



**Sacramento
Cogeneration
Authority**

P.O. Box 15830, Sacramento, CA 95852-8830

**DOCKET
93-AFC-2**

DATE: JAN 25 1994

RECD: JAN 26 1994

Procter & Gamble Cogeneration Project

SCA 94-007

January 25, 1994

Mr. B. B. Blevins
California Energy Commission
1516 9th Street
Sacramento, CA 95814-5512
Attn: Dockets Unit

**NOISE AND WATER SAMPLING RESPONSES TO JANUARY 10, 1994 DATA
RESPONSE WORKSHOP FOR PROCTER AND GAMBLE COGENERATION PROJECT
(DOCKET NO. 93-AFC-2)**

Dear Mr. Blevins:

Please find enclosed 12 copies of the responses to the noise questions asked by CEC staff at the January 10, 1994 Data Response Workshop for the Procter and Gamble Cogeneration Project and of the analysis of the water sampling conducted for the project. If you have any questions regarding this information please telephone me at 916-732-6540.

With Regards,



Diana Parker
Environmental Specialist

Enclosures

cc: Ron Simms, Walsh Construction Company (w/o Water Sample Enc)
Rich Chapman, Black & Veatch (w/o Water Sample Enclosure)
Shawn Pittard, CEC (w/Water Sample Enclosure)

STATE OF CALIFORNIA

State Resources Conservation
and Development Commission

In the matter of:)	Docket No. 93-AFC-2
)	
Application for Certification)	PROOF OF SERVICE
of the Sacramento Cogeneration)	(rev. 12/3/93)
Authority's Procter & Gamble)	
Cogeneration Project)	
_____)	

PROOF OF SERVICE

I, Evangeline Parchamento, declare that on January 26, 1994, I deposited copies of the attached Noise and Water Sampling Responses to January 10, 1994 Data Response Workshop for Procter and Gamble Cogeneration Project (Docket No. 93-AFC-2) in the United States mail at Sacramento, California, with first class postage thereon fully prepaid and addressed to the following:

APPLICANT

Ms. Susan Strachan, Manager
Projects Permitting & Licensing
SMUD
Box 15830
Sacramento, CA 95852-1830

Steve Cohn
Senior Attorney
SMUD
P.O. Box 15830
Sacramento, CA 95852-1830

INTERESTED AGENCIES

Richard Johnson
Division Chief
Sacramento Metro AQMD
8411 Jackson Road
Sacramento, CA 95826

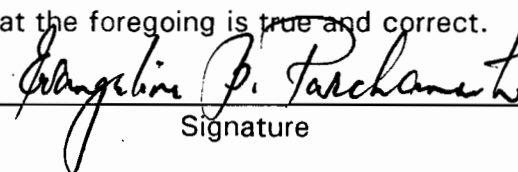
Ray Menebroker, Chief Project
Assessment Branch
Stationary Source Division
California Air Resources Board
P. O. Box 2815
Sacramento, CA 95814

Ed Schnabel
Sacramento Metropolitan Water District
5331 Walnut Avenue
Sacramento, CA 95841

CALIFORNIA ENERGY COMMISSION
(Docket Unit - 12 copies required)

Docket Unit, MS-4
1516 Ninth Street
Sacramento, CA 95814

I declare under penalty of perjury that the foregoing is true and correct.



Signature

Attachment

Procter & Gamble Cogeneration Project Docket No. 93-AFC-2
January 24, 1994

Noise A. At the January 10, 1994 Data Response Workshop CEC staff requested a review of the City's Noise Ordinance to confirm that it coincided with the County's Noise Ordinance.

SCA Response. The adopted Noise Element of the City of Sacramento General Plan, dated January 19, 1988, identifies noise level standards for land uses. If the noise source is due to vehicular traffic or a fixed source, the maximum acceptable interior noise level for residences is Ldn 45dB and the maximum acceptable exterior noise level for residences is Ldn 60dB in the backyards. The City of Sacramento Noise Control Ordinance identifies acceptable noise standards for agricultural and residential properties. The established exterior noise limits are 50dBA during the nighttime hours of 10:00 p.m. through 7:00 a.m. The established exterior noise limits are 55bBA during the daylight hours of 7:00 a.m. through 10:00 p.m. Construction is exempt from the City of Sacramento Noise Control Ordinance except between the hours of 6:00 p.m. and 7:00 a.m. on Monday through Saturday and 6:00 p.m. to 9:00 a.m. on Sunday.

The noise analysis in the Procter and Gamble AFC was based on the more restrictive noise standards of the County of Sacramento revised Draft Element of the General Plan. The AFC analysis, which is still applicable, concludes that the worst-case average noise level during the construction phase is estimated to be approximately 55 dBA at the nearest residences. Combined with the Leq(24) value of 65.0 dBA at this location, the cumulative noise impact is approximately 65 dBA. Operation of the facility will produce an overall noise emission level of approximately 45 dBA [leq(24)] at the nearest residential area. This will meet the 45 dBA nighttime requirement at the nearest residence. The existing Leq(24) level outside of these residences was measured to be 65.0 dBA. The operation of the cogeneration project is not expected to be noticeable over the existing community noise.

The AFC cumulative analysis, which is still applicable, concludes that the construction noise may be audible at the quietest-times of the day but should not cause a significant increase in the ambient noise levels at most times. The impact at the nearest residences during the loudest phase of construction is expected to be approximately 55 dBA while the existing Leq(24) value is 65 dBA. The combined impact is 65.4 dBA, an inaudible increase. Section 6.10.4.1 of the AFC states that construction activities are scheduled to occur between 7:00 a.m. and 6:00 p.m. to the fullest extent possible. This timeframe is consistent with the allowable hours specified in the City of Sacramento Noise Control Ordinance.

The AFC analysis of operational noise impacts states that with the mitigation measures applied the cogeneration facility is expected to emit 45 dBA at the nearest residence; this level will not cause an increase in the existing Leq(24) at this location.

Noise B. At the January 10, 1994 Data Response Workshop CEC staff asked if the office use located across the railroad tracks from the project site would change the AFC analysis.

