



**El Segundo Power, LLC**  
301 Vista Del Mar Boulevard  
El Segundo, CA 90245  
Phone: 310.615.6028  
Fax: 310.615.6060

February 24, 2010

Division of Water Quality  
C/O Discharge Monitoring Report Process Center  
1001 I street, 15<sup>th</sup> Floor  
Sacramento, CA 95814

Subject: El Segundo Power, LLC  
Monitoring and Reporting Program  
No. 54667, January 2010 Monthly and Year 2009 Annual Report

#### MONTHLY REPORT

Attached are the test results obtained from the required sampling stations during the month of January 2010. This is in compliance with the requirements as set forth in NPDES Permit Number CA0001147, California Regional Water Quality Control Board, Los Angeles Region Order Number 00-084, covering wastes discharged at El Segundo Power, LLC. Please refer to compliance file CI 4667.

All test results contained in this report are within the specified limit for each parameter. There were no Metal Cleaning Wastes nor were there any Non-Metal Cleaning Wastes discharged for the Month of January 2010. For the month of January 2010, the effluent of Sanitary Waste Treatment Plant #1 was routed to Discharge Point #002. This was done to reduce once through cooling water flow and reduce power. There was no chlorination performed on Discharge Point #001 for the month of January 2010. On January 7, 2010, Chronic Toxicity Testing was conducted for Kelp on Discharge Point #001. Please find the results of this test submitted within the report.

There were no hazardous wastes manifests for the month of January 2010. On January 7, 2010, Chronic Toxicity testing was conducted for Giant Kelp. Please find the sample results included within this report.

All analyses were conducted at a laboratory certified for such analyses by the State Department of Health or approved by the Executive Officer and in accordance with current EPA guideline procedures, or as specified in the Monitoring Program.

## ANNUAL REPORT

As part of the annual report submittal please find the tabular and graphical summaries of the monitoring data obtained during the year 2009. Also included are copies of ELAP certifications for all laboratories used by El Segundo Power, LLC. Also please find a hazardous material summary for year 2009.

The following is a compilation for the year:

### UNITS 1 & 2:

On January 1, 2003, Units 1 and 2 ceased commercial operation. The once through cooling water system for Units 1 and 2 remains in operation. Chlorination of the Units 1 and 2 Circulating Water System terminated at the end of February 2008. The NPDES Monitoring and Reporting Program for discharge point #001 continues without interruption.

### CHRONIC TOXICITY TESTING

On May 9, 2009, the second quarter Chronic Kelp Toxicity testing was conducted on Discharge Point #001, with a retest conducted on June 8, 2009. The results of the May 9, 2009 test showed acceptable germination but the results were statistically outside the limits. The May 9, 2009 test had a TUC of 16 and NOEC of 6.25%. The percent germination was between 75.4 % and 87.2%. The percent germination of this test exceeded the acceptability criteria for controls  $\geq 70\%$ . The June 8, 2009 test results showed a TUC of 1.00 and an NOEC of 100%.

El Segundo Power representatives have met with LARWQCB in the past regarding test results of this nature. El Segundo Power has communicated that results such as these show acceptable germination; no effect on tube length; yet show statistically to be outside of the limits. The director of the laboratory that conducted these tests has provided El Segundo Power, LLC with a conclusory statement that the results indicate no biological or ecological impacts. LARWQCB, after reviewing past similar test results, has previously agreed that results such as these did not indicate any significant biological or ecological impacts.

Fourth quarter Chronic Kelp Toxicity testing was conducted on November 2, 2009 with a retest on December 30, 2009. The November 2, 2009 test showed a TUC of 16 and a NOEC of 6.25%. The results of the November 2, 2009 test showed acceptable germination but the results were statistically outside the limits. The percent germination was between 87.8 % and 99.2%. The percent germination of this test exceeded the acceptability criteria for controls  $\geq 70\%$ . The December 30, 2009 test showed a TUC of 1.00 and an NOEC of 100%. As stated above, test results of this nature have been previously discussed with the LARWQCB. Additionally, the director of the laboratory that conducted the tests has stated that there was no indication that this sample exhibited any significant biological or ecological impacts.

## WATERBOARD INSPECTIONS

There were no Los Angeles Regional Water Quality Control Board inspections conducted at the El Segundo Generating Station during 2009. On September 1, 2009, Paul Shriner, Jan Matuszko, and John Kemmerer of the United States Environmental Protection Agency and Tim Havey and Kelly Meadows of Tetra Tech visited the El Segundo Generating Station. The purpose of their visit was to gather information regarding El Segundo Power, LLC, its repowering efforts and its technological efforts to comply with Rule 316(b).

## SANITARY TREATMENT PLANTS

For the year 2009, Sanitary Treatment Plant #1 was routed to Sanitary Treatment Plant #2. This was done to reduce once-through cooling water flow at Units 1 and 2 and to conserve energy.

## HEAT TREAT

No heat treats were conducted on discharge point #001 during 2009. On July 1, 2009, a heat treat was conducted on discharge point #002. The maximum temperature attained was 103.4 degrees F. On September 3, 2009, a heat treat was conducted on discharge point #002. The maximum temperature attained was 118.9 degrees F. All heat treats conducted were within permit limits.

## METAL CLEANING WASTES

There were no Metal Cleaning Wastes discharged during the year 2009.

## NON-METAL CLEANING WASTES

There were no Non-Metal Cleaning Wastes discharged during the year 2009.

## STORM WATER

The annual Storm Water Report was submitted on June 25, 2009.

## DMR-QA

As directed by the NPDES Permit, El Segundo Power, LLC participated in the annual DMR-QA study. Not-Acceptable values were given on a few parameters. These were all corrected.

## KELP MONITORING

El Segundo Power, LLC voluntarily participated in the Regional Kelp Monitoring Study.

OTHER MONITORING

As directed in the NPDES Permit, El Segundo Power, LLC conducted quarterly chronic toxicity bioassays, semi-annual metals, and annual effluent priority pollutants monitoring.

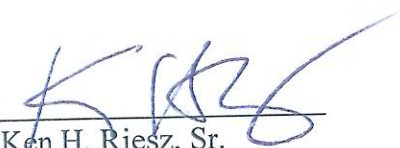
If you should have any questions concerning this report please contact Mr. Alex Sanchez at (310) 615-6351.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of, a fine or imprisonment for knowing violations.

Executed on the 24th day of February 2010 in El Segundo, California.

Sincerely,

El Segundo Power, LLC  
By: NRG El Segundo Operations Inc.,  
It's Authorized Agent

By:   
Ken H. Riesz, Sr.  
Plant Manager

Attachments  
File Number  
1 C 4 2 1H

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

001-A  
DISCHARGE NUMBER

FACILITY: EL SEGUNDO GENERATING STATION

LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
DISCHARGE 001/MONTHLY  
External Outfall

No Discharge

ATTN: ALEX SANCHEZ

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE				UNITS
Temperature, water deg. fahrenheit	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
00011 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
Temperature, water deg. fahrenheit	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
00011 P 0 See Comments	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
Temperature, water deg. fahrenheit	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
00011 R 0 See Comments	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
pH	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
00400 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
50050 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
Chlorine, total residual	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
50060 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
Chlorine, free available	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD
50064 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	Continuous	MEASRD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
EL SEGUNDO POWER, LLC  
BY: EL SEGUNDO OPERATIONS, INC  
IT'S AUTHORIZED AGENT

TELEPHONE  
310-615-6030

DATE  
02/24/2010

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
TEMP PARAM 00011, REPORT BY MLOC, TEMPERATURE OF DISCHARGE SHALL NOT EXCEED 105F DURING NORMAL OPERATION MLOC=1, 125F DURING HEAT TREATMENT MLOC=P, 130F DURING HEAT TREATMENT AND READJUSTMENT OF RECIRCULATION GATE MLOC=R. TEMP > 125F SHALL NO EXCEED 30 MINUTES.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

002-A  
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 90245

MAJOR (SUBR 04)

DISCHARGE 002/MONTHLY

External Outfall

FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Temperature, water deg. Fahrenheit	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
00011 P 0 Effluent Gross	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
Temperature, water deg. Fahrenheit	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
00011 P 0 See Comments	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
Temperature, water deg. Fahrenheit	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
00011 R 0 See Comments	*****	*****	*****	*****	*****	deg. F	0	Continuous	MEASRD
pH	*****	*****	*****	*****	*****	SU	0	Weekly	GRAB
00400 1 0 Effluent Gross	*****	*****	*****	*****	*****	SU	0	Daily	CONTIN
Flow, in conduit or thru treatment plant	198,600,000	398,600,000	gal/d	*****	*****	*****	0	Daily	CONTIN
50050 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	Daily	CONTIN
Chlorine, total residual	*****	*****	*****	*****	*****	mg/L	0	Chlorination/Occurrences	GRAB
50060 1 0 Effluent Gross	*****	*****	*****	*****	*****	mg/L	0	Chlorination/Occurrences	GRAB
Chlorine, free available	*****	*****	*****	*****	*****	mg/L	0	Chlorination/Occurrences	GRAB
50064 1 0 Effluent Gross	*****	*****	*****	*****	*****	mg/L	0	Chlorination/Occurrences	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESZ, Sr./ PLANT MANAGER  
TYPED OR PRINTED

I certify under penalty of law that this document and all statements were prepared under my direction or supervision in accordance with a system designed to assure that the reporting data are accurate and complete. I am a duly licensed professional engineer, or other person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

EL SEGUNDO POWER, LLC  
By: EL SEGUNDO OPERATIONS, INC  
IT'S AUTHORIZED AGENT

TELEPHONE 310-615-6030  
AREA CODE NUMBER DATE 02/24/2010

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TEMP PARAM 00011, REPORT BY MLOC: TEMPERATURE OF DISCHARGE SHALL NOT EXCEED -105F DURING NORMAL OPERATION MLOC=1:125F DURING HEAT TREATMENT MLOC=P, 130F DURING HEAT TREATMENT AND READJUSTMENT OF RECIRCULATION GATE MLOC=R. TEMP > 125F SHALL NO EXCEED 30 MINUTES.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

LV1A  
DISCHARGE NUMBER

FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
CHEM MTL CLN WST/MONTHLY  
External Outfall

No Discharge


PARAMETER	SAMPLING REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Reg. Mon. DAILY MAX		Monthly	GRAB	
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG 100 DAILY MAX		Monthly	GRAB	
Copper, dissolved (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					
01040 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1 MO AVG 1 DAILY MAX	mg/L	Monthly	GRAB	
Iron, dissolved (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****					
01046 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1 MO AVG 1 DAILY MAX	mg/L	Monthly	GRAB	
Oil and grease	SAMPLE MEASUREMENT	*****	*****	*****	*****					
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	15 MO AVG 20 DAILY MAX	mg/L	Monthly	GRAB	
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	*****	*****	*****					
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Reg. Mon. DAILY MAX		Monthly	CONTIN	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted to use for any purpose of the permit or for any other action taken by the permittee. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER

TELEPHONE: 310-615-6030 DATE: 02/24/2010

AREA CODE NUMBER

BY:  EL SEGUNDO POWER, LLC  
ITS AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

LV2-A  
DISCHARGE NUMBER

FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

ATTN: ALEX SANCHEZ

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
NON-CHEM MTL CLN/MONTHLY  
External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****			Monthly	GRAB
00400 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	SU		
Solids, total suspended	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
00530 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
Copper, dissolved (as Cu)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
01040 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
Iron, dissolved (as Fe)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
01046 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
Oil and grease	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
03582 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	*****	Monthly	CONTIN
50050 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	*****	Monthly	CONTIN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER  
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information on which this document is based. Based on my inquiry of the person or persons who furnished the information, or those persons directly in charge of the gathering and evaluation of the information, and on my review of the information, I am aware that there are significant omissions or misstatements of material information, including the possibility of false and misleading information for the following reasons:

EL SEGUNDO POWER, LLC  
BY: EL SEGUNDO OPERATIONS, INC  
IT'S AUTHORIZED AGENT

TELEPHONE: 310-615-6030  
AREA CODE: 310 NUMBER: 615-6030  
DATE: 02/24/2010  
MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (reference all attachments here)



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245  
FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

CA0001147  
PERMIT NUMBER

LV2-A  
DISCHARGE NUMBER

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
NON-CHEM MTL CLN/MONTHLY  
External Outfall  
No Discharge  C

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
00400 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	SU	Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
00530 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
Copper, dissolved (as Cu)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
01040 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
Iron, dissolved (as Fe)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
01046 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
Oil and grease	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
03582 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	mg/L	Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	*****	Monthly	CONTIN
50050 1 0 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Reg. Mon. DAILY MX	*****	Monthly	CONTIN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER  
TYPED OR PRINTED

I certify under penalty of perjury that the document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who furnished the information, and on my knowledge and belief, the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

EL SEGUNDO POWER, LLC  
BY: EL SEGUNDO OPERATIONS, INC  
ITS AUTHORIZED AGENT

TELEPHONE 310-615-6030 DATE 02/24/2010  
AREA CODE NUMBER  
MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

LV3-A  
DISCHARGE NUMBER

FACILITY: EL SEGUNDO GENERATING STATION

LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245

ATTN: ALEX SANCHEZ

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
NON-SANI LOW VOL/MONTHLY  
External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
PH		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
00400 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
Solids, total suspended		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
00530 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
Oil and grease		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
03582 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	0	Monthly	CONTIN
50050 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	0	Monthly	CONTIN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of perjury that I am the authorized representative of the permittee and that the information provided in this report is true and accurate to the best of my knowledge and belief. I understand that this information is being provided to the public and that it may be used for enforcement purposes. I understand that I am responsible for the accuracy of the information provided in this report and that I am responsible for the accuracy of the information provided in this report.	EL SEGUNDO POWER, LLC BY: EL SEGUNDO OPERATIONS, INC IT'S AUTHORIZED AGENT	TELEPHONE 310-615-6030	DATE 02/24/2010
KEN H. RIESZ, Sr./ PLANT MANAGER			AREA CODE NUMBER	MM/DD/YYYY
TYPED OR PRINTED				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245  
FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

CA0001147  
PERMIT NUMBER

LV4-A  
DISCHARGE NUMBER

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
SANITARY WASTE 1 /MONTHLY  
External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE			
BOD, 5-day, 20 deg. C	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
00310 1 0 Effluent Gross	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	mg/L	*****	Monthly	GRAB
Solids, total suspended	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	mg/L	*****	Monthly	GRAB
00530 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
Solids, settleable	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
00545 1 0 Effluent Gross	*****	*****	*****	*****	1 MO AVG	3 DAILY MX	mL/L	*****	Monthly	GRAB
Oil and grease	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
03582 1 0 Effluent Gross	*****	*****	*****	*****	10 MO AVG	15 DAILY MX	mg/L	*****	Monthly	GRAB
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
50050 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
Enterococci	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
61211 1 0 Effluent Gross	*****	*****	*****	*****	*****	104 MAXIMUM	CFU/100m L	*****	Monthly	GRAB
Coliform, fecal general	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
74055 1 0 Effluent Gross	*****	*****	*****	*****	*****	200 MAXIMUM	MPN/100m L	*****	Monthly	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who provided the information and on my review of the information submitted, I declare that the information is true and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER

EL SEGUNDO POWER, LLC  
BY: EL SEGUNDO OPERATIONS, INC  
IT'S AUTHORIZED AGENT

TELEPHONE  
310-615-6030

DATE  
02/24/2010

AREA CODE NUMBER  
310-615-6030

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

CA0001147  
PERMIT NUMBER

LVA-A  
DISCHARGE NUMBER


FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

MONITORING PERIOD  
MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
SANITARY WASTE 1 MONTHLY  
External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	REQUIREMENT	VALUE	UNITS	REQUIREMENT			
Coliform, total general	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
74056-10 Effluent Gross	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify by under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of this person or persons who provided the information submitted, I am aware that there are no omissions or material misstatements of fact. I am aware that there are specific penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.	
KEN H. RIESZ, Sr./ PLANT MANAGER	 EL SEGUNDO POWER, LLC By: EL SEGUNDO OPERATIONS, INC IT'S AUTHORIZED AGENT	
TYPED OR PRINTED	TELEPHONE	DATE
	310-615-6030	02/24/2010
	AREA CODE NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0094

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245  
FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

CA0001147  
PERMIT NUMBER

LV5-A  
DISCHARGE NUMBER

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
SANITARY WASTE 2 MONTHLY  
External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	19.9	21.4	0	Monthly	GRAB
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	MO AVG	DAILY MX	0	Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	17.5	18.0	0	Monthly	GRAB
000530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	MO AVG	DAILY MX	0	Monthly	GRAB
Solids, settleable	SAMPLE MEASUREMENT	*****	*****	*****	NODI B	NODI B	0	Monthly	GRAB
000545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	MO AVG	DAILY MX	0	Monthly	GRAB
Oil and grease	SAMPLE MEASUREMENT	*****	*****	*****	1.5	1.6	0	Monthly	GRAB
003582 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	MO AVG	DAILY MX	0	Monthly	GRAB
Flow, In conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	*****	*****	0.0015	Mgal/L	0	Monthly	GRAB
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Non-Daily MX	Mgal/d	0	Monthly	CONTIN
Enterococci	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	Monthly	GRAB
61211 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0	Monthly	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	Monthly	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0	Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
KEN H. RIESS, Sr./ PLANT MANAGER  
TYPED OR PRINTED

I certify under penalty of perjury that the information reported in this report is true and correct. I understand that anyone who furnishes false or misleading information on this report or who omits material or information requested on the report may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties).

