-Oct-97
Date sample received: 27-Oct-97

| Analyte | Method | Results |
|---------------------------------------|-----------------------|---------------|
| Chloride | 4110 B | 421 mg/l |
| Cyanide | 4500CN C&E | ND <0.01 mg/l |
| Conductivity | 2510 B | 2590 umhos/cm |
| Fluoride | 4110 B | ND <0.2 mg/l |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.1 mg/l |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/l |
| Nitrate as nitrogen | 4110 B | ND <0.23 mg/l |
| pH | 4500-H B | 8.05 |
| Sulfate | 4110 B | 459 mg/l |
| Total dissolved solids | 2540 C | 1900 mg/l |
| Total alkalinity as CaCO ₃ | 2320 B | 320 mg/l |
| Total hardness as CaCO ₃ | 2340 B | 931 mg/l |
| | | |
| Total coliform | 9221 B | 500 MPN/100ml |
| Fecal coliform | 9221 E | 80 MPN/100ml |
| Enterococcus | 9230 C | 70 MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Bonsall Bridge

Date sampled: 27-Oct-97

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | ND <0.04 mg/l |
| Antimony | 200.9 * | ND <5 ug/l |
| Arsenic | 200.9 * | 3 ug/l |
| Barium | 200.7 * | 0.081 mg/l |
| Beryllium | 200.7 * | 0.3 ug/l |
| Boron | 200.7 * | 0.204 mg/l |
| Calcium | 200.7 * | 187 mg/l |
| Cadmium | 200.9 * | ND <1 ug/l |
| Chromium | 200.7 * | ND <0.01 mg/l |
| Copper | 200.7 * | ND <0.006 mg/l |
| Iron | 200.7 * | ND <0.02 mg/l |
| Lead | 200.9 * | ND <5 ug/l |
| Magnesium | 200.7 * | 113 mg/l |
| Manganese | 200.7 * | 0.014 mg/l |
| Mercury | 245.1 * | ND <1 ug/l |
| Molybdenum | 200.9 * | 11.5 ug/l |
| Nickel | 200.7 * | ND <0.01 mg/l |
| Potassium | 200.7 * | 6.23 mg/l |
| Selenium | 200.9 * | ND <5 ug/l |
| Silicon | 200.7 * | 12.5 mg/l |
| Silver | 200.7 * | ND <0.01 mg/l |
| Sodium | 200.7 * | 262 mg/l |
| Strontium | 200.7 * | 0.802 mg/l |
| Thallium | 200.9 * | ND <1 ug/l |
| Zinc | 200.7 * | ND <0.008 mg/l |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples,
May 1994.



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

LABORATORY REPORT

| | |
|------------------------------------|---------------------------------|
| Barry Martin | Sample ID: San Luis Rey River |
| Assistant Water Utilities Director | Douglas Street Bridge |
| City of Oceanside | Date sampled: 27-Oct-97 |
| 300 North Coast Highway | Date sample received: 27-Oct-97 |
| Oceanside, California 92054 | |

| Analyte | Method | Results |
|---------------------------------------|-----------------------|---------------|
| Chloride | 4110 B | 342 mg/l |
| Cyanide | 4500CN C&E | ND <0.01 mg/l |
| Conductivity | 2510 B | 2110 umhos/cm |
| Fluoride | 4110 B | ND <0.2 mg/l |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.1 mg/l |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/l |
| Nitrate as nitrogen | 4110 B | ND <0.23 mg/l |
| pH | 4500-H B | 7.58 |
| Sulfate | 4110 B | 347 mg/l |
| Total dissolved solids | 2540 C | 1500 mg/l |
| Total alkalinity as CaCO ₃ | 2320 B | 255 mg/l |
| Total hardness as CaCO ₃ | 2340 B | 716 mg/l |
| | | |
| Total coliform | 9221 B | 210 MPN/100ml |
| Fecal coliform | 9221 E | 4 MPN/100ml |
| Enterococcus | 9230 C | 180 MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Douglas Street Bridge

Date sampled: 27-Oct-97

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | ND <0.04 mg/l |
| Antimony | 200.9 * | ND <5 ug/l |
| Arsenic | 200.9 * | 3 ug/l |
| Barium | 200.7 * | 0.099 mg/l |
| Beryllium | 200.7 * | ND <0.3 ug/l |
| Boron | 200.7 * | 0.202 mg/l |
| Calcium | 200.7 * | 147 mg/l |
| Cadmium | 200.9 * | ND <1 ug/l |
| Chromium | 200.7 * | ND <0.01 mg/l |
| Copper | 200.7 * | ND <0.006 mg/l |
| Iron | 200.7 * | 0.039 mg/l |
| Lead | 200.9 * | ND <5 ug/l |
| Magnesium | 200.7 * | 84.8 mg/l |
| Manganese | 200.7 * | 0.083 mg/l |
| Mercury | 245.1 * | ND <1 ug/l |
| Molybdenum | 200.9 * | 15.1 ug/l |
| Nickel | 200.7 * | ND <0.01 mg/l |
| Potassium | 200.7 * | 8.12 mg/l |
| Selenium | 200.9 * | ND <5 ug/l |
| Silicon | 200.7 * | 13.4 mg/l |
| Silver | 200.7 * | ND <0.01 mg/l |
| Sodium | 200.7 * | 210 mg/l |
| Strontium | 200.7 * | 0.758 mg/l |
| Thallium | 200.9 * | ND <1 ug/l |
| Zinc | 200.7 * | ND <0.008 mg/l |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples,
May 1994.



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

LABORATORY REPORT

| | |
|---|--|
| Barry Martin Assistant Water Utilities Director City of Oceanside 300 North Coast Highway Oceanside, California 92054 | Sample ID: San Luis Rey River Benet Road bridge Date sampled: 27-Oct-97 Date sample received: 27-Oct-97 |
|---|--|

| Analyte | Method | Results |
|---------------------------------------|-----------------------|----------------------------|
| Chloride | 4110 B | 805 mg/l |
| Cyanide | 4500CN C&E | ND <0.01 mg/l |
| Conductivity | 2510 B | 3610 umhos/cm |
| Fluoride | 4110 B | ND <0.2 mg/l |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.1 mg/l |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/l |
| Nitrate as nitrogen | 4110 B | ND <0.23 mg/l |
| pH | 4500-H B | 8.05 |
| Sulfate | 4110 B | 541 mg/l |
| Total dissolved solids | 2540 C | 2660 mg/l |
| Total alkalinity as CaCO ₃ | 2320 B | 375 mg/l |
| Total hardness as CaCO ₃ | 2340 B | 1110 mg/l |
| Total coliform | 9221 B | 2800 MPN/100ml |
| Fecal coliform | 9221 E | 260 MPN/100ml |
| <u>Enterococcus</u> | 9230 C | 170 ² MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Benet Road Bridge

Date sampled: 27-Oct-97

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | 0.09 mg/l |
| Antimony | 200.9 * | ND <5 ug/l |
| Arsenic | 200.9 * | 3 ug/l |
| Barium | 200.7 * | 0.122 mg/l |
| Beryllium | 200.7 * | ND <0.3 ug/l |
| Boron | 200.7 * | 0.275 mg/l |
| Calcium | 200.7 * | 212 mg/l |
| Cadmium | 200.9 * | ND <1 ug/l |
| Chromium | 200.7 * | ND <0.01 mg/l |
| Copper | 200.7 * | ND <0.006 mg/l |
| Iron | 200.7 * | 0.099 mg/l |
| Lead | 200.9 * | ND <5 ug/l |
| Magnesium | 200.7 * | 141 mg/l |
| Manganese | 200.7 * | 0.085 mg/l |
| Mercury | 245.1 * | ND <1 ug/l |
| Molybdenum | 200.9 * | 13.4 ug/l |
| Nickel | 200.7 * | ND <0.01 mg/l |
| Potassium | 200.7 * | 7.29 mg/l |
| Selenium | 200.9 * | ND <5 ug/l |
| Silicon | 200.7 * | 7.53 mg/l |
| Silver | 200.7 * | ND <0.01 mg/l |
| Sodium | 200.7 * | 455 mg/l |
| Strontium | 200.7 * | 1.46 mg/l |
| Thallium | 200.9 * | ND <1 ug/l |
| Zinc | 200.7 * | ND <0.008 mg/l |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples,
May 1994.

City of Oceanside
Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

phone: 760-966-8772
fax: 760-966-8770

P.O. # 53114

Date: October 29, 1997

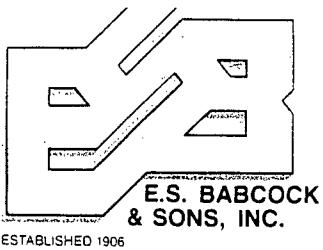
| Samples | Date/Time Sampled | Analyze for: |
|---|--------------------------------|--|
| San Luis Rey River at Benet Rd | grab sample 0938 27-Oct-97 | EPA 504-EDB/DBCP <i>UV</i> EPA 507-N&P pest EPA 508-pest pcb EPA 524-VOC EPA 525-semivolatiles total petroleum hydrocarbons |
| | grab sample 0855 29-Oct-97 | <i>55?</i> |
| Mission Basin Desalting Facility Well 1, Well 2, Product | grab samples 0920 29-Oct-97 | EPA 524-VOC |

The above sample(s) were released to E. S. Babcock & Sons by:

Mary Gonzales-lah Supervisor Mary Gonzales 10-29-97 12:00
Name and title (print) Signature Date/time

The above sample(s) were received by E. S. Babcock & Sons by:

Angela Downey Angela Downey 10/30/97 1045
Name and title (print) Signature Date/time



6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

5697-53114

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SAN LUIS REY RIVER

Site: @ BENET RD.

Description:

Matrix: water

Page: 1 of 1
Lab No.: L34760-001

Date Reported: 11/13/97

Collected By:

Date: 10/27/97

Time: 0938

Submitted By: UPS

Date: 10/30/97

Time: 1045

| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|------|---------------|-----------|-----------------------|
| DBCP | ND | ug/L | EPA 504.1 | 0.01 | 971103/HG |
| EDB | ND | ug/L | EPA 504.1 | 0.02 | 971103/HG |

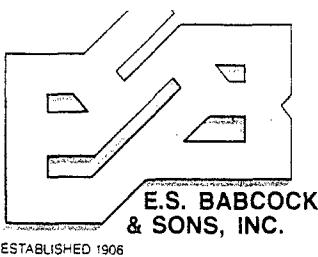
ND = None detected at RL (Reporting Limit). RL units same as result.

EDB/DBCP results confirmed on second column.

cc:

E. S. Babcock & Sons Inc.

Jane M. Chayka



6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

11/13/97

To: City of Oceanside
Attn: Mary Gonzales
3950 N. River Road
Oceanside, CA 92054

Lab No. L34760-001

| Submitted | Sampled |
|-----------|----------|
| UPS | |
| 10/30/97 | 10/27/97 |
| 10:45 | 09:38 |

Chain of Custody on file: Yes

Sample Marked: San Luis Rey River
@ Benet Rd. Water

| Result ($\mu\text{g/L}$) | DLR ($\mu\text{g/L}$) |
|-------------------------------|----------------------------|
|-------------------------------|----------------------------|

EPA Method 525.2 (EPA 507 analytes)

| | | |
|-------------|----|------|
| Alachlor | ND | 1 |
| Atrazine | ND | 1 |
| Bromacil | ND | 10 |
| Butachlor | ND | 0.38 |
| Diazinon | ND | 0.25 |
| Dimethoate | ND | 10 |
| Diuron | ND | 1.0 |
| Metolachlor | ND | 1.0 |
| Metribuzin | ND | 0.15 |
| Molinate | ND | 2.0 |
| Prometryn | ND | 2.0 |
| Simazine | ND | 1 |
| Thiobencarb | ND | 1.0 |

Batch Date/Analyst: 118117/97JES

EPA Method 525.2

| | | |
|-----------------------|----|-----|
| Diethylhexyladipate | ND | 5 |
| Diethylhexylphthalate | ND | 3 |
| Benzo(a) Pyrene | ND | 0.1 |

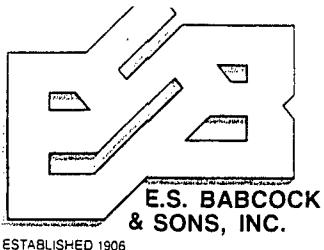
Batch Date/Analyst: 11/11/97JES

ND = None Detected at DLR

DLR = Detection Limit For Reporting

Edward S. Babcock & Sons, Inc.

Lorraine J. Chynell



6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

5697-53114

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SAN LUIS REY RIVER
Site: @ BENET RD.

Description:

Matrix: water

Page: 1
Lab No.: L34760-001

Date Reported: 11/13/97

Collected By:
Date: 10/27/97
Time: 0938
Submitted By: UPS
Date: 10/30/97
Time: 1045

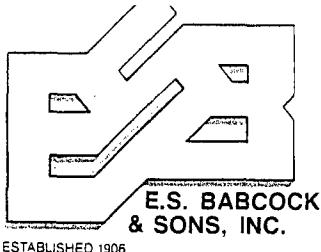
| EPA 508 | | | | | | | |
|--------------------|---------------|-----------|--------------------|---------------------------|-----------|------|------|
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
| Endrin | ND | ug/L | 0.1 | Aldrin | ND | ug/L | 0.08 |
| Heptachlor | ND | ug/L | 0.01 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Hexachlorobenzene | ND | ug/L | 0.5 | Hexachlorocyclopentadiene | ND | ug/L | 1.0 |
| Lindane | ND | ug/L | 0.2 | Methoxychlor | ND | ug/L | 10. |
| Chlordane | ND | ug/L | 0.1 | PCB'S (as DCB) | ND | ug/L | 0.5 |
| Chlorothalonil | ND | ug/L | 5.0 | Propachlor | ND | ug/L | 0.5 |
| Toxaphene | ND | ug/L | 1.0 | Dieldrin | ND | ug/L | 0.02 |

Date analyzed / Analyst: 11/05/97 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

5697-53114

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SAN LUIS REY RIVER

Site: @ BENET RD.

Description:

Matrix: water

Page: 2
Lab No.: L34760-001

Date Reported: 11/13/97

Collected By:

Date: 10/27/97

Time: 0938

Submitted By: UPS

Date: 10/30/97

Time: 1045

EPA 515.1

| Constituent | Result | RL | Constituent | Result | RL |
|-------------------|--------|------|-------------|-----------|-------------|
| Bentazon | ND | ug/L | 2.0 | 2,4-D | ND ug/L 10. |
| Dicamba | ND | ug/L | 1.5 | Dinoseb | ND ug/L 2.0 |
| Pentachlorophenol | ND | ug/L | 0.2 | Pichloram | ND ug/L 1.0 |
| Silvex | ND | ug/L | 1.0 | Dalapon | ND ug/L 10. |

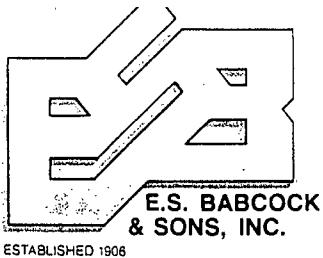
Date analyzed / Analyst: 971105 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

Lorraine Chayka



6100 Quail Valley Court Riverside, CA 92507
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PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

11/6/97

To: City of Oceanside
Attn: Mary Gonzales
3950 N. River Road
Oceanside, CA 92054

| | |
|--------------|------------|
| Lab No. | L34760-001 |
| Customer No. | 5697 |

Client ID: SAN LUIS REY RIVER
Site: @ BENET RD.
Description:

| Submitted | Sampled |
|-----------|----------|
| UPS | 10/27/97 |
| 10/30/97 | |
| 10:45 | 9:38 |

Volatile Organic Compounds
EPA METHOD 524.2

| Parameter | Results (ug/L) | RL (ug/L) | Parameter | Results (ug/L) | RL (ug/L) |
|----------------------------|-------------------|--------------|---------------------------|-------------------|--------------|
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | Chlorobenzene | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 | Chloroethane | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | Chloroform | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 | Chloromethane | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 | cis-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethene | ND | 0.5 | cis-1,3-Dichloropropene | ND | 0.5 |
| 1,1-Dichloropropene | ND | 0.5 | Dibromochloromethane | ND | 0.5 |
| 1,2,3-Trichloropropane | ND | 0.5 | Dibromomethane | ND | 0.5 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | Dichlorodifluoromethane | ND | 1.0 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | Ethylbenzene | ND | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | Hexachlorobutadiene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 | Isopropylbenzene | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 | Methylene Chloride | ND | 3.0 |
| 1,2-Dichloropropane | ND | 0.5 | Methyl tert Butyl Ether | ND | 5.0 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | n-Butylbenzene | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 | n-Propylbenzene | ND | 0.5 |
| 1,3-Dichloropropene | ND | 0.5 | Naphthalene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 | p-Isopropyltoluene | ND | 0.5 |
| 2,2-Dichloropropane | ND | 0.5 | sec-Butylbenzene | ND | 0.5 |
| 2-Butanone(MEK) | ND | 5.0 | Styrene | ND | 0.5 |
| 2-Chloroethylvinyl Ether | ND | 1.0 | tert-Butylbenzene | ND | 0.5 |
| 2-Chlorotoluene | ND | 0.5 | Tetrachloroethene | ND | 0.5 |
| 4-Chlorotoluene | ND | 0.5 | Toluene | ND | 0.5 |
| 4-Methyl-2-Pentanone(MIBK) | ND | 5.0 | trans-1,2-Dichloroethene | ND | 0.5 |
| bis(2-Chloroethyl) Ether | ND | 5.0 | trans-1,3-Dichloropropene | ND | 0.5 |
| Benzene | ND | 0.5 | Trichloroethene | ND | 0.5 |
| Bromobenzene | ND | 0.5 | Trichlorofluoromethane | ND | 5.0 |
| Bromochloromethane | ND | 0.5 | Trichlorotrifluoroethane | ND | 10 |
| Bromodichloromethane | ND | 0.5 | Xylenes (m+p) | ND | 0.5 |
| Bromoform | ND | 0.5 | Xylene (ortho) | ND | 0.5 |
| Bromomethane | ND | 0.5 | Vinyl Chloride | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 | | | |

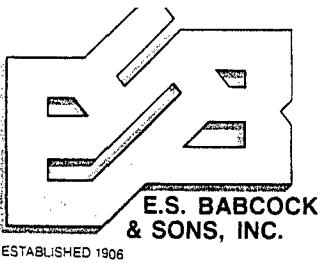
Date analyzed/Analyst: 11/01/97 / DI

ND=None detected at Reporting Limit (RL)

Notes:

cc:

Edward S. Babcock & Sons, Inc.



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Environmental Laboratory Certification #1156

5697-53114

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SAN LUIS REY RIVER
Site: @ BENET RD.

Description:

Matrix: water

Page: 1 of 1
Lab No.: L34760-002

Date Reported: 11/13/97

Collected By:
Date: 10/29/97
Time: 0855
Submitted By: UPS
Date: 10/30/97
Time: 1045

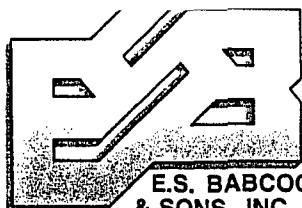
| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------|---------------|---------------|-----------|-----------------------|
| Total Petroleum Hydrocarbons | 150 | ug/L | EPA 418.1 | 100 971104/RA/ |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

Lorraine Chaytel



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1906

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

EX

ORGANIC CHEMICAL ANALYSIS (7/98)

2001 MAY 15 P.M. Sample ID No. L48709-007

Signature Lab

Director:

Employed By: City of Oceanside

Date/Time Sample

Date Analyses

Date of Report: 12/17/98

Collected: 98/11/30/0945 Received @ Lab: 98/12/02/0845

Completed: 98/12/16

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SAN LUIS REY RIVER @ BENET ROAD

* User ID: WAT

Station Number:

* Date/Time of Sample: | 98 | 11 | 30 | 0945 |

Laboratory Code: 4790 *

* YY MM DD TTTT

YY MM DD *

* Submitted by: _____

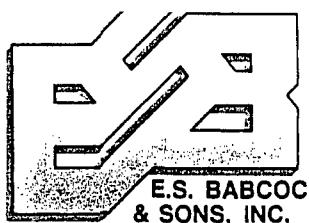
Date Analysis Completed: | 98 | 12 | 16 | *
Phone #: _____

PAGE 1 OF 3

REGULATED ORGANIC CHEMICALS

Neg Def No. 524.2

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|---|---------|------------------|----------|----------|
| 524.2 | Bromodichloromethane | 32101 | ND | | 0.5 |
| 524.2 | Bromoform | 32104 | ND | | 0.5 |
| 524.2 | Chloroform (Trichloromethane) | 32106 | ND | | 0.5 |
| 524.2 | Dibromochloromethane | 32105 | ND | | 0.5 |
| 524.2 | Total Trihalomethanes (THM'S/ TTHM) | 82080 | ND | 100 | 0.5 |
| 524.2 | Benzene | 34030 | ND | 1 | 0.5 |
| 524.2 | Carbon Tetrachloride | 32102 | ND | .5 | 0.5 |
| 524.2 | 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | 600 | 0.5 |
| 524.2 | 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 5 | 0.5 |
| 524.2 | 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | .5 | 0.5 |
| 524.2 | 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | 6 | 0.5 |
| 524.2 | cis-1,2-Dichloroethylene (c-1,2-DCE) | 77093 | ND | 6 | 0.5 |
| 524.2 | trans-1,2-Dichloroethylene (t-1,2-DCE) | 34546 | ND | 10 | 0.5 |
| 524.2 | Dichloromethane (Methylene Chloride) | 34423 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloropropane | 34541 | ND | 5 | 0.5 |
| 524.2 | Total 1,3-Dichloropropene | 34561 | ND | .5 | 0.5 |
| 524.2 | Ethyl Benzene | 34371 | ND | 700 | 0.5 |
| 524.2 | Monochlorobenzene (Chlorobenzene) | 34301 | ND | 70 | 0.5 |
| 524.2 | Styrene | 77128 | ND | 100 | 0.5 |
| 524.2 | 1,1,2,2-Tetrachloroethane | 34516 | ND | 1 | 0.5 |
| 524.2 | Tetrachloroethylene (PCE) | 34475 | ND | 5 | 0.5 |
| 524.2 | Toluene | 34010 | ND | 150 | 0.5 |
| 524.2 | 1,2,4-Trichlorobenzene | 34551 | ND | 70 | 0.5 |
| 524.2 | 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | 200 | 0.5 |
| 524.2 | 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | 5 | 0.5 |
| 524.2 | Trichloroethylene (TCE) | 39180 | ND | 5 | 0.5 |
| 524.2 | Trichlorofluoromethane (FREON 11) | 34488 | ND | 150 | 5.0 |



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1906

PAGE 2 OF 3

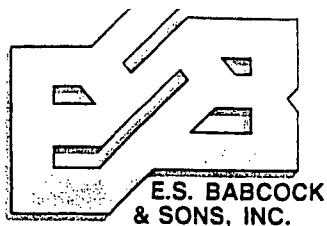
Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

REGULATED ORGANIC CHEMICALS CONTINUED L48709-007

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|---|---------|------------------|----------|----------|
| 524.2 | Trichlorotrifluoroethane (FREON 113) | 81611 | ND | 1200 | 10.0 |
| 524.2 | Vinyl Chloride (VC) | 39175 | ND | .5 | 0.5 |
| 524.2 | m,p-Xylene | A-014 | ND | | 0.5 |
| 524.2 | o-Xylene | 77135 | ND | | 0.5 |
| 524.2 | Total Xylenes (m,p, & o) | 81551 | ND | 1750 | 0.5 |
| 508 | Endrin | 39390 | ND | 2 | 0.10 |
| 508 | Lindane (gamma-BHC) | 39340 | ND | .2 | 0.20 |
| 508 | Methoxychlor | 39480 | ND | 40 | 10.0 |
| 508 | Toxaphene | 39400 | ND | 3 | 1.0 |
| 508 | Chlordane | 39350 | ND | .1 | 0.1 |
| 525.2 | Diethylhexylphthalate (DEHP) | 39100 | ND | 4 | 3.0 |
| 508 | Heptachlor | 39410 | ND | .01 | 0.01 |
| 508 | Heptachlor epoxide | 39420 | ND | .01 | 0.01 |
| 525.2 | Atrazine (AATREX) | 39033 | ND | 3 | 1.0 |
| 525.2 | Molinate (ORDRAM) | 82199 | ND | 20 | 2.0 |
| 525.2 | Simazine (PRINCEP) | 39055 | ND | 4 | 1.0 |
| 525.2 | Thiobencarb (BOLERO) | A-001 | ND | 70 | 1.0 |
| 525.2 | Alachlor (ALANEX) | 77825 | ND | 2 | 1.0 |
| 515.1 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2.0 |
| 525.2 | Benzo(a)pyrene | 34247 | ND | .2 | 0.1 |
| 515.1 | 2,4-D | 39730 | ND | 70 | 10.0 |
| 515.1 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1.0 |
| 515.1 | Dalapon | 38432 | ND | 200 | 10.0 |
| 515.1 | Dinoseb (DNBP) | 81287 | ND | 7 | 2.0 |
| 525.2 | Di(2-ethylhexyl) Adipate | A-026 | ND | 400 | 5.0 |
| 508 | Hexachlorobenzene | 39700 | ND | 1 | 0.5 |
| 508 | Hexachlorocyclopentadiene | 34386 | ND | 50 | 1.0 |
| 515.1 | Pentachlorophenol (PCP) | 39032 | ND | 1 | 0.2 |
| 515.1 | Picloram | 39720 | ND | 500 | 1.0 |
| 508 | Polychlorinated Biphenyls (Total PCB's) | 39516 | ND | .5 | 0.5 |

UNREGULATED ORGANIC CHEMICALS

| | | | | |
|-------|---------------------------------|-------|----|-----|
| 524.2 | Bromobenzene | 81555 | ND | 0.5 |
| 524.2 | Bromochloromethane | A-012 | ND | 0.5 |
| 524.2 | Bromomethane (Methyl Bromide) | 34413 | ND | 0.5 |
| 524.2 | n-Butylbenzene | A-010 | ND | 0.5 |
| 524.2 | sec-Butylbenzene | 77350 | ND | 0.5 |
| 524.2 | tert-Butylbenzene | 77353 | ND | 0.5 |
| 524.2 | Chloroethane | 34311 | ND | 0.5 |
| 524.2 | 2-Chloroethylvinyl Ether | 34576 | ND | 1.0 |
| 524.2 | Chloromethane (Methyl Chloride) | 34418 | ND | 0.5 |
| 524.2 | 2-Chlorotoluene | A-008 | ND | 0.5 |
| 524.2 | 4-Chlorotoluene | A-009 | ND | 0.5 |
| 524.2 | Dibromomethane | 77596 | ND | 0.5 |
| 524.2 | 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | 0.5 |
| 524.2 | Dichlorodifluoromethane | 34668 | ND | 1.0 |



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ESTABLISHED 1906

PAGE 3 OF 3

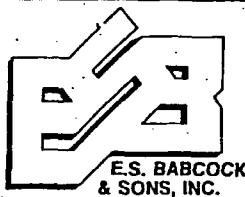
UNREGULATED ORGANIC CHEMICALS CONTINUED L48709-007

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | 1,3-Dichloropropane | 77173 | ND | 0.5 | |
| 524.2 | 2,2-Dichloropropane | 77170 | ND | 0.5 | |
| 524.2 | 1,1-Dichloropropene | 77168 | ND | 0.5 | |
| 524.2 | Hexachlorobutadiene | 34391 | ND | 0.5 | |
| 524.2 | Isopropylbenzene (Cumene) | 77223 | ND | 0.5 | |
| 524.2 | p-Isopropyltoluene | A-011 | ND | 0.5 | |
| 524.2 | Methyl tert-Butyl Ether (MTBE) | A-030 | ND | 3.0 | |
| 524.2 | Naphthalene | 34696 | ND | 0.5 | |
| 524.2 | n-Propylbenzene | 77224 | ND | 0.5 | |
| 524.2 | 1,1,1,2-Tetrachloroethane | 77562 | ND | 0.5 | |
| 524.2 | 1,2,3-Trichlorobenzene | 77613 | ND | 0.5 | |
| 524.2 | 1,2,3-Trichloropropane | 77443 | ND | 0.5 | |
| 524.2 | 1,2,4-Trimethylbenzene | 77222 | ND | 0.5 | |
| 524.2 | 1,3,5-Trimethylbenzene | 77226 | ND | 0.5 | |
| 524.2 | Methyl Ethyl Ketone (MEK, Butanone) | 81595 | ND | 5.0 | |
| 524.2 | Methyl Isobutyl Ketone (MIBK) | 81596 | ND | 5.0 | |
| 524.2 | bis (2-Chloroethyl) Ether | 34273 | ND | 5.0 | |
| 508 | Aldrin | 39330 | ND | 0.075 | |
| 525.2 | Bromacil (HYVAR) | 82198 | ND | 10.0 | |
| 525.2 | Butachlor | 77860 | ND | 0.38 | |
| 508 | Chlorothalonil (DACONIL, BRAVO) | 70314 | ND | 5.0 | |
| 525.2 | Diazinon | 39570 | 0.49 | 0.25 | |
| 515.1 | Dicamba (BANVEL) | 82052 | ND | 0.081 | |
| 508 | Dieldrin | 39380 | ND | 0.02 | |
| 525.2 | Dimethoate (CYGON) | 38458 | ND | 10.0 | |
| 525.2 | Diuron | 39650 | ND | 1.0 | |
| 525.2 | Metolachlor | 39356 | ND | | |
| 525.2 | Metribuzin | 81408 | ND | | |
| 525.2 | Prometryn (CAPAROL) | 39057 | ND | 2.0 | |
| 508 | Propachlor | 38533 | ND | 0.5 | |

Laboratory comments and description of any additional compounds found:

SDSHD

Rained Nov. 28



6100 Quail Valley Court
Riverside, CA 92507

(909) 653-3351
FAX (909) 653-1662

PO# 54774

CHAIN OF CUSTODY RECORD

Oceanside

Lab #: L48709

Invoice No.

| Project No. | Project Name / Location <i>City of Oceanside Water Utilities DEPT LAB</i> | Determination Requested | | | | | | | | | | Condition of Sample | Preserved | |
|--|--|-------------------------|----------------------|--------------|--------------|-----------|-------------|---------|-----------------------|-----------------|---------|----------------------|-----------|---------|
| | | EPA 524.2 | EPA 507 | EPA 525.2 | EPA 508 | EPA 531.1 | GROSS ALPHA | URANIUM | EPA 300.0 PERCHLORATE | EPA 300.2 ADG-N | EPA 575 | Number of Containers | Sealed | Chilled |
| Samplers: (signature) <i>Lin Reddick</i> | | Sampled | | | | | | | | | | Remarks | | |
| Description | Date | Time | | | | | | | | | | | | |
| MISSION BASIN DESALTING Facility | | | | | | | | | | | | | | |
| WELL #5 | 11/30/98 | 1015 | X | X | X | X | X | X | X | X | X | 9 | | |
| PRODUCT | 11/30/98 | 0830 | X | X | X | X | X | X | X | X | X | | | |
| SIR RIVER @ BENET RD | 11/30/98 | 0945 | X | X | X | | | | | X | | 5 | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Relinquished By: | Date/Time | Received By: | Relinquished By: | Date/Time | Received By: | | | | | | | | | |
| Mary Gonzalez | 12/1/98 0930 | | | | | | | | | | | | | |
| Relinquished By: | Date/Time | Received By: | Received For Lab By: | Date / Time | | | | | | | | | | |
| | | | D. B. Giffen | 12/2/98 0845 | | | | | | | | | | |

| | | | | | |
|------------------|-----------|--------------|------------------|-----------|--------------|
| Relinquished By: | Date/Time | Received By: | Relinquished By: | Date/Time | Received By: |
| | | | | | |