SCA Response. The office use is located in the Light Industrial (M-1) zone. Per the City of Sacramento Zoning Ordinance, office uses are an allowed use in the Light Industrial M-1 zone. The adopted Noise Element of the City of Sacramento General Plan identifies the community noise exposure range of 50 dB to 65 dB as normally acceptable for office buildings. The City of Sacramento Noise Control Ordinance does not identify a standard for office uses.

The office use is located near Noise Monitoring Location 1 in the AFC which identifies an Leq(24) of 61 dBA. The worst case analysis (construction) discussed in the response to Noise A. above indicates that the cumulative noise impact is approximately 65 dBA. Since 65 dBA is within the normally acceptable exposure range for office uses, the impact of construction will not be significant. Because operation noise levels will be lower than construction noise levels, the impact of operation will not be significant.

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: John Larsen, Project Manager

DATE: December 7, 1993
SCA 93-073

FROM: Lon Maier, Environmental Specialist *LM*

SUBJECT: **WATER SAMPLING FOR THE PROCTER AND GAMBLE COGENERATION FACILITY**

On November 10, 1993, water samples were taken from a number of sources at and around the Procter and Gamble facility to determine constituent levels of water usage for the proposed Procter and Gamble Cogeneration Project. The laboratory analyses of the samples was performed by Twining Laboratories in Fresno, California:

As noted on the attached map, samples were taken at the following locations:

<u>Site #</u>	<u>Description</u>
1	Procter and Gamble city water
2	Procter and Gamble HFA water
3	Discharge creek on south side of Fruitridge Road
4	Confluence of discharge creek and Morrison Creek
5	Discharge creek, 50' upstream of confluence with Morrison Creek
6	Morrison Creek, 50' upstream of confluence with discharge creek
7	Morrison Creek, 50' downstream of confluence with discharge creek
8	City water supply (street fire hydrant).

Samples were taken in accordance with guidelines in the Environmental Protection Agency (EPA) Handbook Stream Sampling for Waste Load Allocation Applications (EPA/625/6-86/013).

Stream characteristics of the discharge ditch at the time of sampling are flow = .23 cubic feet per second (cfs) and temperature (T) \approx 85° at site #3; flow = .23 cfs and T \approx 75° at site #5. Stream characteristics at site 6 of Morrison Creek are flow = 0 cfs and T \approx 60°; at site 7 of Morrison Creek, flow = .25 cfs and T \approx 70°.

The analyses performed was done according to EPA test methods for drinking water standards. For each analysis done, the lowest detection level possible was used. Dissolved oxygen and trace asbestos were not included in the analyses.

Attachment

cc: Susan Strachan MS 37
Dave Thorpe MS 37
~~Diana Parker~~ MS 37
Paul Helman, Utilities Manager; Procter and Gamble
Gene Villagrana, Technical Specialist; Betz Industrial
Richard Chapman, Project Manager; Black and Veatch
Ron Simms, Construction Manager; Walsh Engineering

Procter and Gamble Facility

Site 1: (city water);
Site 2: (HFA water)
both from Procter and Gamble site

Site 8: City water
(city hydrant)

drainage creek

Fruitridge Road

Site 3: Discharge
creek at Procter
and Gamble

Site 5: At
discharge creek,
50' north of
Morrison creek

Site 6: 50' above
confluence of
drainage creek
on Morrison
Creek

Power Inn Road

Morrison

Site 7: 50'
downstream of
Morrison creek
from confluence
of discharge
creek

Site 4: Confluence
of discharge creek
and Morrison
Creek

Pacific RR
Southern

Creek

Florin Perkins Road

Elder Creek Road

Sample sites for water
analyses, SMUD
Cogeneration Facilities.
Samples taken 11-10-93.



Not to scale

PROJECT COMMENT SHEET

REPORT DATE : December 17, 1993
LABORATORY ID: 693-6345.1-8

ATTENTION : Lonn Maier
CLIENT SMUD Projects Development
P.O. Box 15830; MS 37
Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
PROJECT MGR : John Larsen

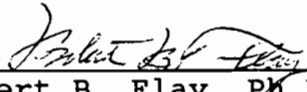
The Twining Laboratories is accredited by the State of California Department of Health Services for the analysis of Drinking Water, Wastewater and Hazardous Waste under Certificate No. 1371.

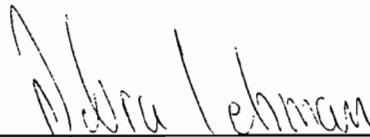
In accordance with your instructions, the samples submitted were analyzed for the components specified. The analytical results are enclosed on the following pages. The following comments apply to this project:

As discussed with Diane Parker on December 17, 1993, the Bromodichloromethane results for samples 693-6345.1 and 693-6345.8 were transcribed as Dibromochloromethane in the original report. This error has been corrected in this amended report.

Please contact us if you have any questions concerning the analyses or results. Thank you for letting us serve you.

mrl


Robert B. Flay, Ph.D.
Vice President
Chemistry Division


Debra K. Lehman
QA Manager

Rev. 1 10/93 (COMMENT. INO)

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.1 **AMENDED REPORT** PAGE 1 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

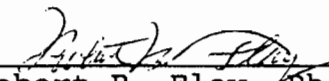
CLIENT SAMPLE ID: PG-1 SAMPLE TYPE: Drinking Water


PURGEABLE HALOCARBONS

METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	2.6	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	42	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643



ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.2 **AMENDED REPORT** PAGE 2 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-2

SAMPLE TYPE: Ground Water

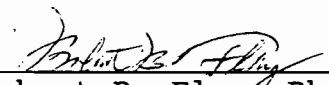
PURGEABLE HALOCARBONS

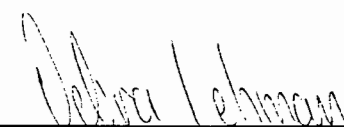
METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.3 **AMENDED REPORT** PAGE 3 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-3

SAMPLE TYPE: Surface Water

PURGEABLE HALOCARBONS

METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes

ND : None Detected

mrl

Robert B. Flay
 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Debra K. Lehman
 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740.

MOOESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

TWINING

EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.5 **AMENDED REPORT** PAGE 5 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonni Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-5 SAMPLE TYPE: Surface Water

PURGEABLE HALOCARBONS

METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes
 ND : None Detected
 mrl

Robert B. Flay
 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Debra K. Lehman
 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
LABORATORY ID: 693-6345.6 **AMENDED REPORT** PAGE 6 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
CLIENT SMUD Projects Development
P.O. Box 15830; MS 37
Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-6 SAMPLE TYPE: Surface Water

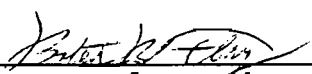
PURGEABLE HALOCARBONS

METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes
ND : None Detected
mrl


Robert B. Flay, Ph.D.
Vice President
Chemistry Division


Debra K. Lehman
QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
2527 Fresno Street
Fresno, CA 93721
(209) 268-7021 • Fax 268-7126
Chemistry Fax 268-0740

MODESTO
4230 Kiernan Ave. Suite 105
Modesto, CA 95356
(209) 545-1050
Fax 545-1147

VISALIA
2521 E. Valley Oaks Drive
Visalia, CA 93292
(209) 625-1712
Fax 625-1714

BAKERSFIELD
3701 Pegasus Drive, Suite 124
Bakersfield, CA 93308
(805) 393-5088
Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.7 **AMENDED REPORT** PAGE 7 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

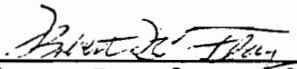
DATE ANALYZED: 11-24-93

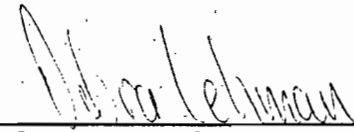
CLIENT SAMPLE ID: PG-7 SAMPLE TYPE: Surface Water

PURGEABLE HALOCARBONS METHOD: EPA 601

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromomethane	ND	1.0	trans-1,2-Dichloroethylene	ND	0.5
Carbon Tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropene	ND	0.5
Chloroethane	ND	1.0	trans-1,3-Dichloropropene	ND	0.5
2-Chloroethylvinyl ether	ND	1.0	Methylene Chloride	ND	3.0
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
Chloromethane	ND	1.0	Tetrachloroethylene	ND	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Trichloroethylene	ND	0.5
1,4-Dichlorobenzene	ND	0.5	Trichlorofluoromethane	ND	0.5
Dichlorodifluoromethane	ND	1.0	Vinyl Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5			

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L: micrograms per Liter (parts per billion) DLR : Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (601)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.1 **AMENDED REPORT** PAGE 9 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-1 SAMPLE TYPE: Drinking Water

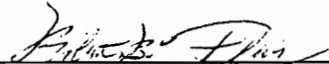
PURGEABLE AROMATICS

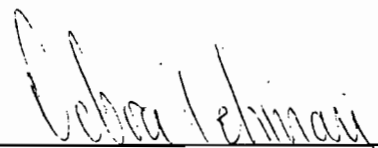
METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

THE TWINING
 EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.2 **AMENDED REPORT** PAGE 10 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-2 SAMPLE TYPE: Ground Water

PURGEABLE AROMATICS

METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

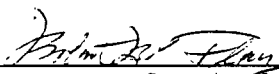
CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)

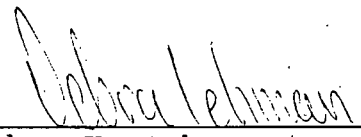
DLR : Detection Limit for Reporting purposes

ND : None Detected

mr1


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Rev. 1 10/93 (602)


 Debra K. Lehman
 QA Manager

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.3 **AMENDED REPORT** PAGE 11 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-3 SAMPLE TYPE: Surface Water

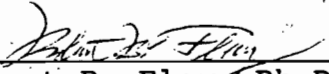
PURGEABLE AROMATICS

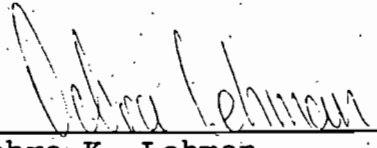
METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mr1


 Robert B. Flay Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.4 **AMENDED REPORT** PAGE 12 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-4 SAMPLE TYPE: Surface Water

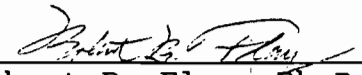
PURGEABLE AROMATICS

METHOD: EPA 602

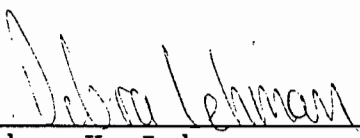
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mrl



 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division



 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.5 **AMENDED REPORT** PAGE 13 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-5 SAMPLE TYPE: Surface Water

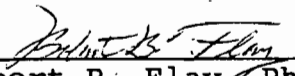
PURGEABLE AROMATICS

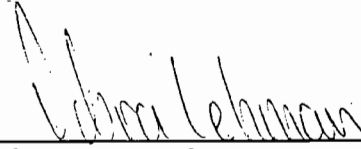
METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.6 **AMENDED REPORT** PAGE 14 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

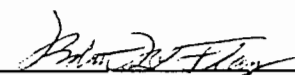
CLIENT SAMPLE ID: PG-6 SAMPLE TYPE: Surface Water

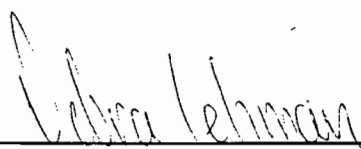
PURGEABLE AROMATICS METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mr1


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.7 **AMENDED REPORT** PAGE 15 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonni Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

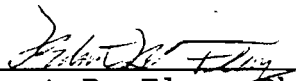
CLIENT SAMPLE ID: PG-7 SAMPLE TYPE: Surface Water

PURGEABLE AROMATICS METHOD: EPA 602

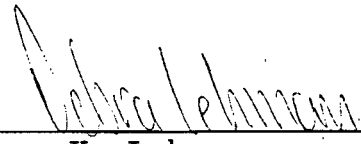
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Rev. 1 10/93 (602)