EL SEGUNDO POWER, LLC  
By: EL SEGUNDO OPERATIONS, INC  
IT'S AUTHORIZED AGENT

TELEPHONE: 310-615-6030  
DATE: 02/24/2010  
AREA CODE: NUMBER: MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/location if Different)

NAME: EL SEGUNDO POWER, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245  
FACILITY: EL SEGUNDO GENERATING STATION  
LOCATION: 301 Vista Del Mar  
El Segundo, CA 90245  
ATTN: ALEX SANCHEZ

CA0001147  
PERMIT NUMBER

LV5-A  
DISCHARGE NUMBER

MONITORING PERIOD  
MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

MONITORING PERIOD  
MM/DD/YYYY  
FROM 01/01/2010 TO 01/31/2010

DMR Mailing ZIP CODE: 90245  
MAJOR (SUBR 04)  
SANITARY WASTE 2 MONTHLY  
External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Coliform, Total general		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB
7405610 Effluent Gross		*****	*****	*****	*****	*****	*****	0	Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who furnished the information, and those persons, and my knowledge and belief, and that of those persons, the information and records submitted are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
KEN H. RIESZ, Sr./ PLANT MANAGER		EL SEGUNDO POWER, LLC By: EL SEGUNDO OPERATIONS, INC IT'S AUTHORIZED AGENT
TELEPHONE	DATE	
310-615-6030	02/24/2010	
AREA CODE NUMBER	MMDDYYYY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**El Segundo Power, LLC**  
301 Vista Del Mar Boulevard  
El Segundo, CA 90245  
Phone: 310.615.6028  
Fax: 310.615.6060

February 24, 2010

Tracey Egoscue  
C/O California Regional Water Quality Control Board  
Los Angeles Region  
ATTN: Technical Support Unit  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Subject: El Segundo Power, LLC  
Monitoring and Reporting Program  
No. 54667, January 2010 Monthly and Year 2009 Annual Report

#### MONTHLY REPORT

Attached are the test results obtained from the required sampling stations during the month of January 2010. This is in compliance with the requirements as set forth in NPDES Permit Number CA0001147, California Regional Water Quality Control Board, Los Angeles Region Order Number 00-084, covering wastes discharged at El Segundo Power, LLC. Please refer to compliance file CI 4667.

All test results contained in this report are within the specified limit for each parameter. There were no Metal Cleaning Wastes nor were there any Non-Metal Cleaning Wastes discharged for the Month of January 2010. For the month of January 2010, the effluent of Sanitary Waste Treatment Plant #1 was routed to Discharge Point #002. This was done to reduce once through cooling water flow and reduce power. There was no chlorination performed on Discharge Point #001 for the month of January 2010. On January 7, 2010, Chronic Toxicity Testing was conducted for Kelp on Discharge Point #001. Please find the results of this test submitted within the report.

There were no hazardous wastes manifests for the month of January 2010. On January 7, 2010, Chronic Toxicity testing was conducted for Giant Kelp. Please find the sample results included within this report.

All analyses were conducted at a laboratory certified for such analyses by the State Department of Health or approved by the Executive Officer and in accordance with current EPA guideline procedures, or as specified in the Monitoring Program.

## ANNUAL REPORT

As part of the annual report submittal please find the tabular and graphical summaries of the monitoring data obtained during the year 2009. Also included are copies of ELAP certifications for all laboratories used by El Segundo Power, LLC. Also please find a hazardous material summary for year 2009.

The following is a compilation for the year:

### UNITS 1 & 2:

On January 1, 2003, Units 1 and 2 ceased commercial operation. The once through cooling water system for Units 1 and 2 remains in operation. Chlorination of the Units 1 and 2 Circulating Water System terminated at the end of February 2008. The NPDES Monitoring and Reporting Program for discharge point #001 continues without interruption.

### CHRONIC TOXICITY TESTING

On May 9, 2009, the second quarter Chronic Kelp Toxicity testing was conducted on Discharge Point #001, with a retest conducted on June 8, 2009. The results of the May 9, 2009 test showed acceptable germination but the results were statistically outside the limits. The May 9, 2009 test had a TUC of 16 and NOEC of 6.25%. The percent germination was between 75.4 % and 87.2%. The percent germination of this test exceeded the acceptability criteria for controls  $\geq 70\%$ . The June 8, 2009 test results showed a TUC of 1.00 and an NOEC of 100%.

El Segundo Power representatives have met with LARWQCB in the past regarding test results of this nature. El Segundo Power has communicated that results such as these show acceptable germination; no effect on tube length; yet show statistically to be outside of the limits. The director of the laboratory that conducted these tests has provided El Segundo Power, LLC with a conclusory statement that the results indicate no biological or ecological impacts. LARWQCB, after reviewing past similar test results, has previously agreed that results such as these did not indicate any significant biological or ecological impacts.

Fourth quarter Chronic Kelp Toxicity testing was conducted on November 2, 2009 with a retest on December 30, 2009. The November 2, 2009 test showed a TUC of 16 and a NOEC of 6.25%. The results of the November 2, 2009 test showed acceptable germination but the results were statistically outside the limits. The percent germination was between 87.8 % and 99.2%. The percent germination of this test exceeded the acceptability criteria for controls  $\geq 70\%$ . The December 30, 2009 test showed a TUC of 1.00 and an NOEC of 100%. As stated above, test results of this nature have been previously discussed with the LARWQCB. Additionally, the director of the laboratory that conducted the tests has stated that there was no indication that this sample exhibited any significant biological or ecological impacts.



## WATERBOARD INSPECTIONS

There were no Los Angeles Regional Water Quality Control Board inspections conducted at the El Segundo Generating Station during 2009. On September 1, 2009, Paul Shriner, Jan Matuszko, and John Kemmerer of the United States Environmental Protection Agency and Tim Havey and Kelly Meadows of Tetra Tech visited the El Segundo Generating Station. The purpose of their visit was to gather information regarding El Segundo Power, LLC, its repowering efforts and its technological efforts to comply with Rule 316(b).

## SANITARY TREATMENT PLANTS

For the year 2009, Sanitary Treatment Plant #1 was routed to Sanitary Treatment Plant #2. This was done to reduce once-through cooling water flow at Units 1 and 2 and to conserve energy.

## HEAT TREAT

No heat treats were conducted on discharge point #001 during 2009. On July 1, 2009, a heat treat was conducted on discharge point #002. The maximum temperature attained was 103.4 degrees F. On September 3, 2009, a heat treat was conducted on discharge point #002. The maximum temperature attained was 118.9 degrees F. All heat treats conducted were within permit limits.

## METAL CLEANING WASTES

There were no Metal Cleaning Wastes discharged during the year 2009.

## NON-METAL CLEANING WASTES

There were no Non-Metal Cleaning Wastes discharged during the year 2009.

## STORM WATER

The annual Storm Water Report was submitted on June 25, 2009.

## DMR-QA

As directed by the NPDES Permit, El Segundo Power, LLC participated in the annual DMR-QA study. Not-Acceptable values were given on a few parameters. These were all corrected.

## KELP MONITORING

El Segundo Power, LLC voluntarily participated in the Regional Kelp Monitoring Study.

OTHER MONITORING

As directed in the NPDES Permit, El Segundo Power, LLC conducted quarterly chronic toxicity bioassays, semi-annual metals, and annual effluent priority pollutants monitoring.

If you should have any questions concerning this report please contact Mr. Alex Sanchez at (310) 615-6351.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of, a fine or imprisonment for knowing violations.

Executed on the 24th day of February 2010 in El Segundo, California.

Sincerely,

El Segundo Power, LLC  
By: NRG El Segundo Operations Inc.,  
It's Authorized Agent

By:   
Ken H. Riesz, Sr.  
Plant Manager

Attachments  
File Number  
1 C 4 2 1H

EL SEGUNDO POWER LLC  
EL SEGUNDO GENERATING STATION  
EFFLUENT MONITORING ANALYSIS DATA

Jan-10

TOTAL EFFLUENT FROM DISCHARGE SERIAL NO. 001

Day	Total Effluent Flow (10E6 GPD)	Maximum Discharge Temp.	Free Available Chlorine (mg/l)	Total Residual Chlorine (mg/l)	pH	Temp deg C
1	0.0	59.4				
2	0.0	59.7				
3	0.0	59.8				
4	0.0	60.2			7.5	19
5	0.0	60.2				
6	0.0	60.2				
7	0.0	60.3				
8	0.0	60.6				
9	0.0	60.6				
10	0.0	60.1				
11	0.0	60.1			8.1	16
12	0.0	60.1				
13	0.0	60.6				
14	0.0	60.6				
15	0.0	60.5				
16	0.0	60.1				
17	0.0	60.1				
18	0.0	60.3			7.72	16
19	0.0	60.3				
20	0.0	60.0				
21	0.0	59.2				
22	0.0	58.2				
23	0.0	58.4				
24	0.0	60.7				
25	0.0	60.7			8.37	16
26	0.0	59.7				
27	0.0	59.4				
28	0.0	59.6				
29	0.0	59.6				
30	0.0	59.7				
31	0.0	60.0				
<b>Discharge Limit:</b>			0.2	-	6.0 - 9.0	
			Instantaneous Max	0.2		
<b>Temperature Discharge Limit:</b>						
Normal Ops:		105 Degs. F				
Heat Treat:		125 Degs. F				
Recirc. Gate Adj.:		135 Degs. F				
<b>NPDES/DMR</b>						
Average	0.0	60.0			7.9	17
Maximum	0.0	60.7			8.4	19
Minimum	0.0	58.2			7.5	16
NOTE: In lieu of monitoring for radioactivity, no radioactive pollutants were added to the discharge.						
0.00 - Indicates No Discharge of chlorine on these days, or reading non-detect.						
* Daily- Sample & Analysis Performed On Days Of Chlorination						
** Heat Treat						

EL SEGUNDO POWER LLC  
EL SEGUNDO GENERATING STATION  
EFFLUENT MONITORING ANALYSIS DATA

Jan-10

TOTAL EFFLUENT FROM DISCHARGE SERIAL NO. 002

Day	Total Effluent Flow (10E6 GPD)	Maximum Discharge Temp. (Degrees F)	Free Available Chlorine (mg/l)	Total Residual Chlorine (mg/l)	pH	Temp deg C
1	211.8	74.3				
2	265.7	79.0				
3	199.3	81.8				
4	245.0	81.8	0.12	0.15	8.13	18
5	386.1	78.7				
6	398.6	84.8	0.07	0.09	8.06	19
7	398.6	84.8				
8	398.6	72.3	0.03	0.05		
9	257.4	69.5				
10	199.3	67.6				
11	170.2	62.6	0.06	0.08	8.18	17
12	199.3	77.1				
13	199.3	118.9	0.12	0.14		
14	199.3	71.3				
15	199.3	75.8	0.12	0.13		
16	128.7	75.8				
17	103.8	66.4				
18	199.3	89.4	0.18	0.20	8.24	20
19	186.8	89.4				
20	199.3	80.7	0.15	0.19		
21	199.3	80.6				
22	199.3	80.6	0.11	0.13		
23	145.3	80.9				
24	112.1	91.2				
25	124.6	96.4	0.17	0.20	8.49	19
26	120.4	92.8				
27	116.3	94.3	0.19	0.20		
28	99.6	78.8				
29	99.6	85.0	0.18	0.20		
30	99.6	69.6				
31	99.6	62.5				
Discharge Limit:			0.2	-	6.0 - 9.0	
Instantaneous Max			0.5	0.4		
Temperature Discharge Limit:						
Normal Ops:		105 Degs. F				
Heat Treat:		125 Degs. F				
Recirc. Gate Adj.:		135 Degs. F				
NPDES/DMR						
Average	198.8	80.5	0.13	0.15	8.2	19
Maximum	398.6	118.9	0.19	0.20	8.5	19
Minimum	99.6	62.5	0.03	0.05	8.1	17
NOTE: In lieu of monitoring for radioactivity, no radioactive pollutants were added to the discharge.						
0.00 - Indicates No Discharge of chlorine on these days, or reading non-detect.						
* Daily- Sample & Analysis Performed On Days Of Chlorination						
** Heat Treat						

EL SEGUNDO POWER LLC  
 EFFLUENT MONITORING ANALYSIS DATA  
 LARWQCB ORDER NO. 00-084, NPDES NO. CA0001147  
 Jan-10  
 INPLANT WASTE STREAMS

**I. LOW VOLUME WASTE**

**A) RETENTION BASIN - (LVW 1)**

	Constituent	Concentration	Units	Temp deg C	Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
Date	Daily Flow	150,000	MGPD		N/A	N/A	Daily
	Suspended Solids-1	3.5	mg/l		100	30	Monthly
1/12/10	Suspended Solids-2	5.1	mg/l		100	30	Monthly
1/12/10	Suspended Solids-3		mg/l		100	30	Monthly
	Suspended Solids-4		mg/l		100	30	Monthly
	Suspended Solids-5		mg/l		100	30	Monthly
	Suspended Solids-6		mg/l		100	30	Monthly
	Suspended Solids Max	5.1	mg/l		100	30	Monthly
	Suspended Solids Avg	4.3	mg/l		100	30	Monthly
	Oil & Grease-1	2.8	mg/l		20	15	Monthly
1/7/10	Oil & Grease-2	2.2	mg/l		20	15	Monthly
1/7/10	Oil & Grease-3		mg/l		20	15	Monthly
	Oil & Grease-4		mg/l		20	15	Monthly
	Oil & Grease-5		mg/l		20	15	Monthly
	Oil & Grease-6		mg/l		20	15	Monthly
	Oil & Grease Max	2.8	mg/l		20	15	Monthly
	Oil & Grease Avg	2.5	mg/l		20	15	Monthly
	pH-1	8.41	pH	18°C	6.0 - 9.1	N/A	Monthly
1/4/10	pH-2	8.06	pH	19°C	6.0 - 9.1	N/A	Monthly
1/6/10	pH-3	8.65	pH	16°C	6.0 - 9.1	N/A	Monthly
1/25/10	pH-4		pH		6.0 - 9.1	N/A	Monthly
	pH-5		pH		6.0 - 9.1	N/A	Monthly
	pH-6		pH		6.0 - 9.1	N/A	Monthly
	pH Max	8.7	pH		6.0 - 9.1	N/A	Monthly
	pH Min	8.4	pH		6.0 - 9.0	N/A	Monthly

B) SANITARY PLANT 1						
Constituent	Concentration	Units	Date	Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
Daily Flow MAX		GPD		N/A	N/A	Monthly
Oil & Grease-1		mg/l		15	10	Monthly
Oil & Grease-2		mg/l		15	10	Monthly
Oil & Grease-3		mg/l		15	10	Monthly
Oil & Grease-4		mg/l		15	10	Monthly
Oil & Grease-5		mg/l		15	10	Monthly
Oil & Grease Max	ND	mg/l		15	10	Monthly
Oil & Grease Avg	ND	mg/l		15	10	Monthly
Settleable Solids-1		ml/l		0.3	0.1	Monthly
Settleable Solids-2		ml/l		0.3	0.1	Monthly
Settleable Solids-3		ml/l		0.3	0.1	Monthly
Settleable Solids-4		ml/l		0.3	0.1	Monthly
Settleable Solids-5		ml/l		0.3	0.1	Monthly
Settleable Solids Max	ND	ml/l		0.3	0.1	Monthly
Settleable Solids Avg	ND	ml/l		0.3	0.1	Monthly
Suspended Solids-1		mg/l		45	30	Monthly
Suspended Solids-2		mg/l		45	30	Monthly
Suspended Solids-3		mg/l		45	30	Monthly
Suspended Solids-4		mg/l		45	30	Monthly
Suspended Solids-5		mg/l		45	30	Monthly
Suspended Solids Max	ND	mg/l		45	30	Monthly
Suspended Solids Avg	ND	mg/l		45	30	Monthly
BOD5 @ 20C-1		mg/l		45	30	Monthly
BOD5 @ 20C-2		mg/l		45	30	Monthly
BOD5 @ 20C-3		mg/l		45	30	Monthly
BOD5 @ 20C-4		mg/l		45	30	Monthly
BOD5 @ 20C-5		mg/l		45	30	Monthly
BOD5 @ 20C Max	ND	mg/l		45	30	Monthly
BOD5 @ 20C Avg	ND	mg/l		45	30	Monthly
Total Coliform-1		100 ml		N/A	N/A	Monthly
Total Coliform-2		100 ml		N/A	N/A	Monthly
Total Coliform-3		100 ml		N/A	N/A	Monthly
Total Coliform-4		100 ml		N/A	N/A	Monthly
Total Coliform-5		100 ml		N/A	N/A	Monthly
Total Coliform Max	ND	100 ml		N/A	N/A	Monthly
Total Coliform Avg	ND	100 ml		N/A	N/A	Monthly
Fecal Coliform-1		100 ml		N/A	N/A	Monthly
Fecal Coliform-2		100 ml		N/A	N/A	Monthly
Fecal Coliform-3		100 ml		N/A	N/A	Monthly
Fecal Coliform-4		100 ml		N/A	N/A	Monthly
Fecal Coliform-5		100 ml		N/A	N/A	Monthly
Fecal Coliform Max		100 ml		N/A	N/A	Monthly
Fecal Coliform Avg	ND	100 ml		N/A	N/A	Monthly
Enterrococi-1		100 ml				
Enterrococi-2		100 ml		N/A	N/A	Monthly
Enterrococi-3		100 ml				
Enterrococi-4		100 ml				
Enterrococi-5		100 ml				
Enterrococi Max	ND	100 ml		N/A	N/A	Monthly
Enterrococi Avg	ND	100 ml		N/A	N/A	Monthly