**City of Oceanside
Water Utilities Laboratory
Analytical Report**

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

2001 MAY 15 P 12:56

Report Date March 29, 1999
Sample Location Bonsall Bridge
Laboratory ID AA09339
Sampler's Name LEDESMA
Sample Type GRAB
Collection Time 09/21/98 12:14
Released to Lab 09/22/98 12:57

| Analyte | Units | Result | MDL | Method |
|--------------------------|-------|--------|-------|-----------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Sulfate | | 412 | 2.00 | |
| Nitrate as N | | 2.95 | 0.115 | |
| Nitrite as N | | <MDL | 0.005 | |
| Chloride | | 297 | 2.0 | |
| | | | | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Magnesium | | 91.1 | 0.2 | |
| Zinc | | <0.008 | 0.008 | |
| Thallium | | <0.001 | 0.001 | |
| Strontium | | 0.670 | 0.001 | |
| Sodium | | 192 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Calcium | | 162 | 0.2 | |
| Selenium | | <0.005 | 0.005 | |
| Potassium | | 5.65 | 0.2 | |
| Nickel | | <0.01 | 0.01 | |
| Molybdenum | | 0.013 | 0.004 | |
| Manganese | | 0.052 | 0.002 | |
| Boron | | 0.188 | 0.01 | |

| | Units | Result | MDL | Method |
|------------------------|----------------|--------|-------|--------------|
| Antimony | | <0.006 | 0.006 | |
| Arsenic | | 0.002 | 0.002 | |
| Barium | | 0.070 | 0.003 | |
| Beryllium | | <0.001 | 0.001 | |
| Aluminum | | <0.03 | 0.03 | |
| Cadmium | | <0.001 | 0.001 | |
| Silicon | | 11.8 | 0.01 | |
| Chromium | | <0.01 | 0.01 | |
| Copper | | <0.006 | 0.006 | |
| Iron | | 0.074 | 0.02 | |
| Lead | | <0.005 | 0.005 | |
| | | | | |
| Cyanide | mg/L | <0.1 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2140 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 170 | <1 | SM 9230 C |
| Fluoride | mg/L | 0.40 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |
| MTF for fecal coliform | MPN/100ml | 300 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 8000 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.26 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO3 | 275 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1400 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date March 29, 1999
Sample Location Douglas Bridge
Laboratory ID AA09341
Sampler's Name LEDESMA
Sample Type GRAB
Collection Time 09/21/98 12:37
Released to Lab 09/22/98 12:57

| Analyte | Units | Result | MDL | Method |
|--------------------------|-------|--------|-------|-----------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Sulfate | | 361 | 2.00 | |
| Nitrate as N | | 1.68 | 0.115 | |
| Nitrite as N | | <MDL | 0.005 | |
| Chloride | | 302 | 2.00 | |
| | | | | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Magnesium | | 83.2 | 0.2 | |
| Zinc | | <0.008 | 0.008 | |
| Thallium | | <0.001 | 0.001 | |
| Strontium | | 0.658 | 0.001 | |
| Sodium | | 184 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Calcium | | 149 | 0.2 | |
| Selenium | | <0.005 | 0.005 | |
| Potassium | | 7.11 | 0.2 | |
| Nickel | | <0.01 | 0.01 | |
| Molybdenum | | 0.012 | 0.004 | |
| Manganese | | 0.099 | 0.002 | |
| Boron | | 0.175 | 0.01 | |

| Analyte | Units | Result | MDL | Method |
|------------------------|---------------------------|--------|-------|--------------|
| Antimony | | <0.006 | 0.006 | |
| Arsenic | | <0.002 | 0.002 | |
| Barium | | 0.079 | 0.003 | |
| Beryllium | | <0.001 | 0.001 | |
| Aluminum | | 0.077 | 0.03 | |
| Cadmium | | <0.001 | 0.001 | |
| Silicon | | 8.98 | 0.01 | |
| Chromium | | <0.01 | 0.01 | |
| Copper | | <0.006 | 0.006 | |
| Iron | | 0.151 | 0.02 | |
| Lead | | <0.005 | 0.005 | |
| | | | | |
| Cyanide | mg/L | <0.1 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2040 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 600 | <1 | SM 9230 C |
| Fluoride | mg/L | 0.38 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |
| MTF for fecal coliform | MPN/100ml | 230 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 2100 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.53 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO ₃ | 248 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1480 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales

Laboratory Supervisor

**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date March 29, 1999
Sample Location Benet Bridge
Laboratory ID AA09340
Sampler's Name LEDESMA
Sample Type GRAB
Collection Time 09/21/98 10:40
Released to Lab 09/22/98 11:37

| Analyte | Units | Result | MDL | Method |
|--------------------------|-------|--------|-------|-----------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Sulfate | | 391 | 2.00 | |
| Nitrate as N | | 2.06 | 0.115 | |
| Nitrite as N | | <MDL | 0.005 | |
| Chloride | | 342 | 2.0 | |
| | | | | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Magnesium | | 88.0 | 0.2 | |
| Zinc | | <0.008 | 0.008 | |
| Thallium | | <0.001 | 0.001 | |
| Strontium | | 0.745 | 0.001 | |
| Sodium | | 205 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Calcium | | 170 | 0.2 | |
| Selenium | | <0.005 | 0.005 | |
| Potassium | | 8.1 | 0.2 | |
| Nickel | | <0.01 | 0.01 | |
| Molybdenum | | 0.014 | 0.004 | |
| Manganese | | 0.308 | 0.002 | |
| Boron | | 0.192 | 0.01 | |

| Analyte | Units | Result | MDL | Method |
|------------------------|---------------------------|--------|-------|--------------|
| Antimony | | <0.006 | 0.006 | |
| Arsenic | | <0.002 | 0.002 | |
| Barium | | 0.092 | 0.003 | |
| Beryllium | | <0.001 | 0.001 | |
| Aluminum | | 0.094 | 0.03 | |
| Cadmium | | <0.001 | 0.001 | |
| Silicon | | 8.67 | 0.01 | |
| Chromium | | <0.01 | 0.01 | |
| Copper | | <0.006 | 0.006 | |
| Iron | | 0.556 | 0.02 | |
| Lead | | <0.005 | 0.005 | |
| | | | | |
| Cyanide | mg/L | <0.1 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2240 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 310 | <1 | SM 9230 C |
| Fluoride | mg/L | 0.36 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |
| MTF for fecal coliform | MPN/100ml | 500 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 7000 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.00 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO ₃ | 272 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1350 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

City of Oceanside
Water Utilities Laboratory
Analytical Report

MAY 15 P 12:56

Report Date September 16, 1998

Sample Location Bonsall Bridge

Laboratory ID AA04902

Sampler's Name LEDESMA

Sample Type GRAB

Collection Time 06/01/98 09:35

Released to Lab 06/01/98 11:40

| Analyte | Units | Result | MDL | Method |
|--------------------------------------|-------|--------|--------|-----------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Chloride | | 206 | 2 | |
| Nitrate | | 3.24 | 0.23 | |
| Sulfate | | 326 | 2 | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Manganese | | 0.093 | 0.002 | |
| Total Hardness as CaCO ₃ | | 558 | 1 | |
| Calcium Hardnes as CaCO ₃ | | 302 | 0.5 | |
| Zinc | | <0.008 | 0.008 | |
| Strontium | | 0.483 | 0.0006 | |
| Sodium | | 141 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Silicon | | 14.8 | 0.01 | |
| Potassium | | 5.30 | 0.2 | |
| Nickel | | <0.01 | 0.01 | |
| Magnesium | | 62.2 | 0.2 | |
| Iron | | 0.162 | 0.02 | |
| Copper | | <0.006 | 0.006 | |
| Chromium | | <0.01 | 0.01 | |

| Analyte | Units | Result | MDL | Method |
|--|----------------|--------------|-------|--------------|
| Calcium | | 121 | 0.2 | |
| Boron | | 0.116 | 0.01 | |
| Beryllium | | <0.001 | 0.001 | |
| Barium | | 0.073 | 0.01 | |
| Aluminum | | 0.338 | 0.05 | |
| Arsenic by Graphite Furnace AA | ug/L | 3 | 2 | EPA 200.9 |
| Cadmium by Graphite Furnace AA | ug/L | <1 | 1 | EPA 200.9 |
| CYANIDE | mg/L | Not detected | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 1700 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 210 | <1 | SM 9230 C |
| FLUORIDE | mg/L | 0.32 | .03 | 4500 F B+C |
| Mercury Drinking water and waste water | ug/L | <1 | 0.2 | EPA 245.1 |
| Methylene Blue Active Substances | mg/L | 0.06 | 0.05 | SM 5540 C |
| Molybdenum by Graphite Furnace AA | ug/L | 10.8 | 4 | EPA 200.9 |
| MTF for fecal coliform | MPN/100ml | 110 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 700 | --- | SM 9221 B |
| AMMONIA IN DW BY PROBE | mg/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 7.98 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO3 | 220 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1130 | 14 | SM 2540 C |
| Thallium by Graphite Furnace AA | ug/L | <1 | 1 | EPA 200.9 |

**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date ENTER DATE

Sample Location Douglas Br

Laboratory ID AA04900

Sampler's Name LEDESMA

Sample Type GRAB

Composite Start

Collection Time 06/01/98 10:02

Released to Lab 06/01/98 11:40

| Analyte | Units | Result | MDL | Method |
|--------------------------------------|-------|--------|--------|-----------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Chloride | | 2160 | 0.1 | |
| Nitrate | | 3.21 | 0.11 | |
| Sulfate | | 328 | 0.4 | |
| | | | | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Manganese | | 0.058 | 0.002 | |
| Total Hardness as CaCO ₃ | | 546 | 1 | |
| Calcium Hardnes as CaCO ₃ | | 295 | 0.5 | |
| Zinc | | <0.008 | 0.008 | |
| Strontium | | 0.496 | 0.0006 | |
| Sodium | | 142 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Silicon | | 13.6 | 0.01 | |
| Potassium | | 5.14 | 0.2 | |
| Nickel | | 0.01 | 0.01 | |
| Magnesium | | 60.9 | 0.2 | |
| Iron | | 0.149 | 0.02 | |
| Copper | | <0.006 | 0.006 | |
| Chromium | | <0.01 | 0.01 | |

| Analyte | Units | Result | MDL | Method |
|--|----------------|--------------|-------|--------------|
| Calcium | | 118 | 0.2 | |
| Boron | | 0.123 | 0.01 | |
| Beryllium | | <0.001 | 0.001 | |
| Barium | | 0.073 | 0.01 | |
| Aluminum | | 0.293 | 0.05 | |
| | | | | |
| Arsenic by Graphite Furnace AA | ug/L | 2 | 2 | EPA 200.9 |
| BLANK NH3 IN DW BY PROBE | mg/L | na | 0.1 | 4500 NH3 D |
| Cadmium by Graphite Furnace AA | ug/L | <1 | 1 | EPA 200.9 |
| CYANIDE | mg/L | Not detected | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 1660 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 180 | <1 | SM 9230 C |
| FLUORIDE | mg/L | 0.32 | .03 | 4500 F B+C |
| Mercury Drinking water and waste water | ug/L | <1 | 0.2 | EPA 245.1 |
| Methylene Blue Active Substances | mg/L | 0.06 | 0.05 | SM 5540 C |
| Molybdenum by Graphite Furnace AA | ug/L | 10.9 | 4 | EPA 200.9 |
| MTF for fecal coliform | MPN/100ml | 170 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 800 | --- | SM 9221 B |
| AMMONIA IN DW BY PROBE | mg/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.35 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO3 | 225 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1150 | 14 | SM 2540 C |
| Thallium by Graphite Furnace AA | ug/L | <1 | 1 | EPA 200.9 |

**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date September 16, 1998

Sample Location Benet Br

Laboratory ID AA04901

Sampler's Name LEDESMA

Sample Type GRAB

Collection Time 06/01/98 10:30

Released to Lab 06/01/98 11:40

| Analyte | Units | Result | MDL | Method |
|---------------------------------------|-------|--------|--------|-----------|
| Ion Chromatograph | Mg/l | --- | --- | EPA 300 |
| Chloride | | 226 | 0.1 | |
| Nitrate | | 2.40 | 0.23 | |
| Sulfate | | 330 | 0.4 | |
| | | | | |
| Metals by ICP | Mg/L | --- | --- | EPA 200.7 |
| Manganese | | 0.141 | 0.002 | |
| Total Hardness as CaCO ₃ | | 580 | 1 | |
| Calcium Hardness as CaCO ₃ | | 315 | 0.5 | |
| Zinc | | 0.008 | 0.008 | |
| Strontium | | 0.513 | 0.0006 | |
| Sodium | | 156 | 1 | |
| Silver | | <0.01 | 0.01 | |
| Silicon | | 8.25 | 0.0006 | |
| Potassium | | 5.22 | 0.2 | |
| Nickel | | <0.01 | 0.01 | |
| Magnesium | | 64.5 | 0.2 | |
| Iron | | 0.284 | 0.02 | |
| Copper | | <0.006 | 0.006 | |
| Chromium | | <0.01 | 0.01 | |

| Analyte | Units | Result | MDL | Method |
|--|----------------|--------------|-------|--------------|
| Calcium | | 126 | 0.2 | |
| Boron | | 0.129 | 0.01 | |
| Beryllium | | <0.001 | 0.001 | |
| Barium | | 0.072 | 0.01 | |
| Aluminum | | 0.288 | 0.05 | |
| Arsenic by Graphite Furnace AA | Ug/L | 2 | 2 | EPA 200.9 |
| Cadmium by Graphite Furnace AA | Ug/L | <1 | 1 | EPA 200.9 |
| CYANIDE | Mg/L | Not detected | 0.01 | 4500 CN C+E |
| Conductivity | Umhos/cm | 1610 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 210 | <1 | SM 9230 C |
| FLUORIDE | Mg/L | 0.32 | .03 | 4500 F B+C |
| Mercury Drinking water and waste water | Ug/L | <1 | 0.2 | EPA 245.1 |
| Methylene Blue Active Substances | Mg/L | 0.05 | 0.05 | SM 5540 C |
| Molybdenum by Graphite Furnace AA | Ug/L | 12.9 | 4 | EPA 200.9 |
| MTF for fecal coliform | MPN/100ml | 220 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 1700 | --- | SM 9221 B |
| AMMONIA IN DW BY PROBE | Mg/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | PH | 8.31 | --- | SM 4500-H+ B |
| Total Alkalinity | Mg/L as CaCO3 | 232 | --- | SM 2320 B |
| Total Dissolved Solids | Mg/L | 1090 | 14 | SM 2540 C |
| Thallium by Graphite Furnace AA | Ug/L | <1 | 1 | EPA 200.9 |

City of Oceanside
Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

phone: 760-966-8772
fax: 760-966-8770

P.O. #

Date: June 1, 1998

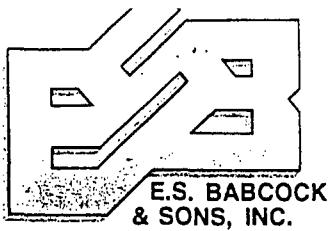
| Samples | Date/Time Sampled | Analyze for: |
|------------------------------------|-------------------|---|
| San Luis Rey River @ Benet Road | 01-Jun-98 @ 1030 | EPA 507 - N-P pesticides EPA 508 - Chlorinated pesticides/PCBs EPA 515 - Chlorinated herbicides EPA 524.2 - Volatile organic compounds |

The above sample(s) were released to E. S. Babcock & Sons by:

Mary Gonzales Lab Supervisor Mary Gonzales 6/1/98 @ 10:30
Name and title (print) Signature Date/time

The above sample(s) were received by E. S. Babcock & Sons by:

Name and title (print) Signature Date/time



ESTABLISHED 1908

E.S. BABCOCK
& SONS, INC.6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

EX

ORGANIC CHEMICAL ANALYSIS (3/96) *** AMENDED REPORT ***

Sample ID No. L42280-005

Signature Lab *Alice M. Naylor*
Director:

Employed By: City of Oceanside

Date/Time Sample Date/Time Sample Date Analyses

Collected: 98/06/01/1030 Received @ Lab: 98/06/02/0920 Completed: 98/06/06

Date of Report: 07/09/98

Laboratory

Name: E.S. BABCOCK & SONS

Name of Sampler:

Date/Time Sample

Collected: 98/06/01/1030

Date/Time Sample

Received @ Lab: 98/06/02/0920

Date Analyses

Completed: 98/06/06

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SAN LUIS REY RIVER @ BENET ROAD

* User ID: WAT

Station Number:

*

* Date/Time of Sample: |98|06|01|1030|

Laboratory Code: 4790

*

* YY MM DD TTTT

YY MM DD

*

* Submitted by:

Date Analysis Completed: |98|06|06|

*

Phone #: _____

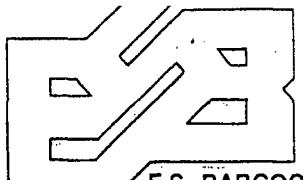
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PAGE 1 OF 3

REGULATED ORGANIC CHEMICALS

Neg Def No. 524.2

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--|---------|------------------|----------|----------|
| 524.2 | Bromodichloromethane | 32101 | ND | | 0.5 |
| 524.2 | Bromoform | 32104 | ND | | 0.5 |
| 524.2 | Chloroform (Trichloromethane) | 32106 | ND | | 0.5 |
| 524.2 | Dibromochloromethane | 32105 | ND | | 0.5 |
| 524.2 | Total Trihalomethanes (THM'S/ TTHM) | 82080 | ND | 100 | 0.5 |
| 524.2 | Benzene | 34030 | ND | 1 | 0.5 |
| 524.2 | Carbon Tetrachloride | 32102 | ND | .5 | 0.5 |
| 524.2 | 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | 600 | 0.5 |
| 524.2 | 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 5 | 0.5 |
| 524.2 | 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | .5 | 0.5 |
| 524.2 | 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | 6 | 0.5 |
| 524.2 | cis-1,2-Dichloroethylene (c-1,2-DCE) | 77093 | ND | 6 | 0.5 |
| 524.2 | trans-1,2-Dichloroethylene (t-1,2-DCE) | 34546 | ND | 10 | 0.5 |
| 524.2 | Dichloromethane (Methylene Chloride) | 34423 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloropropane | 34541 | ND | 5 | 0.5 |
| 524.2 | Total 1,3-Dichloropropene | 34561 | ND | .5 | 0.5 |
| 524.2 | Ethyl Benzene | 34371 | ND | 700 | 0.5 |
| 524.2 | Monochlorobenzene (Chlorobenzene) | 34301 | ND | 70 | 0.5 |
| 524.2 | Styrene | 77128 | ND | 100 | 0.5 |
| 524.2 | 1,1,2,2-Tetrachloroethane | 34516 | ND | 1 | 0.5 |
| 524.2 | Tetrachloroethylene (PCE) | 34475 | ND | 5 | 0.5 |
| 524.2 | Toluene | 34010 | ND | 150 | 0.5 |
| 524.2 | 1,2,4-Trichlorobenzene | 34551 | ND | 70 | 0.5 |
| 524.2 | 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | 200 | 0.5 |
| 524.2 | 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | 5 | 0.5 |
| 524.2 | Trichloroethylene (TCE) | 39180 | ND | 5 | 0.5 |
| 524.2 | Trichlorofluoromethane (FREON 11) | 34488 | ND | 150 | 5.0 |



ESTABLISHED 1906

E.S. BABCOCK
& SONS, INC.

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

*** AMENDED REPORT ***

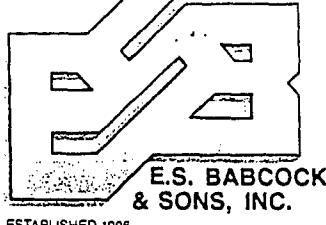
PAGE 2 OF 3

REGULATED ORGANIC CHEMICALS CONTINUED L42280-005

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|---|---------|------------------|----------|----------|
| 524.2 | Trichlorotrifluoroethane (FREON 113) | 81611 | ND | 1200 | 10.0 |
| 524.2 | Vinyl Chloride (VC) | 39175 | ND | .5 | 0.5 |
| 524.2 | m,p-Xylene | A-014 | ND | | 0.5 |
| 524.2 | o-Xylene | 77135 | ND | | 0.5 |
| 524.2 | Total Xylenes (m,p, & o) | 81551 | ND | 1750 | 0.5 |
| 508 | Endrin | 39390 | ND | 2 | 0.10 |
| 508 | Lindane (gamma-BHC) | 39340 | ND | .2 | 0.20 |
| 508 | Methoxychlor | 39480 | ND | 40 | 10.0 |
| 508 | Toxaphene | 39400 | ND | 3 | 1.0 |
| 508 | Chlordane | 39350 | ND | :1 | 0.1 |
| 508 | Heptachlor | 39410 | ND | .01 | 0.01 |
| 508 | Heptachlor Epoxide | 39420 | ND | .01 | 0.01 |
| | Atrazine (AATREX) | 39033 | ND | 3 | 1.0 |
| 525.2 | Molinate (ORDRAM) | 82199 | ND | 20 | 2.0 |
| 525.2 | Simazine (PRINCEP) | 39055 | ND | 4 | 1.0 |
| 525.2 | Thiobencarb (BOLERO) | A-001 | ND | 70 | 1.0 |
| 525.2 | Alachlor (ALANEX) | 77825 | ND | 2 | 1.0 |
| 515.1 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2.0 |
| 515.1 | 2,4-D | 39730 | ND | 70 | 10.0 |
| 515.1 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1.0 |
| 515.1 | Dalapon | 38432 | ND | 200 | 10.0 |
| 515.1 | Dinoseb (DNBP) | 81287 | ND | 7 | 2.0 |
| 508 | Hexachlorobenzene | 39700 | ND | 1 | 0.5 |
| 508 | Hexachlorocyclopentadiene | 34386 | ND | 50 | 1.0 |
| 515.1 | Pentachlorophenol (PCP) | 39032 | ND | 1 | 0.2 |
| 515.1 | Picloram | 39720 | ND | 500 | 1.0 |
| 508 | Polychlorinated Biphenyls (Total PCB's) | 39516 | ND | .5 | 0.5 |

UNREGULATED ORGANIC CHEMICALS

| | | | | |
|-------|---------------------------------|-------|----|-----|
| 524.2 | Bromobenzene | 81555 | ND | 0.5 |
| 524.2 | Bromochloromethane | A-012 | ND | 0.5 |
| 524.2 | Bromomethane (Methyl Bromide) | 34413 | ND | 0.5 |
| 524.2 | n-Butylbenzene | A-010 | ND | 0.5 |
| 524.2 | sec-Butylbenzene | 77350 | ND | 0.5 |
| 524.2 | tert-Butylbenzene | 77353 | ND | 0.5 |
| 524.2 | Chloroethane | 34311 | ND | 0.5 |
| 524.2 | 2-Chloroethylvinyl Ether | 34576 | ND | 1.0 |
| 524.2 | Chloromethane (Methyl Chloride) | 34418 | ND | 0.5 |
| 524.2 | 2-Chlorotoluene | A-008 | ND | 0.5 |
| 524.2 | 4-Chlorotoluene | A-009 | ND | 0.5 |
| 524.2 | Dibromomethane | 77596 | ND | 0.5 |
| 524.2 | 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | 0.5 |
| 524.2 | Dichlorodifluoromethane | 34668 | ND | 1.0 |
| 524.2 | 1,3-Dichloropropane | 77173 | ND | 0.5 |
| 524.2 | 2,2-Dichloropropane | 77170 | ND | 0.5 |
| 524.2 | 1,1-Dichloropropene | 77168 | ND | 0.5 |



ESTABLISHED 1908

*** AMENDED REPORT ***

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

PAGE 3 OF 3

UNREGULATED ORGANIC CHEMICALS CONTINUED L42280-005

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | Hexachlorobutadiene | 34391 | ND | | 0.5 |
| 524.2 | Isopropylbenzene (Cumene) | 77223 | ND | | 0.5 |
| 524.2 | p-Isopropyltoluene | A-011 | ND | | 0.5 |
| 524.2 | Methyl tert-Butyl Ether (MTBE) | A-030 | ND | | 5.0 |
| 524.2 | Naphthalene | 34696 | ND | | 0.5 |
| 524.2 | n-Propylbenzene | 77224 | ND | | 0.5 |
| 524.2 | 1,1,1,2-Tetrachloroethane | 77562 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichlorobenzene | 77613 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichloropropane | 77443 | ND | | 0.5 |
| 524.2 | 1,2,4-Trimethylbenzene | 77222 | ND | | 0.5 |
| 524.2 | 1,3,5-Trimethylbenzene | 77226 | ND | | 0.5 |
| 524.2 | Methyl Ethyl Ketone (MEK, Butanone) | 81595 | ND | | 5.0 |
| 524.2 | Methyl Isobutyl Ketone (MIBK) | 81596 | ND | | 5.0 |
| 524.2 | bis (2-Chloroethyl) Ether | 34273 | ND | | 5.0 |
| 508 | Aldrin | 39330 | ND | | 0.075 |
| 525.2 | Bromacil (HYVAR) | 82198 | ND | | 10.0 |
| 525.2 | Butachlor | 77860 | ND | | 0.38 |
| 508 | Chlorothalonil (DACONIL, BRAVO) | 70314 | ND | | 5.0 |
| 525.2 | Diazinon | 39570 | ND | | 0.25 |
| 515.1 | Dicamba (BANVEL) | 82052 | ND | | 1.5 |
| 508 | Dieldrin | 39380 | ND | | 0.02 |
| 525.2 | Dimethoate (CYGON) | 38458 | ND | | 10.0 |
| 525.2 | Diuron | 39650 | ND | | 1.0 |
| 525.2 | Metolachlor | 39356 | ND | | |
| 525.2 | Metribuzin | 81408 | ND | | |
| 525.2 | Prometryn (CAPAROL) | 39057 | ND | | 2.0 |
| 508 | Propachlor | 38533 | ND | | 0.5 |



CITY OF OCEANSIDE

CITY OF OCEANSIDE
WATER QUALITY
WATER UTILITIES DEPARTMENT LABORATORY

LABORATORY REPORT P 12:56

Barry Martin
Assistant Water Utilities Director
City of Oceanside
300 North Coast Highway
Oceanside, California 92054

Sample ID: San Luis Rey River
Benet Road bridge
Date sampled: 16-Mar-98
Date sample received: 16-Mar-98

Sample ID: AA02609

| Analyte | Method | Results |
|---------------------------------------|-----------------------|----------------|
| Chloride | 4110 B | 233 mg/L |
| Cyanide | 4500CN C&E | ND <0.01 mg/L |
| Conductivity | 2510 B | 1760 umhos/cm |
| Fluoride | 4110 B | 0.40 mg/L |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.1 mg/L |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/L |
| Nitrate as nitrogen | 4110 B | 5.50 mg/L |
| MBAS | 5540 C | ND <0.05 mg/L |
| pH | 4500-H B | 8.16 |
| Sulfate | 4110 B | 330 mg/L |
| Total dissolved solids | 2540 C | 1187 mg/L |
| Total alkalinity as CaCO ₃ | 2320 B | 235 mg/L |
| Total hardness as CaCO ₃ | 2340 B | 600 mg/L |
| Total coliform | 9221 B | 1100 MPN/100ml |
| Fecal coliform | 9221 E | 80 MPN/100ml |
| Enterococcus | 9230 C | 95 MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Benet Road Bridge

Date sampled: 16-Mar-98

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | 0.16 mg/L |
| Antimony | 200.9 * | ND <6 ug/L |
| Arsenic | 200.9 * | 2 ug/L |
| Barium | 200.7 * | 0.079 mg/L |
| Beryllium | 200.7 * | ND <0.3 ug/L |
| Boron | 200.7 * | 0.146 mg/L |
| Calcium | 200.7 * | 128 mg/L |
| Cadmium | 200.9 * | ND <1 ug/L |
| Chromium | 200.7 * | ND <0.01 mg/L |
| Copper | 200.7 * | ND <0.05 mg/L |
| Iron | 200.7 * | 0.116 mg/L |
| Lead | 200.9 * | ND <5 ug/L |
| Magnesium | 200.7 * | 68.3 mg/L |
| Manganese | 200.7 * | 0.070 mg/L |
| Mercury | 245.1 * | ND <1 ug/L |
| Molybdenum | 200.9 * | 12.5 ug/L |
| Nickel | 200.7 * | ND <0.01 mg/L |
| Potassium | 200.7 * | 6.80 mg/L |
| Selenium | 200.9 * | ND <5 ug/L |
| Silicon | 200.7 * | 13.6 mg/L |
| Silver | 200.7 * | ND <0.01 mg/L |
| Sodium | 200.7 * | 175 mg/L |
| Strontium | 200.7 * | 0.611 mg/L |
| Thallium | 200.9 * | ND <1 ug/L |
| Zinc | 200.7 * | ND <0.008 mg/L |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples.

May 1994.

City of Oceanside
Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

phone: 760-966-8772
fax: 760-966-8770

P.O. # 53621

Date: March 16, 1998

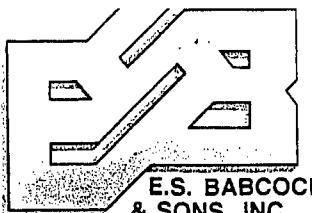
| Samples | Date/Time Sampled | Analyze for: |
|------------------------------------|----------------------|--|
| San Luis Rey River @ Benet Road | 16-Mar-98 @ 0923 hrs | EPA 507 - N-P pesticides EPA 508 - Chlorinated pesticides/PCBs EPA 515 - Chlorinated herbicides EPA 524.2 - Volatile organic compounds EPA 525.2 - Semi-volatile organic compounds |

The above sample(s) were released to E. S. Babcock & Sons by:

Mary Gonzales Lab Supervisor Mary Gonzales 3/16/98 @ 1230
Name and title (print) Signature Date/time

The above sample(s) were received by E. S. Babcock & Sons by:

Dilworth Bridgeman - Sample Receiving D. Bridgeman 03/17/98 0915
Name and title (print) Signature Date/time



ESTABLISHED 1906

E.S. BABCOCK
& SONS, INC.