 Debra K. Lehman
 QA Manager

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1050
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.8 **AMENDED REPORT** PAGE 16 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : L. Houser
 REVIEWED BY : R. Stafford

DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-8 SAMPLE TYPE: Drinking Water

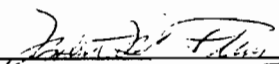
PURGEABLE AROMATICS

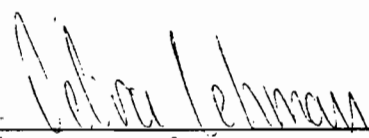
METHOD: EPA 602

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
Xylenes	ND	0.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion)
 DLR : Detection Limit for Reporting purposes
 ND : None Detected

mr1


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 10/93 (602)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

L TWINING

EST. 1898 LABORATORIES, INC.
 ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.1 **AMENDED REPORT** PAGE 17 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

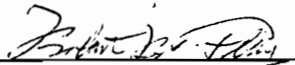
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

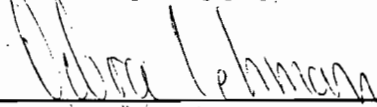
ANALYZED BY : B. Meadows
 REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93
 DATE ANALYZED: 11-15-93
 CLIENT SAMPLE ID: PG-1 SAMPLE TYPE: Drinking Water
 ORGANOCHLORINE PESTICIDES METHOD: EPA 608

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO:
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

THE
TWAINING
EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
GEOTECHNICAL ENGINEERING • DRILLING SERVICES
CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
LABORATORY ID: 693-6345.2 ****AMENDED REPORT**** PAGE 18 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
CLIENT SMUD Projects Development
P.O. Box 15830; MS 37
Sacramento, CA 95852-1830

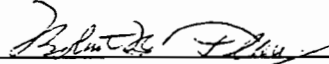
PROJECT : Procter & Gamble Cogen
PROJECT MGR : John Larsen

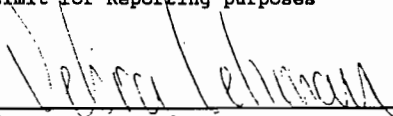
ANALYZED BY : B. Meadows
REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93 SAMPLE TYPE: Ground Water
DATE ANALYZED: 11-15-93 METHOD: EPA 608
CLIENT SAMPLE ID: PG-2
ORGANOCHLORINE PESTICIDES

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
ND : None Detected
mrl


Robert B. Flay, Ph.D.
Vice President
Chemistry Division


Debra K. Lehman
QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
2527 Fresno Street
Fresno, CA 93721
(209) 268-7021 • Fax 268-7126
Chemistry Fax 268-0740

MODESTO
4230 Kiernan Ave. Suite 105
Modesto, CA 95356
(209) 545-1050
Fax 545-1147

VISALIA
2521 E. Valley Oaks Drive
Visalia, CA 93292
(209) 625-1712
Fax 625-1714

BAKERSFIELD
3701 Pegasus Drive, Suite 124
Bakersfield, CA 93308
(805) 393-5088
Fax 393-4643

TWINING

EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.3 **AMENDED REPORT** PAGE 19 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : B. Meadows
 REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93 SAMPLE TYPE: Surface Water
 DATE ANALYZED: 11-15-93 METHOD: EPA 608
 CLIENT SAMPLE ID: PG-3
 ORGANOCHLORINE PESTICIDES

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl

Robert B. Flay
 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Debra K. Lehman
 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

TWINING

EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.5 **AMENDED REPORT** PAGE 21 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

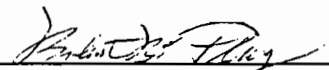
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

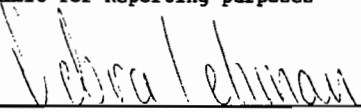
ANALYZED BY : B. Meadows
 REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93 SAMPLE TYPE: Surface Water
 DATE ANALYZED: 11-15-93 METHOD: EPA 608
 CLIENT SAMPLE ID: PG-5
 ORGANOCHLORINE PESTICIDES

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.6 **AMENDED REPORT** PAGE 22 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

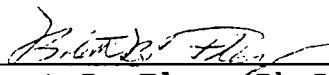
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

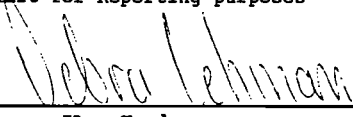
ANALYZED BY : B. Meadows
 REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93
 DATE ANALYZED: 11-15-93
 CLIENT SAMPLE ID: PG-6 SAMPLE TYPE: Surface Water
 ORGANOCHLORINE PESTICIDES METHOD: EPA 608

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.7 **AMENDED REPORT** PAGE 23 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

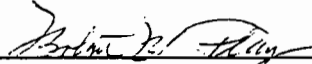
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

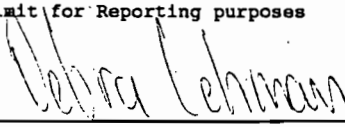
ANALYZED BY : B. Meadows
 REVIEWED BY : R. Stafford

DATE PREPARED: 11-11-93
 DATE ANALYZED: 11-15-93
 CLIENT SAMPLE ID: PG-7 SAMPLE TYPE: Surface Water
 ORGANOCHLORINE PESTICIDES METHOD: EPA 608

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Aldrin	ND	0.25
alpha BHC	ND	0.25
beta BHC	ND	0.25
delta BHC	ND	0.25
gamma BHC (Lindane)	ND	0.25
Chlordane	ND	2.5
p,p-DDD	ND	0.25
p,p-DDE	ND	0.25
p,p-DDT	ND	0.25
Dieldrin	ND	0.25
Endrin	ND	0.25
Endrin Aldehyde	ND	0.25
Endosulfan I	ND	0.25
Endosulfan II	ND	0.25
Endosulfan Sulfate	ND	0.25
Heptachlor	ND	0.25
Heptachlor Epoxide	ND	0.25
Methoxychlor	ND	0.25
PCB	ND	2.5
Toxaphene	ND	2.5