C) SANITARY PLANT 2						
Constituent	Concentration	Units	Date	Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
Daily Flow MAX	1,500	GPD				Monthly
Oil & Grease-1	1.6	mg/l	1/7/10	15	10	Monthly
Oil & Grease-2	1.4	mg/l	1/7/10	15	10	Monthly
Oil & Grease-3		mg/l		15	10	Monthly
Oil & Grease-4		mg/l		15	10	Monthly
Oil & Grease-5		mg/l		15	10	Monthly
Oil & Grease Max	1.6	mg/l		15	10	Monthly
Oil & Grease Avg	1.5	mg/l		15	10	Monthly
Settleable Solids-1	ND	ml/l	1/7/10	0.3	0.1	Monthly
Settleable Solids-2		ml/l		0.3	0.1	Monthly
Settleable Solids-3		ml/l		0.3	0.1	Monthly
Settleable Solids-4		ml/l		0.3	0.1	Monthly
Settleable Solids-5		ml/l		0.3	0.1	Monthly
Settleable Solids Max	ND	ml/l		0.3	0.1	Monthly
Settleable Solids Avg	ND	ml/l		0.3	0.1	Monthly
Suspended Solids-1	18.0	mg/l	1/7/10	45	30	Monthly
Suspended Solids-2	17.0	mg/l	1/7/10	45	30	Monthly
Suspended Solids-3		mg/l		45	30	Monthly
Suspended Solids-4		mg/l		45	30	Monthly
Suspended Solids-5		mg/l		45	30	Monthly
Suspended Solids Max	18.0	mg/l		45	30	Monthly
Suspended Solids Avg	17.50	mg/l		45	30	Monthly
BOD5 @ 20C-1	21.4	mg/l	1/7/10	45	30	Monthly
BOD5 @ 20C-2	19.9	mg/l	1/7/10	45	30	Monthly
BOD5 @ 20C-3		mg/l		45	30	Monthly
BOD5 @ 20C-4		mg/l		45	30	Monthly
BOD5 @ 20C-5		mg/l		45	30	Monthly
BOD5 @ 20C Max	21.4	mg/l		45	30	Monthly
BOD5 @ 20C Avg	20.7	mg/l		45	30	Monthly
Total Coliform-1	11.0	100 ml	1/7/10	N/A	N/A	Monthly
Total Coliform-2		100 ml		N/A	N/A	Monthly
Total Coliform-3		100 ml		N/A	N/A	Monthly
Total Coliform-4		100 ml		N/A	N/A	Monthly
Total Coliform-5		100 ml		N/A	N/A	Monthly
Total Coliform Max	11.0	100 ml		N/A	N/A	Monthly
Total Coliform Avg	11.0	100 ml		N/A	N/A	Monthly
Fecal Coliform-1	2.0	100 ml	1/7/10	N/A	N/A	Monthly
Fecal Coliform-2		100 ml		N/A	N/A	Monthly
Fecal Coliform-3		100 ml		N/A	N/A	Monthly
Fecal Coliform-4		100 ml		N/A	N/A	Monthly
Fecal Coliform-5		100 ml		N/A	N/A	Monthly
Fecal Coliform Max	2.0	100 ml		N/A	N/A	Monthly
Fecal Coliform Avg	2.0	100 ml		N/A	N/A	Monthly
Enterrococi-1	2.0	100 ml	1/7/10	N/A	N/A	Monthly
Enterrococi-2		100 ml		N/A	N/A	Monthly
Enterrococi-3		100 ml		N/A	N/A	Monthly
Enterrococi-4		100 ml		N/A	N/A	Monthly
Enterrococi-5		100 ml		N/A	N/A	Monthly
Enterrococi Max	2.0	100 ml		N/A	N/A	Monthly
Enterrococi Avg	2.0	100 ml		N/A	N/A	Monthly

D) INLET & OUTLET TUNNELS						
Constituent	Concentration	Units	Date	Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
1 & 2 Inlet Fecal Coliform	2	MPN/100	1/7/10	N/A	N/A	Monthly
1 & 2 Inlet Fecal Coliform		MPN/100		N/A	N/A	Monthly
1 & 2 Inlet Total Coliform	4	MPN/100	1/7/10	N/A	N/A	Monthly
1 & 2 Inlet Total Coliform		MPN/100		N/A	N/A	Monthly
1 & 2 Inlet Enterococci	30	MPN/100 ml	1/7/10	N/A	N/A	Monthly
1 & 2 Inlet Enterococci		MPN/100 ml		N/A	N/A	Monthly
#001 Fecal Coliform	2	MPN/100	1/7/10	N/A	N/A	Monthly
#001 Fecal Coliform		MPN/100		N/A	N/A	Monthly
#001 Total Coliform	13	MPN/100	1/7/10	N/A	N/A	Monthly
#001 Total Coliform		MPN/100		N/A	N/A	Monthly
#001 Enterococci	4	MPN/100 ml	1/7/10	N/A	N/A	Monthly
#001 Enterococci		MPN/100 ml		N/A	N/A	Monthly
3 & 4 Inlet Fecal Coliform	2	MPN/100	1/7/10	N/A	N/A	Monthly
3 & 4 Inlet Fecal Coliform		MPN/100		N/A	N/A	Monthly
3 & 4 Inlet Total Coliform	2	MPN/100	1/7/10	N/A	N/A	Monthly
3 & 4 Inlet Total Coliform		MPN/100		N/A	N/A	Monthly
3 & 4 Inlet Enterococci	2	MPN/100 ml	1/7/10	N/A	N/A	Monthly
3 & 4 Inlet Enterococci		MPN/100 ml		N/A	N/A	Monthly
#002 Fecal Coliform	2	MPN/100	1/7/10	N/A	N/A	Monthly
#002 Fecal Coliform		MPN/100		N/A	N/A	Monthly
#002 Total Coliform	30	MPN/100	1/7/10	N/A	N/A	Monthly
#002 Total Coliform		MPN/100		N/A	N/A	Monthly
#002 Enterococci	2	MPN/100 ml	1/7/10	N/A	N/A	Monthly
#002 Enterococci		MPN/100 ml		N/A	N/A	Monthly



E) CHEMICAL METAL CLEANING WASTES				Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
**There were no metal cleaning wastes discharged during this time period.						
Constituent & Date of Sample	Concentration	Units				
pH Max		pH		6.0 - 9.0	N/A	Monthly
pH Min		pH		6.0 - 9.0	N/A	Monthly
Suspended Solids Max		mg/l		100	30	Monthly
Suspended Solids Min		mg/l		100	30	Monthly
Oil & Grease Max		mg/l		20	15	Monthly
Oil & Grease Min		mg/l		20	15	Monthly
Daily Flow MAX		GPD		N/A	N/A	Monthly
Copper, Total Max		mg/l		1	1	Monthly
Copper, Total Min		mg/l		1	1	Monthly
Iron, Total		mg/l		1	1	Monthly

F) NON-CHEMICAL METAL CLEANING WASTES				Concentration Limit (Daily Max.)	30 Day Avg Limit	Frequency of Analysis
**There were no metal cleaning wastes discharged during this time period.						
Constituent & Date of Sample	Concentration	Units				
pH Max		pH		6.0 - 9.0	N/A	Monthly
pH Min		pH		6.0 - 9.0	N/A	Monthly
Suspended Solids Max		mg/l		100	30	Monthly
Suspended Solids Min		mg/l		100	30	Monthly
Oil & Grease Max		mg/l		20	15	Monthly
Oil & Grease Min		mg/l		20	15	Monthly
Daily Flow MAX		GPD		N/A	N/A	Monthly
Copper, Total Max		mg/l		1	1	Monthly
Copper, Total Min		mg/l		1	1	Monthly
Iron, Total		mg/l		1	1	Monthly

G) HAZARDOUS WASTE

Type	Quantity	Date	Manifest #	Location
There were no hazardous waste manifests for January 2010				

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H) BIOASSAY											
Discharge Point #001											
Constituent	Maximum Concentration							Units	Limit (Daily Max.)	Day Avg 4th Qtr	Frequency of Analysis
	1st Qtr	2nd Qtr	2nd Qtr	3rd Qtr		4th Qtr					
Date	2/10/09	5/4/09	6/8/09	8/3/09	8/3/09	11/02/09	12/30/09				
Chronic Kelp Bioassay	8.0	16.0	1.0	1.0	1.00	16.0	1.0	Tuc	N/A		Quarterly
Chronic Kelp Germination and Growth Bioassay	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Tuc	N/A		Quarterly
Chronic Kelp Germ Tube Length											
Chronic Abalone Bioassay								Tuc	N/A		Quarterly
Chronic Abalone Larval Development Bioassay (Tuc)		N/A									
Cultured Abalone								Tuc	N/A		Quarterly
Larval Development (Tuc)								Tuc	N/A		Quarterly
Chlorination											
Chronic Silversides Assay								Tuc	N/A		Quarterly
Chronic Silversides Larval Survival Bioassay								Tuc	N/A		Quarterly
Chronic Silversides Growth Bioassay											
Chronic Topsmelt Assay								Tuc	N/A		Quarterly
Chronic Topsmelt Larval Survival Bioassay		1.0						Tuc	N/A		Quarterly
Chronic Topsmelt Growth Bioassay		1.0									
Chronic Sea Urchin Larval Development Assay			1.0					Tuc	N/A		Quarterly
Chronic Sea Urchin Larval Development Bioassay			1.0								
Discharge Point #002											
Constituent	Maximum Concentration							Units	Limit (Daily Max.)		Frequency of Analysis
	1st Qtr	2nd Qtr	2nd Qtr	3rd Qtr		4th Qtr					
Date	2/10/09	5/4/09	6/8/09	8/3/09	8/3/09	11/02/09					
Chronic Kelp Bioassay		16.0	1.0	1.0	1.0	16.0		Tuc	N/A		Quarterly
Chronic Kelp Germination Bioassay		4.0	1.0	1.0	1.0	1.0		Tuc	N/A		Quarterly
Chronic Kelp Tube Length											
Chronic Abalone Bioassay								Tuc	N/A		Quarterly
Chronic Abalone Larval Development Bioassay (Tuc)	4.0										
Cultured Abalone								Tuc	N/A		Quarterly
Larval Development (Tuc)								Tuc	N/A		Quarterly
Chlorination											
Chronic Silversides Assay								Tuc	N/A		Quarterly
Chronic Silversides Larval Survival Bioassay								Tuc	N/A		Quarterly
Chronic Silversides Growth Bioassay											
Chronic Topsmelt Assay								Tuc	N/A		Quarterly
Chronic Topsmelt Larval Survival Bioassay		1.0						Tuc	N/A		Quarterly
Chronic Topsmelt Growth Bioassay		1.0									
Chronic Sea Urchin Larval Development Bioassay			1.0					Tuc	N/A		Quarterly
Chronic Sea Urchin Larval Development Bioassay			1.0								
Receiving Water											
Constituent	Concentration							Units	Limit (Daily Max.)		Frequency of Analysis
	1st Qtr	2nd Qtr		3rd Qtr		4th Qtr					
Date	2/10/09	5/4/09	6/8/09	8/3/09		11/02/09	12/30/09				
Chronic Abalone Larval Development Bioassay	1.00	16.0						Tuc	N/A		Quarterly
Chronic Kelp Larval Development Bioassay								Tuc	N/A		Quarterly
Chronic Silversides Larval Survival Bioassay								Tuc	N/A		Quarterly
Chronic Silversides Growth Bioassay											
Chronic Kelp Germination Bioassay		16.0	1.0	1.0		16.0	1.0	Tuc	N/A		Quarterly
Chronic Kelp Growth Bioassay		1.0	1.0	1.0		1.0	1.0	Tuc	N/A		Quarterly
Chronic Topsmelt Larval Survival Bioassay		1.0						Tuc	N/A		Quarterly
Chronic Topsmelt Growth Bioassay		1.0						Tuc	N/A		Quarterly
Chronic Sea Urchin Larval Development Bioassay			1.0					Tuc	N/A		Quarterly
Chronic Sea Urchin Larval Development Bioassay			1.0					Tuc	N/A		Quarterly

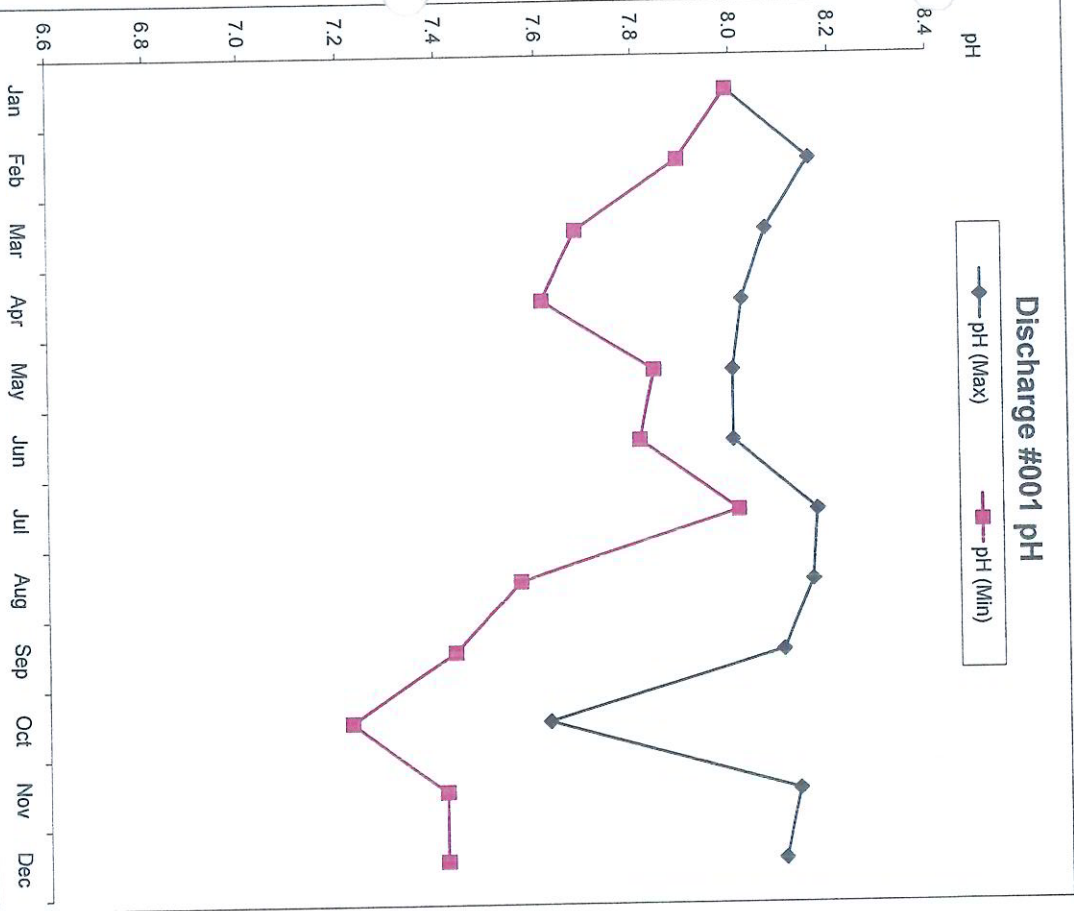
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H) BIOASSAY											
Discharge Point #001											
Constituent	Maximum Concentration					Units	Limit (Daily Max.)	Day Avg 4th Qtr	Frequency of Analysis		
	1st Qtr	2nd Qtr	2nd Qtr	3rd Qtr	4th Qtr						
Date	1/7/10										
Chronic Kelp Bioassay						Tuc	N/A			Quarterly	
Chronic Kelp Germination and Growth Bioassay	1.0					Tuc	N/A			Quarterly	
Chronic Kelp Germ Tube Length	1.0										
Chronic Abalone Bioassay						Tuc	N/A			Quarterly	
Chronic Abalone Larval Development Bioassay (Tuc)											
Cultured Abalone						Tuc	N/A			Quarterly	
Larval Development (Tuc)						Tuc				Quarterly	
Chlorination											
Chronic Silversides Assay						Tuc	N/A			Quarterly	
Chronic Silversides Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Silversides Growth Bioassay											
Chronic Topsmelt Assay						Tuc	N/A			Quarterly	
Chronic Topsmelt Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Topsmelt Growth Bioassay											
Chronic Sea Urchin Larval Development Assay						Tuc	N/A			Quarterly	
Chronic Sea Urchin Larval Development Bioassay											
Discharge Point #002											
Constituent	Maximum Concentration					Units	Limit (Daily Max.)	Day Avg 4th Qtr	Frequency of Analysis		
	1st Qtr	2nd Qtr	2nd Qtr	3rd Qtr	4th Qtr						
Date											
Chronic Kelp Bioassay						Tuc	N/A			Quarterly	
Chronic Kelp Germination Bioassay						Tuc	N/A			Quarterly	
Chronic Kelp Tube Length											
Chronic Abalone Bioassay						Tuc	N/A			Quarterly	
Chronic Abalone Larval Development Bioassay (Tuc)											
Cultured Abalone						Tuc	N/A			Quarterly	
Larval Development (Tuc)						Tuc	N/A			Quarterly	
Chlorination											
Chronic Silversides Assay						Tuc	N/A			Quarterly	
Chronic Silversides Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Silversides Growth Bioassay											
Chronic Topsmelt Assay						Tuc	N/A			Quarterly	
Chronic Topsmelt Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Topsmelt Growth Bioassay											
Chronic Sea Urchin Larval Development Bioassay						Tuc	N/A			Quarterly	
Chronic Sea Urchin Larval Development Bioassay											
Receiving Water											
Constituent	Concentration					Units	Limit (Daily Max.)	Day Avg 4th Qtr	Frequency of Analysis		
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	4th Qtr						
Date	1/7/10										
Chronic Abalone Larval Development Bioassay						Tuc	N/A			Quarterly	
Chronic Kelp Larval Development Bioassay						Tuc	N/A			Quarterly	
Chronic Silversides Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Silversides Growth Bioassay						Tuc	N/A			Quarterly	
Chronic Kelp Germination Bioassay	1.0					Tuc	N/A			Quarterly	
Chronic Kelp Growth Bioassay	1.0					Tuc	N/A			Quarterly	
Chronic Topsmelt Larval Survival Bioassay						Tuc	N/A			Quarterly	
Chronic Topsmelt Growth Bioassay											
Chronic Sea Urchin Larval Development Bioassay						Tuc	N/A			Quarterly	
Chronic Sea Urchin Larval Development Bioassay						Tuc	N/A			Quarterly	