ORGANIC CHEMICAL ANALYSIS (3/96)

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

EX

Date of Report: 03/31/98

Sample ID No. L39514-001

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler:

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 98/03/16/0923

Received @ Lab: 98/03/17/0915

Completed: 98/03/26

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SAN LUIS REY RIVER

* User ID: WAT

Station Number:

* Date/Time of Sample: |98|03|16|0923|

* Laboratory Code: 4790

* YY MM DD TTTT

* YY MM DD

* Submitted by: _____

* Date Analysis Completed: |98|03|26|

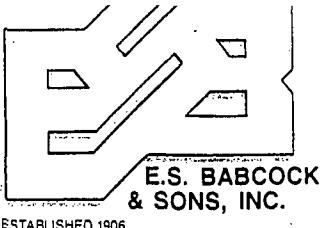
* Phone #: _____

PAGE 1 OF 3

REGULATED ORGANIC CHEMICALS

Neg Def No. 524.2

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--|---------|------------------|----------|----------|
| 524.2 | Bromodichloromethane | 32101 | ND | | 0.1 |
| 524.2 | Bromoform | 32104 | ND | | 0.1 |
| 524.2 | Chloroform (Trichloromethane) | 32106 | ND | | 0.1 |
| 524.2 | Dibromochloromethane | 32105 | ND | | 0.1 |
| 524.2 | Total Trihalomethanes (THM'S/ TTHM) | 82080 | ND | 100 | 0.1 |
| 524.2 | Benzene | 34030 | ND | 1 | 0.1 |
| 524.2 | Carbon Tetrachloride | 32102 | ND | .5 | 0.1 |
| 524.2 | 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | 600 | 0.1 |
| 524.2 | 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 5 | 0.1 |
| 524.2 | 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | 5 | 0.1 |
| 524.2 | 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | .5 | 0.1 |
| 524.2 | 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | 6 | 0.1 |
| 524.2 | cis-1,2-Dichloroethylene (c-1,2-DCE) | 77093 | ND | 6 | 0.1 |
| 524.2 | trans-1,2-Dichloroethylene (t-1,2-DCE) | 34546 | ND | 10 | 0.1 |
| 524.2 | Dichloromethane (Methylene Chloride) | 34423 | ND | 5 | 0.1 |
| 524.2 | 1,2-Dichloropropane | 34541 | ND | 5 | 0.1 |
| 524.2 | Total 1,3-Dichloropropene | 34561 | ND | .5 | 0.1 |
| 524.2 | Ethyl Benzene | 34371 | ND | 700 | 0.1 |
| 524.2 | Monochlorobenzene (Chlorobenzene) | 34301 | ND | 70 | 0.1 |
| 524.2 | Styrene | 77128 | ND | 100 | 0.1 |
| 524.2 | 1,1,2,2-Tetrachloroethane | 34516 | ND | 1 | 0.1 |
| 524.2 | Tetrachloroethylene (PCE) | 34475 | ND | 5 | 0.1 |
| 524.2 | Toluene | 34010 | ND | 150 | 0.1 |
| 524.2 | 1,2,4-Trichlorobenzene | 34551 | ND | 70 | 0.1 |
| 524.2 | 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | 200 | 0.1 |
| 524.2 | 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | 5 | 0.1 |
| 524.2 | Trichloroethylene (TCE) | 39180 | ND | 5 | 0.1 |
| 524.2 | Trichlorofluoromethane (FREON 11) | 34488 | ND | 150 | 5. |



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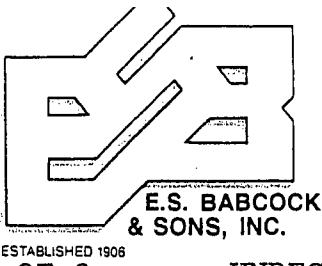
PAGE 2 OF 3

REGULATED ORGANIC CHEMICALS CONTINUED L39514-001

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|---|---------|------------------|----------|----------|
| 524.2 | Trichlorotrifluoroethane (FREON 113) | 81611 | ND | 1200 | 10.0 |
| 524.2 | Vinyl Chloride (VC) | 39175 | ND | .5 | 0.5 |
| 524.2 | m,p-Xylene | A-014 | ND | | 0.5 |
| 524.2 | o-Xylene | 77135 | ND | | 0.5 |
| 524.2 | Total Xylenes (m,p, & o) | 81551 | ND | 1750 | 0.5 |
| 508 | Endrin | 39390 | ND | 2 | 0.1 |
| 508 | Lindane (gamma-BHC) | 39340 | ND | .2 | 0.2 |
| 508 | Methoxychlor | 39480 | ND | 40 | 10.0 |
| 508 | Toxaphene | 39400 | ND | 3 | 1.0 |
| 508 | Chlordane | 39350 | ND | .1 | 0.1 |
| 525.2 | Diethylhexylphthalate (DEHP) | 39100 | ND | 4 | 3.0 |
| 508 | Heptachlor | 39410 | ND | .01 | 0.01 |
| 508 | Heptachlor Epoxide | 39420 | ND | .01 | 0.01 |
| 525.2 | Atrazine (ATREX) | 39033 | ND | 3 | 1.0 |
| 525.2 | Molinate (ORDRAM) | 82199 | ND | 20 | 2.0 |
| 525.2 | Simazine (PRINCEP) | 39055 | ND | 4 | 1.0 |
| 525.2 | Thiobencarb (BOLERO) | A-001 | ND | 70 | 1.0 |
| 525.2 | Alachlor (ALANEX) | 77825 | ND | 2 | 1.0 |
| 515.1 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2.0 |
| 525.2 | Benzo(a)pyrene | 34247 | ND | .2 | 0. |
| 515.1 | 2,4-D | 39730 | ND | 70 | 10.0 |
| 515.1 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1.0 |
| 515.1 | Dalapon | 38432 | ND | 200 | 10.0 |
| 515.1 | Dinoseb (DNBP) | 81287 | ND | 7 | 2.0 |
| 515.1 | Diquat | 78885 | ND | 20 | 4.0 |
| 525.2 | Di(2-ethylhexyl) Adipate | A-026 | ND | 400 | 5.0 |
| 508 | Hexachlorobenzene | 39700 | ND | 1 | 0.1 |
| 508 | Hexachlorocyclopentadiene | 34386 | ND | 50 | 1.0 |
| 515.1 | Pentachlorophenol (PCP) | 39032 | ND | 1 | 0.1 |
| 515.1 | Picloram | 39720 | ND | 500 | 1.0 |
| 508 | Polychlorinated Biphenyls (Total PCB's) | 39516 | ND | .5 | 0.1 |

UNREGULATED ORGANIC CHEMICALS

| | | | | |
|-------|---------------------------------|-------|----|----|
| 524.2 | Bromobenzene | 81555 | ND | 0. |
| 524.2 | Bromoform | A-012 | ND | 0. |
| 524.2 | Bromomethane (Methyl Bromide) | 34413 | ND | 0. |
| 524.2 | n-Butylbenzene | A-010 | ND | 0. |
| 524.2 | sec-Butylbenzene | 77350 | ND | 0. |
| 524.2 | tert-Butylbenzene | 77353 | ND | 0. |
| 524.2 | Chloroethane | 34311 | ND | 0. |
| 524.2 | 2-Chloroethylvinyl Ether | 34576 | ND | 1. |
| 524.2 | Chloromethane (Methyl Chloride) | 34418 | ND | 0. |
| 524.2 | 2-Chlorotoluene | A-008 | ND | 0. |
| 524.2 | 4-Chlorotoluene | A-009 | ND | 0. |
| 524.2 | Dibromomethane | 77596 | ND | 0. |
| 524.2 | 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | 0. |



6100 Quail Valley Court Riverside, CA 92507
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PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

PAGE 3 OF 3

UNREGULATED ORGANIC CHEMICALS CONTINUED L39514-001

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | Dichlorodifluoromethane | 34668 | ND | | 1.0 |
| 524.2 | 1,3-Dichloropropane | 77173 | ND | | 0.5 |
| 524.2 | 2,2-Dichloropropane | 77170 | ND | | 0.5 |
| 524.2 | 1,1-Dichloropropene | 77168 | ND | | 0.5 |
| 524.2 | Hexachlorobutadiene | 34391 | ND | | 0.5 |
| 524.2 | Isopropylbenzene (Cumene) | 77223 | ND | | 0.5 |
| 524.2 | p-Isopropyltoluene | A-011 | ND | | 0.5 |
| 524.2 | Methyl tert-Butyl Ether (MTBE) | A-030 | ND | | 5.0 |
| 524.2 | Naphthalene | 34696 | ND | | 0.5 |
| 524.2 | n-Propylbenzene | 77224 | ND | | 0.5 |
| 524.2 | 1,1,1,2-Tetrachloroethane | 77562 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichlorobenzene | 77613 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichloropropane | 77443 | ND | | 0.5 |
| 524.2 | 1,2,4-Trimethylbenzene | 77222 | ND | | 0.5 |
| 524.2 | 1,3,5-Trimethylbenzene | 77226 | ND | | 0.5 |
| 524.2 | Methyl Ethyl Ketone (MEK, Butanone) | 81595 | ND | | 5.0 |
| 524.2 | Methyl Isobutyl Ketone (MIBK) | 81596 | ND | | 5.0 |
| 524.2 | bis (2-Chloroethyl) Ether | 34273 | ND | | 5.0 |
| 508 | Aldrin | 39330 | ND | | 0.075 |
| 525.2 | Bromacil (HYVAR) | 82198 | ND | | 10.0 |
| 525.2 | Butachlor | 77860 | ND | | 0.35 |
| 508 | Chlorothalonil (DACONIL, BRAVO) | 70314 | ND | | 5.0 |
| 525.2 | Diazinon | 39570 | ND | | 0.25 |
| 515.1 | Dicamba (BANVEL) | 82052 | ND | | 1.0 |
| 508 | Dieldrin | 39380 | ND | | 0.02 |
| 525.2 | Dimethoate (CYGON) | 38458 | ND | | 10.0 |
| 525.2 | Diuron | 39650 | ND | | 1.0 |
| 525.2 | Metolachlor | 39356 | ND | | |
| 525.2 | Metribuzin | 81408 | ND | | |
| 525.2 | Prometryn (CAPAROL) | 39057 | ND | | 2.0 |
| 508 | Propachlor | 38533 | ND | | 0.5 |

Laboratory comments and description of any additional compounds found:

Notes: Benet Road



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

LABORATORY REPORT

Barry Martin
Assistant Water Utilities Director
City of Oceanside
300 North Coast Highway
Oceanside, California 92054

Sample ID: San Luis Rey River
Douglas Road Bridge
Date sampled: 16-Mar-98
Date sample received: 16-Mar-98

Sample ID: AA02610

| Analyte | Method | Results |
|---------------------------------------|-----------------------|----------------|
| Chloride | 4110 B | 230 mg/L |
| Cyanide | 4500CN C&E | ND <0.01 mg/L |
| Conductivity | 2510 B | 1730 umhos/cm |
| Fluoride | 4110 B | 0.34 mg/L |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.10 mg/L |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/L |
| Nitrate as nitrogen | 4110 B | 6.03 mg/L |
| MBAS | 5540 C | ND <0.05 mg/L |
| pH | 4500-H B | 8.18 |
| Sulfate | 4110 B | 335 mg/L |
| Total dissolved solids | 2540 C | 1180 mg/L |
| Total alkalinity as CaCO ₃ | 2320 B | 235 mg/L |
| Total hardness as CaCO ₃ | 2340 B | 603 mg/L |
| | | |
| Total coliform | 9221 B | 1300 MPN/100ml |
| Fecal coliform | 9221 E | 220 MPN/100ml |
| Enterococcus | 9230 C | 460 MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Douglas Road Bridge

Date sampled: 16-Mar-98

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | 0.21 mg/L |
| Antimony | 200.9 * | ND <6 ug/L |
| Arsenic | 200.9 * | 5 ug/L |
| Barium | 200.7 * | 0.080 mg/L |
| Beryllium | 200.7 * | ND <0.3 ug/L |
| Boron | 200.7 * | 0.137 mg/L |
| Calcium | 200.7 * | 128 mg/L |
| Cadmium | 200.9 * | ND <1 ug/L |
| Chromium | 200.7 * | ND <0.01 mg/L |
| Copper | 200.7 * | ND <0.05 mg/L |
| Iron | 200.7 * | 0.163 mg/L |
| Lead | 200.9 * | ND <5 ug/L |
| Magnesium | 200.7 * | 68.8 mg/L |
| Manganese | 200.7 * | 0.058 mg/L |
| Mercury | 245.1 * | ND <1 ug/L |
| Molybdenum | 200.9 * | 11.7 ug/L |
| Nickel | 200.7 * | ND <0.01 mg/L |
| Potassium | 200.7 * | 6.52 mg/L |
| Selenium | 200.9 * | ND <5 ug/L |
| Silicon | 200.7 * | 15.4 mg/L |
| Silver | 200.7 * | ND <0.01 mg/L |
| Sodium | 200.7 * | 167 mg/L |
| Strontium | 200.7 * | 0.588 mg/L |
| Thallium | 200.9 * | ND <1 ug/L |
| Zinc | 200.7 * | ND <0.008 mg/L |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples,
May 1994.



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

LABORATORY REPORT

Barry Martin
Assistant Water Utilities Director
City of Oceanside
300 North Coast Highway
Oceanside, California 92054

Sample ID: San Luis Rey River
Bonsall Bridge
Date sampled: 16-Mar-98
Date sample received: 16-Mar-98

Sample ID: AA02611

| Analyte | Method | Results |
|---------------------------------------|-----------------------|---------------|
| Chloride | 4110 B | 216 mg/L |
| Cyanide | 4500CN C&E | ND <0.01 mg/L |
| Conductivity | 2510 B | 1700 umhos/cm |
| Fluoride | 4110 B | 0.34 mg/L |
| Ammonia as nitrogen | 4500NH ₃ D | ND <0.10 mg/L |
| Nitrite as nitrogen | 4110 B | ND <0.01 mg/L |
| Nitrate as nitrogen | 4110 B | 6.18 mg/L |
| MBAS | 5540 C | ND <0.05 mg/L |
| pH | 4500-H B | 7.98 |
| Sulfate | 4110 B | 334 mg/L |
| Total dissolved solids | 2540 C | 1160 mg/L |
| Total alkalinity as CaCO ₃ | 2320 B | 225 mg/L |
| Total hardness as CaCO ₃ | 2340 B | 597 mg/L |
| | | |
| Total coliform | 9221 B | 300 MPN/100ml |
| Fecal coliform | 9221 E | 50 MPN/100ml |
| Enterococcus | 9230 C | 80 MPN/100ml |

Methods: Standard Methods for the Examination of Water and Wastewater, 18th edition.

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor

xc: water admin, file



CITY OF OCEANSIDE

WATER UTILITIES DEPARTMENT LABORATORY

page 2

San Luis Rey River, Bonsall Bridge

Date sampled: 16-Mar-98

LABORATORY REPORT

| Analyte | Method | Results |
|------------|---------|----------------|
| Aluminum | 200.7 * | 0.26 mg/L |
| Antimony | 200.9 * | ND <6 ug/L |
| Arsenic | 200.9 * | 5 ug/L |
| Barium | 200.7 * | 0.083 mg/L |
| Beryllium | 200.7 * | ND <0.3 ug/L |
| Boron | 200.7 * | 0.130 mg/L |
| Calcium | 200.7 * | 127 mg/L |
| Cadmium | 200.9 * | ND <1 ug/L |
| Chromium | 200.7 * | ND <0.01 mg/L |
| Copper | 200.7 * | ND <0.05 mg/L |
| Iron | 200.7 * | 0.211 mg/L |
| Lead | 200.9 * | ND <5 ug/L |
| Magnesium | 200.7 * | 68.0 mg/L |
| Manganese | 200.7 * | 0.218 mg/L |
| Mercury | 245.1 * | ND <1 ug/L |
| Molybdenum | 200.9 * | 10.4 ug/L |
| Nickel | 200.7 * | ND <0.01 mg/L |
| Potassium | 200.7 * | 6.52 mg/L |
| Selenium | 200.9 * | ND <5 ug/L |
| Silicon | 200.7 * | 15.8 mg/L |
| Silver | 200.7 * | ND <0.01 mg/L |
| Sodium | 200.7 * | 165 mg/L |
| Strontium | 200.7 * | 0.584 mg/L |
| Thallium | 200.9 * | ND <1 ug/L |
| Zinc | 200.7 * | ND <0.008 mg/L |

Methods: * EPA Methods for the Determination of Metals in Environmental Samples,
May 1994.



**E.S. BABCOCK
& SONS, INC.**

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SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

2001 MAY 15 P 12.56

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

Date of Report: 00/01/10

Sample ID No.: 163102-009

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler:N/A

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected:99/12/13/1210

Received @ Lab:99/12/14/0840

Completed:99/12/28

System

System

Name:OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source:BONSALL BRIDGE

* User ID: WAT

Station Number:

* Date/Time of Sample: |99|12|13|1210|

Laboratory Code: 4790

YY MM DD TTTT

YY MM DD

*

Date Analysis completed: |99|12|28|

* Submitted by: _____

Phone #: _____

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|-----|-----------------|---|---------|------------------|-----|
| | mg/L | Total Hardness (as CaCO ₃) (mg/L) | 00900 | 780 | - |
| | mg/L | Calcium (Ca) (mg/L) | 00916 | 160 | - |
| | mg/L | Magnesium (Mg) (mg/L) | 00927 | 89 | - |
| | mg/L | Sodium (NA) (mg/L) | 00929 | 220 | 0 |
| | mg/L | Potassium (K) (mg/L) | 00937 | 5 | - |

| Total Cations | Meq/L Value: |
|---------------|--------------|
|---------------|--------------|

| | | | | | |
|----|-------|---|-------|-----|-----|
| | mg/L | Total Alkalinity (AS CaCO ₃) (mg/L) | 00410 | 300 | |
| | mg/L | Hydroxide (OH) (mg/L) | 71830 | < 3 | |
| | mg/L | Carbonate (CO ₃) (mg/L) | 00445 | < 3 | |
| | mg/L | Bicarbonate (HCO ₃) (mg/L) | 00440 | 370 | |
| * | mg/L+ | Sulfate (SO ₄) (mg/L) | 00945 | 490 | .5 |
| * | mg/L+ | Chloride (Cl) (mg/L) | 00940 | 350 | |
| 45 | mg/L | Nitrate (as NO ₃) (mg/L) | 71850 | 5 | 2.0 |
| ** | mg/L | Fluoride (F) Temp. Depend. (mg/L) | 00951 | 0.4 | .1 |

| Total Anions | Meq/L Value: |
|--------------|--------------|
|--------------|--------------|

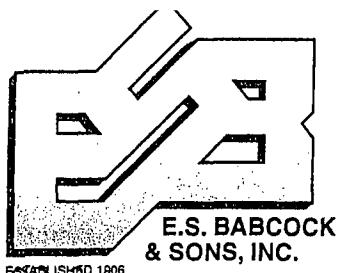
| | | | | |
|------|---|-------|------|--|
| | Std.Units+ PH (Laboratory) (Std.Units) | 00403 | 8.0 | |
| *** | umho/cm+ Specific Conductance (E.C.) (umho/cm) | 00095 | 2390 | |
| **** | mg/L+ Total Filterable Residue@180C(TDS) (mg/L) | 70300 | 1580 | |
| | Units Apparent Color (Unfiltered) (Units) | 00081 | | |
| | TON Odor Threshold at 60 C (TON) | 00086 | | |
| | NTU Lab Turbidity (NTU) | 82079 | | |
| 0.5 | mg/L+ MBAS (mg/L) | 38260 | 0.07 | |

* 250-500-600

** 0.6-1.7

*** 900-1600-2200

**** 500-1000-1500



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PAGE 2 OF 2 ESTABLISHED 1906

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e-mail: esbsales@aol.com
www.babcocklabs.com

INORGANIC CHEMICALS

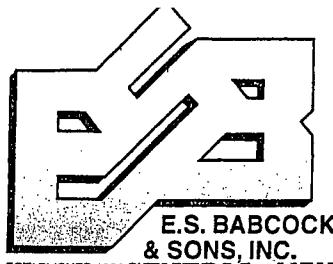
L63102-009

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|------|-----------------|----------------------------|---------|------------------|-------|
| 1000 | ug/L | Aluminum (Al) (ug/L) | 01105 | ND | 50.0 |
| 6 | ug/L | Antimony (ug/L) | 01097 | ND | 6.0 |
| 50 | ug/L | Arsenic (As) (ug/L) | 01002 | OK 2 | 2.0 |
| 1000 | ug/L | Barium (Ba) (ug/L) | 01007 | ND | 100.0 |
| 4 | ug/L | Beryllium (ug/L) | 01012 | ND | 1.0 |
| 5 | ug/L | Cadmium (Cd) (ug/L) | 01027 | ND | 1.0 |
| 50 | ug/L | Chromium (Total Cr) (ug/L) | 01034 | ND | 10.0 |
| 1000 | ug/L+ | Copper (Cu) (ug/L) | 01042 | ND | 50.0 |
| 300 | ug/L+ | Iron (Fe) (ug/L) | 01045 | ND | 100.0 |
| | ug/L | Lead (Pb) (ug/L) | 01051 | ND | 5.0 |
| 50 | ug/L+ | Manganese (Mn) (ug/L) | 01055 | ND | 30.0 |
| 2 | ug/L | Mercury (Hg) (ug/L) | 71900 | ND | 1.0 |
| 100 | ug/L | Nickel (ug/L) | 01067 | ND | 10.0 |
| 50 | ug/L | Selenium (Se) (ug/L) | 01147 | OK 6 | 5.0 |
| 100 | ug/L+ | Silver (Ag) (ug/L) | 01077 | ND | 10.0 |
| 2 | ug/L | Thallium (ug/L) | 01059 | ND | 1.0 |
| 5000 | ug/L | Zinc (Zn) (ug/L) | 01092 | ND | 50.0 |

ADDITIONAL ANALYSES

| | | | | | |
|------|------|--------------------------------|-------|----|-------|
| 1000 | ug/L | Nitrite as Nitrogen (N) (ug/L) | 00620 | ND | 400 |
| 200 | ug/L | Cyanide (ug/L) | 01291 | ND | 100.0 |

+ Indicates Secondary Drinking Water Standards



ESTABLISHED 1906

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GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

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e-mail: esbsales@aol.com
www.babcocklabs.com

Date of Report: 00/01/10

Sample ID No. 163102-010

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler:N/A

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected:99/12/13/0847

Received @ Lab:99/12/14/0840

Completed:99/12/28

System

System

Name:OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source:BENET RD

* User ID: WAT

Station Number:

* Date/Time of Sample: |99|12|13|0847|

Laboratory Code: 4790

YY MM DD TTTT

YY MM DD

*

Date Analysis completed: |99|12|28|

* Submitted by: _____

Phone #: _____

*

*

*

*

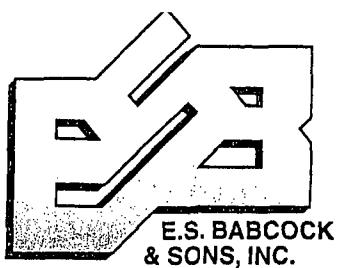
| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|-----|-----------------|---|---------|------------------|-----|
| | mg/L | Total Hardness (as CaCO ₃) (mg/L) | 00900 | 940 | |
| | mg/L | Calcium (Ca) (mg/L) | 00916 | 200 | |
| | mg/L | Magnesium (Mg) (mg/L) | 00927 | 100 | |
| | mg/L | Sodium (NA) (mg/L) | 00929 | 310 | OK |
| | mg/L | Potassium (K) (mg/L) | 00937 | 6 | |

| | |
|---------------|--------------|
| Total Cations | Meq/L Value: |
|---------------|--------------|

| | | | | | |
|----|-------|---|-------|-----|-----|
| | mg/L | Total Alkalinity (AS CaCO ₃) (mg/L) | 00410 | 360 | |
| | mg/L | Hydroxide (OH) (mg/L) | 71830 | < | 3 |
| | mg/L | Carbonate (CO ₃) (mg/L) | 00445 | < | 3 |
| | mg/L | Bicarbonate (HCO ₃) (mg/L) | 00440 | | 440 |
| * | mg/L+ | Sulfate (SO ₄) (mg/L) | 00945 | | 520 |
| * | mg/L+ | Chloride (Cl) (mg/L) | 00940 | | 560 |
| 45 | mg/L | Nitrate (as NO ₃) (mg/L) | 71850 | < | 2 |
| ** | mg/L | Fluoride (F) Temp. Depend. (mg/L) | 00951 | 0.4 | .1 |

| | |
|--------------|--------------|
| Total Anions | Meq/L Value: |
|--------------|--------------|

| | | | |
|--------------|---|-------------|-------|
| Std.Units+ | PH (Laboratory) (Std.Units) | 00403 | 7.7 |
| *** umho/cm+ | Specific Conductance (E.C.) (umho/cm) | 00095 | 3050 |
| **** mg/L+ | Total Filterable Residue@180C(TDS) (mg/L) | 70300 | 1990 |
| Units | Apparent Color (Unfiltered) (Units) | 00081 | |
| TON | Odor Threshold at 60 C (TON) | 00086 | |
| NTU | Lab Turbidity (NTU) | 82079 | |
| 0.5 | mg/L+ | MBAS (mg/L) | 38260 |
| | | | 0.08 |



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PAGE 2 OF 2

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www.babcocklabs.com

INORGANIC CHEMICALS

L63102-010

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES | DLR |
|------|-----------------|----------------------------|---------|----------|-------|
| 1000 | ug/L | Aluminum (Al) (ug/L) | 01105 | ND | 50.0 |
| 6 | ug/L | Antimony (ug/L) | 01097 | ND | 6.0 |
| 50 | ug/L | Arsenic (As) (ug/L) | 01002 | 4 | 2.0 |
| 1000 | ug/L | Barium (Ba) (ug/L) | 01007 | ND | 100.0 |
| 4 | ug/L | Beryllium (ug/L) | 01012 | ND | 1.0 |
| 5 | ug/L | Cadmium (Cd) (ug/L) | 01027 | ND | 1.0 |
| 50 | ug/L | Chromium (Total Cr) (ug/L) | 01034 | ND | 10.0 |
| 1000 | ug/L+ | Copper (Cu) (ug/L) | 01042 | ND | 50.0 |
| 300 | ug/L+ | Iron (Fe) (ug/L) | 01045 | 170 | 100.0 |
| | ug/L | Lead (Pb) (ug/L) | 01051 | ND | 5.0 |
| 50 | ug/L+ | Manganese (Mn) (ug/L) | 01055 | 150 | 30.0 |
| 2 | ug/L | Mercury (Hg) (ug/L) | 71900 | ND | 1.0 |
| 100 | ug/L | Nickel (ug/L) | 01067 | ND | 10.0 |
| 50 | ug/L | Selenium (Se) (ug/L) | 01147 | 11 | 5.0 |
| 100 | ug/L+ | Silver (Ag) (ug/L) | 01077 | ND | 10.0 |
| 2 | ug/L | Thallium (ug/L) | 01059 | ND | 1.0 |
| 5000 | ug/L | Zinc (Zn) (ug/L) | 01092 | ND | 50.0 |

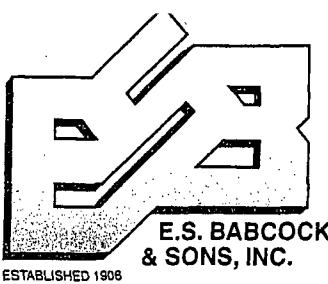
ADDITIONAL ANALYSES

| | | | | | |
|------|------|--------------------------------|-------|----|-------|
| 1000 | ug/L | Nitrite as Nitrogen (N) (ug/L) | 00620 | ND | 400 |
| 200 | ug/L | Cyanide (ug/L) | 01291 | ND | 100.0 |

+ Indicates Secondary Drinking Water Standards

Laboratory comments and description of any additional components found:

Ortho Phosphate Phosphorus = ND @ RL 0.05 mg/L



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www.babcocklabs.com

ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 00/01/10

Sample ID No. L63102-010

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler: N/A

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 99/12/13/0847

Received @ Lab: 99/12/14/0840

Completed: 99/12/20

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: BENET RD

* User ID: WAT

Station Number:

* Date/Time of Sample: | 99 | 12 | 13 | 0847 |

* Laboratory Code: 4790

* YY MM DD TTTT

* YY MM DD

*

* Date Analysis completed: | 99 | 12 | 20 |

* Submitted by:

* Phone #:

Page 1 of 3

REGULATED ORGANIC CHEMICALS

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--|---------|------------------|----------|----------|
| 524.2 | Bromodichloromethane | 32101 | ND | | .50 |
| 524.2 | Bromoform | 32104 | ND | | .50 |
| 524.2 | Chloroform (Trichloromethane) | 32106 | ND | | .50 |
| 524.2 | Dibromochloromethane | 32105 | ND | | .50 |
| 524.2 | Total Trihalomethanes (THM'S/ TTHM) | 82080 | ND 100 | 100 | .50 |
| 524.2 | Benzene | 34030 | ND | 1 | .50 |
| 524.2 | Carbon Tetrachloride | 32102 | ND | .5 | .50 |
| 524.2 | 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | 600 | .50 |
| 524.2 | 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 5 | .50 |
| 524.2 | 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | 5 | .50 |
| 524.2 | 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | .5 | .50 |
| 524.2 | 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | 6 | .50 |
| 524.2 | cis-1,2-Dichloroethylene (c-1,2-DCE) | 77093 | ND | 6 | .50 |
| 524.2 | trans-1,2-Dichloroethylene (t-1,2-DCE) | 34546 | ND | 10 | .50 |
| 524.2 | Dichloromethane (Methylene Chloride) | 34423 | ND | 5 | .50 |
| 524.2 | 1,2-Dichloropropane | 34541 | ND | 5 | .50 |
| 524.2 | Total 1,3-Dichloropropene | 34561 | ND | .5 | .50 |
| 524.2 | Ethyl Benzene | 34371 | ND | 700 | .50 |
| 524.2 | Methyl tert-Butyl Ether (MTBE) | A-030 | ND | 5 | 3.00 |
| 524.2 | Monochlorobenzene (Chlorobenzene) | 34301 | ND | 70 | .50 |
| 524.2 | Styrene | 77128 | ND | 100 | .50 |
| 524.2 | 1,1,2,2-Tetrachloroethane | 34516 | ND | 1 | .50 |
| 524.2 | Tetrachloroethylene (PCE) | 34475 | ND | 5 | .50 |
| 524.2 | Toluene | 34010 | ND | 150 | .50 |
| 524.2 | 1,2,4-Trichlorobenzene | 34551 | ND | 70 | .50 |



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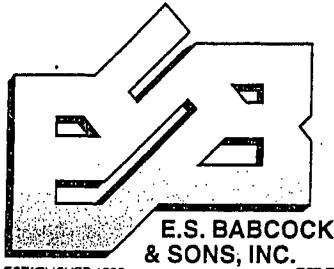
Environmental Laboratory Certification #1156
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REGULATED ORGANIC CHEMICALS CONTINUED L63102-010

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | 200 | .50 |
| 524.2 | 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | 5 | .50 |
| 524.2 | Trichloroethylene (TCE) | 39180 | ND | 5 | .50 |
| 524.2 | Trichlorofluoromethane (FREON 11) | 34488 | ND | 150 | 5.00 |
| 524.2 | Trichlorotrifluoroethane (FREON 113) | 81611 | ND | 1200 | 10.00 |
| 524.2 | Vinyl Chloride (VC) | 39175 | ND | .5 | .50 |
| 524.2 | m,p-Xylene | A-014 | ND | | .50 |
| 524.2 | o-Xylene | 77135 | ND | | .50 |
| 524.2 | Total Xylenes (m,p, & o) | 81551 | ND | 1750 | .50 |
| 525.2 | Diethylhexylphthalate (DEHP) | 39100 | ND | 4 | 3.00 |
| 507 | Atrazine (AATREX) | 39033 | ND | 3 | 1.00 |
| 507 | Molinate (ORDRAM) | 82199 | ND | 20 | 2.00 |
| 507 | Simazine (PRINCEP) | 39055 | ND | 4 | 1.00 |
| 507 | Thiobencarb (BOLERO) | A-001 | ND | 70 | 1.00 |
| 507 | Alachlor (ALANEX) | 77825 | ND | 2 | 1.00 |
| 515.1 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2.00 |
| 525.2 | Benzo(a)pyrene | 34247 | ND | .2 | 0.10 |
| 515.1 | 2,4-D | 39730 | ND | 70 | 10.00 |
| 515.1 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1.00 |
| 515.1 | Dalapon | 38432 | ND | 200 | 10.00 |
| 515.1 | Dinoseb (DNBP) | 81287 | ND | 7 | 2.00 |
| 525.2 | Di(2-ethylhexyl) Adipate | A-026 | ND | 400 | 5.00 |
| 515.1 | Pentachlorophenol (PCP) | 39032 | ND | 1 | .20 |
| 515.1 | Picloram | 39720 | ND | 500 | 1.00 |

UNREGULATED ORGANIC CHEMICALS

| | | | | |
|-------|---------------------------------|-------|----|------|
| 524.2 | tert-Amyl Methyl Ether (TAME) | A-034 | ND | 3.00 |
| 524.2 | Bromobenzene | 81555 | ND | .50 |
| 524.2 | Bromochloromethane | A-012 | ND | .50 |
| 524.2 | Bromomethane (Methyl Bromide) | 34413 | ND | .50 |
| 524.2 | n-Butylbenzene | A-010 | ND | .50 |
| 524.2 | sec-Butylbenzene | 77350 | ND | .50 |
| 524.2 | tert-Butylbenzene | 77353 | ND | .50 |
| 524.2 | Chloroethane | 34311 | ND | .50 |
| 524.2 | 2-Chloroethylvinyl Ether | 34576 | ND | 1.00 |
| 524.2 | Chloromethane (Methyl Chloride) | 34418 | ND | .50 |
| 524.2 | 2-Chlorotoluene | A-008 | ND | .50 |
| 524.2 | 4-Chlorotoluene | A-009 | ND | .50 |
| 524.2 | Dibromomethane | 77596 | ND | .50 |
| 524.2 | 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | .50 |
| 524.2 | Dichlorodifluoromethane | 34668 | ND | 1.00 |
| 524.2 | 1,3-Dichloropropane | 77173 | ND | .50 |
| 524.2 | 2,2-Dichloropropane | 77170 | ND | .50 |



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UNREGULATED ORGANIC CHEMICALS

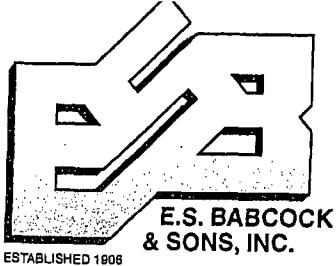
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L63102-010

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | 1,1-Dichloropropene | 77168 | ND | .50 | |
| 524.2 | Ethyl tert-Butyl Ether (ETBE) | A-033 | ND | 3.00 | |
| 524.2 | Hexachlorobutadiene | 34391 | ND | .50 | |
| 524.2 | Isopropylbenzene (Cumene) | 77223 | ND | .50 | |
| 524.2 | p-Isopropyltoluene | A-011 | ND | .50 | |
| 524.2 | Naphthalene | 34696 | ND | .50 | |
| 524.2 | n-Propylbenzene | 77224 | ND | .50 | |
| 524.2 | 1,1,1,2-Tetrachloroethane | 77562 | ND | .50 | |
| 524.2 | 1,2,3-Trichlorobenzene | 77613 | ND | .50 | |
| 524.2 | 1,2,3-Trichloropropane | 77443 | ND | .50 | |
| 524.2 | 1,2,4-Trimethylbenzene | 77222 | ND | .50 | |
| 524.2 | 1,3,5-Trimethylbenzene | 77226 | ND | .50 | |
| 524.2 | Methyl Ethyl Ketone (MEK, Butanone) | 81595 | ND | 5.00 | |
| 524.2 | Methyl Isobutyl Ketone (MIBK) | 81596 | ND | 5.00 | |
| 524.2 | bis (2-Chloroethyl) Ether | 34273 | ND | 5.00 | |
| 507 | Bromacil (HYVAR) | 82198 | ND | 10.00 | |
| 507 | Butachlor | 77860 | ND | .38 | |
| 507 | Diazinon | 39570 | ND | .25 | |
| 515.1 | Dicamba (BANVEL) | 82052 | ND | 1.50 | |
| 507 | Dimethoate (CYGON) | 38458 | ND | 10.00 | |
| 507 | Diuron | 39650 | ND | 1.00 | |
| 507 | Metolachlor | 39356 | ND | | |
| 507 | Metribuzin | 81408 | ND | | |
| 507 | Prometryn (CAPAROL) | 39057 | ND | 2.00 | |