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (608)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO:
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD:
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.1 **AMENDED REPORT** PAGE 25 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-1
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

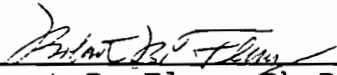
SAMPLE TYPE: Drinking Water

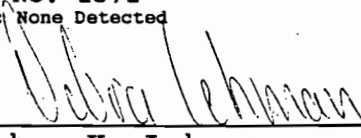
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)
 DLR: Detection Limit for Reporting purposes
 mrl

ND: None Detected


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
LABORATORY ID: 693-6345.2 **AMENDED REPORT** PAGE 27 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonni Maier
CLIENT SMUD Projects Development
P.O. Box 15830; MS 37
Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
PROJECT MGR : John Larsen

ANALYZED BY : S. King
REVIEWED BY : R. Stafford
DATE PREPARED: 11-17-93
DATE ANALYZED: 11-24-93

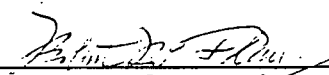
CLIENT SAMPLE ID: PG-2 SAMPLE TYPE: Ground Water
ACID & BASE/NEUTRAL ORGANICS
METHOD: EPA 625 (PART A)

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)
DLR: Detection Limit for Reporting purposes
mrl

ND: None Detected


Robert B. Flay, Ph.D.
Vice President
Chemistry Division


Debra K. Lehman
QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
2527 Fresno Street
Fresno, CA 93721
(209) 268-7021 • Fax 268-7126
Chemistry Fax 268-0740

MODESTO
4230 Kiernan Ave. Suite 105
Modesto, CA 95356
(209) 545-1050
Fax 545-1147

VISALIA
2521 E. Valley Oaks Drive
Visalia, CA 93292
(209) 625-1712
Fax 625-1714

BAKERSFIELD
3701 Pegasus Drive, Suite 124
Bakersfield, CA 93308
(805) 393-5088
Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.2 ****AMENDED REPORT**** PAGE 28 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonni Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

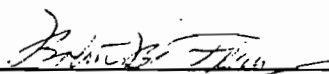
CLIENT SAMPLE ID: PG-2 SAMPLE TYPE: Ground Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART B)

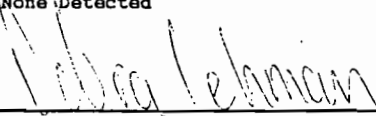
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
2,6-Dinitrotoluene	ND	10	2-Nitroaniline	ND	10
1,2-Diphenylhydrazine (Azobenzene)	ND	10	3-Nitroaniline	ND	10
Di-n-octylphthalate	ND	10	4-Nitroaniline	ND	10
Fluoranthene	ND	10	Nitrobenzene	ND	10
Fluorene	ND	10	2-Nitrophenol	ND	10
Hexachlorobenzene	ND	10	4-Nitrophenol	ND	10
Hexachlorobutadine	ND	10	N-Nitrosodimethylamine	ND	10
Hexachlorocyclopentadiene	ND	10	N-Nitrosodiphenylamine	ND	10
Hexachloroethane	ND	10	N-Nitrosodi-n-propylamine	ND	10
Indeno (1,2,3-cd) pyrene	ND	10	Pentachlorophenol	ND	10
Isophorone	ND	10	Phenanthrene	ND	10
2-Methylnaphthalene	ND	10	Phenol	ND	10
2-Methylphenol (o-cresol)	ND	10	Pyrene	ND	10
4-Methylphenol (p-cresol)	ND	10	1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10	2,4,5-Trichlorophenol	ND	10
			2,4,6-Trichlorophenol	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)
 DLR: Detection Limit for Reporting purposes
 mrl

ND: None Detected


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.3 **AMENDED REPORT** PAGE 29 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

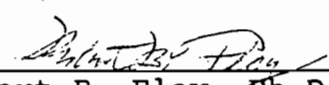
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

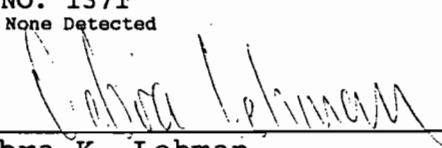
ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-3 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

CONSTITUENT	RESULT	DLR	CONSTITUENT	RESULT	DLR
	(ug/L)	(ug/L)		(ug/L)	(ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) ND: None Detected
 DLR: Detection Limit for Reporting purposes
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.4 **AMENDED REPORT** PAGE 31 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonni Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-4 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) ND: None Detected
 DLR: Detection Limit for Reporting purposes
 mrl

Robert B. Flay
 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division

Debra K. Lehman
 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643



THE TWINING

 EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.4 **AMENDED REPORT** PAGE 32 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

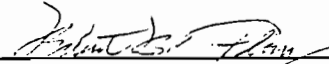
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

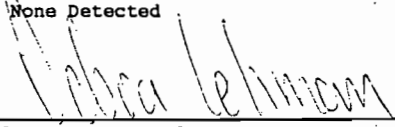
ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-4 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART B)

CONSTITUENT	RESULT	DLR	CONSTITUENT	RESULT	DLR
	(ug/L)	(ug/L)		(ug/L)	(ug/L)
2,6-Dinitrotoluene	ND	10	2-Nitroaniline	ND	10
1,2-Diphenylhydrazine	ND	10	3-Nitroaniline	ND	10
(Azobenzene)			4-Nitroaniline	ND	10
Di-n-octylphthalate	ND	10	Nitrobenzene	ND	10
Fluoranthene	ND	10	2-Nitrophenol	ND	10
Fluorene	ND	10	4-Nitrophenol	ND	10
Hexachlorobenzene	ND	10	N-Nitrosodimethylamine	ND	10
Hexachlorobutadine	ND	10	N-Nitrosodiphenylamine	ND	10
Hexachlorocyclopentadiene	ND	10	N-Nitrosodi-n-propylamine	ND	10
Hexachloroethane	ND	10	Pentachlorophenol	ND	10
Indeno (1,2,3-cd) pyrene	ND	10	Phenanthrene	ND	10
Isophorone	ND	10	Phenol	ND	10
2-Methylnaphthalene	ND	10	Pyrene	ND	10
2-Methylphenol (o-cresol)	ND	10	1,2,4-Trichlorobenzene	ND	10
4-Methylphenol (p-cresol)	ND	10	2,4,5-Trichlorophenol	ND	10
Naphthalene	ND	10	2,4,6-Trichlorophenol	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) ND: None Detected
 DLR: Detection Limit for Reporting purposes
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