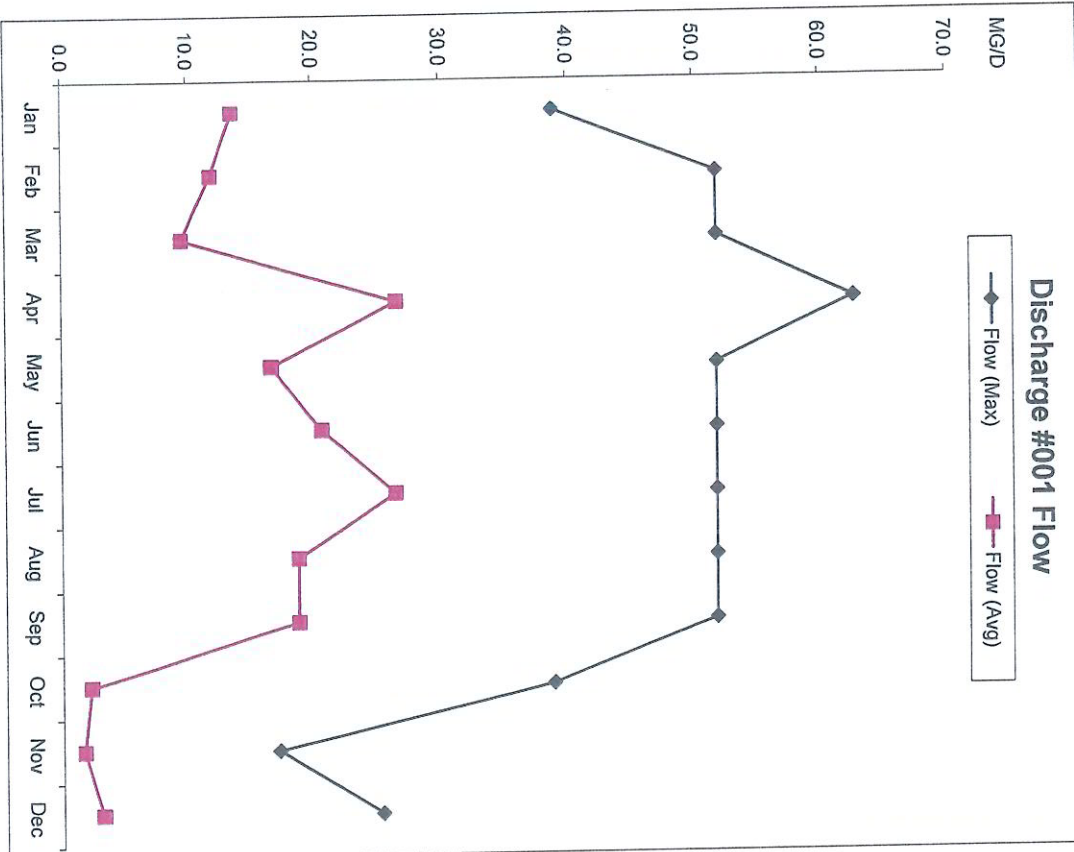
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH (Max)	8.0	8.2	8.1	8.0	8.0	8.0	8.2	8.2	8.1	7.6	8.1	8.1
pH (Min)	8.0	7.9	7.7	7.6	7.8	7.8	8.0	7.6	7.4	7.2	7.4	7.4
Flow (Max)	38.9	51.8	51.8	62.6	51.8	51.8	51.8	51.8	51.8	38.9	17.3	25.4
Flow (Avg)	13.7	12.0	9.5	26.6	16.8	20.7	26.5	18.9	18.9	2.3	1.7	3.2

Discharge #001 pH

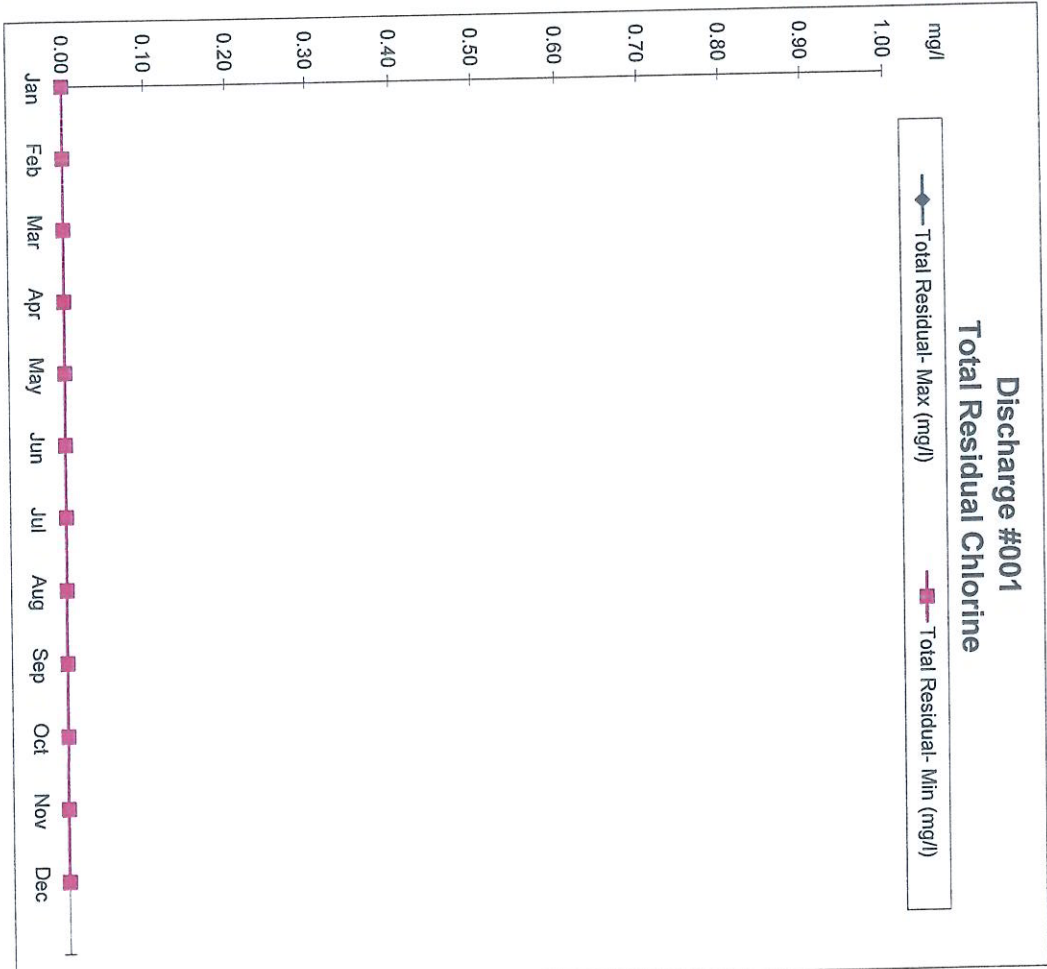
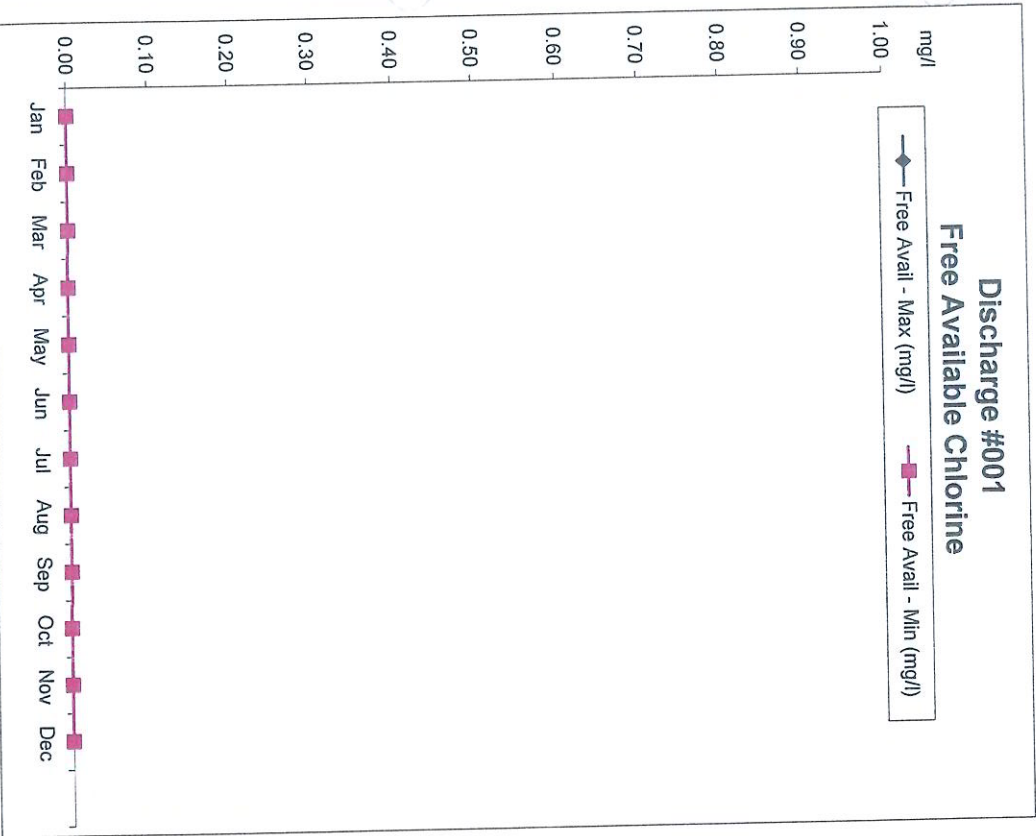


Discharge #001 Flow



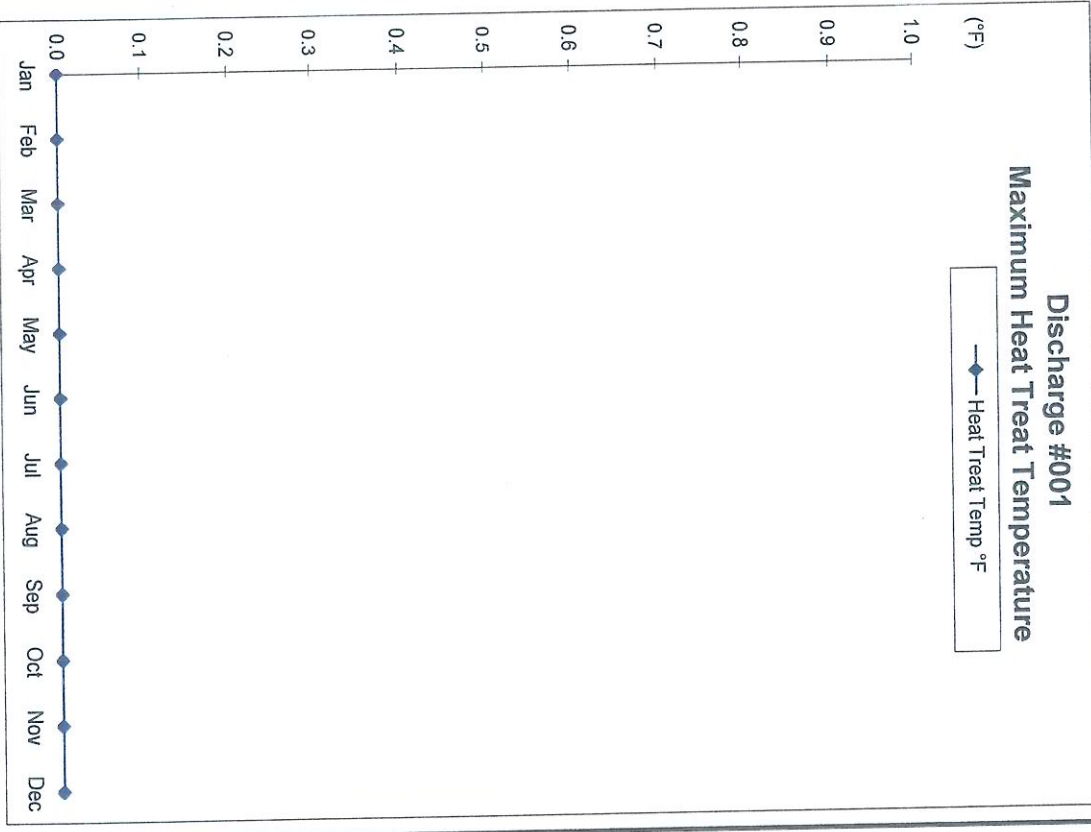
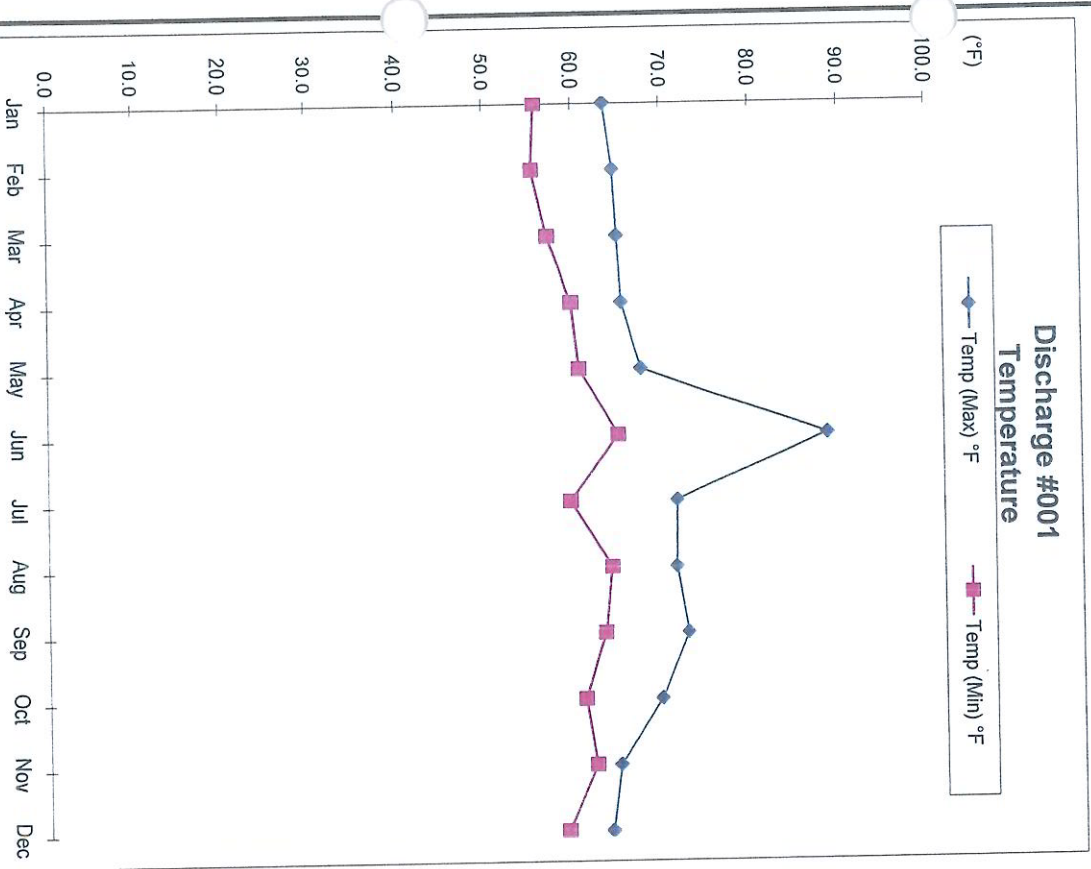
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Effluent Discharge No. 001 Chlorine	2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Free Avail - Max (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Free Avail - Min (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Residual- Max (mg/l)	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Residual- Min (mg/l)	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