Laboratory comments and description of any additional components found:

Metolachlor DLR = 1 ug/L Metribuzin DLR = 0.15 ug/L



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5697-56601

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: BENET RD

Site:

Description: SLR River

Matrix: water

Page: 6
Lab No.: L63102-010

Date Reported: 01/05/2000

Collected By:

Date: 12/13/1999

Time: 0847

Submitted By: Fed Ex

Date: 12/14/1999

Time: 0840

EPA Method 608

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|------------------------|---------------|-----------|--------------------|--------------------|-----------|------|------|
| 4, 4'-DDD | ND | ug/L | 0.2 | Chlordane | ND | ug/L | 0.2 |
| 4, 4'-DDE | ND | ug/L | 0.08 | d-BHC | ND | ug/L | 0.2 |
| 4, 4'-DDT | ND | ug/L | 0.2 | Dieldrin | ND | ug/L | 0.04 |
| a-BHC | ND | ug/L | 0.06 | Endosulfan I | ND | ug/L | 0.3 |
| Aldrin | ND | ug/L | 0.08 | Endosulfan II | ND | ug/L | 0.08 |
| Aroclor 1016 | ND | ug/L | 1.0 | Endosulfan Sulfate | ND | ug/L | 1.3 |
| Aroclor 1221 | ND | ug/L | 1.0 | Endrin | ND | ug/L | 0.1 |
| Aroclor 1232 | ND | ug/L | 1.0 | Endrin Aldehyde | ND | ug/L | 0.5 |
| Aroclor 1242 | ND | ug/L | 1.0 | Heptachlor | ND | ug/L | 0.02 |
| Aroclor 1248 | ND | ug/L | 1.0 | Heptachlor Epoxide | ND | ug/L | 0.02 |
| Aroclor 1254 | ND | ug/L | 1.0 | Lindane | ND | ug/L | 0.08 |
| Aroclor 1260 | ND | ug/L | 1.0 | Methoxychlor | ND | ug/L | 3.6 |
| b-BHC | ND | ug/L | 0.1 | Toxaphene | ND | ug/L | 2.0 |
| BZ-198 | - | | | | | | |
| Surr Percent Recovery: | 68.5 | % | | | | | |

Date analyzed / Analyst: 12-16-1999 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD

E. S. Babcock & Sons Inc.



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GENERAL MINERAL & PHYSICAL, & INORGANIC ANALYSIS (4/95)

Date of Report: 10/04/99

Sample ID No: L59630-007

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler: RF

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 99/09/13/0945

Received @ Lab: 99/09/14/0930

Completed: 99/09/27

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SLR RIVER @ BONSALL

Station Number:

* User ID: WAT

Laboratory Code: 4790

* Date/Time of Sample: | 99 | 09 | 13 | 0945 |
* YY MM DD TTTT

YY MM DD

* Date Analysis Completed: | 99 | 09 | 27 |

* Submitted by: _____

Phone #: _____

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|-----|-----------------|--|---------|------------------|-----|
| | mg/L | Hardness, (Total) as CaCO ₃ | 00900 | 840 | |
| | mg/L | Calcium (Ca) | 00916 | 180 | |
| | mg/L | Magnesium (Mg) | 00927 | 96 | |
| | mg/L | Sodium (NA) | 00929 | 250 | < |
| | mg/L | Potassium (K) | 00937 | | |

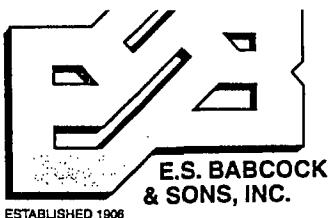
| Total Cations Meq/L Value: 27.8 |

| | | | | | |
|----|-------|--|-------|-----|-----|
| | mg/L | Alkalinity, (Total) as CaCO ₃ | 00410 | 320 | |
| | mg/L | Hydroxide (OH) | 71830 | < 3 | |
| | mg/L | Carbonate (CO ₃) | 00445 | < 3 | |
| | mg/L | Bicarbonate (HCO ₃) | 00440 | 390 | |
| * | mg/L+ | Sulfate (SO ₄) | 00945 | 500 | 0.5 |
| * | mg/L+ | Chloride (Cl) | 00940 | 380 | |
| 45 | mg/L | Nitrate (as NO ₃) | 71850 | < 2 | 2.0 |
| ** | mg/L | Fluoride (F) Temp. Depend. | 00951 | 0.4 | 0.1 |

| Total Anions Meq/L Value: 27.5 |

| | | | | | |
|------|--------------|--|-------|------|--|
| | Std. Units + | PH, Laboratory | 00403 | 8.0 | |
| *** | uS + | Specific Conductance (E.C.) | 00095 | 2600 | |
| **** | mg/L + | Total Filterable Residue at 180C (TDS) | 70300 | 1790 | |
| | Units | Color, Apparent (Unfiltered) | 00081 | | |
| | TON | Odor Threshold at 60 C | 00086 | | |
| | NTU | Turbidity, Laboratory | 82079 | | |
| 0.5 | mg/L + | MBAS | 38260 | | |

* 250-500-600 ** 1.4-2.4 *** 900-1600-2200 **** 500-1000-1500



ENVIRONMENTAL LABORATORY CERTIFICATION #1100
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

PAGE 2 OF 2

INORGANIC CHEMICALS

L59630-007

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|------|-----------------|---------------------|---------|------------------|------|
| 1000 | ug/L | Aluminum (Al) | 01105 | ND | 50. |
| 6 | ug/L | Antimony | 01097 | ND | 6. |
| 50 | ug/L | Arsenic (As) | 01002 | 2 | 2. |
| 1000 | ug/L | Barium (Ba) | 01007 | ND | 100. |
| 4 | ug/L | Beryllium | 01012 | ND | 1. |
| 5 | ug/L | Cadmium (Cd) | 01027 | ND | 1. |
| 50 | ug/L | Chromium (Total Cr) | 01034 | 10 | 10. |
| 1000 | ug/L+ | Copper (Cu) | 01042 | ND | 50. |
| 300 | ug/L+ | Iron (Fe) | 01045 | ND | 100. |
| | ug/L | Lead (Pb) | 01051 | ND | 5. |
| 50 | ug/L+ | Manganese (Mn) | 01055 | 60 | 20. |
| 2 | ug/L | Mercury (Hg) | 71900 | ND | 1. |
| 100 | ug/L | Nickel | 01067 | ND | 10. |
| 50 | ug/L | Selenium (Se) | 01147 | 6 | 5. |
| 100 | ug/L+ | Silver (Ag) | 01077 | ND | 10. |
| 2 | ug/L | Thallium | 01059 | ND | 1. |
| 5000 | ug/L | Zinc (Zn) | 01092 | ND | 50. |

ADDITIONAL ANALYSES

| | | | | |
|------|------|-------------------------|-------|------|
| 1000 | ug/L | Agressiveness Index | 82383 | 13.4 |
| | | Nitrite as Nitrogen (N) | 00620 | ND |
| 200 | ug/L | Cyanide | 01291 | ND |

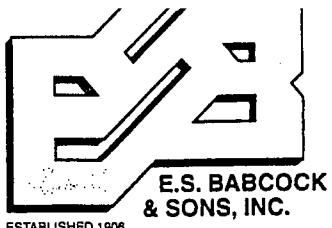
+ Indicates Secondary Drinking Water Standards

Laboratory comments and description of any additional compounds found:

Langelier Index Calculated at 25 C = 1.6

Temperature at Lab = 25 deg. C

SDSHD



ESTABLISHED 1906

E.S. BABCOCK
& SONS, INC.

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
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e-mail: esbsales@aol.com
www.babcocklabs.com

GENERAL MINERAL & PHYSICAL, & INORGANIC ANALYSIS (4/95)

Date of Report: 10/04/99

Sample ID No. L59630-008

Laboratory

Signature Lab

Name: E.S. BABCOCK & SONS

Director:

Name of Sampler: RF

Employed By: City of Oceanside

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 99/09/13/1010

Received @ Lab: 99/09/14/0930

Completed: 99/09/2

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SLR RIVER @ DOUGLAS

* User ID: WAT

Station Number:

* Date/Time of Sample: |99|09|13|1010|

Laboratory Code: 4790

YY MM DD TTTT

YY MM DD

* Submitted by:

Date Analysis Completed: |99|09|27|

Phone #:

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|---------------|-----------------|--|---------|------------------|-----|
| | mg/L | Hardness, (Total) as CaCO ₃ | 00900 | 730 | |
| | mg/L | Calcium (Ca) | 00916 | 150 | |
| | mg/L | Magnesium (Mg) | 00927 | 83 | |
| | mg/L | Sodium (Na) | 00929 | 210 | ok |
| | mg/L | Potassium (K) | 00937 | | |
| Total Cations | Meq/L | Value: 23.4 | | | |
| | mg/L | Alkalinity, (Total) as CaCO ₃ | 00410 | 280 | |
| | mg/L | Hydroxide (OH) | 71830 | < | 3 |
| | mg/L | Carbonate (CO ₃) | 00445 | < | 3 |
| | mg/L | Bicarbonate (HCO ₃) | 00440 | 340 | |
| * | mg/L+ | Sulfate (SO ₄) | 00945 | 420 | 0.1 |
| * | mg/L+ | Chloride (Cl) | 00940 | 320 | |
| 45 | mg/L | Nitrate (as NO ₃) | 71850 | < | 2 |
| ** | mg/L | Fluoride (F) Temp. Depend. | 00951 | 0.2 | 0.1 |
| Total Anions | Meq/L | Value: 23.3 | | | |

| | | | | |
|------|--------------|--|-------|------|
| | Std. Units + | PH, Laboratory | 00403 | 7.8 |
| *** | uS + | Specific Conductance (E.C.) | 00095 | 2250 |
| **** | mg/L+ | Total Filterable Residue at 180C (TDS) | 70300 | 1560 |
| | Units | Color, Apparent (Unfiltered) | 00081 | |
| | TON | Odor Threshold at 60 C | 00086 | |
| | NTU | Turbidity, Laboratory | 82079 | |
| 0.5 | mg/L+ | MBAS | 38260 | |

* 250-500-600

** 1.4-2.4

*** 900-1600-2200

**** 500-1000-1500



E.S. BABCOCK
& SONS, INC.

Environmental Laboratory Certification #1133
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PAGE 2 OF 2

INORGANIC CHEMICALS

L59630-008

| MCL | REPORTING UNITS | CHEMICAL | ENTRY # | ANALYSES RESULTS | DLR |
|------|-----------------|---------------------|---------|------------------|-------|
| 1000 | ug/L | Aluminum (Al) | 01105 | ND | 50.C |
| 6 | ug/L | Antimony | 01097 | ND | 6.C |
| 50 | ug/L | Arsenic (As) | 01002 | 3 | 2.C |
| 1000 | ug/L | Barium (Ba) | 01007 | ND | 100.C |
| 4 | ug/L | Beryllium | 01012 | ND | 1.C |
| 5 | ug/L | Cadmium (Cd) | 01027 | ND | 1.C |
| 50 | ug/L | Chromium (Total Cr) | 01034 | 10 | 10.C |
| 1000 | ug/L+ | Copper (Cu) | 01042 | ND | 50.C |
| 300 | ug/L+ | Iron (Fe) | 01045 | 320 | 100.C |
| | ug/L | Lead (Pb) | 01051 | ND | 5.C |
| 50 | ug/L+ | Manganese (Mn) | 01055 | 60 | 20.C |
| 2 | ug/L | Mercury (Hg) | 71900 | ND | 1.C |
| 100 | ug/L | Nickel | 01067 | ND | 10.C |
| 50 | ug/L | Selenium (Se) | 01147 | 6 | 5.C |
| 100 | ug/L+ | Silver (Ag) | 01077 | ND | 10.C |
| 2 | ug/L | Thallium | 01059 | ND | 1.C |
| 5000 | ug/L | Zinc (Zn) | 01092 | ND | 50.C |

ADDITIONAL ANALYSES

| | | | | | |
|------|------|------------------------|-------|------|-------|
| 1000 | ug/L | Agressiveness Index | 82383 | 13.1 | |
| | | Nitrite as Nitrogen(N) | 00620 | ND | 40C |
| 200 | ug/L | Cyanide | 01291 | ND | 100.C |

+ Indicates Secondary Drinking Water Standards

Laboratory comments and description of any additional compounds found:

Langelier Index Calculated at 25 C = 1.3

Temperature at Lab = 25 deg. C

SDSHD

City of Oceanside Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

phone: 760-966-8772
fax: 760-966-8770

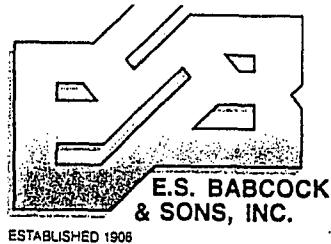
To: E. S. Babcock & Sons

P.O. # (will call you as soon as I have it)

Date: June 16, 1999

| Sample Description | Date/Time Sampled | Analyze for: |
|---|---|--|
| Mission Basin Desalting Facility Wells 2, 3, 5 and product | Well 2 - 06/16/99 @ 0600 Well 3 - 06/16/99 @ 0600 Well 5 - 06/16/99 @ 0600 Product - 06/16/99 @ 0600 | EPA 524.2 - Volatiles EPA 300.0 - Perchlorate |
| Well # 2 | Well 2 - 06/16/99 @ 0600 | Radioactivity - gross alpha |
| Well # 5 and product | 06/16/99 @ 0600 | Uranium |
| SLR River @ Benet Rd | 06/16/99 @ 1045 | |
| Relinquished by: | | Relinquished by: |
| Mary Gonzales (Signature) | 1130 (Time) | |
| Mary Gonzales (Printed name) | 6/16/99 (Date) | |
| Received by: | Received by E. S. Babcock & Sons | |
| | Am Wilkinson (Signature) | |
| | Am Wilkinson (Printed name) | |

UPS
Ogce
-TB



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

5697-55626

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: wastewater

Page: 1
Lab No.: L56293-005

Date Reported: 06/29/1999

Collected By:

Date: 06/16/1999

Time: 1045

Submitted By: UPS

Date: 06/17/1999

Time: 0900

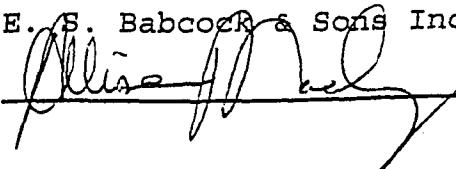
EPA Method 608

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-----------|
| 4,4'-DDD | ND | ug/L 0.1 | Chlordane | ND | ug/L 0.1 |
| 4,4'-DDE | ND | ug/L 0.04 | d-BHC | ND | ug/L 0.09 |
| 4,4'-DDT | ND | ug/L 0.1 | Dieldrin | ND | ug/L 0.02 |
| a-BHC | ND | ug/L 0.03 | Endosulfan I | ND | ug/L 0.1 |
| Aldrin | ND | ug/L 0.04 | Endosulfan II | ND | ug/L 0.04 |
| Aroclor 1016 | ND | ug/L 0.5 | Endosulfan Sulfate | ND | ug/L 0.7 |
| Aroclor 1221 | ND | ug/L 0.5 | Endrin | ND | ug/L 0.06 |
| Aroclor 1232 | ND | ug/L 0.5 | Endrin Aldehyde | ND | ug/L 0.2 |
| Aroclor 1242 | ND | ug/L 0.5 | Heptachlor | ND | ug/L 0.01 |
| Aroclor 1248 | ND | ug/L 0.5 | Heptachlor Epoxide | ND | ug/L 0.01 |
| Aroclor 1254 | ND | ug/L 0.5 | Lindane | ND | ug/L 0.04 |
| Aroclor 1260 | ND | ug/L 0.5 | Methoxychlor | ND | ug/L 1.8 |
| b-BHC | ND | ug/L 0.06 | Toxaphene | ND | ug/L 1.0 |

Date analyzed / Analyst: 06-21-1999 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc


City of Oceanside
 SAN DIEGO REGIONAL
 WATER QUALITY
 CONTROL BOARD
Water Utilities Laboratory

Analytical Report

ZULU MAY 15 P 12:56

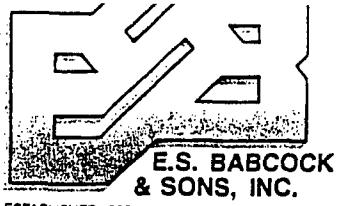
Report Date May 20, 1999
Sample Location Bonsall Bridge
Laboratory ID AA15813
Sampler's Name HAMMOND
Sample Type GRAB
Collection Time 03/08/99 10:35
Released to Lab 03/08/99 12:05

| Analyte | Units | Result | MDL | Method |
|--------------------------|----------|----------------|-------|-------------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Chloride | | 286 | 5.00 | |
| Nitrite as N | | <0.15 | 0.150 | |
| Nitrate as N | | 2.31 | 1.00 | |
| Sulfate | | 441 | 5.00 | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Aluminum | | 0.132 | 0.03 | |
| Boron | | 0.141 | 0.01 | |
| Calcium | | 154 | 0.2 | |
| Iron | | 0.301 | 0.02 | |
| Magnesium | | 81.3 | 0.2 | |
| Manganese | | 0.139 | 0.002 | |
| Silver | | <0.01 | 0.01 | |
| Cyanide | mg/L | <0.01 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2020 | 20 | SM 2510 B |
| Enterococcus by MF | ok | Colonies/100ml | 80 | <1 |
| Fluoride | mg/L | 0.36 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |

| Analyte | Units | Result | MDL | Method |
|----------------------------------|---------------------------|--------|------|--------------|
| Methylene Blue Active Substances | mg/L | <0.05 | 0.05 | SM 5540 C |
| MTF for fecal coliform <i>ok</i> | MPN/100ml | 220 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 1700 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.01 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO ₃ | 260 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1348 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales
Laboratory Supervisor



ESTABLISHED 1908

6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

5697-55372

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: BONSALL BRIDGE

Site:

Description: San Luis Rey River Samples

Matrix: wastewater

Page: 1 of 1
Lab No.: L54215-009

Date Reported: 05/06/9

Collected By:

Date: 03/08/9

Time: 1035

Submitted By: UPS

Date: 04/27/9

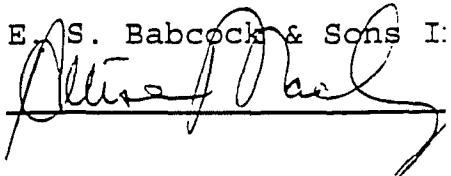
Time: 0905

| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|----------------|
| Sodium | 170 | mg/L | EPA 200.7 | 1. 990504, |
| Potassium | 5. | mg/L | EPA 200.7 | 1. 990504, |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 990429, |
| Arsenic | 0.003 | mg/L | EPA 200.8 | 0.002 990429, |
| Barium | ND | mg/L | EPA 200.8 | 0.1 990429, |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 990429, |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 990429, |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 990429, |
| Copper | ND | mg/L | EPA 200.8 | 0.01 990429, |
| Lead | ND | mg/L | EPA 200.8 | 0.005 990429, |
| Molybdenum | 0.01 | mg/L | EPA 200.8 | 0.01 990429, |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 990429, |
| Selenium | 0.011 | mg/L | EPA 200.8 | 0.005 990429, |
| Total Silica | 29. | mg/L | EPA 200.7 | 0.5 990504, |
| Strontium | 0.6 | mg/L | EPA 200.7 | 0.1 990504, |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 990429, |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 990429, |

ND = None detected at RL (Reporting Limit). RL units same as result.

Silicon equals 13.4 mg/L at a Reporting Limit of 0.2mg/L.

cc:

E. S. Babcock & Sons I:


**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date May 20, 1999
Sample Location Douglas Bridge
Laboratory ID AA15815
Sampler's Name HAMMOND
Sample Type GRAB
Collection Time 03/08/99 11:40
Released to Lab 03/08/99 12:05

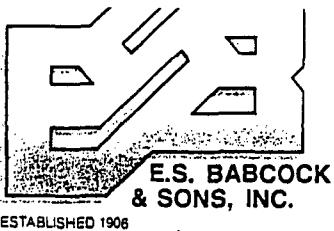
| Analyte | Units | Result | MDL | Method |
|--------------------------|----------------|--------|-------|-------------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Chloride | | 307 | 5.00 | |
| Nitrite as N | | <0.15 | 0.150 | |
| Nitrate as N | | 2.48 | 1.00 | |
| Sulfate | | 431 | 5.00 | |
| | | | | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Aluminum | | 0.342 | 0.03 | |
| Boron | | 0.154 | 0.01 | |
| Calcium | | 154 | 0.2 | |
| Iron | | 0.534 | 0.02 | |
| Magnesium | K | 83.4 | 0.2 | |
| Manganese | | 0.106 | 0.002 | |
| Silver | | <0.01 | 0.01 | |
| | | | | |
| Cyanide | mg/L | <0.01 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2080 | 20 | SM 2510 B |
| Enterococcus by MF | Colonies/100ml | 240 | <1 | SM 9230 C |
| Fluoride | mg/L | 0.36 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |

| Analyte | Units | Result | MDL | Method |
|----------------------------------|---------------------------|--------|------|--------------|
| Methylene Blue Active Substances | mg/L | <0.05 | 0.05 | SM 5540 C |
| MTF for fecal coliform | MPN/100ml | 300 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 800 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.39 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO ₃ | 265 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1372 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by



Mary Gonzales
Laboratory Supervisor



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

5697-55372

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: DOUGLAS BRIDGE

Site:

Description: San Luis Rey River Samples

Matrix: wastewater

Page: 1 of 1
Lab No.: L54215-010

Date Reported: 05/06/99

Collected By:

Date: 03/08/99

Time: 1140

Submitted By: UPS

Date: 04/27/99

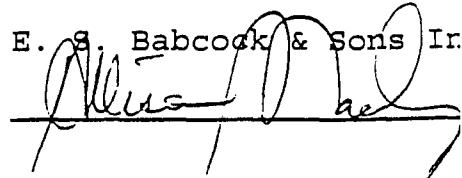
Time: 0905

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|---------------|-----------|-----------------------|
| Sodium | 180 | mg/L | EPA 200.7 | 1. 990504/ |
| Potassium | 6. | mg/L | EPA 200.7 | 1. 990504/ |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 990429/ |
| Arsenic | 0.005 | mg/L | EPA 200.8 | 0.002 990429/ |
| Barium | ND | mg/L | EPA 200.8 | 0.1 990429/ |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 990429/ |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 990429/ |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 990429/ |
| Copper | ND | mg/L | EPA 200.8 | 0.01 990429/ |
| Lead | ND | mg/L | EPA 200.8 | 0.005 990429/ |
| Molybdenum | 0.01 | mg/L | EPA 200.8 | 0.01 990429/ |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 990429/ |
| Selenium | 0.018 | mg/L | EPA 200.8 | 0.005 990429/ |
| Total Silica | 30. | mg/L | EPA 200.7 | 0.5 990504/ |
| Strontium | 0.6 | mg/L | EPA 200.7 | 0.1 990504/ |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 990429/ |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 990429/ |

ND = None detected at RL (Reporting Limit). RL units same as result.

Silicon equals 13.8 mg/L at a Reporting Limit of 0.2mg/L.

cc:

E. S. Babcock & Sons Inc.


**City of Oceanside
Water Utilities Laboratory
Analytical Report**

Report Date May 20, 1999
Sample Location Benet Bridge
Laboratory ID AA15814
Sampler's Name HAMMOND
Sample Type GRAB
Collection Time 03/08/99 11:10
Released to Lab 03/08/99 12:05

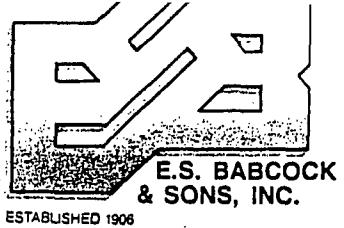
| Analyte | Units | Result | MDL | Method |
|-----------------------------------|----------------|--------|-------|-------------|
| Ion Chromatograph | mg/l | --- | --- | EPA 300 |
| Chloride | | 329 | 5.00 | |
| Nitrite as N | | <0.15 | 0.150 | |
| Nitrate as N | | 2.15 | 1.00 | |
| Sulfate | | 420 | 5.00 | |
| Metals by ICP | mg/L | --- | --- | EPA 200.7 |
| Aluminum | | 0.064 | 0.03 | |
| Boron | | 0.161 | 0.01 | |
| Calcium | | 155 | 0.2 | |
| Iron | | 0.159 | 0.02 | |
| Magnesium | | 83.6 | 0.2 | |
| Manganese | | 0.070 | 0.002 | |
| Silver | | <0.01 | 0.01 | |
| Cyanide | mg/L | <0.01 | 0.01 | 4500 CN C+E |
| Conductivity | umhos/cm | 2140 | 20 | SM 2510 B |
| Enterococcus by MF out | Colonies/100ml | 160 | <1 | SM 9230 C |
| Fluoride | mg/L | 0.36 | .03 | 4500 F B+C |
| Mercury | ug/L | <1 | 0.2 | EPA 245.1 |

| Analyte | Units | Result | MDL | Method |
|----------------------------------|---------------------------|--------|------|--------------|
| Methylene Blue Active Substances | mg/L | <0.05 | 0.05 | SM 5540 C |
| MTF for fecal coliform | MPN/100ml | 270 | --- | SM 9221 E |
| MTF for total coliform | MPN/100ml | 3000 | --- | SM 9221 B |
| Ammonia in DW by probe | mg N/L | <0.1 | 0.1 | 4500 NH3 D |
| pH | pH | 8.04 | --- | SM 4500-H+ B |
| Total Alkalinity | mg/L as CaCO ₃ | 279 | --- | SM 2320 B |
| Total Dissolved Solids | mg/L | 1400 | 14 | SM 2540 C |

WATER UTILITIES DEPARTMENT LABORATORY, by

Mary Gonzales

Laboratory Supervisor



Environmental Laboratory Certification No. 1100
6100 Quail Valley Court Riverside, CA 92507-0704
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e-mail: esbsales@aol.com
www.babcocklabs.com

5697-55372

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: BENET ROAD BRIDGE

Site:

Description: San Luis Rey River Samples

Matrix: wastewater

Page: 1 of 1
Lab No.: L54215-011

Date Reported: 05/06/95

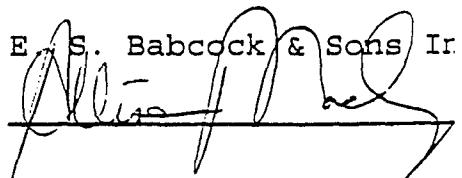
Collected By:
Date: 03/08/95
Time: 1110
Submitted By: UPS
Date: 04/27/95
Time: 0905

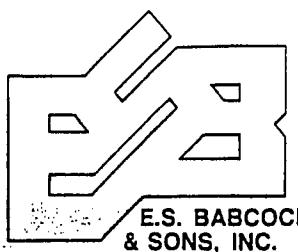
| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|------|---------------|-----------|-----------------------|
| Sodium | 190 | mg/L | EPA 200.7 | 1. | 990504/ |
| Potassium | 6. | mg/L | EPA 200.7 | 1. | 990504/ |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 | 990429/ |
| Arsenic | 0.006 | mg/L | EPA 200.8 | 0.002 | 990429/ |
| Barium | ND | mg/L | EPA 200.8 | 0.1 | 990429/ |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 | 990429/ |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 | 990429/ |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 | 990429/ |
| Copper | ND | mg/L | EPA 200.8 | 0.01 | 990429/ |
| Lead | ND | mg/L | EPA 200.8 | 0.005 | 990429/ |
| Molybdenum | 0.01 | mg/L | EPA 200.8 | 0.01 | 990429/ |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 | 990429/ |
| Selenium | 0.021 | mg/L | EPA 200.8 | 0.005 | 990429/ |
| Total Silica | 24. | mg/L | EPA 200.7 | 0.5 | 990504/ |
| Strontium | 0.6 | mg/L | EPA 200.7 | 0.1 | 990504/ |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 | 990429/ |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 | 990429/ |

ND = None detected at RL (Reporting Limit). RL units same as result.

Silicon equals 11.4 mg/L at a Reporting Limit of 0.2mg/L.

cc:

E. S. Babcock & Sons Inc.




ESTABLISHED 1906

E.S. BABCOCK
& SONS, INC.