L TWINING

EST. 1998 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.5 **AMENDED REPORT** PAGE 33 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

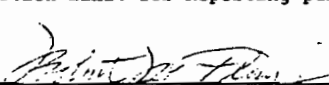
CLIENT SAMPLE ID: PG-5 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

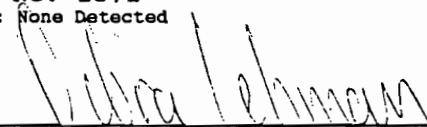
CONSTITUENT	RESULT	DLR	CONSTITUENT	RESULT	DLR
	(ug/L)	(ug/L)		(ug/L)	(ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)
 DLR: Detection Limit for Reporting purposes
 mrl

ND: None Detected


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.6 **AMENDED REPORT** PAGE 35 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

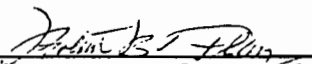
CLIENT SAMPLE ID: PG-6 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

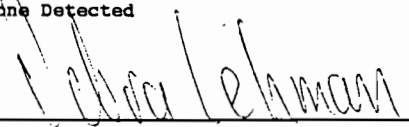
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per liter (parts per billion)
 DLR: Detection Limit for Reporting purposes
 mrl

ND: None Detected


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.6 **AMENDED REPORT** PAGE 36 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

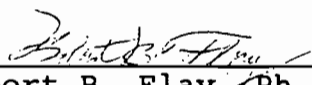
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

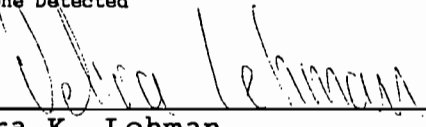
ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-6 SAMPLE TYPE: Surface Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART B)

CONSTITUENT	RESULT	DLR	CONSTITUENT	RESULT	DLR
	(ug/L)	(ug/L)		(ug/L)	(ug/L)
2,6-Dinitrotoluene	ND	10	2-Nitroaniline	ND	10
1,2-Diphenylhydrazine (Azobenzene)	ND	10	3-Nitroaniline	ND	10
Di-n-octylphthalate	ND	10	4-Nitroaniline	ND	10
Fluoranthene	ND	10	Nitrobenzene	ND	10
Fluorene	ND	10	2-Nitrophenol	ND	10
Hexachlorobenzene	ND	10	4-Nitrophenol	ND	10
Hexachlorobutadine	ND	10	N-Nitrosodimethylamine	ND	10
Hexachlorocyclopentadiene	ND	10	N-Nitrosodiphenylamine	ND	10
Hexachloroethane	ND	10	N-Nitrosodi-n-propylamine	ND	10
Indeno (1,2,3-cd) pyrene	ND	10	Pentachlorophenol	ND	10
Isophorone	ND	10	Phenanthrene	ND	10
2-Methylnaphthalene	ND	10	Phenol	ND	10
2-Methylphenol (o-cresol)	ND	10	Pyrene	ND	10
4-Methylphenol (p-cresol)	ND	10	1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10	2,4,5-Trichlorophenol	ND	10
			2,4,6-Trichlorophenol	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 ug/L : micrograms per Liter (parts per billion) ND: None Detected
 DLR: Detection Limit for Reporting purposes
 mrl


 Robert B. Flay Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

TWINING

EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.8 **AMENDED REPORT** PAGE 39 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

CLIENT SAMPLE ID: PG-8 SAMPLE TYPE: Drinking Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART A)

CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
Acenaphthene	ND	10	2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10	4-Chloro-3-methylphenol	ND	10
Aniline	ND	10	2-Chlorophenol	ND	10
Anthracene	ND	10	4-Chlorophenyl phenyl ether	ND	10
Benzidine	ND	20	Chrysene	ND	10
Benzoic Acid	ND	10	Dibenzo (a,h) Anthracene	ND	10
Benzo (a) anthracene	ND	10	Dibenzofuran	ND	10
Benzo (b) fluoranthene	ND	10	Di-n-butylphthalate	ND	10
Benzo (k) fluoranthene	ND	10	1,3-Dichlorobenzene	ND	10
Benzo (g,h,i) perylene	ND	10	1,4-Dichlorobenzene	ND	10
Benzo (a) pyrene	ND	10	1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10	3,3'-Dichlorobenzidine	ND	20
Bis(2-chloroethoxy)methane	ND	10	2,4-Dichlorophenol	ND	10
Bis(2-chloroethyl)ether	ND	10	Diethylphthalate	ND	10
Bis(2-chloroisopropyl)ether	ND	10	Dimethylphthalate	ND	10
Bis(2-ethylhexyl)phthalate	ND	10	2,4-Dimethylphenol	ND	10
4-Bromophenyl phenyl ether	ND	10	4,6-Dinitro-2-methylphenol	ND	10
Butyl benzyl phthalate	ND	10	2,4-Dinitrophenol	ND	10
4-Chloroaniline	ND	10	2,4-Dinitrotoluene	ND	10

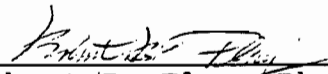
CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)

ND: None Detected

DLR: Detection Limit for Reporting purposes

mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643.