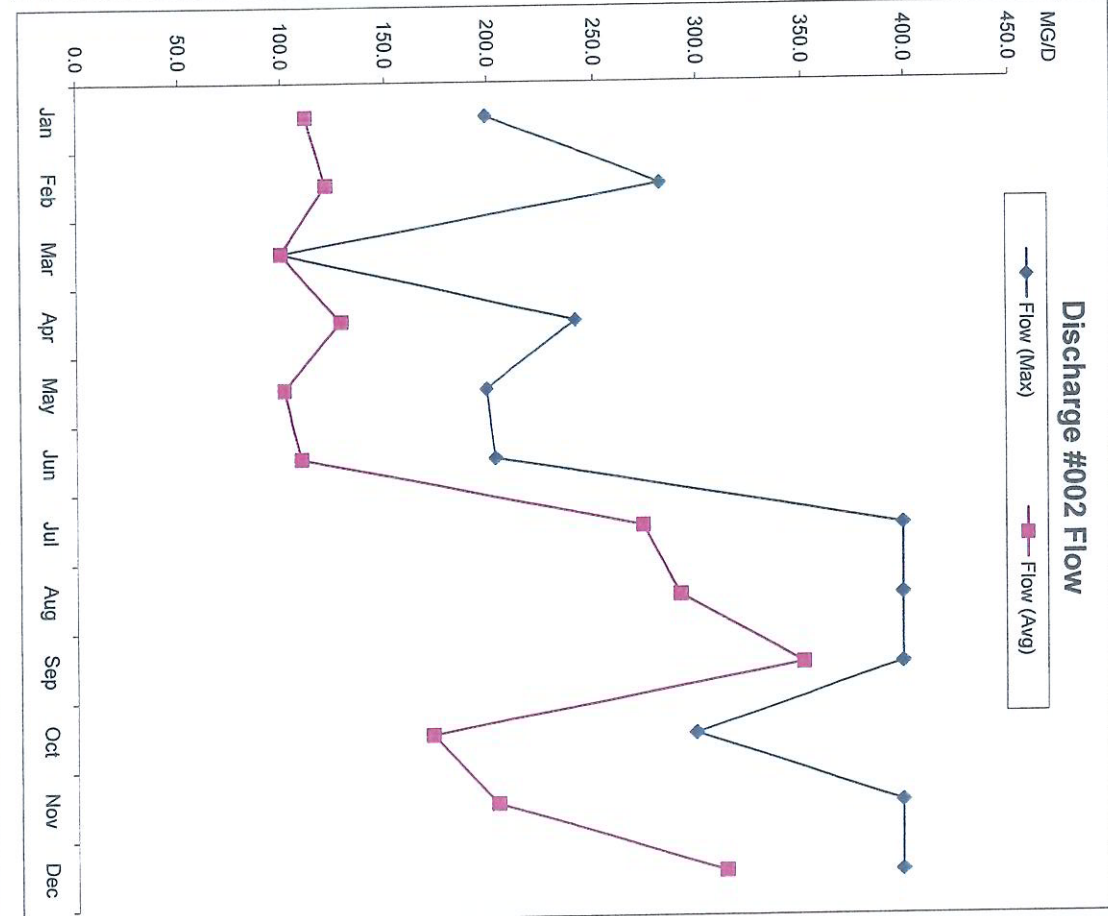
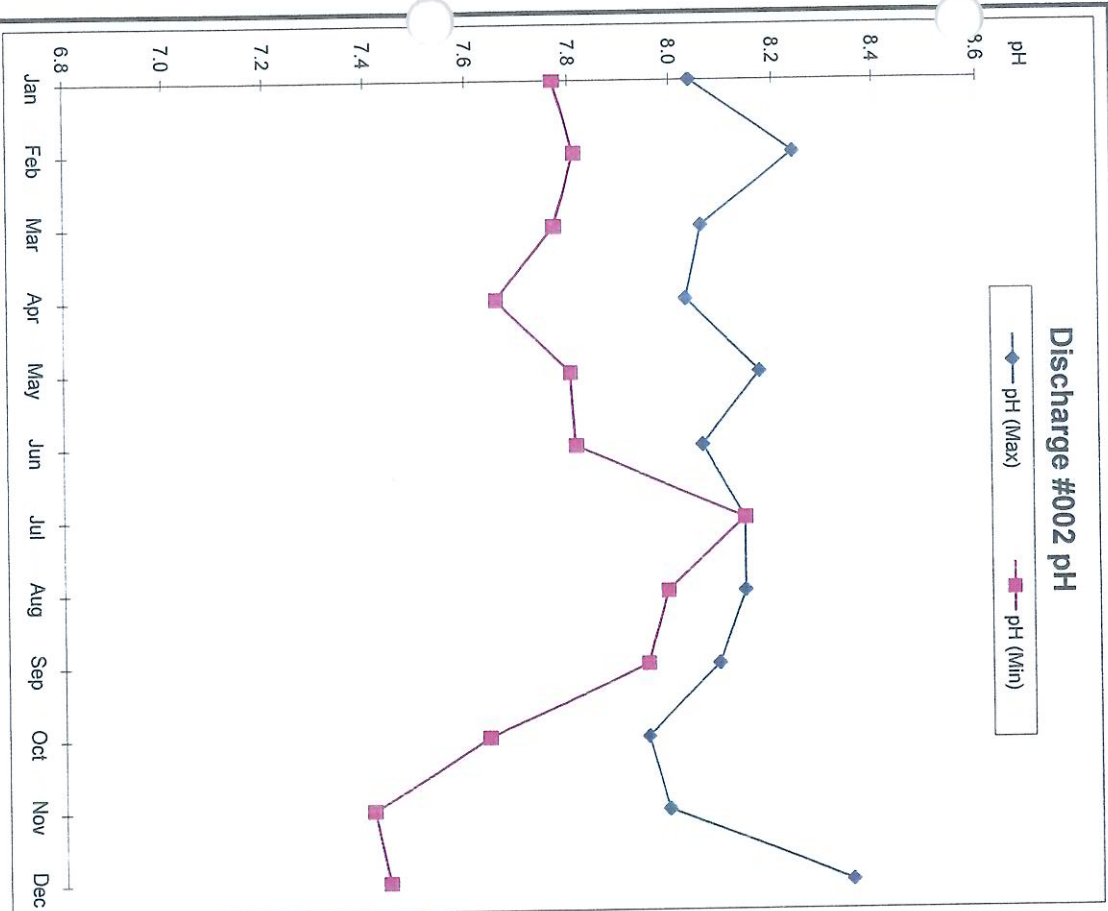
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Effluent Discharge No. 001	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Circ. Water Discharge												
Temp (Max) °F	63.5	64.5	64.9	65.3	67.5	88.6	71.7	71.6	72.9	69.7	64.7	63.8
Temp (Min) °F	56.0	55.6	57.2	59.8	60.6	64.8	59.5	63.9	63.2	60.9	62.0	58.9
Heat Treat Temp °F	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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Effluent Discharge No. 002												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH (Max)	8.0	8.2	8.1	8.0	8.2	8.1	8.1	8.1	8.1	8.0	8.0	8.4
pH (Min)	7.8	7.8	7.8	7.7	7.8	7.8	8.1	8.0	8.0	7.6	7.4	7.4
Flow (Max)	199.3	282.3	99.6	240.8	199.3	203.4	398.6	398.6	398.6	298.9	398.6	398.6
Flow (Avg)	112.4	122.0	99.5	129.0	101.1	109.6	273.1	291.6	350.2	171.6	204.4	313.3

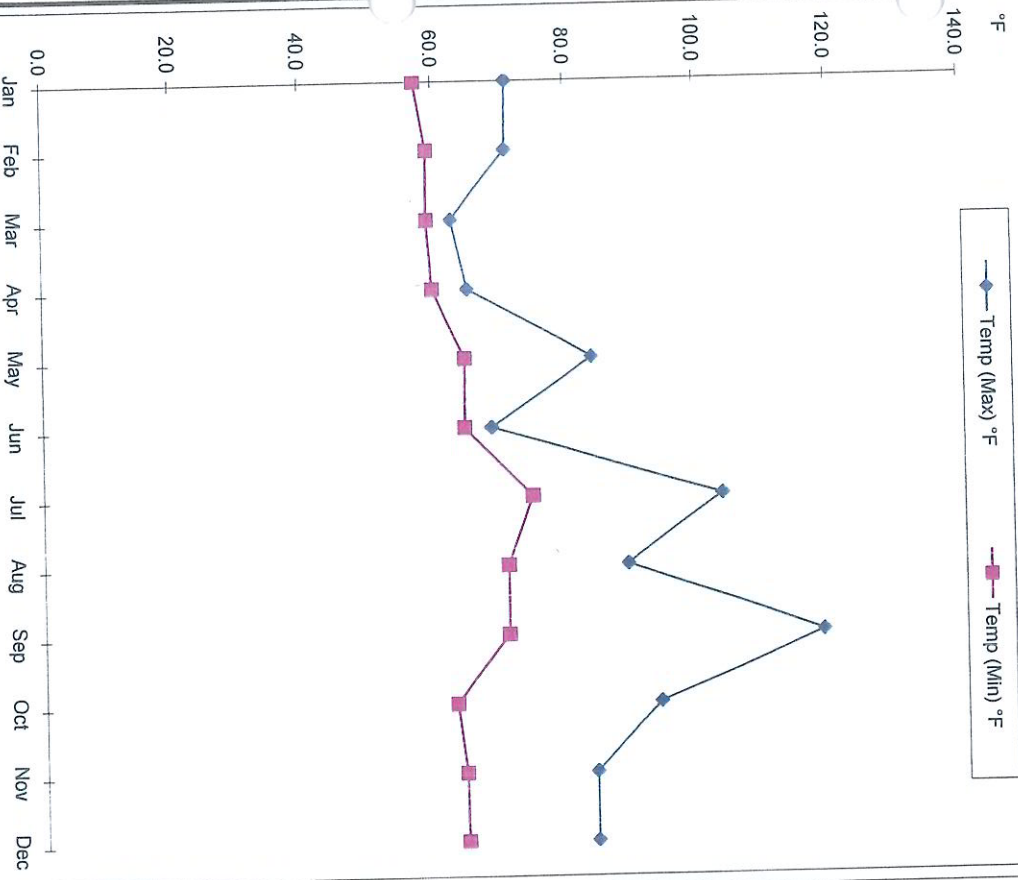




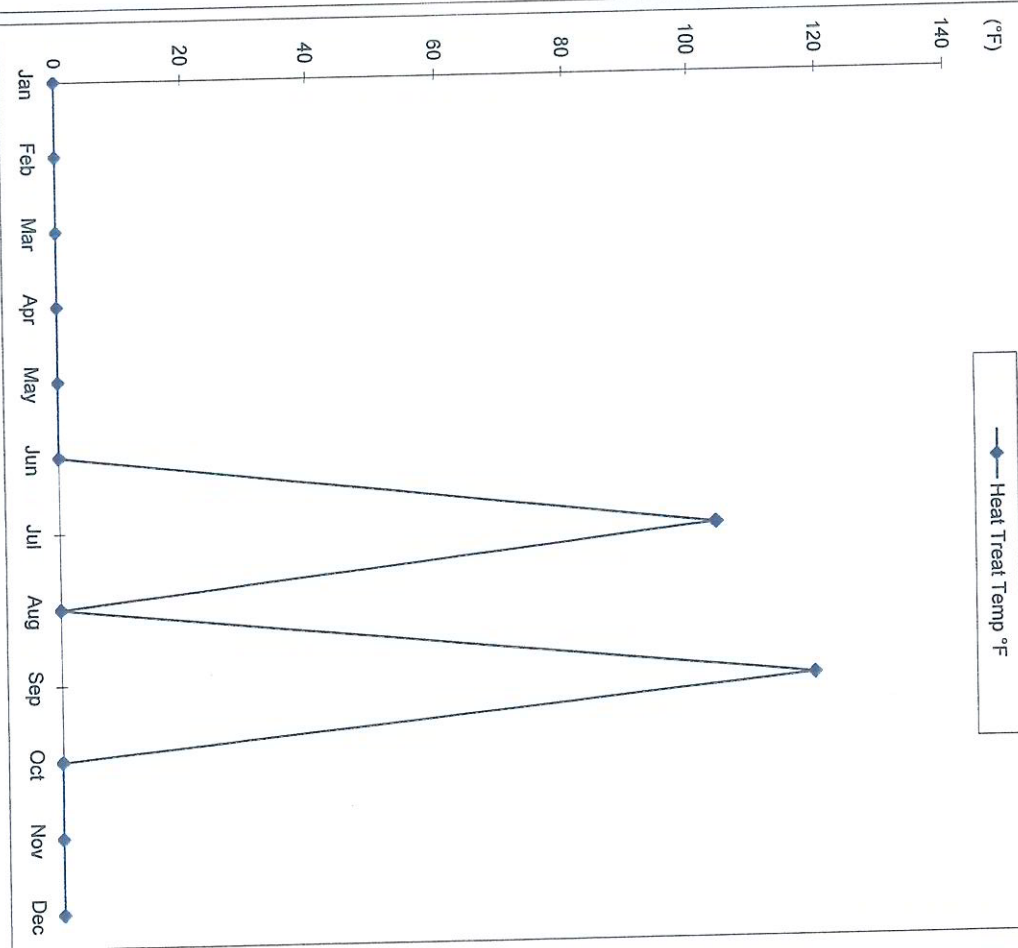
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Effluent Discharge No. 002												
Circ. Water Discharge	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (Max) °F	71.4	71.2	63.0	65.3	83.9	68.7	103.4	89.3	118.9	94.0	84.0	84.0
Temp (Min) °F	57.2	59.1	59.0	59.8	64.8	64.6	74.5	70.8	70.8	62.9	64.2	64.3
Heat Treat Temp °F	0	0	0	0	0	0	103.4	0	118.9	0	0	0

**Discharge #002 Temperature**



**Discharge #002  
Maximum Heat Treat Temperature**



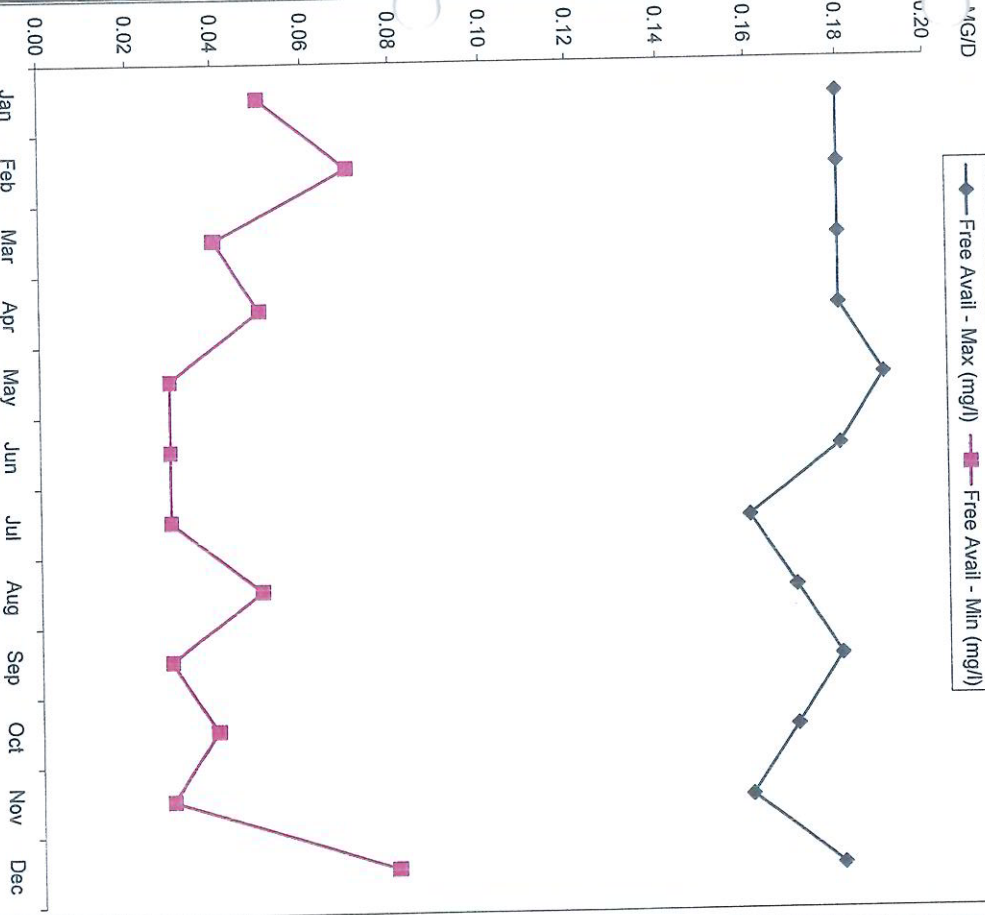
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Effluent Discharge No. 002