Environmental Laboratory Certification #1156
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www.babcocklabs.com

EX

ORGANIC CHEMICAL ANALYSIS (7/98)

Date of Report: 03/22/99 Sample ID No. L52202-006

Laboratory Signature Lab

Director:

Employed By: City of Oceanside

Date Analyses

Collected: 99/03/08/1110 Received @ Lab: 99/03/09/0925 Completed: 99/03/17

Date/Time Sample

Date/Time Sample

Date Analyses

Name: E.S. BABCOCK & SONS

Name of Sampler:

Date/Time Sample

Collected: 99/03/08/1110

Received @ Lab: 99/03/09/0925

Completed: 99/03/17

System

System

Name: OCEANSIDE, CITY OF

Number: 3710014

Name or Number of Sample Source: SAN LUIS REY RIVER @ BENET ROAD

* User ID: WAT

Station Number:

* Date/Time of Sample: | 99 | 03 | 08 | 1110 |
* YY MM DD TTTT

Laboratory Code: 4790 *
YY MM DD *

* Submitted by: _____

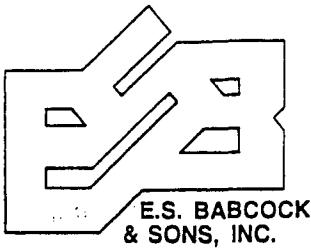
Date Analysis Completed: | 99 | 03 | 17 | *
Phone #: _____ *

PAGE 1 OF 3

REGULATED ORGANIC CHEMICALS

Neg Def No. 524.2

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--|---------|------------------|----------|----------|
| 524.2 | Bromodichloromethane | 32101 | ND | | 0.5 |
| 524.2 | Bromoform | 32104 | ND | | 0.5 |
| 524.2 | Chloroform (Trichloromethane) | 32106 | ND | | 0.5 |
| 524.2 | Dibromochloromethane | 32105 | ND | | 0.5 |
| 524.2 | Total Trihalomethanes (THM'S/ TTHM) | 82080 | ND | 100 | 0.5 |
| 524.2 | Benzene | 34030 | ND | 1 | 0.5 |
| 524.2 | Carbon Tetrachloride | 32102 | ND | .5 | 0.5 |
| 524.2 | 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | 600 | 0.5 |
| 524.2 | 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 5 | 0.5 |
| 524.2 | 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | .5 | 0.5 |
| 524.2 | 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | 6 | 0.5 |
| 524.2 | cis-1,2-Dichloroethylene (c-1,2-DCE) | 77093 | ND | 6 | 0.5 |
| 524.2 | trans-1,2-Dichloroethylene (t-1,2-DCE) | 34546 | ND | 10 | 0.5 |
| 524.2 | Dichloromethane (Methylene Chloride) | 34423 | ND | 5 | 0.5 |
| 524.2 | 1,2-Dichloropropane | 34541 | ND | 5 | 0.5 |
| 524.2 | Total 1,3-Dichloropropene | 34561 | ND | .5 | 0.5 |
| 524.2 | Ethyl Benzene | 34371 | ND | 700 | 0.5 |
| 524.2 | Monochlorobenzene (Chlorobenzene) | 34301 | ND | 70 | 0.5 |
| 524.2 | Styrene | 77128 | ND | 100 | 0.5 |
| 524.2 | 1,1,2,2-Tetrachloroethane | 34516 | ND | 1 | 0.5 |
| 524.2 | Tetrachloroethylene (PCE) | 34475 | ND | 5 | 0.5 |
| 524.2 | Toluene | 34010 | ND | 150 | 0.5 |
| 524.2 | 1,2,4-Trichlorobenzene | 34551 | ND | 70 | 0.5 |
| 524.2 | 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | 200 | 0.5 |
| 524.2 | 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | 5 | 0.5 |
| 524.2 | Trichloroethylene (TCE) | 39180 | ND | 5 | 0.5 |
| 524.2 | Trichlorofluoromethane (FREON 11) | 34488 | ND | 150 | 5.0 |



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e-mail: esbsales@aol.com
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PAGE 2 OF 3

REGULATED ORGANIC CHEMICALS CONTINUED L52202-006

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|---|---------|------------------|----------|----------|
| 524.2 | Trichlorotrifluoroethane (FREON 113) | 81611 | ND | 1200 | 10.0 |
| 524.2 | Vinyl Chloride (VC) | 39175 | ND | .5 | 0.5 |
| 524.2 | m,p-Xylene | A-014 | ND | | 0.5 |
| 524.2 | o-Xylene | 77135 | ND | | 0.5 |
| 524.2 | Total Xylenes (m,p, & o) | 81551 | ND | 1750 | 0.5 |
| 508 | Endrin | 39390 | ND | 2 | 0.10 |
| 508 | Lindane (gamma-BHC) | 39340 | ND | .2 | 0.20 |
| 508 | Methoxychlor | 39480 | ND | 40 | 10.0 |
| 508 | Toxaphene | 39400 | ND | 3 | 1.0 |
| 508 | Chlordane | 39350 | ND | .1 | 0.1 |
| 525.2 | Diethylhexylphthalate (DEHP) | 39100 | ND | 4 | 3.0 |
| 508 | Heptachlor | 39410 | ND | .01 | 0.01 |
| 508 | Heptachlor epoxide | 39420 | ND | .01 | 0.01 |
| 525.2 | Atrazine (AATREX) | 39033 | ND | 3 | 1.0 |
| 525.2 | Molinate (ORDRAM) | 82199 | ND | 20 | 2.0 |
| 525.2 | Simazine (PRINCEP) | 39055 | ND | 4 | 1.0 |
| 525.2 | Thiobencarb (BOLERO) | A-001 | ND | 70 | 1.0 |
| 525.2 | Alachlor (ALANEX) | 77825 | ND | 2 | 1.0 |
| 515.1 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2.0 |
| 525.2 | Benzo(a)pyrene | 34247 | ND | .2 | 0.1 |
| 515.1 | 2,4-D | 39730 | ND | 70 | 10.0 |
| 515.1 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1.0 |
| 515.1 | Dalapon | 38432 | ND | 200 | 10.0 |
| 515.1 | Dinoseb (DNBP) | 81287 | ND | 7 | 2.0 |
| 525.2 | Di(2-ethylhexyl) Adipate | A-026 | ND | 400 | 5.0 |
| 508 | Hexachlorobenzene | 39700 | ND | 1 | 0.5 |
| 508 | Hexachlorocyclopentadiene | 34386 | ND | 50 | 1.0 |
| 515.1 | Pentachlorophenol (PCP) | 39032 | ND | 1 | 0.2 |
| 515.1 | Picloram | 39720 | ND | 500 | 1.0 |
| 508 | Polychlorinated Biphenyls (Total PCB's) | 39516 | ND | .5 | 0.5 |

UNREGULATED ORGANIC CHEMICALS

| | | | | |
|-------|---------------------------------|-------|----|-----|
| 524.2 | tert-Amyl Methyl Ether (TAME) | A-034 | ND | 3.0 |
| 524.2 | Bromobenzene | 81555 | ND | 0.5 |
| 524.2 | Bromochloromethane | A-012 | ND | 0.5 |
| 524.2 | Bromomethane (Methyl Bromide) | 34413 | ND | 0.5 |
| 524.2 | n-Butylbenzene | A-010 | ND | 0.5 |
| 524.2 | sec-Butylbenzene | 77350 | ND | 0.5 |
| 524.2 | tert-Butylbenzene | 77353 | ND | 0.5 |
| 524.2 | Chloroethane | 34311 | ND | 0.5 |
| 524.2 | 2-Chloroethylvinyl Ether | 34576 | ND | 1.0 |
| 524.2 | Chloromethane (Methyl Chloride) | 34418 | ND | 0.5 |
| 524.2 | 2-Chlorotoluene | A-008 | ND | 0.5 |
| 524.2 | 4-Chlorotoluene | A-009 | ND | 0.5 |
| 524.2 | Dibromomethane | 77596 | ND | 0.5 |
| 524.2 | 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | 0.5 |



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PAGE 3 OF 3

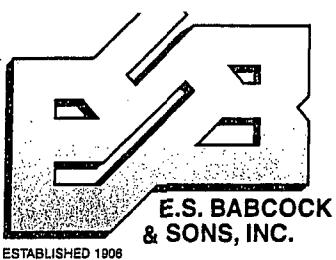
UNREGULATED ORGANIC CHEMICALS CONTINUED L52202-006

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED ug/L | ENTRY # | ANALYSES RESULTS | MCL ug/L | DLR ug/L |
|-------------|--------------------------------------|---------|------------------|----------|----------|
| 524.2 | Dichlorodifluoromethane | 34668 | ND | | 1.0 |
| 524.2 | 1,3-Dichloropropane | 77173 | ND | | 0.5 |
| 524.2 | 2,2-Dichloropropane | 77170 | ND | | 0.5 |
| 524.2 | 1,1-Dichloropropene | 77168 | ND | | 0.5 |
| 524.2 | Ethyl tert-Butyl Ether (ETBE) | A-033 | ND | | 3.0 |
| 524.2 | Hexachlorobutadiene | 34391 | ND | | 0.5 |
| 524.2 | Isopropylbenzene (Cumene) | 77223 | ND | | 0.5 |
| 524.2 | p-Isopropyltoluene | A-011 | ND | | 0.5 |
| 524.2 | Methyl tert-Butyl Ether (MTBE) | A-030 | ND | | 3.0 |
| 524.2 | Naphthalene | 34696 | ND | | 0.5 |
| 524.2 | n-Propylbenzene | 77224 | ND | | 0.5 |
| 524.2 | 1,1,1,2-Tetrachloroethane | 77562 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichlorobenzene | 77613 | ND | | 0.5 |
| 524.2 | 1,2,3-Trichloropropane | 77443 | ND | | 0.5 |
| 524.2 | 1,2,4-Trimethylbenzene | 77222 | ND | | 0.5 |
| 524.2 | 1,3,5-Trimethylbenzene | 77226 | ND | | 0.5 |
| 524.2 | Methyl Ethyl Ketone (MEK, Butanone) | 81595 | ND | | 5.0 |
| 524.2 | Methyl Isobutyl Ketone (MIBK) | 81596 | ND | | 5.0 |
| 524.2 | bis (2-Chloroethyl) Ether | 34273 | ND | | 5.0 |
| 508 | Aldrin | 39330 | ND | | 0.075 |
| 525.2 | Bromacil (HYVAR) | 82198 | ND | | 10.0 |
| 525.2 | Butachlor | 77860 | ND | | 0.38 |
| 508 | Chlorothalonil (DACONIL, BRAVO) | 70314 | ND | | 5.0 |
| 525.2 | Diazinon | 39570 | ND | | 0.25 |
| 515.1 | Dicamba (BANVEL) | 82052 | ND | | 0.081 |
| 508 | Dieldrin | 39380 | ND | | 0.02 |
| 525.2 | Dimethoate (CYGON) | 38458 | ND | | 10.0 |
| 525.2 | Diuron | 39650 | ND | | 1.0 |
| 525.2 | Metolachlor | 39356 | ND | | |
| 525.2 | Metribuzin | 81408 | ND | | |
| 525.2 | Prometryn (CAPAROL) | 39057 | ND | | 2.0 |
| 508 | Propachlor | 38533 | ND | | 0.5 |

Laboratory comments and description of any additional compounds found:

Metolachlor DLR = 1.0 ug/L Metribuzin DLR = 0.15 ug/L

SDSHD



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TEST
QUALITY
GL BOARD

15 P 12:55

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road
Oceanside, CA 92054

Client I.D.: SLR RIVER @ BONSALL

Site:

Description:

Matrix: water

Page: 1 of 2

Lab No.: L66964-011

Date Reported: 04/07/00

Collected By: ORR

Date: 03/15/00

Time: 1345

Submitted By: Fed. Exp.

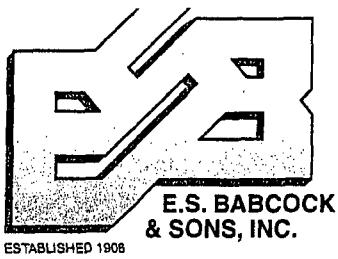
Date: 03/16/00

Time: 0830

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------------|--------------|-----------------------|
| Total Hardness | 760 | mg/L | Calculation | 3. 000317/LT |
| Calcium | 160 | mg/L | EPA 200.7 | 1. 000406/LT |
| Magnesium | 82. | mg/L | EPA 200.7 | 1. 000317/LT |
| Sodium | 190 | mg/L | EPA 200.7 | 1. 000406/LT |
| Total Alkalinity | 260 | mg/L | SM 2320 B | 3. 000317/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000317/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000317/LA |
| Bicarbonate | 320 | mg/L | SM 2320 B | 3. 000317/LA |
| Sulfate | 460 | mg/L | EPA 300.0 | 0.5 000317/KOS |
| Chloride | 270 | mg/L | EPA 300.0 | 1. 000317/KOS |
| Nitrate | 8. | mg/L | EPA 300.0 | 1. 000316/RK |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 000322/LA |
| pH | 8.2 | units | SM 4500-H | 1. 000316/DU |
| Specific Conductance | 2170 | umho/cm | SM 2510 | 1.0 000316/DU |
| Total Dissolved Solids | 1500 | mg/L | SM 2540C | 10 000320/HGA |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000321/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000316/TF |
| Aggressive Index | 13.5 | none | Calculation | 0.1 000330/SFR |
| Langelier Index Calculated at 25 C | 1.7 | none | Calculation | 0.1 000330/SFR |
| Temperature at Lab | 25 | deg C | SM 2550B | - 000316/GT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000317/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000328/DA |
| Arsenic | 0.003 | mg/L | EPA 200.8 | 0.002 000328/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000328/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BONSALL

Site:

Description:

Matrix: water

Page: 2 of 2

Lab No.: L66964-011

Date Reported: 04/07/00

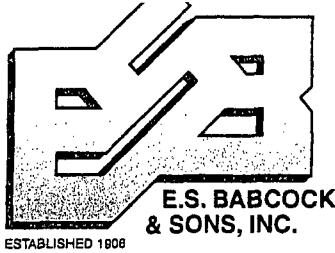
Collected By: ORR
Date: 03/15/00
Time: 1345
Submitted By: Fed.Exp.
Date: 03/16/00
Time: 0830

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|---------------|-----------|-----------------------|
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Iron | 0.24 | mg/L | EPA 200.7 | 0.02 000317/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 000328/DA |
| Manganese | 0.23 | mg/L | EPA 200.8 | 0.01 000328/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Selenium | ND | mg/L | EPA 200.8 | 0.005 000328/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



ESTABLISHED 1808

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS

Site:**Description:**

Matrix: water

Page: 1 of 2
Lab No.: L66964 010

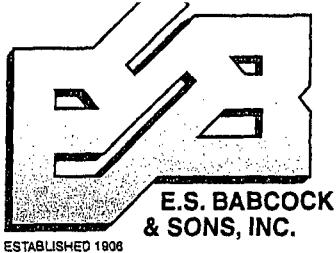
Date Reported: 04/07/00

Collected By: ORR
Date: 03/15/00
Time: 1230
Submitted By: Fed. Exp.
Date: 03/16/00
Time: 0830

| Constituent | Result | Method | RL | Date / Analyst |
|------------------------------------|--------|---------|--------------|-----------------|
| Total Hardness | 760 | mg/L | Calculation | 3. 000317/LT |
| Calcium | 160 | mg/L | EPA 200.7 | 1. 000406/LT |
| Magnesium | 88. | mg/L | EPA 200.7 | 1. 000406/LT |
| Sodium | 200 | mg/L | EPA 200.7 | 1. 000406/LT |
| Total Alkalinity | 260 | mg/L | SM 2320 B | 3. 000317/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000317/LA |
| Carbonate | 11. | mg/L | SM 2320 B | 3. 000317/LA |
| Bicarbonate | 300 | mg/L | SM 2320 B | 3. 000317/LA |
| Sulfate | 450 | mg/L | EPA 300.0 | 0.5 000317/KOS |
| Chloride | 310 | mg/L | EPA 300.0 | 1. 000317/KOS |
| Nitrate | 7. | mg/L | EPA 300.0 | 1. 000316/RK |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 000322/LA |
| pH | 8.5 | units | SM 4500-H | 1. 000316/DU |
| Specific Conductance | 2260 | umho/cm | SM 2510 | 1.0 000316/DU |
| Total Dissolved Solids | 1530 | mg/L | SM 2540C | 10 000320/HGA |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000321/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000316/TF |
| Aggressive Index | 13.8 | none | Calculation | 0.1 000330/SFR |
| Langelier Index Calculated at 25 C | 2.0 | none | Calculation | 0.1 000330/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - 000316/GT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000317/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000328/DA |
| Arsenic | 0.003 | mg/L | EPA 200.8 | 0.002 000328/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000328/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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e-mail: esbsales@aol.com
www.babcocklabs.com

5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS

Site:

Description:

Matrix: water

Page: 2 of 2
Lab No.: L66964-010

Date Reported: 04/07/00

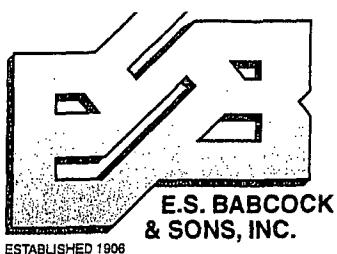
Collected By: ORR
Date: 03/15/00
Time: 1230
Submitted By: Fed. Exp.
Date: 03/16/00
Time: 0830

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|---------------|-----------|-----------------------|
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Iron | 0.06 | mg/L | EPA 200.7 | 0.02 000317/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 000328/DA |
| Manganese | 0.04 | mg/L | EPA 200.8 | 0.01 000328/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Selenium | 0.008 | mg/L | EPA 200.8 | 0.005 000328/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 1 of 2
Lab No.: I66964-008

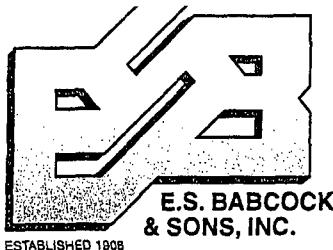
Date Reported: 04/07/00

Collected By: ORR
Date: 03/15/00
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/00
Time: 0830

| Constituent | Result | Method | RL | Date / Analyst |
|------------------------------------|--------|---------|--------------|-----------------|
| Total Hardness | 760 | mg/L | Calculation | 3. 000317/LT |
| Calcium | 160 | mg/L | EPA 200.7 | 1. 000406/LT |
| Magnesium | 83. | mg/L | EPA 200.7 | 1. 000317/LT |
| Sodium | 210 | mg/L | EPA 200.7 | 1. 000406/LT |
| Total Alkalinity | 270 | mg/L | SM 2320 B | 3. 000317/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000317/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000317/LA |
| Bicarbonate | 330 | mg/L | SM 2320 B | 3. 000317/LA |
| Sulfate | 430 | mg/L | EPA 300.0 | 0.5 000317/KOS |
| Chloride | 320 | mg/L | EPA 300.0 | 1. 000317/KOS |
| Nitrate | 6. | mg/L | EPA 300.0 | 1. 000316/RK |
| Fluoride | 0.4 | mg/L | SM 4500 FC | 0.1 000322/LA |
| pH | 8.0 | units | SM 4500-H | 1. 000316/DU |
| Specific Conductance | 2340 | umho/cm | SM 2510 | 1.0 000316/DU |
| Total Dissolved Solids | 1540 | mg/L | SM 2540C | 10 000320/HGA |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000321/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000316/TF |
| Color | 20. | units | SM 2120B | 3. 000317/LA |
| Odor | ND | TON | SM 2150 | 1. 000317/LA |
| Turbidity | 0.90 | NTU | SM 2130 | 0.05 000317/LA |
| Aggressive Index | 13.3 | none | Calculation | 0.1 000330/SFR |
| Langelier Index Calculated at 25 C | 1.5 | none | Calculation | 0.1 000330/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - 000316/GT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000317/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: '



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www.babcocklabs.com

5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 2 of 2
Lab No.: L56964-008

Date Reported: 04/07/00

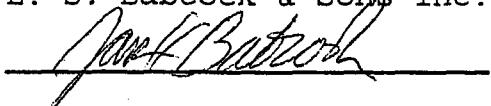
Collected By: ORR
Date: 03/15/00
Time: 1200
Submitted By: Fed.Exp.
Date: 03/16/00
Time: 0830

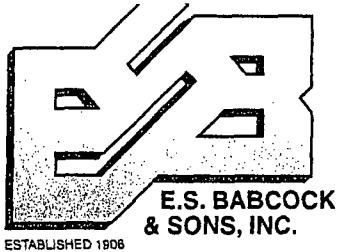
| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|-----------------|
| Arsenic | 0.004 | mg/L | EPA 200.8 | 0.002 000328/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000328/DA |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Copper | 0.01 | mg/L | EPA 200.8 | 0.01 000328/DA |
| Iron | 0.06 | mg/L | EPA 200.7 | 0.02 000317/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 000328/DA |
| Manganese | 0.05 | mg/L | EPA 200.8 | 0.01 000328/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Selenium | 0.009 | mg/L | EPA 200.8 | 0.005 000328/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000328/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 000328/DA |
| Zinc | 0.02 | mg/L | EPA 200.8 | 0.01 000328/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

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Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 1
Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR
Date: 03/15/200
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/200
Time: 0830

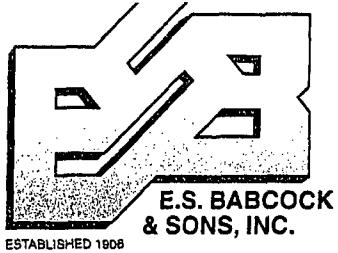
| <u>Constituent</u> | EPA 504.1 | | | <u>Result</u> | <u>RL</u> |
|----------------------|---------------|-----------|--------------------|--------------------|--------------|
| | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | | |
| Dibromochloropropane | ND | ug/L | 0.01 | Ethylene dibromide | ND ug/L 0.02 |

Date analyzed / Analyst: 03-23-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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A handwritten signature in black ink, appearing to read "John Babcock".



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Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 2
Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR
Date: 03/15/200
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/200
Time: 0830

EPA Method 507

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Alachlor | ND | ug/L | 1.0 | Atrazine | ND | ug/L | 1.0 |
| Bromacil | ND | ug/L | 10. | Butachlor | ND | ug/L | 0.4 |
| Diazinon | ND | ug/L | 0.3 | Dimethoate | ND | ug/L | 10. |
| Diuron | ND | ug/L | 1.0 | Metolachlor | ND | ug/L | 1.0 |
| Metribuzin | ND | ug/L | 0.2 | Molinate | ND | ug/L | 2.0 |
| Prometryn | ND | ug/L | 2.0 | Simazine | ND | ug/L | 1.0 |
| Thiobencarb | ND | ug/L | 1.0 | | | | |

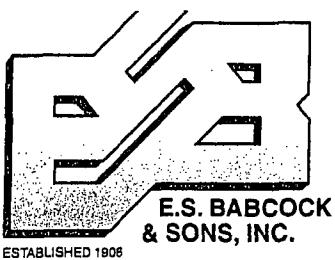
Date analyzed / Analyst: 03-28-2000 / DI

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 3
Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR
Date: 03/15/200
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/200
Time: 0830

EPA Method 515.1

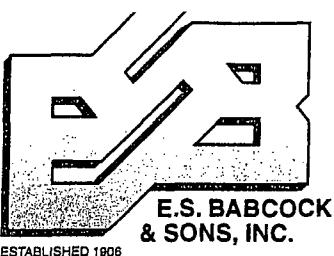
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Bentazon | ND | ug/L | 2.0 | 2,4-D | ND | ug/L | 10. |
| Dicamba | ND | ug/L | 0.8 | Dinoseb | ND | ug/L | 2.0 |
| Pentachlorophenol | ND | ug/L | 0.2 | Pichloram | ND | ug/L | 1.0 |
| 2,4,5-TP Silvex | ND | ug/L | 1.0 | Dalapon | ND | ug/L | 10. |

Date analyzed / Analyst: 03-23-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

Jay H Babcock



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& SONS, INC.

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 4
Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR
Date: 03/15/200
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/200
Time: 0830

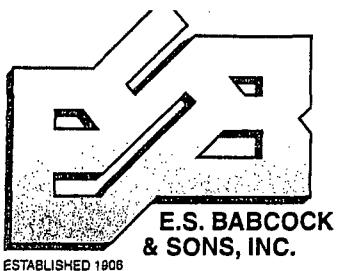
EPA Method 524.2

| Constituent | Result | RL | Constituent | Result | RL |
|---------------------------|--------|----------|-----------------------------|--------|----------|
| 1,1,1,2-Tetrachloroethane | ND | ug/L 0.5 | Chloroethane | ND | ug/L 0.5 |
| 1,1,1-Trichloroethane | ND | ug/L 0.5 | Chloroform | ND | ug/L 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L 0.5 | Chloromethane | ND | ug/L 0.5 |
| 1,1,2-Trichloroethane | ND | ug/L 0.5 | cis-1,2-Dichloroethene | ND | ug/L 0.5 |
| 1,1-Dichloroethane | ND | ug/L 0.5 | cis-1,3-Dichloropropene | ND | ug/L 0.5 |
| 1,1-Dichloroethene | ND | ug/L 0.5 | Dibromochloromethane | ND | ug/L 0.5 |
| 1,1-Dichloropropene | ND | ug/L 0.5 | Dibromomethane | ND | ug/L 0.5 |
| 1,2,3-Trichlorobenzene | ND | ug/L 0.5 | Dichlorodifluoromethane | ND | ug/L 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L 0.5 | 1,2,4-Trichlorobenzene | ND | ug/L 0.5 |
| 1,2,4-Trimethylbenzene | ND | ug/L 0.5 | Ethylbenzene | ND | ug/L 0.5 |
| 1,2-Dichlorobenzene | ND | ug/L 0.5 | Hexachlorobutadiene | ND | ug/L 0.5 |
| 1,2-Dichloroethane | ND | ug/L 0.5 | 1,2-Dichloropropane | ND | ug/L 0.5 |
| 1,3,5-Trimethylbenzene | ND | ug/L 0.5 | Isopropylbenzene | ND | ug/L 0.5 |
| 1,3-Dichlorobenzene | ND | ug/L 0.5 | 1,3-Dichloropropene | ND | ug/L 0.5 |
| Methyl tert Butyl Ether | ND | ug/L 3.0 | 1,4-Dichlorobenzene | ND | ug/L 0.5 |
| Methylene Chloride | ND | ug/L 0.5 | 2,2-Dichloropropane | ND | ug/L 0.5 |
| Naphthalene | ND | ug/L 0.5 | 2-Butanone (MEK) | ND | ug/L 5.0 |
| n-Butylbenzene | ND | ug/L 0.5 | 2-Chloroethylvinyl Ether | ND | ug/L 1.0 |
| n-Propylbenzene | ND | ug/L 0.5 | 2-Chlorotoluene | ND | ug/L 0.5 |
| p-Isopropyltoluene | ND | ug/L 0.5 | 4-Chlorotoluene | ND | ug/L 0.5 |
| sec-Butylbenzene | ND | ug/L 0.5 | 4-Methyl-2-Pentanone (MIBK) | ND | ug/L 5.0 |
| Styrene | ND | ug/L 0.5 | tert-Butylbenzene | ND | ug/L 0.5 |
| Tetrachloroethene | ND | ug/L 0.5 | Toluene | ND | ug/L 0.5 |
| trans-1,2-Dichloroethene | ND | ug/L 0.5 | Benzene | ND | ug/L 0.5 |

Date analyzed / Analyst: 03-21-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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www.babcocklabs.com

5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road
Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site:
Description:

Matrix: water

Page: 5
Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR
Date: 03/15/200
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/200
Time: 0830

EPA Method 524.2

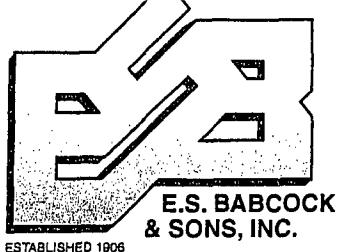
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|---------------------------|---------------|-----------|--------------------|--------------------------|-----------|------|-----|
| trans-1,3-Dichloropropene | ND | ug/L | 0.5 | Bis(2-Chloroethyl) Ether | ND | ug/L | 5.0 |
| Trichloroethene | ND | ug/L | 0.5 | Bromobenzene | ND | ug/L | 0.5 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | Bromoform | ND | ug/L | 0.5 |
| Trichlorotrifluoroethane | ND | ug/L | 10. | Bromochloromethane | ND | ug/L | 0.5 |
| Bromoform | ND | ug/L | 0.5 | Bromodichloromethane | ND | ug/L | 0.5 |
| Bromomethane | ND | ug/L | 0.5 | Vinyl Chloride | ND | ug/L | 0.5 |
| Xylenes (ortho) | ND | ug/L | 0.5 | Xylenes (m+p) | ND | ug/L | 0.5 |
| Chlorobenzene | ND | ug/L | 0.5 | Carbon Tetrachloride | ND | ug/L | 0.5 |
| tert-Amyl Methyl Ether | ND | ug/L | 3.0 | 1,4-Dioxane | ND | ug/L | 10. |
| | | | | Ethyl tert-Butyl Ether | ND | ug/L | 3.0 |

Date analyzed / Analyst: 03-21-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 6

Lab No.: L66964-008

Date Reported: 04/07/200

Collected By: ORR

Date: 03/15/200

Time: 1200

Submitted By: Fed.Exp.

Date: 03/16/200

Time: 0830

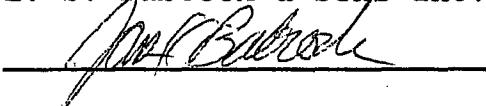
EPA Method 525.2

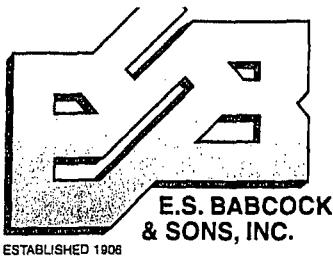
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|
| DEH-Adipate | ND | ug/L | 5.0 | DEH-Phthalate | ND | ug/L |
| Benzo(a)pyrene | ND | ug/L | 0.1 | | 3.0 | |

Date analyzed / Analyst: 03-27-2000 / JS
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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e-mail: esbsales@aol.com
www.babcocklabs.com

5697-56984

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 7
Lab No.: L66964-008

Date Reported: 04/07/2000

Collected By: ORR
Date: 03/15/2000
Time: 1200
Submitted By: Fed. Exp.
Date: 03/16/2000
Time: 0830

EPA Method 608

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|--------------------|-----------|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | ND | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | ND | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |

Date analyzed / Analyst: 03-29-2000 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



OGDEN
ENVIRONMENTAL AND ENERGY SERVICES

Ogden Bioassay Lab
5550 Morehouse Drive, Suite B
San Diego, CA 92121
858 458 9044 phone
858 458 0943 fax

Ogden Bioassay Northwest
5009 Pacific Highway East, Suite 2-0
Fife, WA 98424
253 922 4296 phone
253 922 4296 fax

00-145-3164
April 12, 2000

Ogden I.D. Test No. 0003- 080
California Lab Certification No. 1802

Ms. Mary Gonzales
City of Oceanside
3950 N. River Road
Oceanside, CA 92054

Dear Ms. Gonzales: *Mary,*

Enclosed is a report of the bioassay tests recently conducted by our laboratory on samples submitted by your firm. The samples were analyzed in accordance with United States Environmental Protection Agency and State of California Department of Fish and Game methodologies.

Please feel free to call me at (858) 458-9044, ext. 300 if you wish to discuss the results.
Thank you for your consideration.

Sincerely,



Marilyn J. Schwartz
Manager, Ogden Bioassay Lab

MJS:css

Enclosure

cc: File No. 3-2146-1000-0001-3164

Ogden Environmental and Energy Services
San Diego Bioassay Laboratory
5550 Morehouse Drive, Suite B
San Diego, California 92121
Phone: 858-458-9044
Fax: 858-458-0943

SUMMARY REPORT
Test Period: March 2000
Submittal: 11 April 2000

Client: City of Oceanside
Ogden Test Number: 0003-080

Sample Information

Facility: City of Oceanside
Sample ID: San Luis Rey River @ Benet Road
Test Period: March 2000
Sample Date: 3/3/00
Sample Receipt Date: 3/15/00
Sampling Method: Grab
Test Material: Ambient river sample

Test Specifications

Initiation Date: 3/16/00
Termination Date: 3/20/00
Test Organism: *Pimephales promelas* (Fathead minnow)
Test Organism Source: Aquatic Biosystems
Test Organism Age: 11 days
Dilution Water: 8:2 EPA Standard Lab Freshwater
Test Concentrations: 100, 50, 25, 12.5, and 6.25 percent; plus lab controls
Protocol Used: EPA, 1991
Statistical Analysis Software: TOXCALC, version 5.0

City of Oceanside – Summary Bioassay Results for SLR River Sample – March 2000

| Test Species and Procedure | Results (LC50 in % effluent) | TUc value (toxicity units) |
|-------------------------------------|---------------------------------|-------------------------------|
| Fathead minnow acute survival assay | >100 | 0.41 |

Appendix A

Pimephales promelas (Fathead minnow) Survival

Test Data and Statistical Summaries

Freshwater 96-hr Acute with Renewal

96 Hour Toxicity Test Data Sheet - Ogden Bioassay Laboratory

Client: City of Oceanside
 Sample ID: SLR River
 Contact: Mary Gonzales
 Test #: 0003 - 080

Start Date & Time: 3-16-00 1200
 End Date & Time: 3-20-00 1100
 Test Organism: P. promelas
 Test Protocol: EPA 91 Acute

| Concentration or Percent | Rep | Number of Live Organisms | | | | | | D.O. (mg/L) | | | | | | pH (mg/L) | | | | | | Conductivity (μ hos-cm) | | | | | | Test Temperature (°C) | | | | | | % Surv. |
|--------------------------------|-----|-----------------------------|----|----|----|----|-----|----------------|------|-----|-------|------|------|--------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|--------------------------|------|------|-----|----|-----|------------|
| | | 0 | 24 | 48 | 72 | 96 | 0 | 24 | 48 | 72 | 96 | 0 | 24 | 48 | 72 | 96 | 0 | 48 | 48 | 96 | 0 | 24 | 48 | 72 | 96 | 0 | 24 | 48 | 72 | 96 | | |
| Control | A | 10 | 10 | 10 | 10 | 10 | 8.4 | - | 8.1 | 8.0 | 80-80 | 7.93 | - | 8.12 | 8.08 | - | 8.07 | 168 | 188 | 173 | 176 | 20.1 | 20.5 | 24.9 | 20.5 | 20.6 | 20.6 | 100 | | | | |
| | B | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| 6.25 % | A | 10 | 10 | 10 | 10 | 10 | 8.6 | - | 8.2 | 8.0 | - | 7.8 | 8.09 | - | 8.12 | 8.10 | - | 8.14 | 298 | 341 | 310 | 312 | 19.3 | 20.5 | 24.9 | 20.5 | 20.5 | 20.4 | 100 | | | |
| | B | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| 12.5 % | A | 10 | 10 | 10 | 10 | 10 | 8.6 | - | 8.4 | 8.1 | - | 8.0 | 8.12 | - | 8.12 | 8.15 | - | 8.24 | 434 | 500 | 446 | 458 | 19.4 | 20.6 | 24.9 | 20.5 | 20.5 | 20.5 | 100 | | | |
| | B | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| 25 % | A | 10 | 9 | 9 | 9 | 9 | 8.8 | - | 8.5 | 7.8 | - | 8.1 | 8.11 | - | 8.10 | 8.19 | - | 8.29 | 712 | 804 | 720 | 731 | 19.8 | 20.6 | 24.8 | 20.9 | 20.5 | 20.5 | 90 | | | |
| | B | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| 50 % | A | 10 | 10 | 10 | 10 | 10 | 9.0 | - | 9.0 | 7.9 | - | 8.0 | 8.07 | - | 8.08 | 8.24 | - | 8.42 | 1220 | 1337 | 1226 | 1220 | 19.9 | 20.6 | 20.6 | 20.4 | 20.5 | 20.5 | 100 | | | |
| | B | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| 100 % | A | 10 | 10 | 10 | 10 | 10 | 9.7 | - | 10.0 | 8.0 | - | 8.1 | 8.01 | - | 8.01 | 8.42 | - | 8.52 | 2130 | 2340 | 2120 | 2130 | 20.1 | 20.5 | 20.6 | 20.4 | 20.5 | 20.4 | 100 | | | |
| | B | 10 | 10 | 10 | 9 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | 90 | |

Technician Initials JR GD GD AR JWI

| Conc. | Alkalinity* | Hardness* | Chlorine Residual (mg/L) |
|---------------|-------------------------------|-----------|-----------------------------|
| | *(mg/L as CaCO ₃) | | |
| Control | 74 | 82 | <0.01 |
| Highest conc. | 276 | 770 | <0.01 |

Comments: 0 hrs: Organisms 11 days old
 24 hrs.
 48 hrs. fed 0815
 72 hrs.
 96 hrs.