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.8 ****AMENDED REPORT**** PAGE 40 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lon Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : S. King
 REVIEWED BY : R. Stafford
 DATE PREPARED: 11-17-93
 DATE ANALYZED: 11-24-93

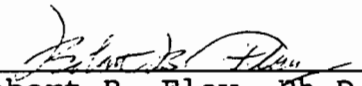
CLIENT SAMPLE ID: PG-8 SAMPLE TYPE: Drinking Water
 ACID & BASE/NEUTRAL ORGANICS
 METHOD: EPA 625 (PART B)

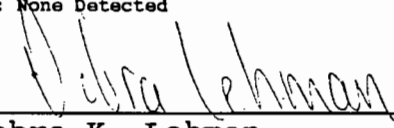
CONSTITUENT	RESULT (ug/L)	DLR (ug/L)	CONSTITUENT	RESULT (ug/L)	DLR (ug/L)
2,6-Dinitrotoluene	ND	10	2-Nitroaniline	ND	10
1,2-Diphenylhydrazine (Azobenzene)	ND	10	3-Nitroaniline	ND	10
Di-n-octylphthalate	ND	10	4-Nitroaniline	ND	10
Fluoranthene	ND	10	Nitrobenzene	ND	10
Fluorene	ND	10	2-Nitrophenol	ND	10
Hexachlorobenzene	ND	10	4-Nitrophenol	ND	10
Hexachlorobutadine	ND	10	N-Nitrosodimethylamine	ND	10
Hexachlorocyclopentadiene	ND	10	N-Nitrosodiphenylamine	ND	10
Hexachloroethane	ND	10	N-Nitrosodi-n-propylamine	ND	10
Indeno (1,2,3-cd) pyrene	ND	10	Pentachlorophenol	ND	10
Isophorone	ND	10	Phenanthrene	ND	10
2-Methylnaphthalene	ND	10	Phenol	ND	10
2-Methylphenol (o-cresol)	ND	10	Pyrene	ND	10
4-Methylphenol (p-cresol)	ND	10	1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10	2,4,5-Trichlorophenol	ND	10
			2,4,6-Trichlorophenol	ND	10

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371

ug/L : micrograms per Liter (parts per billion)
 DLR: Detection Limit for Reporting purposes
 mrl

ND: None Detected


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (625)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

TWINING

EST. 1898 LABORATORIES, INC.

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
 GEOTECHNICAL ENGINEERING • DRILLING SERVICES
 CONSTRUCTION INSPECTION & MATERIALS TESTING

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.1 ****AMENDED REPORT**** PAGE 41 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

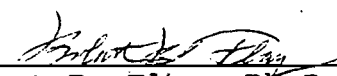
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

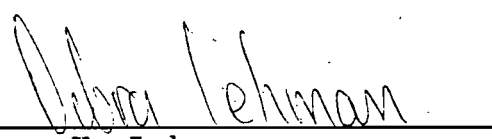
ANALYZED BY : J. Yano, T. Geringer, K. Furlow, J. Scianna, J. Strutzel
 REVIEWED BY : J. Strutzel
 DATE PREPARED: 11-11-93 through 11-30-93
 DATE ANALYZED: 11-11-93 through 11-30-93 SAMPLE TYPE: Drinking Water

CLIENT SAMPLE ID: PG-1

METALS SCAN	RESULTS (mg/L)	DLR (mg/L)	METHOD
Antimony (Sb)	ND	0.005	204.2
Arsenic (As)	0.0011	0.0005	206.3
Beryllium (Be)	ND	0.001	200.7
Cadmium (Cd)	ND	0.0005	213.2
Chromium (Cr)	0.001	0.001	218.2
Copper (Cu)	0.007	0.001	220.2
Lead (Pb)	ND	0.002	239.2
Mercury (Hg)	ND	0.0002	245.1
Nickel (Ni)	ND	0.05	200.7
Selenium (Se)	ND	0.0005	270.3
Silver (Ag)	ND	0.01	272.1
Thallium (Tl)	ND	0.005	279.2
Zinc (Zn)	ND	0.05	200.7
Cyanide (CN)	ND	0.02	335.2
Hexavalent Chromium (Cr VI)	ND	0.02	7196
Total Dissolved Solids (TDS)	37	10	160.1

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 mg/L : milligrams per Liter (parts per million) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (METAL.WAT)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.2 **AMENDED REPORT** PAGE 42 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

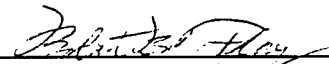
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

ANALYZED BY : J. Yano, T. Geringer, K. Furlow, J. Scianna, J. Strutzel
 REVIEWED BY : J. Strutzel
 DATE PREPARED: 11-11-93 through 11-30-93
 DATE ANALYZED: 11-11-93 through 11-30-93 SAMPLE TYPE: Ground Water

CLIENT SAMPLE ID: PG-2

METALS SCAN	RESULTS (mg/L)	DLR (mg/L)	METHOD
Antimony (Sb)	ND	0.005	204.2
Arsenic (As)	0.0061	0.0005	206.3
Beryllium (Be)	ND	0.001	200.7
Cadmium (Cd)	ND	0.0005	213.2
Chromium (Cr)	0.006	0.001	218.2
Copper (Cu)	0.004	0.001	220.2
Lead (Pb)	ND	0.002	239.2
Mercury (Hg)	ND	0.0002	245.1
Nickel (Ni)	ND	0.05	200.7
Selenium (Se)	ND	0.0005	270.3
Silver (Ag)	ND	0.01	272.1
Thallium (Tl)	ND	0.005	279.2
Zinc (Zn)	ND	0.05	200.7
Cyanide (CN)	ND	0.02	335.2
Hexavalent Chromium (Cr VI)	ND	0.02	7196
Total Dissolved Solids (TDS)	200	10	160.1

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 mg/L : milligrams per Liter (parts per million) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (METAL.WAT)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.3 **AMENDED REPORT** PAGE 43 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

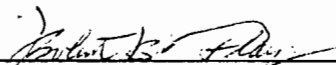
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

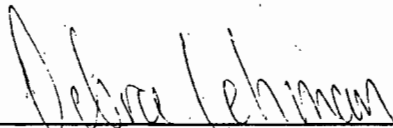
ANALYZED BY : J. Yano, T. Geringer, K. Furlow, J. Scianna, J. Strutzel
 REVIEWED BY : J. Strutzel
 DATE PREPARED: 11-11-93 through 11-30-93
 DATE ANALYZED: 11-11-93 through 11-30-93 SAMPLE TYPE: Surface Water