Chlorine	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Free Avail - Max (mg/l)	0.18	0.18	0.18	0.18	0.19	0.18	0.16	0.17	0.18	0.17	0.16	0.18
Free Avail - Min (mg/l)	0.05	0.07	0.04	0.05	0.03	0.03	0.03	0.05	0.03	0.04	0.03	0.08
Total Residual- Max (mg/l)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.20
Total Residual- Min (mg/l)	0.08	0.08	0.05	0.07	0.03	0.03	0.03	0.03	0.03	0.07	0.04	0.11

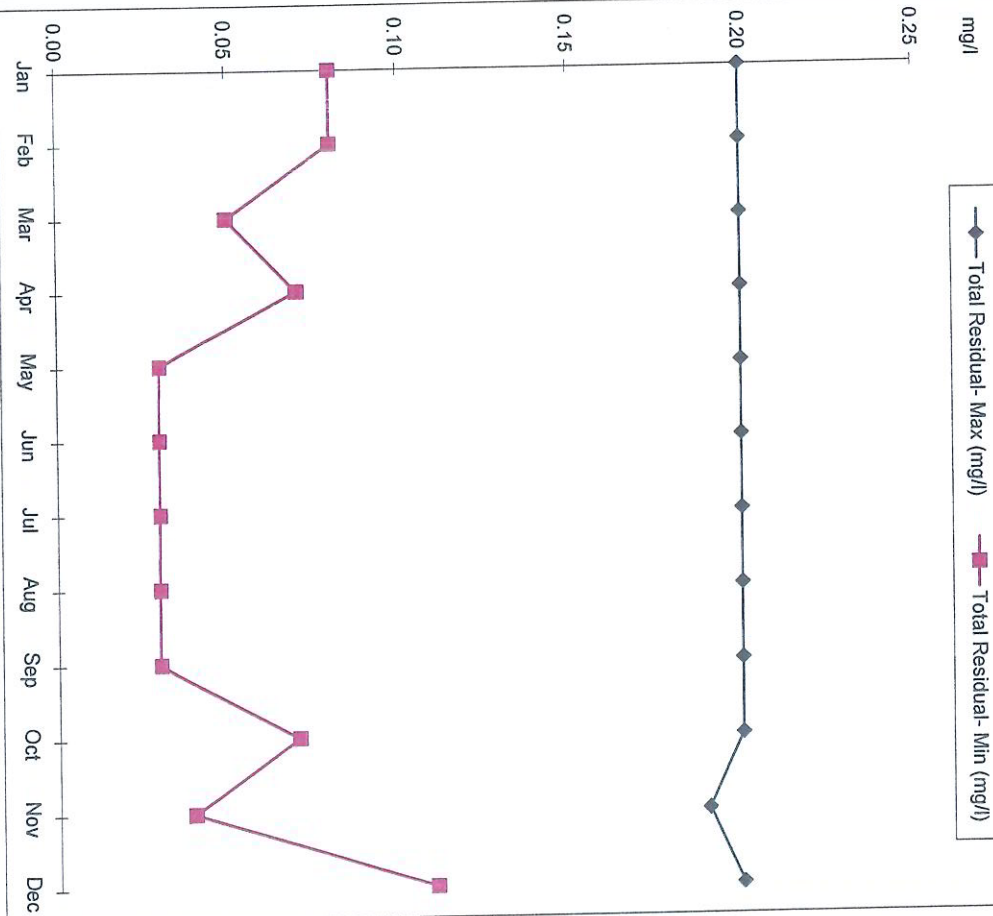
Discharge #002

Free Available Chlorine



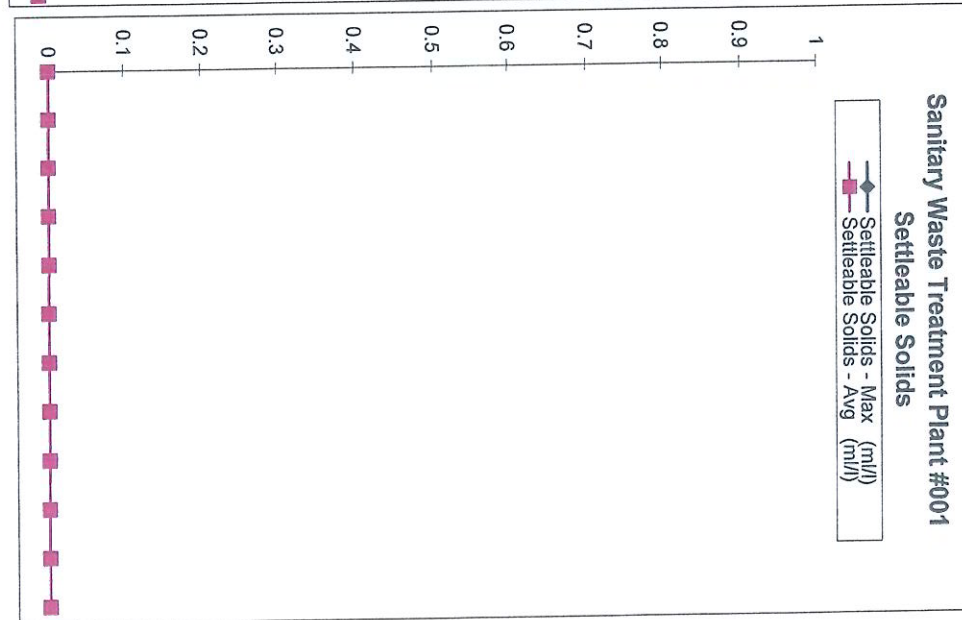
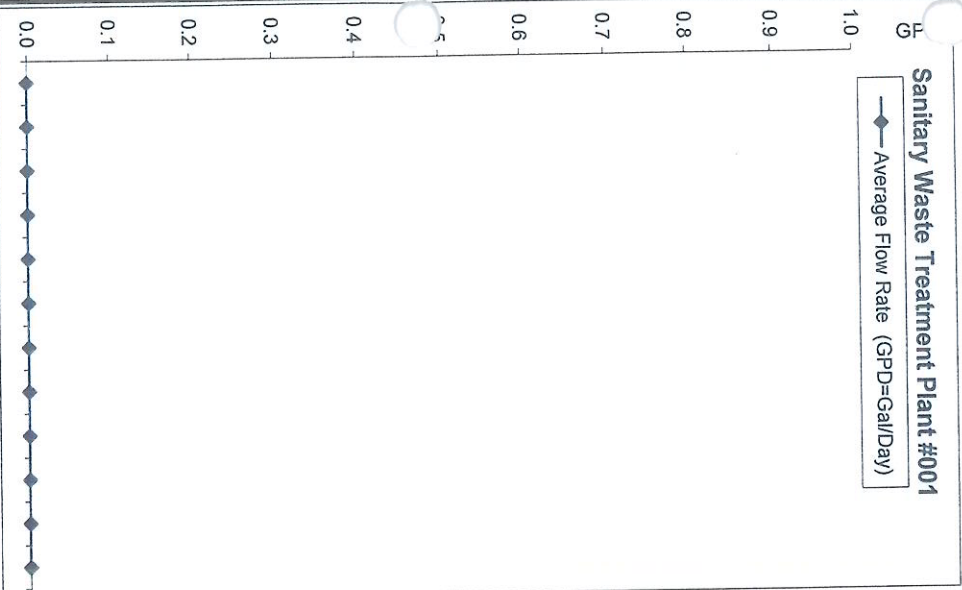
Discharge #002

Total Residual Chlorine



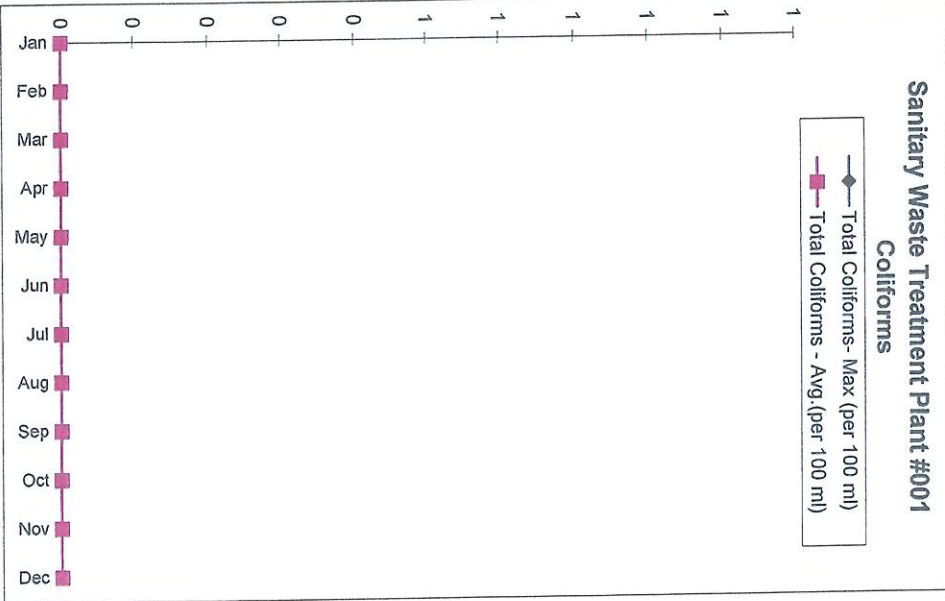
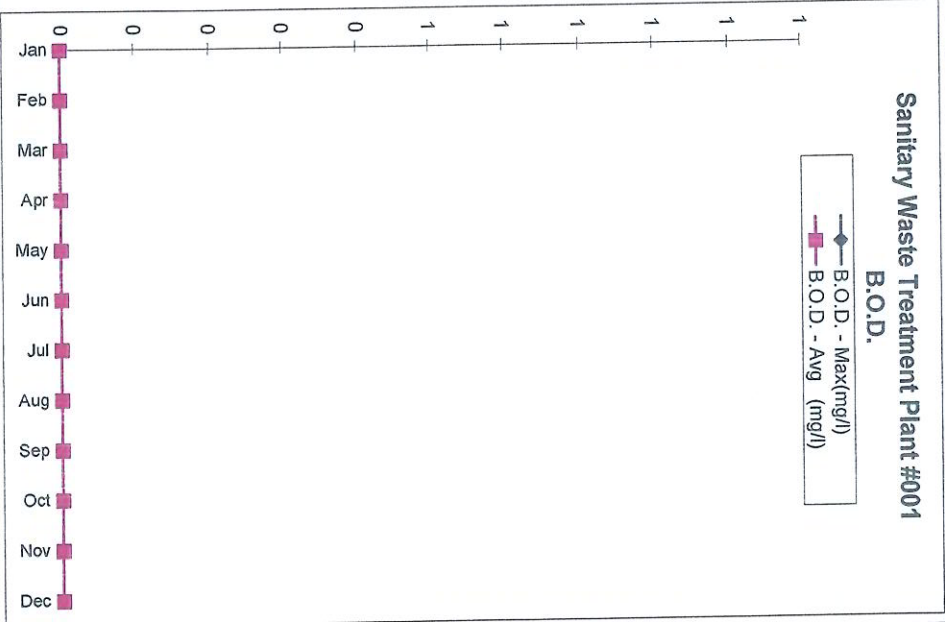
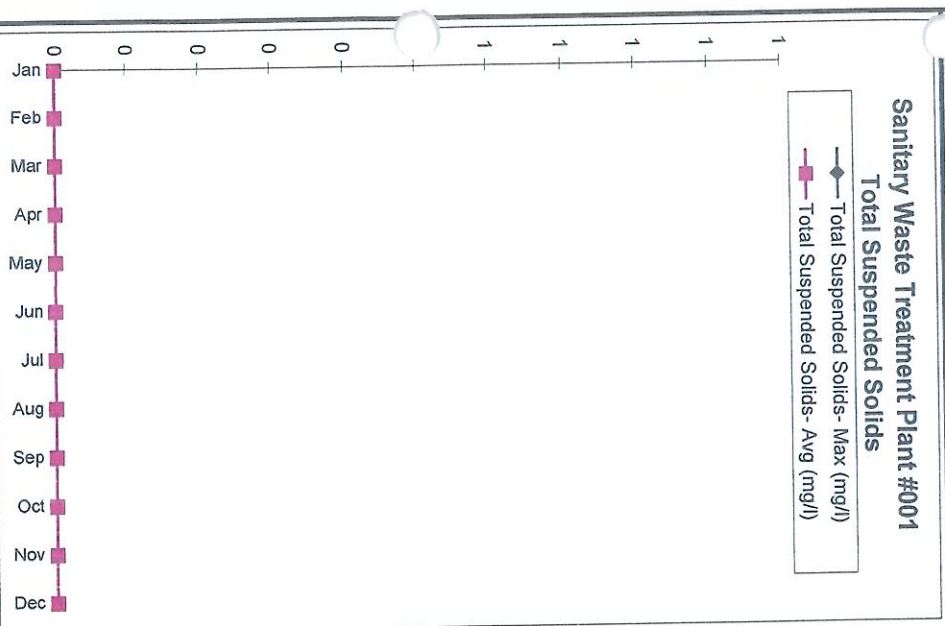
**EL SEGUNDO POWER, LLC**  
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Treatment Plant No. 1	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sanitary Wastes												
Average Flow Rate (GPD=Gal/Day)	0	0	0	0	0	0	0	0	0	0	0	0
Oil and Grease - Max (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
Oil and Grease - Avg (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
Settleable Solids - Max (ml/l)	0	0	0	0	0	0	0	0	0	0	0	0
Settleable Solids - Avg (ml/l)	0	0	0	0	0	0	0	0	0	0	0	0



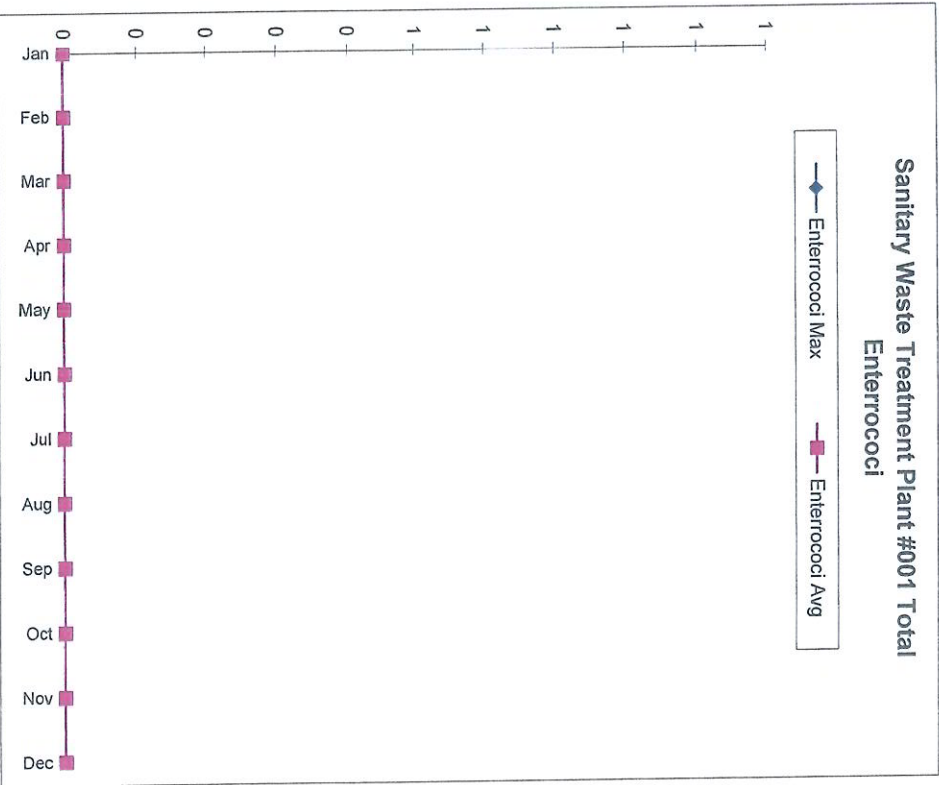
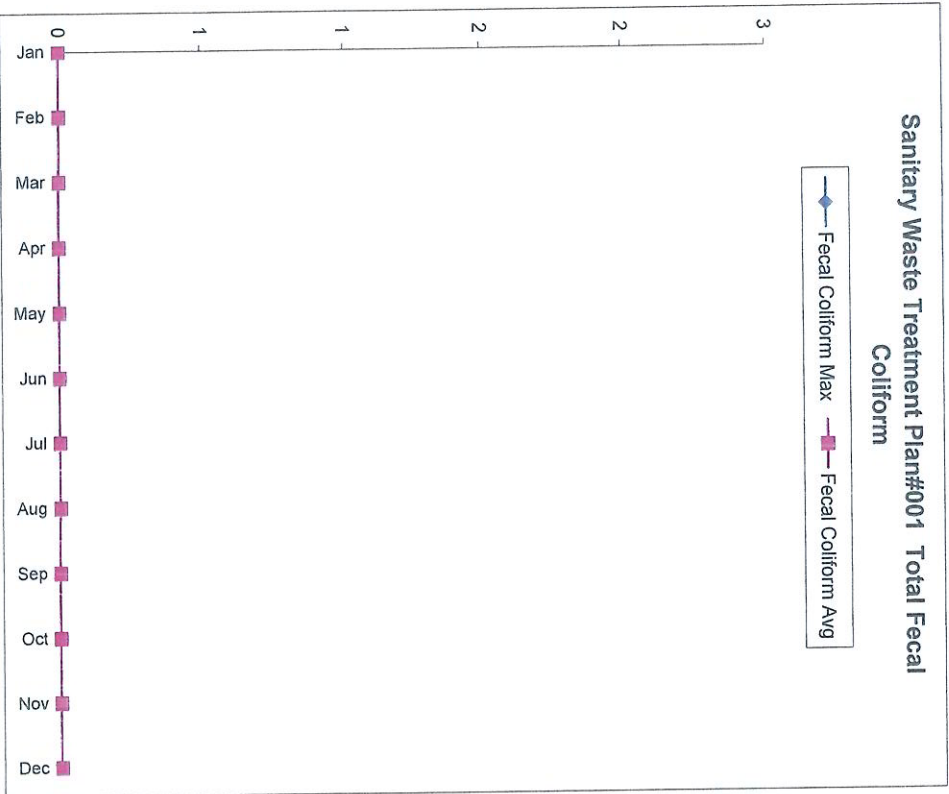
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Treatment Plant No. 1 Sanitary Wastes	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Suspended Solids- Max (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
Total Suspended Solids- Avg (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
B.O.D. - Max(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
B.O.D. - Avg (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
Total Coliforms- Max (per 100 ml)	0	0	0	0	0	0	0	0	0	0	0	0
Total Coliforms - Avg.(per 100 ml)	0	0	0	0	0	0	0	0	0	0	0	0