Reviewed: 4-11-00QA check: JL 4/4/00Sample Description: clear, no debris, no odor, yellow-brown tint

Ogden Bioassay Laboratory
 5550 Morehouse Dr., Suite. B
 San Diego, CA 92121
 (858) 458-9044

Appendix B

Chain-of-Custody Form

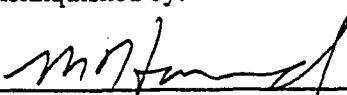
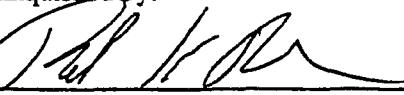
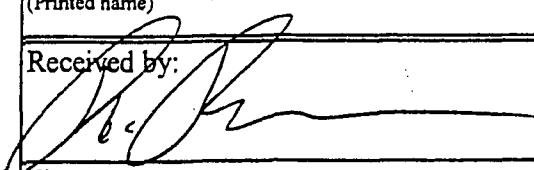
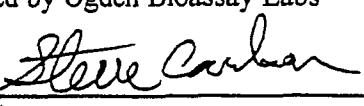
City of Oceanside Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

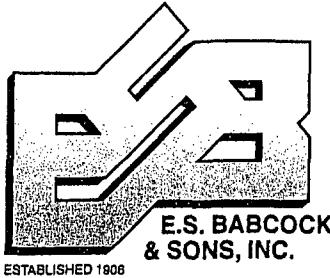
phone: 760-966-8772
fax: 760-966-8770

To: Ogden Bioassay Labs

P.O. # 55807

Date: March 15, 2000

| Sample Description | Date/Time Sampled | Analyze for: |
|---|---|----------------|
| SLR River @ Benet Rd grab sample | 03-March-00 @ 1200 | Acute toxicity |
| Relinquished by:  1520 (Signature) | Relinquished by:  1650 (Signature) | |
| Michael Hammond 3/15/00 (Printed name) | Robert Rose 152 3/15/00 (Printed name) | |
| Received by:  1520 (Signature) | Received by Ogden Bioassay Labs  1650 (Signature) | |
| Robert Rose 152 3/15/00 (Printed name) | Steve Carlson 3/15/00 (Printed name) | |



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1906

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

2001 MAY 15 P 12:55

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER A @ BONSAL
Site: MISSION BASIN
Description:

Matrix: water

Page: 1 of 2
Lab No.: L70934-010

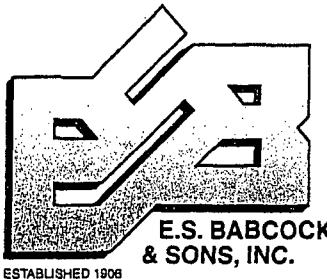
Date Reported: 07/06/00

Collected By: TW
Date: 06/21/00
Time: 1210
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------------|--------------|-----------------------|
| Total Hardness | 880 | mg/L | Calculation | 3. 000626/LT |
| Calcium | 190 | mg/L | EPA 300.7 | 1. 000626/LT |
| Magnesium | 98. | mg/L | EPA 200.7 | 1. 000626/LT |
| Sodium | 230 | mg/L | EPA 200.7 | 1. 000626/LT |
| Total Alkalinity | 310 | mg/L | SM 2320 B | 3. 000623/AEC |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Bicarbonate | 380 | mg/L | SM 2320 B | 3. 000623/AEC |
| Sulfate | 480 | mg/L | EPA 300.0 | 0.5 000623/KOS |
| Chloride | 330 | mg/L | EPA 300.0 | 1. 000623/KOS |
| Nitrate | 2. | mg/L | EPA 300.0 | 1. 000622/FRY |
| Fluoride | 0.5 | mg/L | SM 4500-FC | 0.1 000628/LA |
| pH | 8.2 | units | SM 4500-H | - 000622/KOS |
| Specific Conductance | 2320 | umho/cm | SM 2510 | 1.0 000622/KOS |
| Total Dissolved Solids | 1840 | mg/L | SM 2540C | 10 000628/AEC |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000628/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000623/AEC |
| Aggressive Index | 13.6 | none | Calculation | 0.1 000705/SFR |
| Langelier Index Calculated at 25 C | 1.8 | none | Calculation | 0.1 000705/SFR |
| Temperature at Lab | 25 | deg C | SM 2550B | - 000622/MFT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000626/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000626/DA |
| Arsenic | 0.003 | mg/L | EPA 200.8 | 0.002 000626/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000626/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER A @ BONSAL
Site: MISSION BASIN
Description:

Matrix: water

Page: 2 of 2
Lab No.: L70934-010

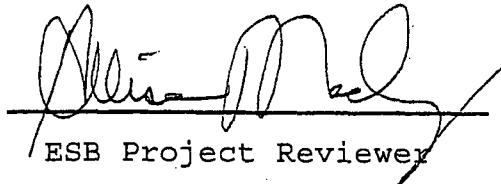
Date Reported: 07/06/00

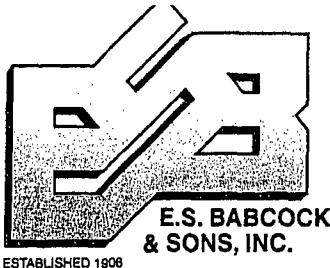
Collected By: TW
Date: 06/21/00
Time: 1210
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|------|---------------|-----------|-----------------------|
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Iron | 0.07 | mg/L | EPA 200.7 | 0.02 | 000626/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 | 000626/DA |
| Manganese | 0.59 | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Selenium | 0.005 | mg/L | EPA 200.8 | 0.005 | 000626/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



E.S. BABCOCK
& SONS, INC.

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS
Site: MISSION BASIN
Description:

Matrix: water

Page: 1 of 2

Lab No.: L70934 009

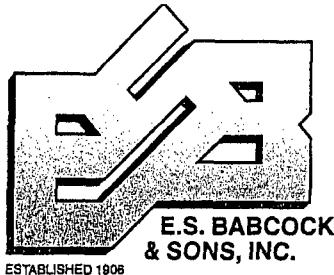
Date Reported: 07/06/00

Collected By: TW
Date: 06/21/00
Time: 1147
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------------|--------------|-----------------------|
| Total Hardness | 810 | mg/L | Calculation | 3. 000626/LT |
| Calcium | 180 | mg/L | EPA 200.7 | 1. 000626/LT |
| Magnesium | 90. | mg/L | EPA 200.7 | 1. 000626/LT |
| Sodium | 240 | mg/L | EPA 200.7 | 1. 000626/LT |
| Total Alkalinity | 270 | mg/L | SM 2320 B | 3. 000623/AEC |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Bicarbonate | 130 | mg/L | SM 2320 B | 3. 000623/AEC |
| Sulfate | 390 | mg/L | EPA 300.0 | 0.5 000623/KOS |
| Chloride | 360 | mg/L | EPA 300.0 | 1. 000623/KOS |
| Nitrate | ND | mg/L | EPA 300.0 | 1. 000622/FRY |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 000623/LA |
| pH | 8.3 | units | SM 4500-H | - 000622/KOS |
| Specific Conductance | 2220 | umho/cm | SM 2510 | 1.0 000622/KOS |
| Total Dissolved Solids | 1660 | mg/L | SM 2540C | 10 000628/AEC |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000628/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000623/AEC |
| Aggressive Index | 13.6 | none | Calculation | 0.1 000705/SFR |
| Langelier Index Calculated at 25 C | 1.8 | none | Calculation | 0.1 000705/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - 000622/MFT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000626/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000626/DA |
| Arsenic | 0.003 | mg/L | EPA 200.8 | 0.002 000626/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000626/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1906

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS
Site: MISSION BASIN
Description:

Matrix: water

Page: 2 of 2
Lab No.: L70934-009

Date Reported: 07/06/00

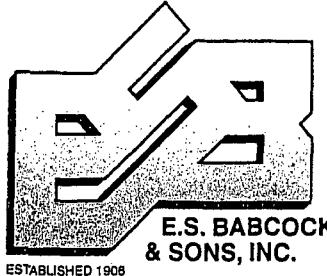
Collected By: TW
Date: 06/21/00
Time: 1147
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|-----------------|
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 000626/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 000626/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000626/DA |
| Iron | ND | mg/L | EPA 200.7 | 0.02 000626/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 000626/DA |
| Manganese | 0.02 | mg/L | EPA 200.8 | 0.01 000626/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 000630/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 000626/DA |
| Selenium | 0.007 | mg/L | EPA 200.8 | 0.005 000626/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000626/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 000626/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD

Oliver M. May
ESB Project Reviewer



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site: MISSION BASIN
Description:

Matrix: water

Page: 1 of 2
Lab No.: L70934-011

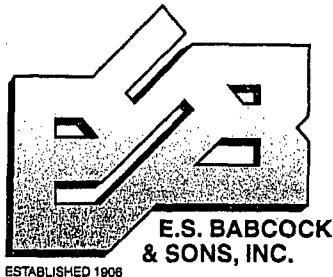
Date Reported: 07/06/00

Collected By: TW
Date: 06/21/00
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------------|--------------|-----------------------|
| Total Hardness | 850 | mg/L | Calculation | 3. 000626/LT |
| Calcium | 190 | mg/L | EPA 200.7 | 1. 000626/LT |
| Magnesium | 91. | mg/L | EPA 200.7 | 1. 000626/LT |
| Sodium | 260 | mg/L | EPA 200.7 | 1. 000626/LT |
| Total Alkalinity | 310 | mg/L | SM 2320 B | 3. 000623/AEC |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000623/AEC |
| Bicarbonate | 380 | mg/L | SM 2320 B | 3. 000623/AEC |
| Sulfate | 420 | mg/L | EPA 300.0 | 0.5 000623/KOS |
| Chloride | 410 | mg/L | EPA 300.0 | 1. 000623/KOS |
| Nitrate | 2. | mg/L | EPA 300.0 | 1. 000622/FRY |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 000628/LA |
| pH | 7.9 | units | SM 4500-H | - 000622/KOS |
| Specific Conductance | 2440 | umho/cm | SM 2510 | 1.0 000622/KOS |
| Total Dissolved Solids | 1800 | mg/L | SM 2540C | 10 000628/AEC |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 000628/TF |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 000623/AEC |
| Aggressive Index | 13.3 | none | Calculation | 0.1 000705/SFR |
| Langelier Index Calculated at 25 C | 1.5 | none | Calculation | 0.1 000705/SFR |
| Temperature at Lab | 25 | deg C | SM 2550B | - 000622/MFT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 000626/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000626/DA |
| Arsenic | 0.004 | mg/L | EPA 200.8 | 0.002 000626/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000626/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site: MISSION BASIN

Description:

Matrix: water

Page: 2 of 2
Lab No.: L70934-011

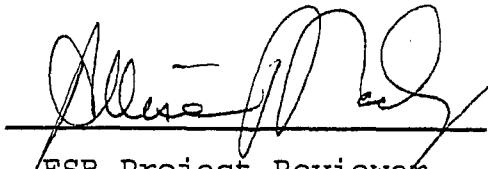
Date Reported: 07/06/00

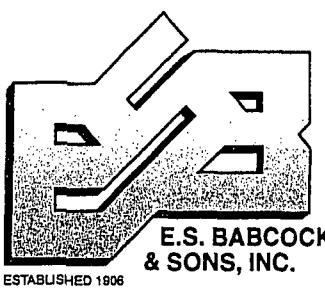
Collected By: TW
Date: 06/21/00
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/00
Time: 0850

| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|------|---------------|-----------|-----------------------|
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Iron | 0.21 | mg/L | EPA 200.7 | 0.02 | 000626/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 | 000626/DA |
| Manganese | 0.52 | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Selenium | 0.009 | mg/L | EPA 200.8 | 0.005 | 000626/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 | 000626/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 | 000626/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site: MISSION BASIN

Description:

Matrix: water

Page: 1
Lab No.: D70934-011

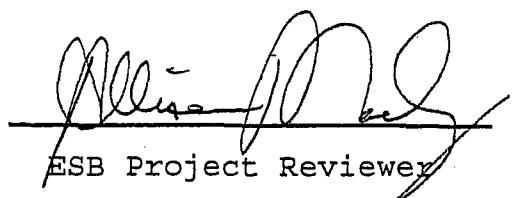
Date Reported: 07/06/2000

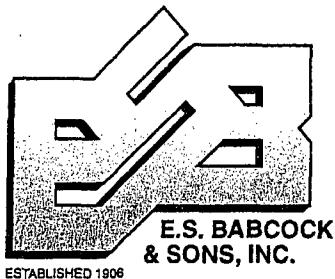
Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/2000
Time: 0850

| <u>Constituent</u> | EPA 504.1 | | | <u>Result</u> | <u>RL</u> |
|----------------------|---------------|-----------|--------------------|--------------------|--------------|
| | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | | |
| Dibromochloropropane | ND | ug/L | 0.01 | Ethylene dibromide | ND ug/L 0.02 |

Date analyzed / Analyst: 06-28-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1906

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Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site: MISSION BASIN

Description:

Matrix: water

Page: 2
Lab No.: L70934-011

Date Reported: 07/06/2000

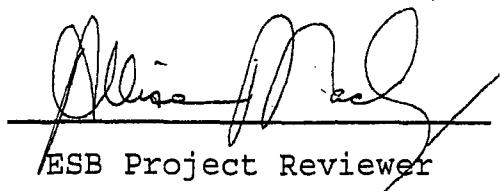
Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/2000
Time: 0850

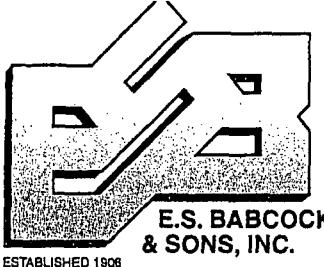
EPA Method 507

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Alachlor | ND | ug/L | 1.0 | Atrazine | ND | ug/L | 1.0 |
| Bromacil | ND | ug/L | 10. | Butachlor | ND | ug/L | 0.4 |
| Diazinon | ND | ug/L | 0.3 | Dimethoate | ND | ug/L | 10. |
| Diuron | ND | ug/L | 1.0 | Metolachlor | ND | ug/L | 1.0 |
| Metribuzin | ND | ug/L | 0.2 | Molinate | ND | ug/L | 2.0 |
| Prometryn | ND | ug/L | 2.0 | Simazine | ND | ug/L | 1.0 |
| Thiobencarb | ND | ug/L | 1.0 | | | | |

Date analyzed / Analyst: 06-27-2000 / DI
ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



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Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site: MISSION BASIN

Description:

Matrix: water

Page: 3
Lab No.: L70934-011

Date Reported: 07/06/2000

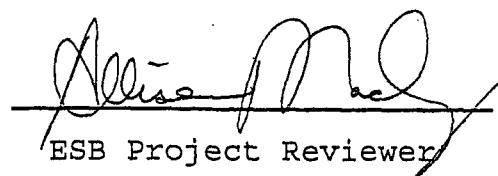
Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed.Ex.
Date: 06/22/2000
Time: 0850

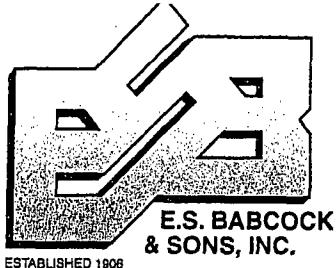
EPA Method 515.1

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Bentazon | ND | ug/L | 2.0 | 2,4-D | ND | ug/L | 10. |
| Dicamba | ND | ug/L | 0.8 | Dinoseb | ND | ug/L | 2.0 |
| Pentachlorophenol | ND | ug/L | 0.2 | Pichloram | ND | ug/L | 1.0 |
| 2,4,5-TP Silvex | ND | ug/L | 1.0 | Dalapon | ND | ug/L | 10. |

Date analyzed / Analyst: 06-29-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



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www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site: MISSION BASIN
Description:

Matrix: water

Page: 4
Lab No.: L70934-011

Date Reported: 07/06/2000

Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/2000
Time: 0850

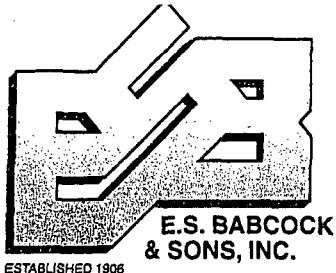
EPA Method 524.2

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|---------------------------|---------------|-----------|--------------------|-----------------------------|-----------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloroethane | ND | ug/L | 0.5 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.5 | Chloroform | ND | ug/L | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloromethane | ND | ug/L | 0.5 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.5 | cis-1,2-Dichloroethene | ND | ug/L | 0.5 |
| 1,1-Dichloroethane | ND | ug/L | 0.5 | cis-1,3-Dichloropropene | ND | ug/L | 0.5 |
| 1,1-Dichloroethene | ND | ug/L | 0.5 | Dibromochloromethane | ND | ug/L | 0.5 |
| 1,1-Dichloropropene | ND | ug/L | 0.5 | Dibromomethane | ND | ug/L | 0.5 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.5 | Dichlorodifluoromethane | ND | ug/L | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.5 | 1,2,4-Trichlorobenzene | ND | ug/L | 0.5 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.5 | Ethylbenzene | ND | ug/L | 0.5 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.5 | Hexachlorobutadiene | ND | ug/L | 0.5 |
| 1,2-Dichloroethane | ND | ug/L | 0.5 | 1,2-Dichloropropane | ND | ug/L | 0.5 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.5 | Isopropylbenzene | ND | ug/L | 0.5 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.5 | 1,3-Dichloropropane | ND | ug/L | 0.5 |
| Methyl tert Butyl Ether | ND | ug/L | 3.0 | 1,4-Dichlorobenzene | ND | ug/L | 0.5 |
| Methylene Chloride | ND | ug/L | 0.5 | 2,2-Dichloropropane | ND | ug/L | 0.5 |
| Naphthalene | ND | ug/L | 0.5 | 2-Butanone (MEK) | ND | ug/L | 5.0 |
| n-Butylbenzene | ND | ug/L | 0.5 | 2-Chloroethylvinyl Ether | ND | ug/L | 1.0 |
| n-Propylbenzene | ND | ug/L | 0.5 | 2-Chlorotoluene | ND | ug/L | 0.5 |
| p-Isopropyltoluene | ND | ug/L | 0.5 | 4-Chlorotoluene | ND | ug/L | 0.5 |
| sec-Butylbenzene | ND | ug/L | 0.5 | 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 5.0 |
| Styrene | ND | ug/L | 0.5 | tert-Butylbenzene | ND | ug/L | 0.5 |
| Tetrachloroethene | ND | ug/L | 0.5 | Toluene | ND | ug/L | 0.5 |
| trans-1,2-Dichloroethene | ND | ug/L | 0.5 | Benzene | ND | ug/L | 0.5 |

Date analyzed / Analyst: 06-29-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD



E.S. BABCOCK
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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road
Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site: MISSION BASIN
Description:

Matrix: water

Page: 5
Lab No.: L70934-011

Date Reported: 07/06/2000

Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/2000
Time: 0850

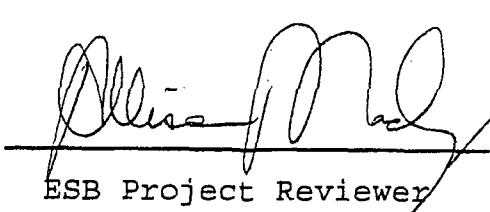
EPA Method 524.2

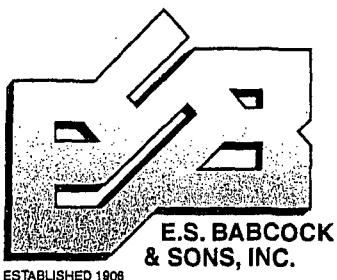
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|---------------------------|---------------|-----------|--------------------|--------------------------|-----------|------|-----|
| trans-1,3-Dichloropropene | ND | ug/L | 0.5 | Bis(2-Chloroethyl) Ether | ND | ug/L | 5.0 |
| Trichloroethene | ND | ug/L | 0.5 | Bromobenzene | ND | ug/L | 0.5 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | Bromo-chloromethane | ND | ug/L | 0.5 |
| Trichlorotrifluoroethane | ND | ug/L | 10. | Bromodichloromethane | ND | ug/L | 0.5 |
| Bromoform | ND | ug/L | 0.5 | Vinyl Chloride | ND | ug/L | 0.5 |
| Bromomethane | ND | ug/L | 0.5 | Xylenes (m+p) | ND | ug/L | 0.5 |
| Xylenes (ortho) | ND | ug/L | 0.5 | Carbon Tetrachloride | ND | ug/L | 0.5 |
| Chlorobenzene | ND | ug/L | 0.5 | 1,4-Dioxane | ND | ug/L | 10 |
| tert-Amyl Methyl Ether | ND | ug/L | 3.0 | Ethyl tert-Butyl Ether | ND | ug/L | 3.0 |

Date analyzed / Analyst: 06-29-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



ESTABLISHED 1908

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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site: MISSION BASIN
Description:

Matrix: water

Page: 6
Lab No.: L70934-011

Date Reported: 07/06/2000

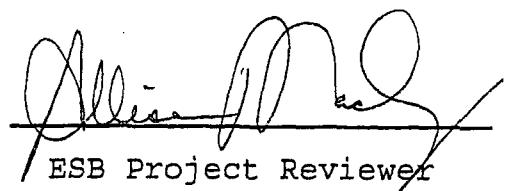
Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed. Exp.
Date: 06/22/2000
Time: 0850

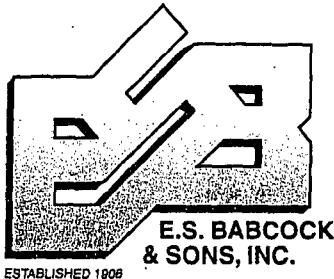
EPA Method 525.2

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| DEH-Adipate | ND | ug/L | 5.0 | DEH-Phthalate | ND | ug/L | 3.0 |

Date analyzed / Analyst: 06-30-2000 / JS
ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer



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Laboratory Results

5697-57297

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD
Site: MISSION BASIN
Description:

Matrix: water

Page: 7
Lab No.: L70934-011

Date Reported: 07/06/2000

Collected By: TW
Date: 06/21/2000
Time: 0909
Submitted By: Fed.Exp.
Date: 06/22/2000
Time: 0850

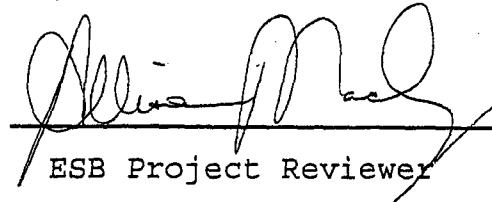
EPA Method 608

| Constituent | Result | RL | Constituent | Result | RL | | |
|--------------|--------|------|-------------|--------------------|----|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | 0.2 | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | 1.6 | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |

Date analyzed / Analyst: 06-26-2000 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc: SDSHD


ESB Project Reviewer

City of Oceanside Water Utilities Department Laboratory
San Luis Rey Wastewater Treatment Plant
3950 North River Road
Oceanside, California 92054

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

phone: 760-966-8772
fax: 760-966-8770

2001 MAY 15 P 12:55

To: E. S. Babcock & Sons

P.O. # 57495

Date: September 19, 2000

| Sample Description | Date/Time Sampled | Analyze for: |
|------------------------|---|---|
| SLR River @ Benet Rd | 19-Sep-00 @ 0909 <i>6-Ltr. 2-nm 2-HCl-V 2-ump-V 1-H2-Q 2-ump-Q</i> | CN, Fluoride, Nitrate, Nitrite, Cl, Alkalinity Corrosivity, Sulfate, TPO ₄ , OrthoPO ₄ , Hardness, ec, TDS, Al, Sb, As, Ba, Be, Cd Cr, Cu, Fe, Pb, Mn, Mg, Hg, Ni, Se, Ag, Tl, Zn, Ca, Na, TKN, ammonia EPA 504 - EDB, DBCP EPA 507 - Atrazine, etc EPA 608 - Pest pcb EPA 515.1 - Cl herbicides EPA 524.2 - VOC EPA 525 - DEHP, DEHA formaldehyde, oil/grease - EPA 1664. |
| SLR River @ Douglas Dr | 19-Sep-00 @ 1147 | analyze both samples for: |
| SLR River @ Bonsall | 19-Sep-00 @ 1210 <i>2-ump. Q 2-ump. Qt, 1-H2SO4-1 Ltr.</i> | CN, Fluoride, Nitrate, Nitrite, Cl, Alkalinity Hardness, ec, TDS, Al, Sb, As, Ba, Be, Cd Cr, Cu, Fe, Pb, Mn, Mg, Hg, Ni, Se, Ag, Tl, Zn, Ca, Na, TKN, ammonia Bonsall only for EPA 608 - pest/pcbs |
| SLR River @ Pacific St | 19-Sep-00 @ <i>1-H2-Q, 1-ump. Qt.</i> | NO ₂ , NO ₃ , NH ₄ , TKN, TPO ₄ , O-PO ₄ |

Relinquished by:

Mary Gonzales

(Signature)

Relinquished by:

Fed. Exp

(Time)

MARY GONZALES

9/19/00

(Printed name)

(Date)

(Date)

Received by:

Received by E. S. Babcock & Sons

Karen Tracy 09/20/00

(Signature)

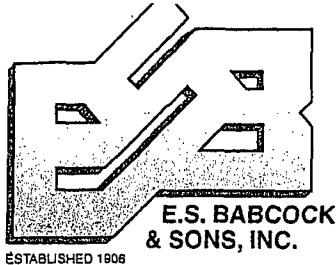
(Time)

(Printed name)

(Date)

(Time)

(Date)



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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ PACIFIC

Site:

Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L74687-004

Date Reported: 10/09/00

Collected By:
Date: 09/19/00
Time: 0000
Submitted By: Fed. Exp.
Date: 09/20/00
Time: 0845

| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|----------------------------|---------------|------|---------------|-----------|-----------------------|
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 | 000927/KS |
| Nitrate-Nitrogen | 1.7 | mg/L | EPA 300.0 | 0.2 | 000922/MH |
| Ortho Phosphate Phosphorus | 0.22 | mg/L | SM 4500-PE | 0.05 | 000921/HGA |
| Total Phosphorus | 0.42 | mg/L | SM 4500-PB4E | 0.05 | 000927/HGA |
| Nitrite-Nitrogen | ND | mg/L | EPA 354.1 | 0.1 | 000921/LA |
| Kjeldahl Nitrogen | 0.7 | mg/L | EPA 351.2 | 0.1 | 000926/KS |

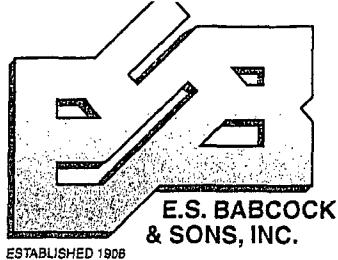
ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. ANALYZED @0820

cc:



ESB Project Reviewer



Environmental Laboratory Certification #1156
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BONSALL

Site:

Description:

Matrix: wastewater

Page: 1 of 2
Lab No.: L74687-0103

Date Reported: 10/09/00

Collected By:

Date: 09/19/00

Time: 1210

Submitted By: Fed. Exp.

Date: 09/20/00

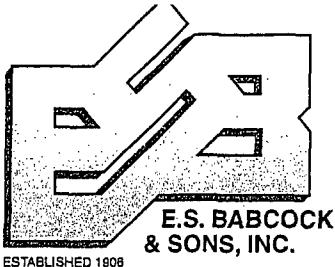
Time: 0845

| Constituent | Result | Method | RL | Date / Analyst |
|----------------------------|--------|---------|--------------|-----------------|
| Total Hardness | 920 | mg/L | EPA 200.7 | 3. 000929/LT |
| Calcium | 190 | mg/L | EPA 200.7 | 1. 000929/LT |
| Magnesium | 110 | mg/L | EPA 200.7 | 1. 000929/LT |
| Sodium | 260 | mg/L | EPA 200.7 | 1. 000929/LT |
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 000927/KS |
| Total Alkalinity | 330 | mg/L | SM 2320 B | 3. 000920/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000920/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000920/LA |
| Bicarbonate | 400 | mg/L | SM 2320 B | 3. 000920/LA |
| Chloride | 380 | mg/L | EPA 300.0 | 1. 000925/KOS |
| Nitrate-Nitrogen | 0.4 | mg/L | EPA 300.0 | 0.2 000922/MH |
| Fluoride | 0.5 | mg/L | EPA 340.2 | 0.1 001002/KGS |
| Specific Conductance | 2640 | umho/cm | EPA 120.1 | 1.0 000920/JLB |
| Total Dissolved Solids | 1870 | mg/L | EPA 160.1 | 10. 000925/JB |
| Cyanide | ND | mg/L | EPA 335.4 | 0.01 001002/TF |
| Ortho Phosphate Phosphorus | ND | mg/L | SM 4500-PF | 0.05 000921/HGA |
| Total Phosphorus | 0.1 | mg/L | SM 4500-PB4E | 0.05 000927/HGA |
| Nitrite-Nitrogen | ND | mg/L | EPA 354.1 | 0.1 000921/LA |
| Kjeldahl Nitrogen | 0.5 | mg/L | EPA 351.2 | 0.1 000926/KS |
| Aluminum | ND | mg/L | EPA 200.7 | 0.1 000929/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Arsenic | ND | mg/L | EPA 200.8 | 0.005 000929/DA |
| Barium | 0.07 | mg/L | EPA 200.8 | 0.02 000929/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Cadmium | ND | mg/L | EPA 200.8 | 0.002 000929/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. ANALYZED @0820

cc:



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
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PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BONSALL

Site:

Description:

Matrix: wastewater

Page: 2 of 2
Lab No.: L74687-003

Date Reported: 10/09/00

Collected By:

Date: 09/19/00

Time: 1210

Submitted By: Fed.Exp.

Date: 09/20/00

Time: 0845

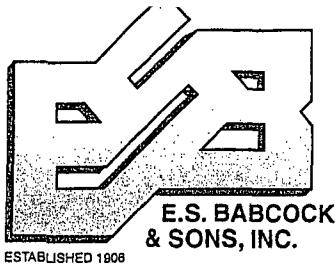
| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|------------------|
| Total Chromium | ND | mg/L | EPA 200.8 | 0.02 000929/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Iron | 0.11 | mg/L | EPA 200.7 | 0.02 000929/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Manganese | 0.18 | mg/L | EPA 200.8 | 0.01 000929/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.0005 000929/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.02 000929/DA |
| Selenium | 0.007 | mg/L | EPA 200.8 | 0.005 000929/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.2 000929/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 000929/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. ANALYZED @0820

cc:


ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BONSALL

Site:

Description:

Matrix: wastewater

Page: 1
Lab No.: L74687-003

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 1210

Submitted By: Fed.Exp.

Date: 09/20/2000

Time: 0845

EPA Method 608

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|--------------------|-----------|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | ND | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | ND | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |

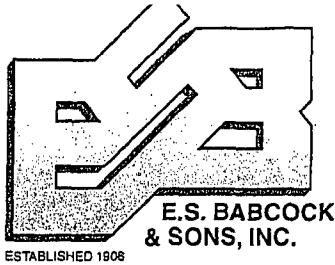
Date analyzed / Analyst: 09-22-2000 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS

Site:

Description:

Matrix: wastewater

Page: 1 of 2
Lab No.: L74687-002

Date Reported: 10/09/00

Collected By:

Date: 09/19/00

Time: 1147

Submitted By: Fed. Exp.