CLIENT SAMPLE ID: PG-3

METALS SCAN	RESULTS (mg/L)	DLR (mg/L)	METHOD
Antimony (Sb)	ND	0.005	204.2
Arsenic (As)	0.0071	0.0005	206.3
Beryllium (Be)	ND	0.001	200.7
Cadmium (Cd)	ND	0.0005	213.2
Chromium (Cr)	0.004	0.001	218.2
Copper (Cu)	ND	0.001	220.2
Lead (Pb)	ND	0.002	239.2
Mercury (Hg)	ND	0.0002	245.1
Nickel (Ni)	ND	0.05	200.7
Selenium (Se)	ND	0.0005	270.3
Silver (Ag)	ND	0.01	272.1
Thallium (Tl)	ND	0.005	279.2
Zinc (Zn)	ND	0.05	200.7
Cyanide (CN)	ND	0.02	335.2
Hexavalent Chromium (Cr VI)	ND	0.02	7196
Total Dissolved Solids (TDS)	190	10	160.1

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 mg/L : milligrams per Liter (parts per million) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (METAL.WAT)

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.5 **AMENDED REPORT** PAGE 45 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

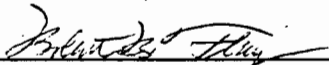
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

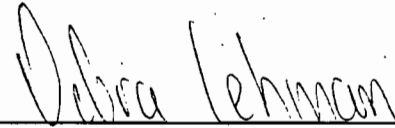
ANALYZED BY : J. Yano, T. Geringer, K. Furlow, J. Scianna, J. Strutzel
 REVIEWED BY : J. Strutzel
 DATE PREPARED: 11-11-93 through 11-30-93
 DATE ANALYZED: 11-11-93 through 11-30-93 SAMPLE TYPE: Surface Water

CLIENT SAMPLE ID: PG-5

METALS SCAN	RESULTS (mg/L)	DLR (mg/L)	METHOD
Antimony (Sb)	ND	0.005	204.2
Arsenic (As)	0.0039	0.0005	206.3
Beryllium (Be)	ND	0.001	200.7
Cadmium (Cd)	ND	0.0005	213.2
Chromium (Cr)	ND	0.001	218.2
Copper (Cu)	0.005	0.001	220.2
Lead (Pb)	0.003	0.002	239.2
Mercury (Hg)	ND	0.0002	245.1
Nickel (Ni)	ND	0.05	200.7
Selenium (Se)	ND	0.0005	270.3
Silver (Ag)	ND	0.01	272.1
Thallium (Tl)	ND	0.005	279.2
Zinc (Zn)	ND	0.05	200.7
Cyanide (CN)	ND	0.02	335.2
Hexavalent Chromium (Cr VI)	ND	0.02	7196
Total Dissolved Solids (TDS)	130	10	160.1

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 mg/L : milligrams per Liter (parts per million) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (METAL.WAT)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643

REPORT DATE : December 17, 1993 INVOICE #12199
 LABORATORY ID: 693-6345.8 **AMENDED REPORT** PAGE 48 of 48

DATE SAMPLED : 11-10-93 at 1400 by L. Maier
 DATE RECEIVED: 11-11-93 at 1040 from L. Maier

ATTENTION : Lonn Maier
 CLIENT SMUD Projects Development
 P.O. Box 15830; MS 37
 Sacramento, CA 95852-1830

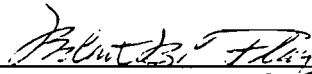
PROJECT : Procter & Gamble Cogen
 PROJECT MGR : John Larsen

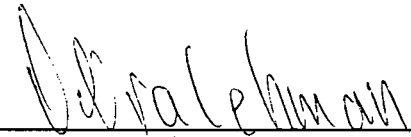
ANALYZED BY : J. Yano, T. Geringer, K. Furlow, J. Scianna, J. Strutzel
 REVIEWED BY : J. Strutzel
 DATE PREPARED: 11-11-93 through 11-30-93
 DATE ANALYZED: 11-11-93 through 11-30-93 SAMPLE TYPE: Drinking Water

CLIENT SAMPLE ID: PG-8

METALS SCAN	RESULTS (mg/L)	DLR (mg/L)	METHOD
Antimony (Sb)	ND	0.005	204.2
Arsenic (As)	0.0006	0.0005	206.3
Beryllium (Be)	ND	0.001	200.7
Cadmium (Cd)	ND	0.0005	213.2
Chromium (Cr)	ND	0.001	218.2
Copper (Cu)	0.004	0.001	220.2
Lead (Pb)	ND	0.002	239.2
Mercury (Hg)	ND	0.0002	245.1
Nickel (Ni)	ND	0.05	200.7
Selenium (Se)	ND	0.0005	270.3
Silver (Ag)	ND	0.01	272.1
Thallium (Tl)	ND	0.005	279.2
Zinc (Zn)	ND	0.05	200.7
Cyanide (CN)	ND	0.02	335.2
Hexavalent Chromium (Cr VI)	ND	0.02	7196
Total Dissolved Solids (TDS)	36	10	160.1

CALIFORNIA DEPARTMENT OF HEALTH SERVICES CERTIFICATE NO. 1371
 mg/L : milligrams per Liter (parts per million) DLR: Detection Limit for Reporting purposes
 ND : None Detected
 mrl


 Robert B. Flay, Ph.D.
 Vice President
 Chemistry Division


 Debra K. Lehman
 QA Manager

Rev. 1 8/93 (METAL.WAT)

CORPORATE OFFICE:
 2527 Fresno Street
 Fresno, CA 93721
 (209) 268-7021 • Fax 268-7126
 Chemistry Fax 268-0740

MODESTO
 4230 Kiernan Ave. Suite 105
 Modesto, CA 95356
 (209) 545-1050
 Fax 545-1147

VISALIA
 2521 E. Valley Oaks Drive
 Visalia, CA 93292
 (209) 625-1712
 Fax 625-1714

BAKERSFIELD
 3701 Pegasus Drive, Suite 124
 Bakersfield, CA 93308
 (805) 393-5088
 Fax 393-4643