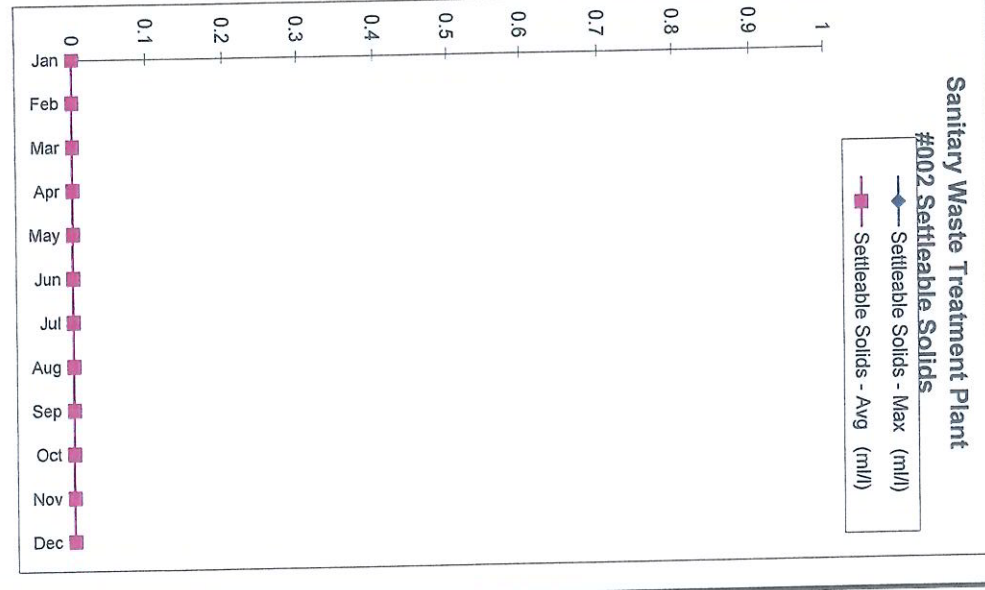
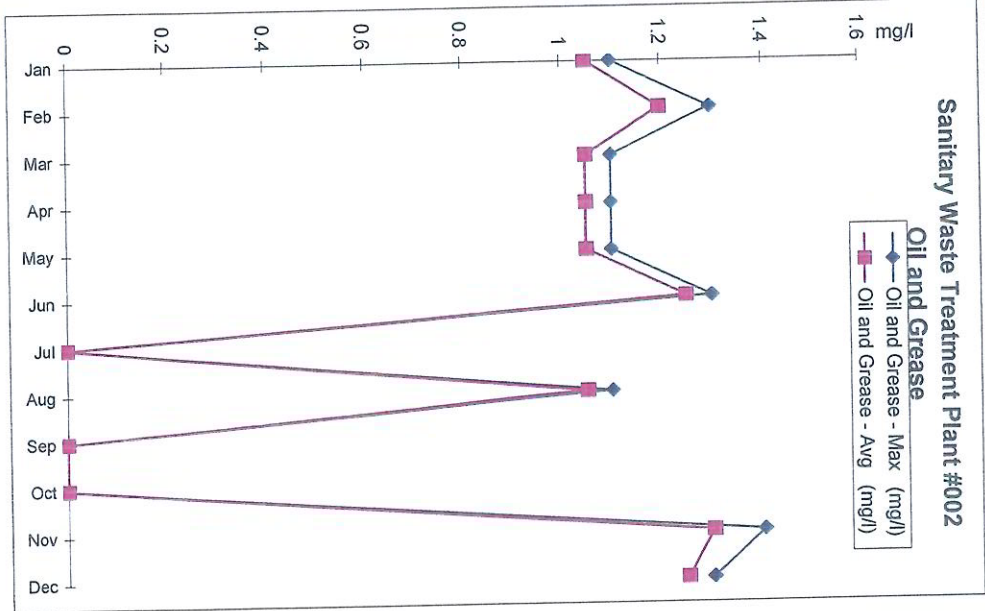
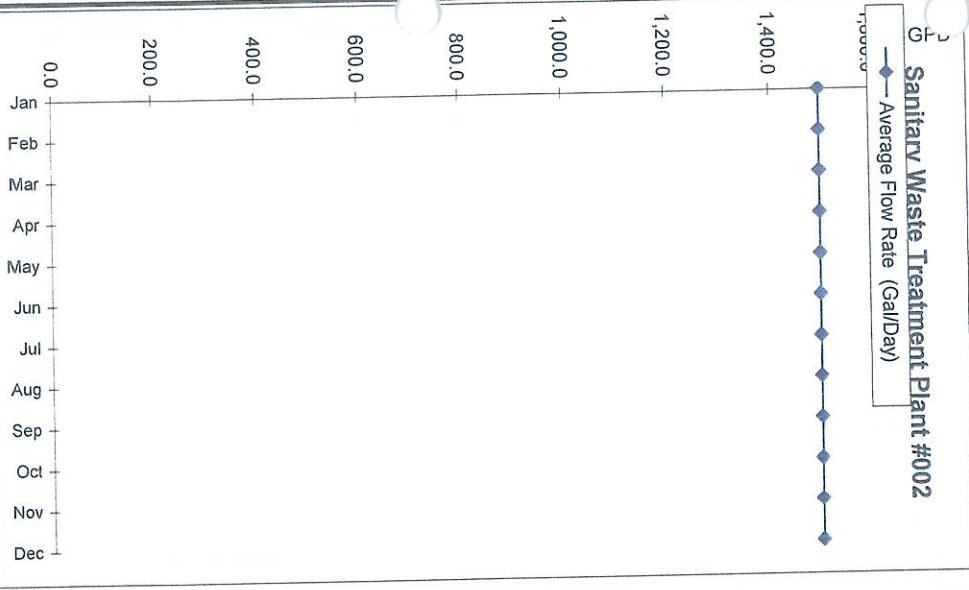
**EL SEGUNDO POWER, LLC  
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Treatment Plant No. 1	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Sanitary Wastes</b>												
Fecal Coliform Max	0	0.0	0	0	0	0	0	0	0	0	0	0
Fecal Coliform Avg	0	0.0	0	0	0	0	0	0	0	0	0	0
Enterrococi Max	0	0.0	0	0	0	0	0	0	0	0	0	0
Enterrococi Avg	0	0.0	0	0	0	0	0	0	0	0	0	0



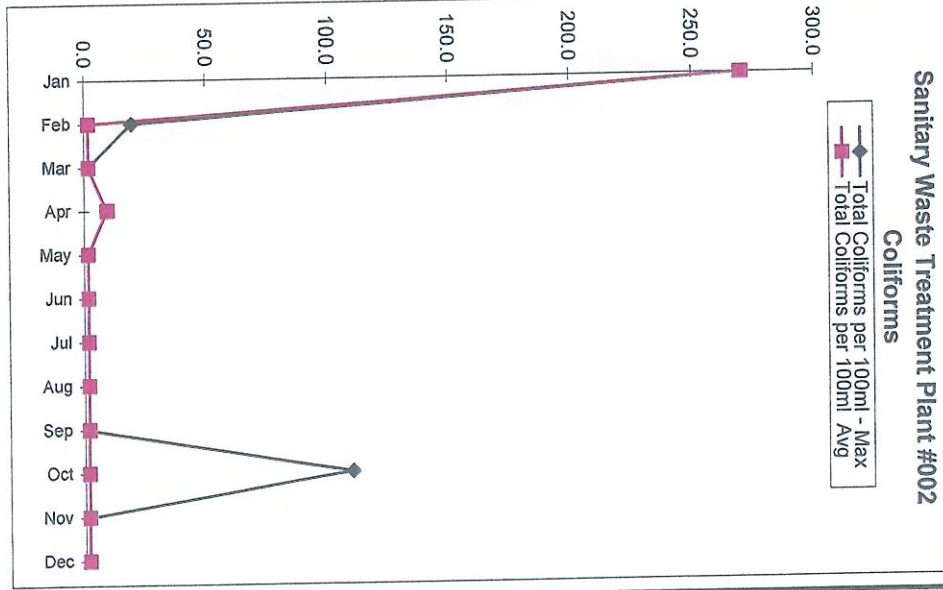
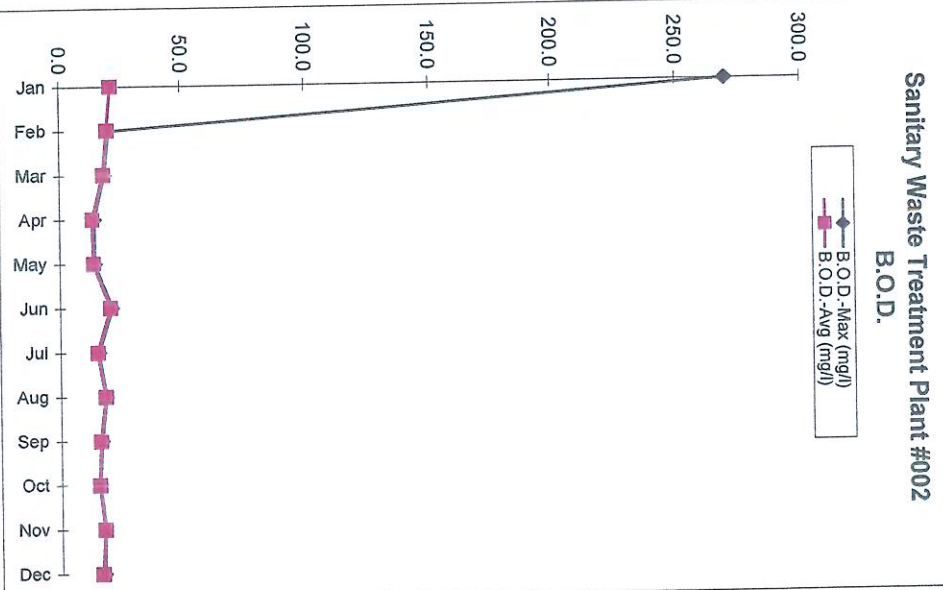
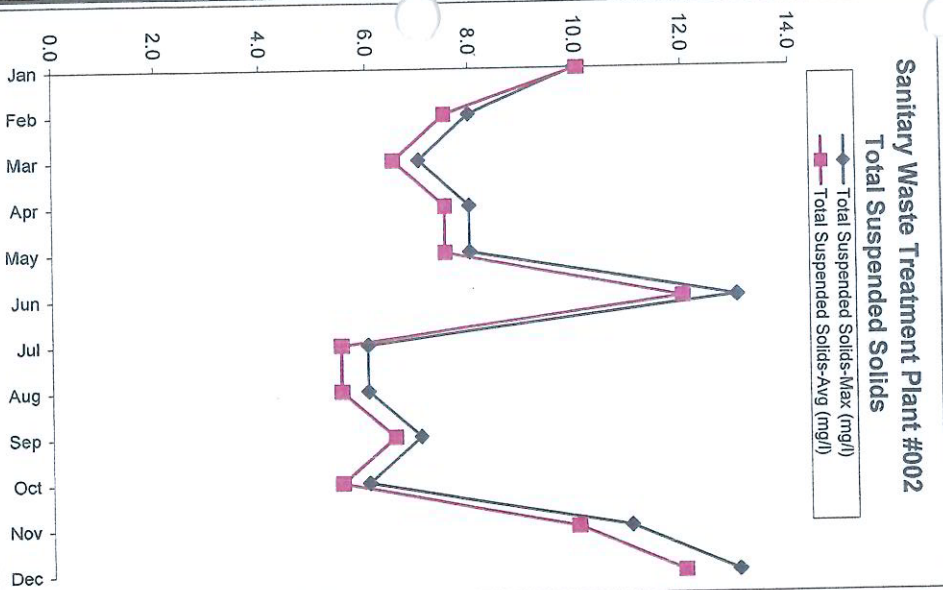
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Treatment Plant No. 2												
Sanitary Wastes												
Average Flow Rate (Gal/Day)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average Flow Rate (Gal/Day)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Oil and Grease - Max (mg/l)	1.1	1.3	1.1	1.1	1.1	1.3	ND	1.1	ND	1.4	1.3	1.3
Oil and Grease - Avg (mg/l)	1.05	1.2	1.05	1.05	1.05	1.25	ND	1.05	ND	1.3	1.25	1.25
Settleable Solids - Max (m/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Settleable Solids - Avg (m/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