Date: 09/20/00

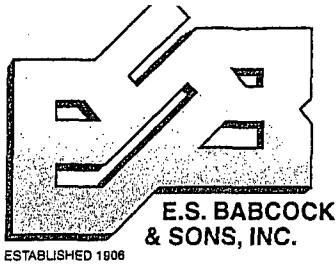
Time: 0845

| Constituent | Result | Method | RL | Date / Analyst |
|----------------------------|--------|---------|--------------|-----------------|
| Total Hardness | 840 | mg/L | EPA 200.7 | 3. 000929/LT |
| Calcium | 180 | mg/L | EPA 200.7 | 1. 000929/LT |
| Magnesium | 94. | mg/L | EPA 200.7 | 1. 000929/LT |
| Sodium | 230 | mg/L | EPA 200.7 | 1. 000929/LT |
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 000927/KS |
| Total Alkalinity | 320 | mg/L | SM 2320 B | 3. 000920/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 000920/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 000920/LA |
| Bicarbonate | 390 | mg/L | SM 2320 B | 3. 000920/LA |
| Chloride | 340 | mg/L | EPA 300.0 | 1. 000925/KOS |
| Nitrate-Nitrogen | ND | mg/L | EPA 300.0 | 0.2 000922/MH |
| Fluoride | 0.4 | mg/L | EPA 340.2 | 0.1 001002/KOS |
| Specific Conductance | 2330 | umho/cm | EPA 120.1 | 1.0 000920/JLB |
| Total Dissolved Solids | 1680 | mg/L | EPA 160.1 | 10 000925/JB |
| Cyanide | ND | mg/L | EPA 335.4 | 0.01 000927/TF |
| Ortho Phosphate Phosphorus | ND | mg/L | SM 4500-PE | 0.05 000921/HGA |
| Total Phosphorus | 0.18 | mg/L | SM 4500-PB4E | 0.05 000926/HGA |
| Nitrite-Nitrogen | ND | mg/L | EPA 354.1 | 0.1 000921/LA |
| Kjeldahl Nitrogen | 0.6 | mg/L | EPA 351.2 | 0.1 000926/KS |
| Aluminum | 0.1 | mg/L | EPA 200.7 | 0.1 000929/LT |
| Antimony | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Arsenic | ND | mg/L | EPA 200.8 | 0.005 000929/DA |
| Barium | 0.08 | mg/L | EPA 200.8 | 0.02 000929/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Cadmium | ND | mg/L | EPA 200.8 | 0.002 000929/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Ortho-phosphate ANALYZED @0820

cc:



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ DOUGLAS

Site:

Description:

Matrix: wastewater

Page: 2 of 2

Lab No.: 174687-002

Date Reported: 10/09/00

Collected By:

Date: 09/19/00

Time: 1147

Submitted By: Fed.Exp.

Date: 09/20/00

Time: 0845

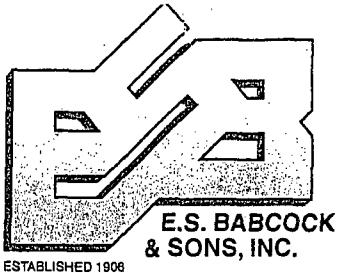
| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|---------------|-----------|-----------------------|
| Total Chromium | ND | mg/L | EPA 200.8 | 0.02 000929/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Iron | 2.0 | mg/L | EPA 200.7 | 0.02 000929/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Manganese | 1.3 | mg/L | EPA 200.8 | 0.01 000929/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.0005 000929/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.02 000929/DA |
| Selenium | 0.01 | mg/L | EPA 200.8 | 0.005 000929/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000929/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.2 000929/DA |
| Zinc | 0.05 | mg/L | EPA 200.8 | 0.01 000929/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Ortho-phosphate ANALYZED @0820

cc:


ESB Project Reviewer



E.S. BABCOCK
& SONS, INC.

ESTABLISHED 1908

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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 1 of 2
Lab No.: L74687-001

Date Reported: 10/09/00

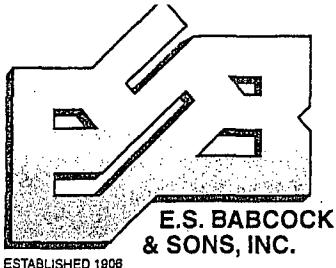
Collected By:
Date: 09/19/00
Time: 0909
Submitted By: Fed.Exp.
Date: 09/20/00
Time: 0845

| <u>Constituent</u> | <u>Result</u> | | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------|---------------|-----------|-----------------------|
| Total Hardness | 1100 | mg/L | Calculation | 3. | 000926/LT |
| Calcium | 230 | mg/L | EPA 200.7 | 1. | 000926/LT |
| Magnesium | 120 | mg/L | EPA 200.7 | 1. | 000926/LT |
| Sodium | 370 | mg/L | EPA 200.7 | 1. | 000926/LT |
| Total Alkalinity | 390 | mg/L | SM 2320 B | 3. | 000920/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. | 000920/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. | 000920/LA |
| Bicarbonate | 470 | mg/L | SM 2320 B | 3. | 000920/LA |
| Sulfate | 510 | mg/L | EPA 300.0 | 0.5 | 000925/KOS |
| Chloride | 560 | mg/L | EPA 300.0 | 1. | 000925/KOS |
| Nitrate-Nitrogen | ND | mg/L | EPA 300.0 | 0.2 | 000922/MH |
| Nitrate | ND | mg/L | EPA 300.0 | 1. | 000922/MH |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 | 001002/KOS |
| pH | 7.6 | units | SM 4500-H | - | 000920/JLB |
| Specific Conductance | 3110 | umho/cm | SM 2510 | 1.0 | 000920/JLB |
| Total Dissolved Solids | 2100 | mg/L | SM 2540C | 10. | 000924/KLT |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 | 000928/CW |
| Oil & Grease | ND | mg/L | EPA 1664 | 5. | 001001/KLT |
| Ortho Phosphate Phosphorus | 0.1 | mg/L | SM 4500-PE | 0.05 | 000921/HGA |
| Total Phosphorus | 0.18 | mg/L | SM 4500-PB4E | 0.05 | 000926/HGA |
| Nitrite-Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 | 000921/LA |
| Aggressive Index | 13.2 | none | Calculation | 0.1 | 001006/SFR |
| Langelier Index Calculated at 25 C | 1.4 | none | Calculation | 0.1 | 001006/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - | 000620/GT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 | 000926/LT |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Ortho-phosphate ANALYZED @0820

CC:



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6100 Quail Valley Court Riverside, CA 92507-0704
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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 2 of 2
Lab No.: L74687-001

Date Reported: 10/09/00

Collected By:

Date: 09/19/00

Time: 0909

Submitted By: Fed. Exp.

Date: 09/20/00

Time: 0845

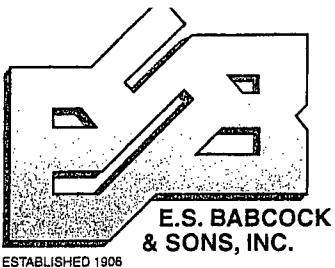
| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|-----------------|
| Antimony | ND | mg/L | EPA 200.8 | 0.006 000928/DA |
| Arsenic | 0.004 | mg/L | EPA 200.8 | 0.002 000928/DA |
| Barium | ND | mg/L | EPA 200.8 | 0.1 000928/DA |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 000928/DA |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 000928/DA |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.01 000928/DA |
| Copper | ND | mg/L | EPA 200.8 | 0.01 000928/DA |
| Iron | 0.42 | mg/L | EPA 200.7 | 0.02 000926/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 000928/DA |
| Manganese | 0.75 | mg/L | EPA 200.8 | 0.01 000928/DA |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 000928/DA |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 000928/DA |
| Selenium | 0.014 | mg/L | EPA 200.8 | 0.005 000928/DA |
| Silver | ND | mg/L | EPA 200.8 | 0.01 000928/DA |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 000928/DA |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 000928/DA |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Ortho-phosphate ANALYZED @0820

cc:


ESB Project Reviewer



E.S. BABCOCK
& SONS, INC.

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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 1
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed. Exp.

Date: 09/20/2000

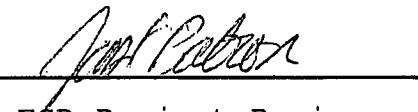
Time: 0845

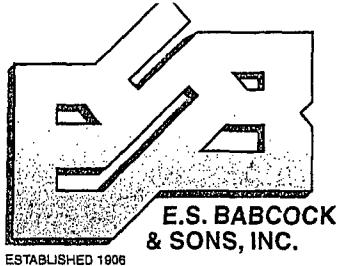
HPLC / UV

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-----------|
| Formaldehyde | ND | ug/L | 150 | | |

Date analyzed / Analyst: 09-28-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


Jeff Patron
ESB Project Reviewer



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e-mail: esbsales@aol.com
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 2
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed.Exp.

Date: 09/20/2000

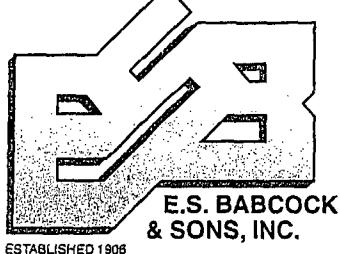
Time: 0845

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>EPA 504.1 Constituent</u> | <u>Result</u> | <u>RL</u> |
|----------------------|---------------|-----------|------------------------------|---------------|-----------|
| Dibromochloropropane | ND | ug/L | 0.01 Ethylene dibromide | ND | ug/L 0.02 |

Date analyzed / Analyst: 09-25-2000 / SML
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 3
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed.Exp.

Date: 09/20/2000

Time: 0845

EPA Method 507

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Alachlor | ND | ug/L | 1.0 | Atrazine | ND | ug/L | 1.0 |
| Bromacil | ND | ug/L | 10. | Butachlor | ND | ug/L | 0.4 |
| Diazinon | ND | ug/L | 0.3 | Dimethoate | ND | ug/L | 10. |
| Diuron | ND | ug/L | 1.0 | Metolachlor | ND | ug/L | 1.0 |
| Metribuzin | ND | ug/L | 0.2 | Molinate | ND | ug/L | 2.0 |
| Prometryn | ND | ug/L | 2.0 | Simazine | ND | ug/L | 1.0 |
| Thiobencarb | ND | ug/L | 1.0 | | | | |

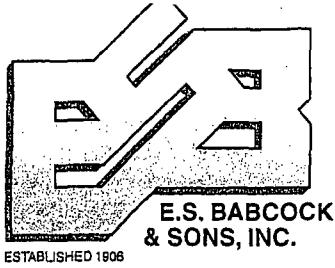
Date analyzed / Analyst: 10/03/2000 / JES

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



Jeff Peterson
ESB Project Reviewer



Environmental Laboratory Certification #1156
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 4
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed.Exp.

Date: 09/20/2000

Time: 0845

EPA Method 515.1

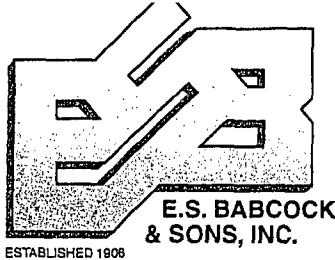
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-------------|
| Bentazon | ND | ug/L | 2.0 | 2,4-D | ND ug/L 10. |
| Dicamba | ND | ug/L | 0.8 | Dinoseb | ND ug/L 2.0 |
| Pentachlorophenol | ND | ug/L | 0.2 | Pichloram | ND ug/L 1.0 |
| 2,4,5-TP Silvex | ND | ug/L | 1.0 | Dalapon | ND ug/L 10. |

Date analyzed / Analyst: 09-27-2000 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 5
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed.Exp.

Date: 09/20/2000

Time: 0845

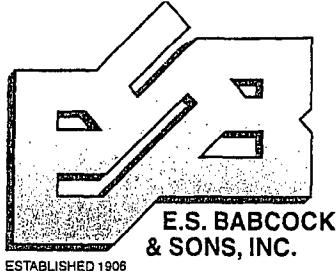
EPA Method 524.2

| Constituent | Result | RL | Constituent | Result | RL | | |
|---------------------------|--------|------|-------------|-----------------------------|----|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloroethane | ND | ug/L | 0.5 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.5 | Chloroform | ND | ug/L | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloromethane | ND | ug/L | 0.5 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.5 | cis-1,2-Dichloroethene | ND | ug/L | 0.5 |
| 1,1-Dichloroethane | ND | ug/L | 0.5 | cis-1,3-Dichloropropene | ND | ug/L | 0.5 |
| 1,1-Dichloroethene | ND | ug/L | 0.5 | Dibromochloromethane | ND | ug/L | 0.5 |
| 1,1-Dichloropropene | ND | ug/L | 0.5 | Dibromomethane | ND | ug/L | 0.5 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.5 | Dichlorodifluoromethane | ND | ug/L | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.5 | 1,2,4-Trichlorobenzene | ND | ug/L | 0.5 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.5 | Ethylbenzene | ND | ug/L | 0.5 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.5 | Hexachlorobutadiene | ND | ug/L | 0.5 |
| 1,2-Dichloroethane | ND | ug/L | 0.5 | 1,2-Dichloropropane | ND | ug/L | 0.5 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.5 | Isopropylbenzene | ND | ug/L | 0.5 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.5 | 1,3-Dichloropropane | ND | ug/L | 0.5 |
| Methyl tert Butyl Ether | ND | ug/L | 3.0 | 1,4-Dichlorobenzene | ND | ug/L | 0.5 |
| Methylene Chloride | ND | ug/L | 0.5 | 2,2-Dichloropropane | ND | ug/L | 0.5 |
| Naphthalene | ND | ug/L | 0.5 | 2-Butanone (MEK) | ND | ug/L | 5.0 |
| n-Butylbenzene | ND | ug/L | 0.5 | 2-Chloroethylvinyl Ether | ND | ug/L | 1.0 |
| n-Propylbenzene | ND | ug/L | 0.5 | 2-Chlorotoluene | ND | ug/L | 0.5 |
| p-Isopropyltoluene | ND | ug/L | 0.5 | 4-Chlorotoluene | ND | ug/L | 0.5 |
| sec-Butylbenzene | ND | ug/L | 0.5 | 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 5.0 |
| Styrene | ND | ug/L | 0.5 | tert Butylbenzene | ND | ug/L | 0.5 |
| Tetrachloroethene | ND | ug/L | 0.5 | Toluene | ND | ug/L | 0.5 |
| trans-1,2-Dichloroethene | ND | ug/L | 0.5 | Benzene | ND | ug/L | 0.5 |

Date analyzed / Analyst: 09-27-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



ESTABLISHED 1906

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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 6
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed. Exp.

Date: 09/20/2000

Time: 0845

EPA Method 524.2

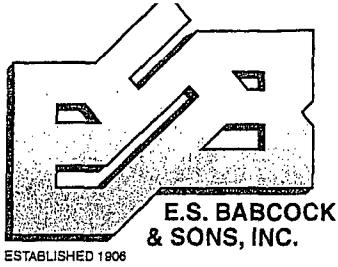
| Constituent | Result | RL | Constituent | Result | RL | | |
|---------------------------|--------|------|-------------|-------------------------|----|------|-----|
| trans-1,3-Dichloropropene | ND | ug/L | 0.5 | Bis(2-Chloroethyl)Ether | ND | ug/L | 5.0 |
| Trichloroethene | ND | ug/L | 0.5 | Bromobenzene | ND | ug/L | 0.5 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | Bromochloromethane | ND | ug/L | 0.5 |
| Trichlorotrifluoroethane | ND | ug/L | 10. | Bromodichloromethane | ND | ug/L | 0.5 |
| Bromoform | ND | ug/L | 0.5 | Vinyl Chloride | ND | ug/L | 0.5 |
| Bromomethane | ND | ug/L | 0.5 | Xylenes (m+p) | ND | ug/L | 0.5 |
| Xylenes (ortho) | ND | ug/L | 0.5 | Carbon Tetrachloride | ND | ug/L | 0.5 |
| Chlorobenzene | ND | ug/L | 0.5 | 1,4-Dioxane | ND | ug/L | 10. |
| tert-Amyl Methyl Ether | ND | ug/L | 3.0 | Ethyl tert-Butyl Ether | ND | ug/L | 3.0 |

Date analyzed / Analyst: 09-27-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 7
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed. Exp.

Date: 09/20/2000

Time: 0845

EPA Method 525.2

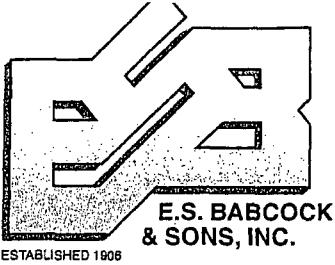
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-----------|
| DEH-Adipate | ND | ug/L | 5.0 | DEH-Phthalate | ND |
| Benzo(a)pyrene | ND | ug/L | 0.1 | | 3.0 |

Date analyzed / Analyst: 10-05-2000 / JS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

ESB Project Reviewer



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www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @ BENET RD

Site:

Description:

Matrix: water

Page: 8
Lab No.: L74687-001

Date Reported: 10/09/2000

Collected By:

Date: 09/19/2000

Time: 0909

Submitted By: Fed. Exp.

Date: 09/20/2000

Time: 0845

EPA Method 608

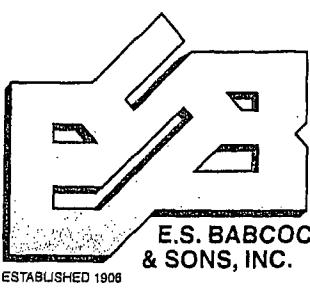
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|--------------------|-----------|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | ND | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | ND | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |

Date analyzed / Analyst: 09-22-2000 / SML

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

ESB Project Reviewer



ESTABLISHED 1908

E.S. BABCOCK
& SONS, INC.SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARDEnvironmental Laboratory Certification #1156
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PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

2001 MAY 15 P 12:55

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BONSALL
Site:
Description:

Matrix: wastewater

Page: 1 of 2
Lab No.: L77623-009

Date Reported: 12/21/00

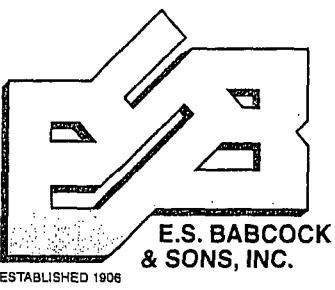
Collected By:
Date: 11/27/00
Time: 1220
Submitted By: Fed Ex
Date: 11/28/00
Time: 0845

| Constituent | Result | Method | RL | Date / Analyst |
|------------------------------------|--------|---------|--------------|-----------------|
| Total Hardness | 830 | mg/L | EPA 200.7 | 3. 001129/LT |
| Calcium | 170 | mg/L | EPA 200.7 | 1. 001129/LT |
| Magnesium | 96. | mg/L | EPA 200.7 | 1. 001129/LT |
| Sodium | 220 | mg/L | EPA 200.7 | 1. 001129/LT |
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 001130/KS |
| Total Alkalinity | 300 | mg/L | SM 2320 B | 3. 001213/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 001213/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 001213/LA |
| Bicarbonate | 370 | mg/L | SM 2320 B | 3. 001213/LA |
| Sulfate | 360 | mg/L | EPA 300.0 | 0.5 001212/DU |
| Chloride | 240 | mg/L | EPA 300.0 | 1. 001212/DU |
| Nitrate-Nitrogen | 0.8 | mg/L | EPA 300.0 | 0.2 001128/DU |
| Fluoride | 0.4 | mg/L | EPA 340.2 | 0.1 001130/LA |
| pH | 8.2 | units | EPA 150.1 | - 001212/DU |
| Specific Conductance | 2380 | umho/cm | EPA 120.1 | 1.0 001212/DU |
| Total Dissolved Solids | 16800 | mg/L | EPA 160.1 | 10 001128/RLS |
| Cyanide | ND | mg/L | EPA 335.4 | 0.01 001129/TF |
| Ortho Phosphate Phosphorus | 0.07 | mg/L | SM 4500-PB4E | 0.05 001130/HGA |
| Total Phosphorus | 0.56 | mg/L | SM 4500-PB4E | 0.05 001205/HGA |
| Nitrite-Nitrogen | ND | mg/L | EPA 354.1 | 0.1 001129/LA |
| Kjeldahl Nitrogen | 0.4 | mg/L | EPA 351.2 | 0.1 001205/KS |
| Aggressive Index | 13.6 | none | calculation | 0.1 001220/SPR |
| Langelier Index Calculated at 25 C | 1.8 | none | Calculation | 0.1 001220/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - 001128/MFT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.1 001129/LT |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.

cc:



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PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BONSALL

Site:

Description:

Matrix: wastewater

Page: 2 of 2
Lab No.: L77623-009

Date Reported: 12/21/00

Collected By:

Date: 11/27/00

Time: 1220

Submitted By: Fed Ex

Date: 11/28/00

Time: 0845

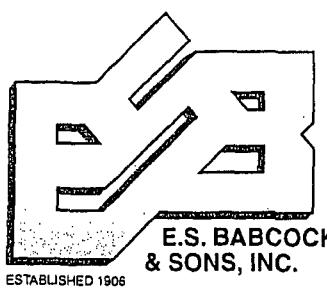
| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|-------------------|
| Antimony | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Arsenic | ND | mg/L | EPA 200.8 | 0.005 001129/DAV |
| Barium | 0.06 | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Beryllium | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Cadmium | ND | mg/L | EPA 200.8 | 0.002 001129/DAV |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Copper | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Iron | 0.05 | mg/L | EPA 200.7 | 0.02 001129/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Manganese | 0.10 | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Mercury | ND | mg/L | EPA 200.8 | 0.0005 001129/DAV |
| Nickel | ND | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Selenium | 0.016 | mg/L | EPA 200.8 | 0.005 001129/DAV |
| Silver | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Thallium | ND | mg/L | EPA 200.8 | 0.2 001129/DAV |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.

cc:


ESB Project Reviewer



ESTABLISHED 1906

Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BONSALL

Site:

Description:

Matrix: wastewater

Page: 1
Lab No.: L77623-009

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1220

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

EPA Method 608

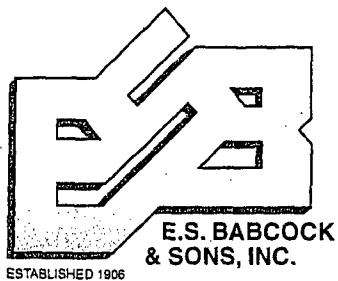
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|-------------------------|---------------|-----------|--------------------|--------------------|-----------|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | ND | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | ND | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |
| BZ-198 | - | - | - | - | - | - | - |
| Surr. Percent Recovery: | 88.3 | % | | | | | |

Date analyzed / Analyst: 12-01-2000 / SM

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

ESB Project Reviewer



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @DOUGLAS

Site:

Description:

Matrix: wastewater

Page: 1 of 2
Lab No.: L77623-008

Date Reported: 12/21/00

Collected By:

Date: 11/27/00

Time: 1255

Submitted By: Fed Ex

Date: 11/28/00

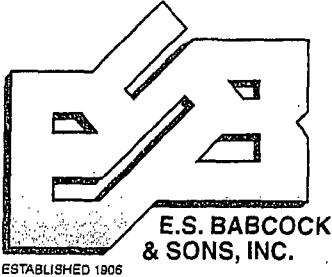
Time: 0845

| Constituent | Result | Method | RL | Date / Analyst |
|-----------------------------------|--------|---------|--------------|----------------|
| Total Hardness | 780 | mg/L | EPA 200.7 | 3. |
| Calcium | 16.0 | mg/L | EPA 200.7 | 1. |
| Magnesium | 89. | mg/L | EPA 200.7 | 1. |
| Sodium | 220 | mg/L | EPA 200.7 | 1. |
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 |
| Total Alkalinity | 320 | mg/L | SM 2320 B | 3. |
| Hydroxide | ND | mg/L | SM 2320 B | 3. |
| Carbonate | ND | mg/L | SM 2320 B | 3. |
| Bicarbonate | 390 | mg/L | SM 2320 B | 3. |
| Sulfate | 270 | mg/L | EPA 300.0 | 0.5 |
| Chloride | 240 | mg/L | EPA 300.0 | 1. |
| Nitrate-Nitrogen | 0.4 | mg/L | EPA 300.0 | 0.2 |
| Fluoride | 0.3 | mg/L | EPA 340.2 | 0.1 |
| pH | 7.7 | units | EPA 150.1 | - |
| Specific Conductance | 2320 | umho/cm | EPA 120.1 | 1.0 |
| Total Dissolved Solids | 1580.6 | mg/L | EPA 160.1 | 10 |
| Cyanide | ND | mg/L | EPA 335.4 | 0.01 |
| Ortho Phosphate Phosphorus | 0.06 | mg/L | SM 4500-PE | 0.05 |
| Total Phosphorus | 0.32 | mg/L | SM 4500-PB4E | 0.05 |
| Nitrite-Nitrogen | ND | mg/L | EPA 354.1 | 0.1 |
| Kjeldahl Nitrogen | 0.8 | mg/L | EPA 351.2 | 0.1 |
| Aggressive Index | 13.1 | none | calculation | 0.1 |
| Langlier Index Calculated at 25 C | 1.3 | none | Calculation | 0.1 |
| Temperature at Lab | 25 | deg C | SM 2550B | - |
| Aluminum | 0.2 | mg/L | EPA 200.7 | 0.1 |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.

cc:



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6100 Quail Valley Court Riverside, CA 92507-0704
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @DOUGLAS

Site:

Description:

Matrix: wastewater

Page: 2 of 2
Lab No.: L77623-008

Date Reported: 12/21/00

Collected By:

Date: 11/27/00

Time: 1255

Submitted By: Fed Ex

Date: 11/28/00

Time: 0845

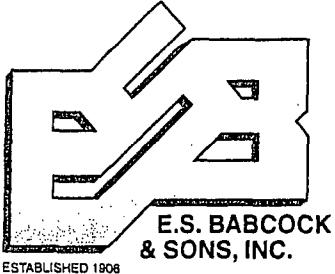
| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|--------------------|---------------|---------------|-----------|-----------------------|
| Antimony | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Arsenic | ND | mg/L | EPA 200.8 | 0.005 001129/DAV |
| Barium | 0.08 | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Beryllium | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Cadmium | ND | mg/L | EPA 200.8 | 0.002 001129/DAV |
| Total Chromium | ND | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Copper | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Iron | 0.93 | mg/L | EPA 200.7 | 0.02 001129/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Manganese | 1.7 | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Mercury | ND | mg/L | EPA 200.8 | 0.0005 001129/DAV |
| Nickel | ND | mg/L | EPA 200.8 | 0.02 001129/DAV |
| Selenium | 0.016 | mg/L | EPA 200.8 | 0.005 001129/DAV |
| Silver | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Thallium | ND | mg/L | EPA 200.8 | 0.2 001129/DAV |
| Zinc | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.

cc:


ESB Project Reviewer



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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 1 of 2
Lab No.: L77623-007

Date Reported: 12/21/00

Collected By:

Date: 11/27/00

Time: 1330

Submitted By: Fed Ex

Date: 11/28/00

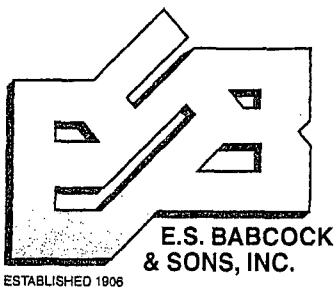
Time: 0845

| <u>Constituent</u> | <u>Result</u> | <u>Method</u> | <u>RL</u> | <u>Date / Analyst</u> |
|------------------------------------|---------------|---------------|--------------|-----------------------|
| Total Hardness | 940 | mg/L | Calculation | 3. 001129/LT |
| calcium | 210 | mg/L | EPA 200.7 | 1. 001129/LT |
| Magnesium | 100 | mg/L | EPA 200.7 | 1. 001129/LT |
| Sodium | 290 | mg/L | EPA 200.7 | 1. 001129/LT |
| Ammonia-Nitrogen | ND | mg/L | SM4500-NH3 H | 0.1 001130/KS |
| Total Alkalinity | 360 | mg/L | SM 2320 B | 3. 001213/LA |
| Hydroxide | ND | mg/L | SM 2320 B | 3. 001213/LA |
| Carbonate | ND | mg/L | SM 2320 B | 3. 001213/LA |
| Bicarbonate | 440 | mg/L | SM 2320 B | 3. 001213/LA |
| Sulfate | 350 | mg/L | EPA 300.0 | 0.5 001212/DU |
| Chloride | 350 | mg/L | EPA 300.0 | 1. 001201/DU |
| Nitrate-Nitrogen | ND | mg/L | EPA 300.0 | 0.2 001128/DU |
| Fluoride | 0.4 | mg/L | SM 4500-FC | 0.1 001130/LA |
| pH | 7.9 | units | SM 4500-H | - 001212/DU |
| Specific Conductance | 2920 | umho/cm | SM 2510 | 1.0 001212/DU |
| Total Dissolved Solids | 19000.0 | mg/L | SM 2540C | 10. 001129/RLS |
| Cyanide | ND | mg/L | SM 4500-CN F | 0.1 001130/CW |
| Ortho Phosphate Phosphorus | ND | mg/L | SM 4500-PE | 0.05 001130/HGA |
| Total Phosphorus | 0.12 | mg/L | SM 4500-PB4E | 0.05 001206/HGA |
| Nitrite Nitrogen | ND | mg/L | SM 4500-NO2B | 0.1 001129/LA |
| Kjeldahl Nitrogen | 0.5 | mg/L | EPA 351.2 | 0.1 001205/KS |
| Aggressive Index | 13.4 | none | Calculation | 0.1 001220/SPR |
| Langelier Index Calculated at 25 C | 1.6 | none | Calculation | 0.1 001220/SFR |
| Temperature at Lab | 25. | deg C | SM 2550B | - 001128/MFT |
| Aluminum | ND | mg/L | EPA 200.7 | 0.05 001129/LT |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.
Cation/Anion balance verified.

cc:



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Laboratory Results

5697-57495

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Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 2 of 2
Lab No.: L77623-007

Date Reported: 12/21/00

Collected By:

Date: 11/27/00

Time: 1330

Submitted By: Fed Ex

Date: 11/28/00

Time: 0845

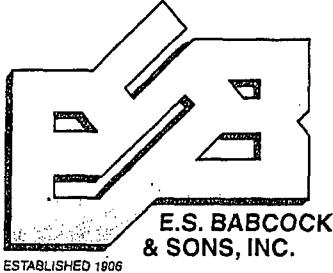
| Constituent | Result | Method | RL | Date / Analyst |
|----------------|--------|--------|-----------|------------------|
| Antimony | ND | mg/L | EPA 200.8 | 0.006 001128/DAV |
| Arsenic | 0.004 | mg/L | EPA 200.8 | 0.002 001128/DAV |
| Barium | ND | mg/L | EPA 200.8 | 0.1 001128/DAV |
| Beryllium | ND | mg/L | EPA 200.8 | 0.001 001128/DAV |
| Cadmium | ND | mg/L | EPA 200.8 | 0.001 001128/DAV |
| Total Chromium | 0.013 | mg/L | EPA 200.8 | 0.001 001128/DAV |
| Copper | ND | mg/L | EPA 200.8 | 0.01 001128/DAV |
| Iron | 0.44 | mg/L | EPA 200.7 | 0.02 001129/LT |
| Lead | ND | mg/L | EPA 200.8 | 0.005 001128/DAV |
| Manganese | 0.98 | mg/L | EPA 200.8 | 0.01 001128/DAV |
| Mercury | ND | mg/L | EPA 200.8 | 0.001 001129/DAV |
| Nickel | ND | mg/L | EPA 200.8 | 0.01 001128/DAV |
| Selenium | 0.010 | mg/L | EPA 200.8 | 0.005 001128/DAV |
| Silver | ND | mg/L | EPA 200.8 | 0.01 001129/DAV |
| Thallium | ND | mg/L | EPA 200.8 | 0.001 001128/DAV |
| Zinc | 0.60 | mg/L | EPA 200.8 | 0.01 001128/DAV |

ND = None detected at RL (Reporting Limit). RL units same as result.

Sample analyzed at 8:20 for Nitrite. Samples analyzed @ 0800 for Orthophosphates.
Cation/Anion balance verified.

cc:


ESB Project Reviewer



E.S. BABCOCK
& SONS, INC.

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Laboratory Results

5697-57495

Client:

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Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 1
Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

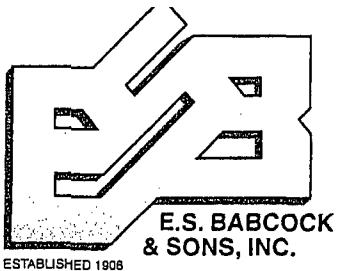
HPLC / UV

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-----------|
| Formaldehyde | ND | ug/L | 150 | | |

Date analyzed / Analyst: 11-29-2000 / SM
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



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Laboratory Results

5697-57495

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3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 2
Lab No : L77623-007

Date Reported: 12/21/2000

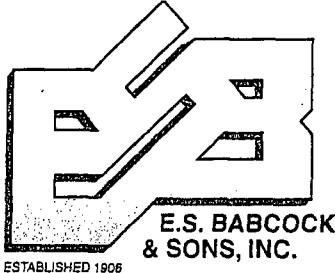
Collected By:
Date: 11/27/2000
Time: 1330
Submitted By: Fed Ex
Date: 11/28/2000
Time: 0845

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>EPA 504.1</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | |
|----------------------|---------------|-----------|------------------|--------------------|---------------|-----------|------|
| Dibromochloropropane | ND | ug/L | 0.01 | Ethylene dibromide | ND | ug/L | 0.02 |

Date analyzed / Analyst: 11-30-2000 / SM
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


Jeff Baterel
ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 3

Lab No.: 177623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

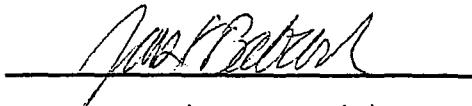
EPA Method 507

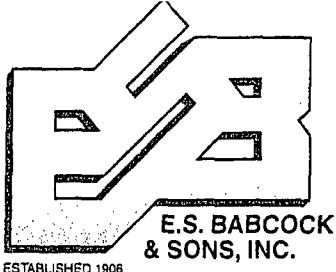
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|--------------------|---------------|-----------|--------------------|---------------|-----------|------|-----|
| Alachlor | ND | ug/L | 1.0 | Atrazine | ND | ug/L | 1.0 |
| Bromacil | ND | ug/L | 10. | Butachlor | ND | ug/L | 0.4 |
| Diazinon | ND | ug/L | 0.3 | Dimethoate | ND | ug/L | 10. |
| Diuron | ND | ug/L | 1.0 | Metolachlor | ND | ug/L | 1.0 |
| Metribuzin | ND | ug/L | 0.2 | Molinate | ND | ug/L | 2.0 |
| Prometryn | ND | ug/L | 2.0 | Simazine | ND | ug/L | 1.0 |
| Thiobencarb | ND | ug/L | 1.0 | | | | |

Date analyzed / Analyst: 12-02-2000 / JS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 4
Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

EPA Method 515.1

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|------------------------|---------------|-----------|--------------------|---------------|-----------|
| Bentazon | ND | ug/L | 2,4-D | ND | ug/L |
| Dicamba | ND | ug/L | 0.8 | Dinoseb | ND |
| Pentachlorophenol | ND | ug/L | 0.2 | Pichloram | ND |
| 2,4,5-TP Silvex | ND | ug/L | 1.0 | Dalapon | ND |
| DCPAA | | | | | |
| Surr Percent Recovery: | 92.0 | % | | | |

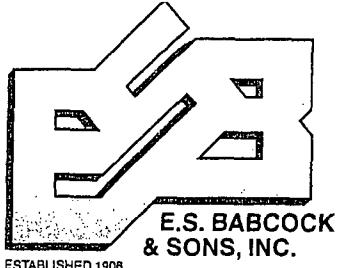
Date analyzed / Analyst: 11-30-2000 / SM

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



ESB Project Reviewer



ESTABLISHED 1908

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6100 Quail Valley Court Riverside, CA 92507-0704
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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 5

Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

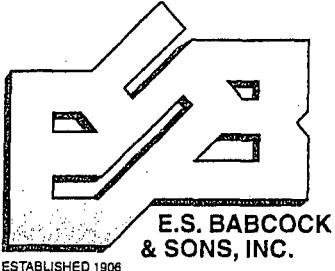
EPA Method 524.2

| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|---------------------------|---------------|-----------|--------------------|-----------------------------|-----------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloroethane | ND | ug/L | 0.5 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.5 | Chloroform | ND | ug/L | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.5 | Chloromethane | ND | ug/L | 0.5 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.5 | cis-1,2-Dichloroethene | ND | ug/L | 0.5 |
| 1,1-Dichloroethane | ND | ug/L | 0.5 | cis-1,3-Dichloropropene | ND | ug/L | 0.5 |
| 1,1-Dichloroethene | ND | ug/L | 0.5 | Dibromochloromethane | ND | ug/L | 0.5 |
| 1,1-Dichloropropene | ND | ug/L | 0.5 | Dibromomethane | ND | ug/L | 0.5 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.5 | Dichlorodifluoromethane | ND | ug/L | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.5 | 1,2,4-Trichlorobenzene | ND | ug/L | 0.5 |
| 1,2,4 Trimethylbenzene | ND | ug/L | 0.5 | Ethylbenzene | ND | ug/L | 0.5 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.5 | Hexachlorobutadiene | ND | ug/L | 0.5 |
| 1,2-Dichloroethane | ND | ug/L | 0.5 | 1,2-Dichloropropane | ND | ug/L | 0.5 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.5 | Isopropylbenzene | ND | ug/L | 0.5 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.5 | 1,3-Dichloropropene | ND | ug/L | 0.5 |
| Methyl tert Butyl Ether | ND | ug/L | 3.0 | 1,4-Dichlorobenzene | ND | ug/L | 0.5 |
| Methylene Chloride | ND | ug/L | 0.5 | 2,2-Dichloropropane | ND | ug/L | 0.5 |
| Naphthalene | ND | ug/L | 0.5 | 2-Butanone (MEK) | ND | ug/L | 5.0 |
| n-Butylbenzene | ND | ug/L | 0.5 | 2-Chloroethylvinyl Ether | ND | ug/L | 1.0 |
| n-Propylbenzene | ND | ug/L | 0.5 | 2-Chlorotoluene | ND | ug/L | 0.5 |
| p-Isopropyltoluene | ND | ug/L | 0.5 | 4-Chlorotoluene | ND | ug/L | 0.5 |
| sec-Butylbenzene | ND | ug/L | 0.5 | 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 5.0 |
| Styrene | ND | ug/L | 0.5 | tert-Butylbenzene | ND | ug/L | 0.5 |
| Tetrachloroethene | ND | ug/L | 0.5 | Toluene | ND | ug/L | 0.5 |
| trans-1,2-Dichloroethene | ND | ug/L | 0.5 | Benzene | ND | ug/L | 0.5 |

Date analyzed / Analyst: 12-05-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 6

Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

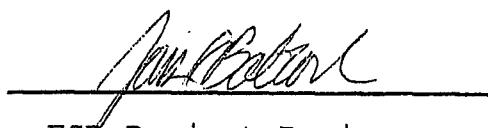
EPA Method 524.2

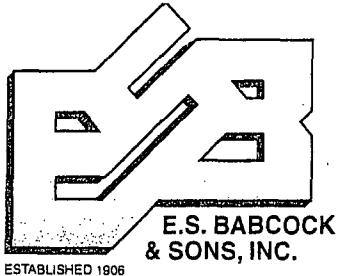
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> | | |
|---------------------------|---------------|-----------|--------------------|--------------------------|-----------|------|-----|
| trans-1,3-Dichloropropene | ND | ug/L | 0.5 | Bis(2-Chloroethyl) Ether | ND | ug/L | 5.0 |
| Trichloroethene | ND | ug/L | 0.5 | Bromobenzene | ND | ug/L | 0.5 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | Bromochloromethane | ND | ug/L | 0.5 |
| Trichlorotrifluoroethane | ND | ug/L | 10. | Bromodichloromethane | ND | ug/L | 0.5 |
| Bromoform | ND | ug/L | 0.5 | Vinyl Chloride | ND | ug/L | 0.5 |
| Bromomethane | ND | ug/L | 0.5 | Xylenes (m+p) | ND | ug/L | 0.5 |
| Xylenes (ortho) | ND | ug/L | 0.5 | Carbon Tetrachloride | ND | ug/L | 0.5 |
| Chlorobenzene | ND | ug/L | 0.5 | 1,4-Dioxane | ND | ug/L | 10. |
| tert-Amyl Methyl Ether | ND | ug/L | 3.0 | Ethyl tert-Butyl Ether | ND | ug/L | 3.0 |
| 1,2-Dichloroethane-d4 | - | | | Toluene-d8 | - | | |
| Surr Percent Recovery: | 115. | % | | Surr Percent Recovery: | 82.1 | % | |
| Bromofluorobenzene | - | | | | | | |
| Surr Percent Recovery: | 101. | % | | | | | |

Date analyzed / Analyst: 12-05-2000 / HG

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



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Laboratory Results

5697-57495

Client:

City of Oceanside
Mary Gonzales
3950 N. River Road

Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 7

Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

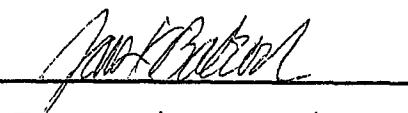
EPA Method 525.2

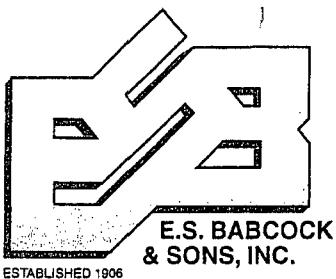
| <u>Constituent</u> | <u>Result</u> | <u>RL</u> | <u>Constituent</u> | <u>Result</u> | <u>RL</u> |
|--------------------|---------------|-----------|--------------------|---------------|-----------|
| DEH-Adipate | ND | ug/L | 5.0 | DEH-Phthalate | ND |
| Benzo(a)pyrene | ND | ug/L | 0.1 | | 3.0 |

Date analyzed / Analyst: 12-12-2000 / JS

ND = None detected at RL (Reporting Limit). RL units same as result.

CC:


ESB Project Reviewer



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Laboratory Results

5697-57495

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Oceanside, CA 92054

Client I.D.: SLR RIVER @BENET DR

Site:

Description:

Matrix: water

Page: 8
Lab No.: L77623-007

Date Reported: 12/21/2000

Collected By:

Date: 11/27/2000

Time: 1330

Submitted By: Fed Ex

Date: 11/28/2000

Time: 0845

EPA Method 608

| Constituent | Result | RL | Constituent | Result | RL | | |
|-------------------------|--------|------|-------------|--------------------|----|------|------|
| 4,4'-DDD | ND | ug/L | 0.1 | Chlordane | ND | ug/L | 0.1 |
| 4,4'-DDE | ND | ug/L | 0.04 | d-BHC | ND | ug/L | 0.09 |
| 4,4'-DDT | ND | ug/L | 0.1 | Dieldrin | ND | ug/L | 0.02 |
| a-BHC | ND | ug/L | 0.03 | Endosulfan I | ND | ug/L | 0.1 |
| Aldrin | ND | ug/L | 0.04 | Endosulfan II | ND | ug/L | 0.04 |
| Aroclor 1016 | ND | ug/L | 0.5 | Endosulfan Sulfate | ND | ug/L | 0.7 |
| Aroclor 1221 | ND | ug/L | 0.5 | Endrin | ND | ug/L | 0.06 |
| Aroclor 1232 | ND | ug/L | 0.5 | Endrin Aldehyde | ND | ug/L | 0.2 |
| Aroclor 1242 | ND | ug/L | 0.5 | Heptachlor | ND | ug/L | 0.01 |
| Aroclor 1248 | ND | ug/L | 0.5 | Heptachlor Epoxide | ND | ug/L | 0.01 |
| Aroclor 1254 | ND | ug/L | 0.5 | Lindane | ND | ug/L | 0.04 |
| Aroclor 1260 | ND | ug/L | 0.5 | Methoxychlor | ND | ug/L | 1.8 |
| b-BHC | ND | ug/L | 0.06 | Toxaphene | ND | ug/L | 1.0 |
| BZ-198 | - | - | - | - | - | | |
| Surr. Percent Recovery: | 62.3 | % | | | | | |

Date analyzed / Analyst: 12-01-2000 / SM

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


ESB Project Reviewer



A WATER QUALITY INVENTORY SERIES
BIOLOGICAL AND PHYSICAL/HABITAT ASSESSMENT OF
CALIFORNIA WATER BODIES

San Diego Regional Water Quality Control Board:
1999 Biological Assessment Annual Report

Report in SP River File

California Department of Fish and Game
Office of Spill Prevention and Response
Water Pollution Control Laboratory
2005 Nimbus Road
Rancho Cordova, CA 95670
(916) 358-2858; jharris@ospr.dfg.ca.gov

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James M. Harrington

PROJECT LEADERS
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LABORATORY AND FIELD TECHNICIANS
Doug Post, Christopher Sheehy, Mike Dawson

San Luis Rey

903

City of Oceanside**Water Utilities Laboratory**SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD**Monitoring Area:****San Luis Rey River**

2001 MAY 15 P 12:55

Date Reported: 03-May-01**Type of Sampling:****Quarterly Bacteriological**

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|---------------------------|-------------------|-----------------------------|----------------|---------------------------------|---------------------------------|--------------------------|--|---|
| Bonsall Bridge | AA15813 | 3/8/1999 10:35 AM | HAMMOND | 1700 | 220 | 0.129 | 80 | |
| Benet Bridge | AA15814 | 3/8/1999 11:10 AM | HAMMOND | 3000 | 270 | 0.090 | 160 | |
| Douglas Bridge | AA15815 | 3/8/1999 11:40 AM | HAMMOND | 800 | 300 | NA | 240 | |
| Benet Bridge | AA19680 | 6/16/1999 10:45 AM | MOLINA | 16000 | 2200 | 0.138 | | |
| Benet Bridge | AA23032 | 9/13/1999 10:30 AM | LUCORE | 3000 | 40 | 0.013 | 44 | |
| Douglas Bridge | AA23033 | 9/13/1999 10:10 AM | LUCORE | 350 | 20 | NA | 130 | |
| Bonsall Bridge | AA23034 | 9/13/1999 9:45 AM | LUCORE | 5000 | <2 | 0.000 | 180 | |
| Benet Bridge | AA26490 | 12/13/1999 8:47 AM | HAMMOND | 1100 | 80 | 0.073 | <7 | |
| Bonsall Bridge | AA26491 | 12/13/1999 12:10 PM | HAMMOND | 2200 | 70 | 0.032 | <7 | |
| Bonsall Bridge | AA30176 | 3/23/2000 5:10 PM | ORR | 5000 | 40 | 0.008 | | 53 |
| Douglas Bridge | AA30177 | 3/23/2000 5:30 PM | ORR | 7000 | 40 | 0.006 | | 75 |
| Bonsall Bridge | AA32735 | 5/26/2000 2:15 PM | LUCORE | 2800 | 80 | 0.029 | | 111 |
| Benet Bridge | AA32736 | 5/26/2000 2:15 PM | MOLINA | 2800 | 170 | 0.061 | | 87 |
| Benet Bridge | AA33741 | 6/21/2000 9:05 AM | GALLWAS | 1700 | 800 | 0.471 | | 648:8 |
| Douglas Bridge | AA33742 | 6/21/2000 11:47 AM | GALLWAS | 5000 | 800 | 0.160 | | 517:2 |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--------------------|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| Bonsall Bridge | AA33743 | 6/21/2000 12:10 PM | GALLWAS | 7000 | 40 | 0.006 | | 28.5 |
| Benet Bridge | AA37171 | 9/19/2000 11:40 AM | MOLINA | 300 | 40 | NA | | 31 |
| Douglas Bridge | AA37172 | 9/19/2000 11:20 AM | MOLINA | 5000 | 70 | 0.014 | | 52 |
| Bonsall Bridge | AA37173 | 9/19/2000 11:00 AM | MOLINA | 16000 | 170 | 0.011 | | 246 |
| Bonsall Bridge | AA39553 | 11/27/2000 12:20 PM | ORR | 1300 | 20 | 0.015 | | 146 |
| Douglas Bridge | AA39554 | 11/27/2000 12:55 PM | ORR | 230 | <20 | NA | | 269 |
| Benet Bridge | AA39555 | 11/27/2000 1:30 PM | ORR | 2100 | 20 | 0.010 | | 84 |

WATER UTILITIES DEPARTMENT LABORATORY, by:

**Valerie Gallwas
Microbiologist**

City of Oceanside

Water Utilities Laboratory

Karen
San Luis Rey River Mixing Zone

SAN LUIS REY RIVER
WATER QUALITY
CONTROL BOARD

2001 MAY 15 P 12:55

Monitoring Area:

San Luis Rey River Mixing Zone

Type of Sampling:

Bacteriological

Date Reported:

03-May-01

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--------------------|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA13679 | 1/11/1999 9:24 AM | LUCORE | 8 | <2 | NA | 4 | |
| SLR Mixing Zone | AA14299 | 1/27/1999 10:38 AM | LUCORE | 9000 | 3000 | 0.333 | TNTC | > 1,000 |
| SLR Mixing Zone | AA14733 | 2/8/1999 10:44 AM | LUCORE | 500 | 110 | NA | 50 | |
| SLR Mixing Zone | AA15345 | 2/23/1999 8:53 AM | LUCORE | 500 | 110 | NA | 65 | |
| SLR Mixing Zone | AA15897 | 3/9/1999 8:24 AM | LUCORE | 240 | 240 | NA | 30 | |
| SLR Mixing Zone | AA16424 | 3/23/1999 8:26 AM | LUCORE | 500 | 50 | NA | 24 | |
| SLR Mixing Zone | AA16967 | 4/5/1999 11:09 AM | LUCORE | 70 | 50 | NA | 8 | |
| SLR Mixing Zone | AA17598 | 4/20/1999 7:50 AM | GALLWAS | 500 | 300 | NA | 28 | |
| SLR Mixing Zone | AA18072 | 5/4/1999 8:19 AM | LUCORE | 300 | 130 | NA | 72 | |
| SLR Mixing Zone | AA18279 | 5/10/1999 10:05 AM | LUCORE | 170 | 50 | NA | 13 | |
| SLR Mixing Zone | AA18539 | 5/17/1999 8:43 AM | LUCORE | 5000 | 700 | 0.140 | 95 | ok by 6M for fecal |
| SLR Mixing Zone | AA18929 | 5/26/1999 10:17 AM | LUCORE | 240 | 130 | NA | 18 | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--------------------|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA19411 | 6/3/1999 9:16 AM | LUCORE | 13 | 4 GM = 74.96 | NA | 2 | 20.00 |
| SLR Mixing Zone | AA19421 | 6/7/1999 10:55 AM | LUCORE | 240 | 240 | NA | 130 | |
| SLR Mixing Zone | AA19623 | 6/15/1999 9:28 AM | LUCORE | 4 | 4 | NA | 2 | |
| SLR Mixing Zone | AA19966 | 6/22/1999 9:48 AM | LUCORE | 4 | 4 | NA | <2 | |
| SLR Mixing Zone | AA20153 | 6/29/1999 8:48 AM | LUCORE | 33 | 33 | NA | 15 | |
| SLR Mixing Zone | AA20372 | 7/6/1999 9:39 AM | LUCORE | <2 | <2 | NA | <2 | |
| SLR Mixing Zone | AA20652 | 7/13/1999 9:19 AM | LUCORE | 17 | 17 | NA | 4 | |
| SLR Mixing Zone | AA20937 | 7/20/1999 9:31 AM | LUCORE | 8 | 8 | NA | <2 | |
| SLR Mixing Zone | AA21134 | 7/26/1999 9:41 AM | LUCORE | 13 | 13 | NA | 4 | |
| SLR Mixing Zone | AA21388 | 8/2/1999 10:50 AM | LUCORE | 8 | 8 | NA | <2 | |
| SLR Mixing Zone | AA21789 | 8/11/1999 9:11 AM | LUCORE | 7 | 7 | NA | 2 | |
| SLR Mixing Zone | AA22234 | 8/17/1999 10:35 AM | LUCORE | 7 | 7 | NA | <4 | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|---|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA22311 | 8/24/1999 10:37 AM | LUCORE | 30 | 30 | NA | 12 | |
| SLR Mixing Zone | AA22635 | 9/1/1999 10:20 AM | LUCORE | 2 | 2 | NA | <2 | |
| SLR Mixing Zone | AA22931 | 9/7/1999 12:12 PM | LUCORE | 2 | <2 | NA | 1 | |
| SLR Mixing Zone | AA23092 | 9/14/1999 9:32 AM | LUCORE | 11 | 11 | NA | 1 | |
| SLR Mixing Zone | AA23453 | 9/21/1999 10:29 AM | LUCORE | 4 | 4 | NA | 3 | |
| SLR Mixing Zone | AA23668 | 9/28/1999 9:52 AM | LUCORE | 13 | 13 | NA | 22 | |
| SLR Mixing Zone | AA23952 | 10/5/1999 10:54 AM | LUCORE | <2 | <2 | NA | 2 | |
| SLR Mixing Zone | AA24162 | 10/11/1999 10:05 AM | LUCORE | 6 | 6 | NA | 3 | |
| SLR Mixing Zone Comments: No flow | AA24510 | 10/19/1999 10:06 AM | LUCORE | 50 | 50 | NA | 1 | |
| SLR Mixing Zone Comments: No flow | AA24753 | 10/26/1999 9:12 AM | LUCORE | 4 | 4 | NA | 17 | |
| SLR Mixing Zone Comments: SLR River - light flow. | AA25031 | 11/2/1999 9:54 AM | LUCORE | 2 | 2 | NA | <1 | |
| SLR Mixing Zone Comments: San Luis Rey River is not flowing. | AA25535 | 11/16/1999 9:25 AM | LUCORE | 6 | 6 | NA | 1 | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|---|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA26009 | 11/30/1999 10:32AM | LUCORE | 2 | 2 | NA | 7 | |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA26553 | 12/14/1999 9:35 AM | LUCORE | <2 | <2 | NA | <1 | |
| Comments: San Luis Rey River has no flow. | | | | | | | | |
| SLR Mixing Zone | AA27006 | 12/28/1999 11:15AM | ORR | <2 | <2 | NA | 1 2/29 | |
| Comments: No Flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA27483 | 1/11/2000 9:12 AM | LUCORE | 2 | 2 | NA | 1 | |
| SLR Mixing Zone | AA27898 | 1/24/2000 8:54 AM | LUCORE | 80 | 50 | NA | 20 | |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA28472 | 2/8/2000 10:03AM | LUCORE | 13 | 11 | NA | 18 | |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA28991 | 2/22/2000 9:48 AM | LUCORE | 1700 | 700 | 0.412 | 100 | |
| Comments: Moderate flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA29432 | 3/6/2000 8:59 AM | LUCORE | 80 | 13 | NA | 15 | |
| SLR Mixing Zone | AA30085 | 3/21/2000 8:57 AM | LUCORE | 110 | 50 | NA | 27 | |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA30178 | 3/23/2000 6:00 PM | ORR | 300 | 300 | NA | | 222 |
| SLR Mixing Zone | AA30215 | 3/25/2000 9:50 AM | GALLWAS | 1100 | 170 | 0.155 | | 64 |
| SLR Mixing Zone | AA30492 | 4/3/2000 9:12 AM | LUCORE | 17 | 11 | NA | 2 | |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA30798 | 4/10/2000 10:00 AM | ORR | 900 | 300 GWL = 72.32 | NA | 18 | |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA31307 | 4/17/2000 9:40 AM | ORR | 17 | 17 | NA | 5 | |
| SLR Mixing Zone | AA31416 | 4/25/2000 8:46 AM | LUCORE | 500 | 130 | NA | 27 | |
| SLR Mixing Zone | AA31666 | 5/1/2000 10:02 AM | LUCORE | 500 | 240 | NA | | 64.0 |
| SLR Mixing Zone | AA31974 | 5/8/2000 9:17 AM | LUCORE | 900 | 130 | NA | | 42 |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA32377 | 5/17/2000 9:19 AM | LUCORE | 1600 | 70 | 0.044 | | 150 |
| SLR Mixing Zone | AA32425 | 5/18/2000 4:12 PM | LUCORE | 80 | 80 | NA | | 31 |
| SLR Mixing Zone | AA32535 | 5/22/2000 9:07 AM | LUCORE | 500 | 500 | NA | | 4110 |
| SLR Mixing Zone | AA32644 | 5/24/2000 9:13 AM | LUCORE | 500 | 300 | NA | | 42 |
| SLR Mixing Zone | AA32704 | 5/25/2000 12:38 PM | LUCORE | 300 | 170 | NA | | 137 |
| SLR Mixing Zone | AA32737 | 5/26/2000 12:44 PM | LUCORE | 300 | 170 | NA | | 20 |
| SLR Mixing Zone | AA32840 | 5/30/2000 10:04 AM | LUCORE | 170 | 70 | NA | 17 | 42 |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |

5 pts -
GWL = 197.89

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--------------------|------------|--|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA33073 | 6/5/2000 10:39 AM | LUCORE | 23 | 23 | NA | 5 | 10 |
| SLR Mixing Zone | AA33367 | 6/12/2000 9:48 AM | LUCORE | 110 | 110 | NA | 1 | |
| | | <i>Comments: Light flow from San Luis Rey River.</i> | | | | | | |
| SLR Mixing Zone | AA33664 | 6/19/2000 9:32 AM | LUCORE | 80 | 80 | NA | 12 | 20 |
| | | | | | <i>GRM = 125.47</i> | | | |
| SLR Mixing Zone | AA33802 | 6/23/2000 9:20 AM | ORR | 110 | 40 | NA | | 10 |
| SLR Mixing Zone | AA33904 | 6/26/2000 9:51 AM | LUCORE | 17 | 17 | NA | 4 | <10 |
| SLR Mixing Zone | AA34213 | 7/5/2000 8:57 AM | LUCORE | 4 | <2 | NA | | <10 |
| | | <i>Comments: No flow from San Luis Rey River.</i> | | | | | | |
| SLR Mixing Zone | AA34387 | 7/10/2000 8:55 AM | LUCORE | 70 | 50 | NA | | <10 |
| | | <i>Comments: Light flow from the San Luis Rey River.</i> | | | | | | |
| SLR Mixing Zone | AA34653 | 7/17/2000 9:02 AM | LUCORE | 7 | 7 | NA | | 10 |
| | | <i>Comments: No flow from San Luis Rey River.</i> | | | | | | |
| SLR Mixing Zone | AA34900 | 7/24/2000 9:41 AM | LUCORE | 17 | 17 | NA | | <10 |
| SLR Mixing Zone | AA35164 | 7/31/2000 9:12 AM | LUCORE | 13 | 13 | NA | | 10 |
| | | <i>Comments: No flow from San Luis Rey River.</i> | | | | | | |
| SLR Mixing Zone | AA35426 | 8/7/2000 9:08 AM | LUCORE | 90 | 50 | NA | | 53 |
| SLR Mixing Zone | AA36035 | 8/14/2000 9:35 AM | LUCORE | 17 | 17 | NA | | <10 |
| | | <i>Comments: No flow from the San Luis Rey River.</i> | | | | | | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA36097 | 8/21/2000 9:12 AM | LUCORE | 17 | 11 | NA | | 10 |
| SLR Mixing Zone | AA36350 | 8/28/2000 9:47 AM | LUCORE | 50 | 50 | NA | | <10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA36482 | 8/31/2000 9:08 AM | LUCORE | 60 | 50 | NA | | <10 |
| SLR Mixing Zone | AA36641 | 9/5/2000 8:54 AM | LUCORE | 22 | 11 | NA | | <10 |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA36786 | 9/11/2000 9:29 AM | LUCORE | 8 | <2 | NA | | 10 |
| Comments: Light flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37082 | 9/18/2000 9:02 AM | LUCORE | 13 | 13 | NA | | <10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37365 | 9/25/2000 9:40 AM | LUCORE | 50 | 50 | NA | | 10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37607 | 10/2/2000 9:05 AM | LUCORE | 23 | 23 | NA | | <10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37726 | 10/4/2000 12:59 PM | LUCORE | 1600 | 1600 | 1.000 | | 1652 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37754 | 10/5/2000 8:44 AM | LUCORE | 350 | 170 | NA | | 20 |
| Comments: Light flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA37860 | 10/9/2000 9:28 AM | LUCORE | 80 | 30 | NA | 24 | |
| Comments: Light flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA38204 | 10/18/2000 8:50 AM | LUCORE | 21 | 21 | NA | | <10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA38388 | 10/24/2000 8:54 AM | LUCORE | 1600 | 1600 | 1.000 | | 306 |
| Comments: Light flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA38444 | 10/25/2000 10:29 AM | LUCORE | 110 | 110 | NA | | 75 |
| Comments: Light flow from the San Luis Rey River. Resample #1 for the week of 10/23. | | | | | | | | |
| SLR Mixing Zone | AA38584 | 10/30/2000 9:29 AM | LUCORE | 9000 | 500 | 0.056 | | 1374 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA38720 | 11/1/2000 8:15 AM | LUCORE | 240 | 240 | NA | | 209 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA38845 | 11/6/2000 9:20 AM | LUCORE | 110 | 110 | NA | | 31 |
| Comments: No flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA39089 | 11/13/2000 9:08 AM | LUCORE | 500 | 500 | NA | | 111 |
| Comments: Light flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA39163 | 11/14/2000 1:40 PM | LUCORE | 9 | 4 | NA | | <10 |
| Comments: Flow from the San Luis Rey River blocked by sand. | | | | | | | | |
| SLR Mixing Zone | AA39533 | 11/27/2000 10:44 AM | LUCORE | 30 | 30 | NA | | 99 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA39665 | 11/29/2000 12:56 PM | LUCORE | 20 | 20 | NA | | 20 |
| Comments: Light flow from the San Luis Rey River. Sample collected on outgoing tide. | | | | | | | | |
| SLR Mixing Zone | AA40025 | 12/11/2000 10:39 AM | LUCORE | 13 | 13 | NA | | 41 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA40188 | 12/14/2000 12:45 PM | LUCORE | 170 | 170 | NA | | 52 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA40561 | 12/27/2000 10:31 AM | LUCORE | 2 | 2 | NA | | 10 |
| Comments: No flow from the San Luis Rey River. | | | | | | | | |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|---|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA40655 | 12/29/2000 12:49 PM | HAMMOND | 2 | <2 | NA | | <10 |
| Comments: Resmple due to high entero on 12/28. Sample due to open of mouth. | | | | | | | | |
| SLR Mixing Zone | AA40732 | 12/28/2000 7:54 AM | LUCORE | 240 | 240 | NA | | 209 |
| Comments: Moderate flow from the San Luis Rey River | | | | | | | | |
| 150 ft. South of Mixing | AA40733 | 12/28/2000 8:00 AM | LUCORE | 17 | 17 | NA | | <10. |
| Comments: Moderate flow from the San Luis Rey River | | | | | | | | |
| SLR Mixing Zone | AA40952 | 1/8/2001 10:47 AM | LUCORE | 300 | 130 | NA | | 42 |
| | | | | | | | | <i>out wet weather</i> |
| SLR Mixing Zone | AA41371 | 1/22/2001 9:25 AM | LUCORE | 70 | 70 | NA | | 10 |
| SLR Mixing Zone | AA41857 | 2/5/2001 9:33 AM | LUCORE | 240 | 205 | NA | | 26 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA42296 | 2/19/2001 9:16 AM | LUCORE | 1700 | 500 | 0.294 | | 164 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA42827 | 3/5/2001 10:45 AM | LUCORE | 240 | 80 | NA | | 111 |
| | | | | | | | | |
| SLR Mixing Zone | AA43283 | 3/19/2001 9:31 AM | LUCORE | 500 | 300 | NA | | 41 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA43745 | 4/2/2001 9:02 AM | LUCORE | 110 | 30 | NA | | 42 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA43975 | 4/9/2001 9:15 AM | LUCORE | 9000 | 900 | 0.100 | | 429 |
| Comments: Moderate flow from San Luis Rey River. | | | | | | | | |
| SLR Mixing Zone | AA44129 | 4/12/2001 11:59 AM | LUCORE | 220 | 70 | NA | | 10 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | | | | <i>out wet weather</i> |

| Sampling Locations | Lab Number | Collection Date/Time | Sampler | Total Coliform MPN/100ml | Fecal Coliform MPN/100ml | Fecal/Total Ratio | Enterococcus by Membrane Filtration CFU/100ml | Enterococcus by Enterolert MPN/100ml |
|--|------------|----------------------|---------|--------------------------|--------------------------|-------------------|---|--------------------------------------|
| SLR Mixing Zone | AA44226 | 4/16/2001 9:30 AM | ORR | 300 | 50 | NA | | 10 |
| Comments: Moderate flow from the San Luis Rey River. | | | | | 6 M = 123.17 | | | |
| SLR Mixing Zone | AA44508 | 4/24/2001 9:50 AM | ORR | 170 | 50 | NA | | 10 |
| Comments: Light flow from the San Luis Rey River. | | | | | | | | |

WATER UTILITIES DEPARTMENT LABORATORY,

**Valerie Gallwas
Microbiologist**



CITY OF OCEANSIDE

SAN LUIS REY
WATER QUALITY
CONTROL WATER UTILITIES DEPARTMENT

May 15, 2001

2001 MAY 15 P 12:55

Public Solicitation of Water Quality Information

The City of Oceanside has sampled the San Luis Rey River quarterly for several years. The three sampling locations correspond to bridge crossings. The Bonsall Bridge location represents the east border of the City. Douglas Bridge represents the middle of the City and Benet Road is the west end of the City where the river is still flowing before it becomes a lagoon type body of water. We have included organics on the Benet Road location to check the quality of water passing through the City. All of the data has been generated at State certified laboratories using ELAP required quality assurance programs. All samples were taken by the City's State certified laboratory employees. I certify that the data is representative of the San Luis Rey River.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A handwritten signature in black ink, appearing to read "Guss Pennell".

Guss Pennell, Env/Reg Compliance Officer
City of Oceanside Water Utilities Department