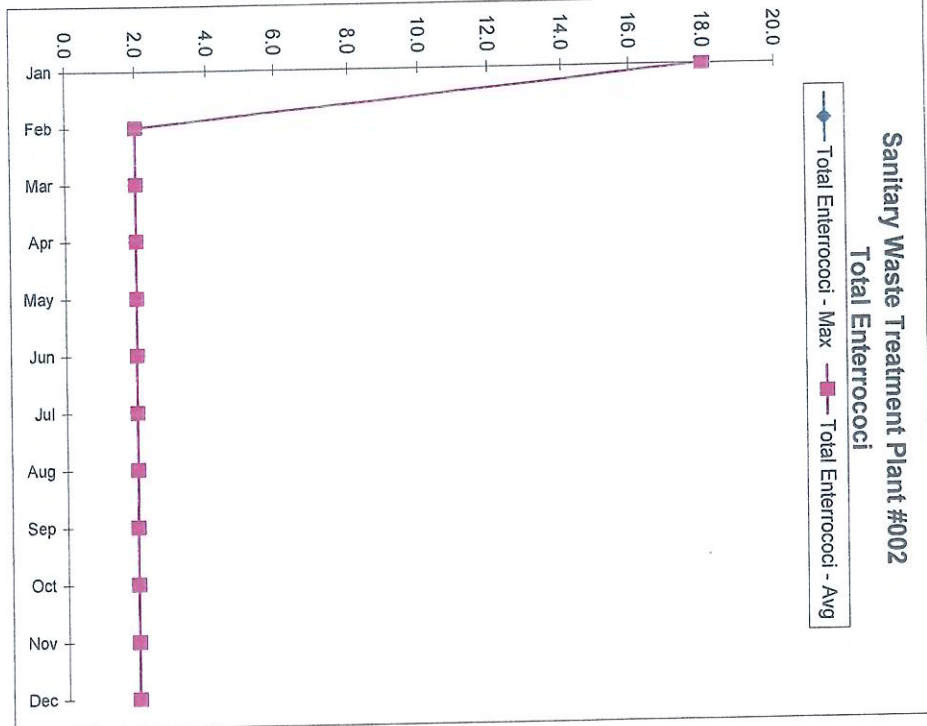
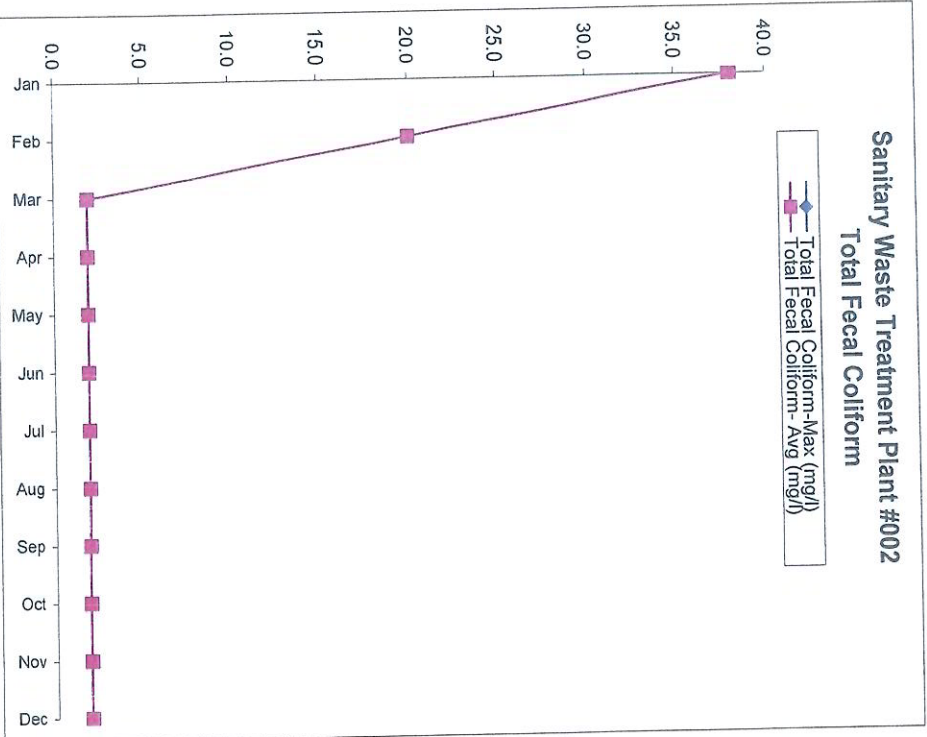
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Treatment Plant No. 2												
Sanitary Wastes												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Suspended Solids-Max (mg/l)	10.0	8.0	7.0	8.0	8.0	13.0	6.0	6.0	7.0	6.0	11.0	13.0
Total Suspended Solids-Avg (mg/l)	10.1	7.5	6.5	7.5	7.5	12.0	5.5	5.5	6.5	5.5	10.0	12.0
B.O.D.-Max (mg/l)												
	270.0	21.0	19.2	15.0	15.1	22.0	16.4	19.3	17.4	16.4	18.4	17.9
B.O.D.-Avg (mg/l)												
	21.9	20.4	18.6	14.0	14.4	21.3	15.8	18.9	16.8	16.1	18.1	17.2
Total Coliforms per 100ml - Max												
	270.0	20.0	2.0	10.0	2.0	2.0	2.0	2.0	2.0	110.0	2.0	2.0
Total Coliforms per 100ml Avg												
	270.0	2.0	2.0	10.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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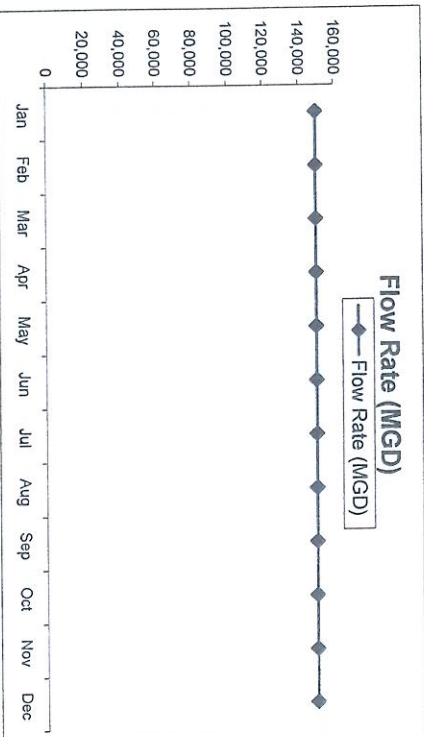
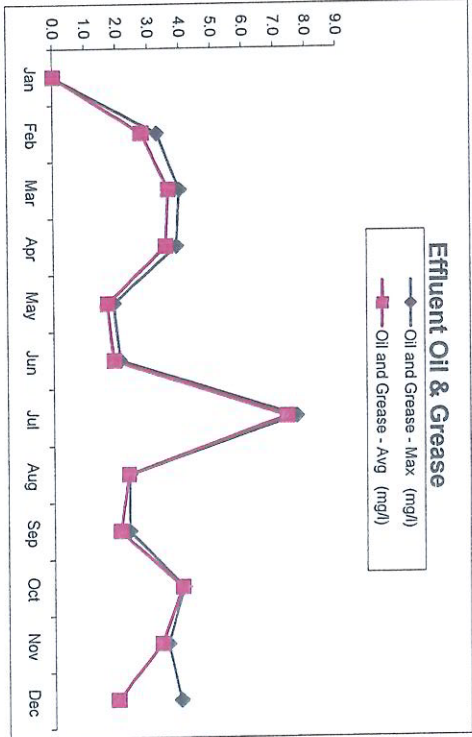
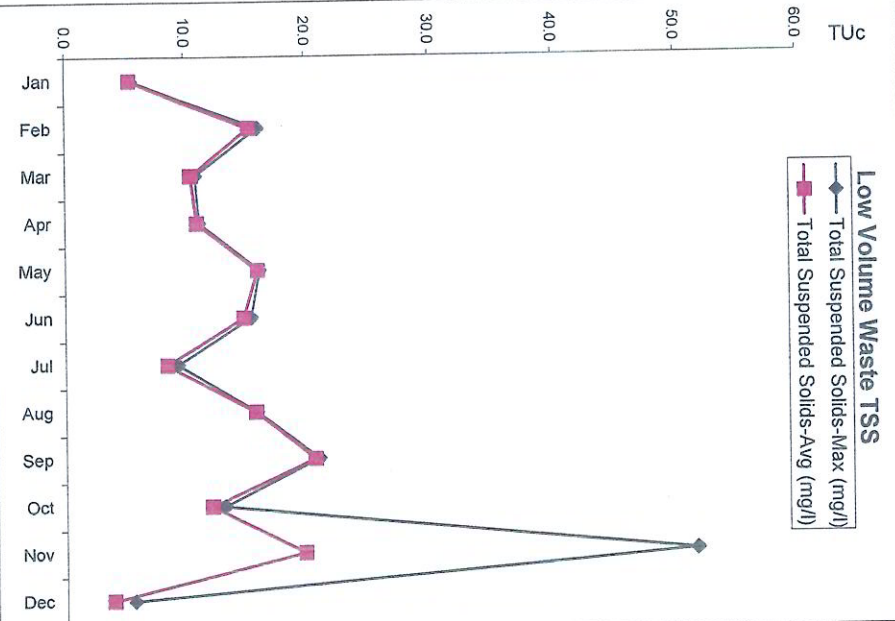
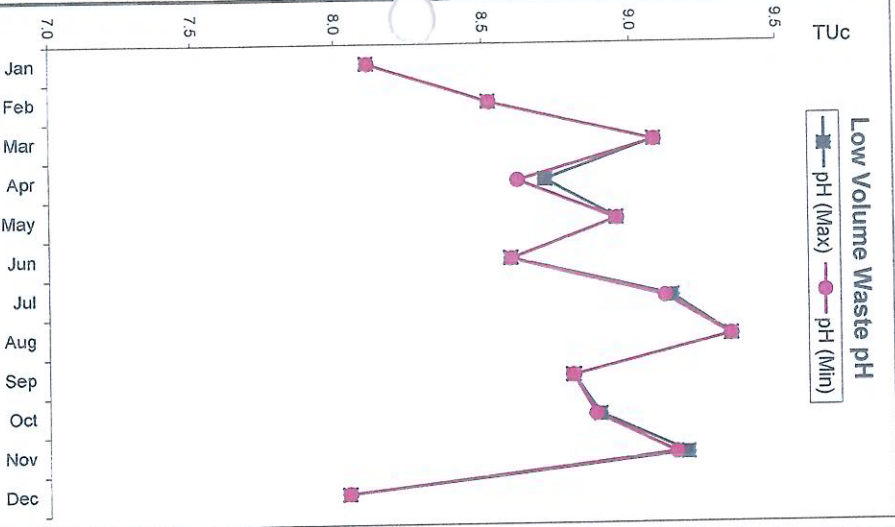
Treatment Plant No. 2												
Sanitary Wastes												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Fecal Coliform-Max (mg/l)	38.0	20.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Total Fecal Coliform- Avg (mg/l)	38.0	20.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Total Enterrococi - Max												
Total Enterrococi - Avg	18.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0





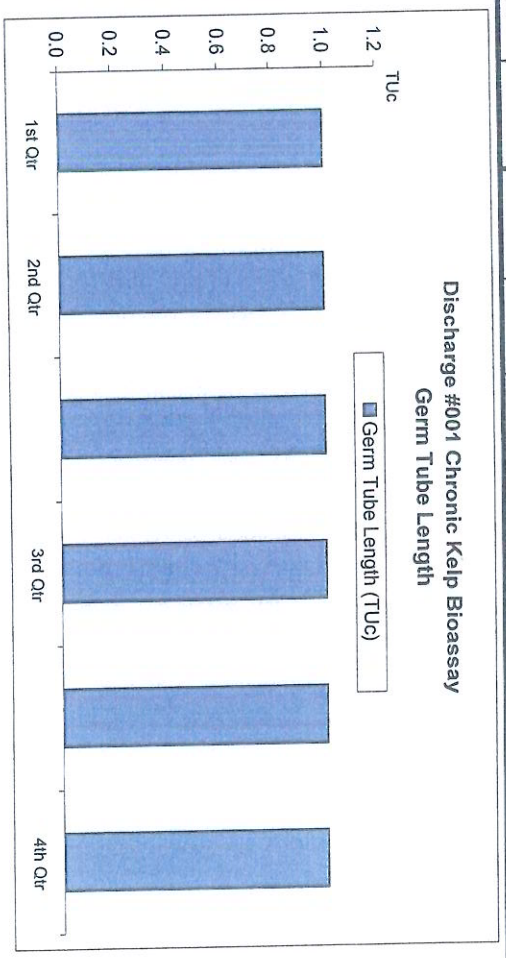
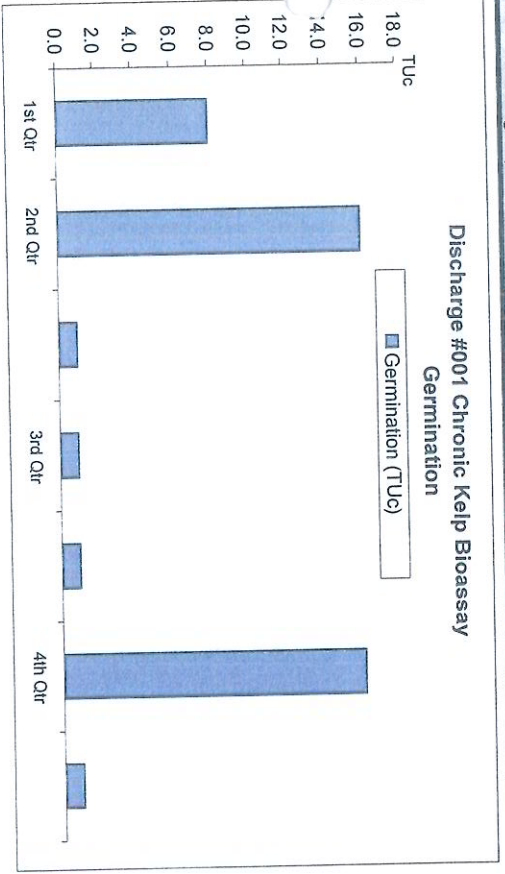
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Low Volume Waste Effluent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH (Max)	8.1	8.5	9.1	8.7	9.0	8.6	9.1	9.3	8.8	8.9	9.2	8.0
pH (Min)	8.1	8.5	9.1	8.6	9.0	8.6	9.1	9.3	8.8	8.9	9.2	8.0
Total Suspended Solids-Max (mg/l)	5.5	16.1	10.9	11.2	16.2	15.5	9.4	15.9	21.1	13.2	51.8	5.6
Total Suspended Solids-Avg (mg/l)	5.3	15.4	10.5	11.0	16.0	14.9	8.5	15.8	20.8	12.1	19.8	3.8
Oil and Grease - Max (mg/l)	ND	3.3	4.0	3.9	1.9	2.1	7.7	2.4	2.4	4.1	3.6	4.0
Oil and Grease - Avg (mg/l)	ND	2.8	3.7	3.6	1.7	1.9	7.4	2.4	2.1	4.1	3.4	2.0
Flow Rate (MGD)	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000

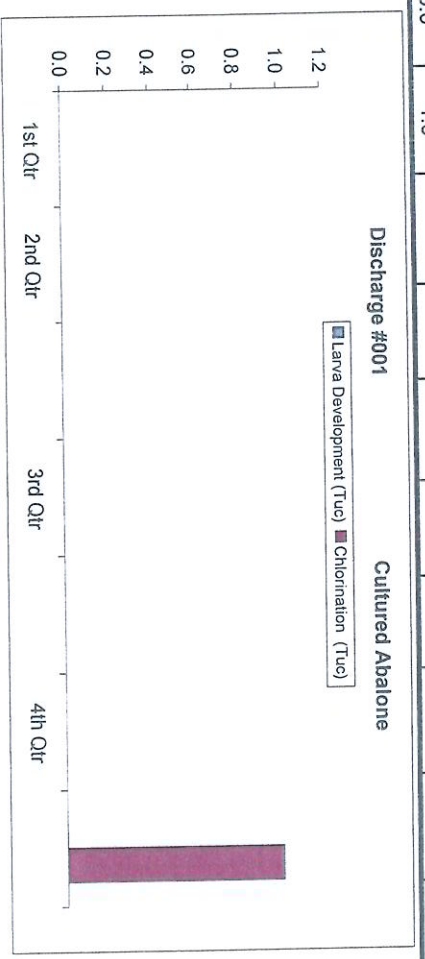
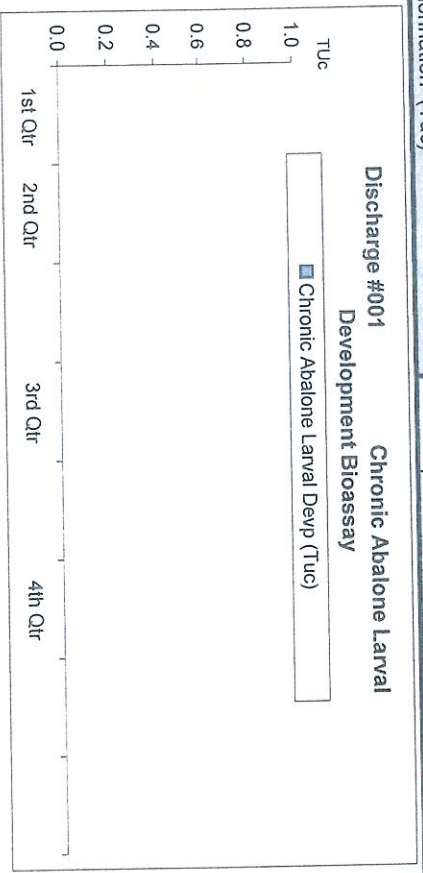


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Discharge #001 - Chronic Kelp Bioassay												
Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr					
	2/1/0/09	5/4/09	6/8/09	8/3/09	8/3/09	8/3/09	11/2/09	12/30/09				
Germination (Tuc)	8.0	16.0	1.0	1.0	1.0	1.0	16.0	1.0				
Germ Tube Length (Tuc)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				



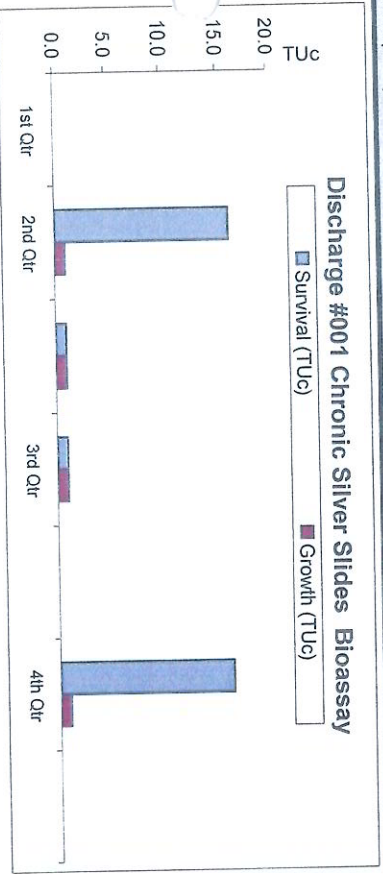
Discharge #001 - Chronic Abalone Bioassay												
Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr					
	2/1/0/09	5/4/09	6/8/09	8/3/09	8/3/09	8/3/09	11/2/09	12/30/09				
Chronic Abalone Larval Devp (Tuc)	0.0	N/A	0.0	0.0	0.0	0.0	0.0	0.0				
Discharge #001 - Cultured Abalone Larva Development (Tuc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Chlorination (Tuc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				



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Discharge #001 - Chronic Silver Slides & Growth Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
2/10/09	5/4/09	6/8/09	8/3/09	8/3/09
11/2/09	12/30/09			
Survival (TUc)	0.0	16.0	1.0	1.0
Growth (TUc)	0.0	1.0	1.0	1.0



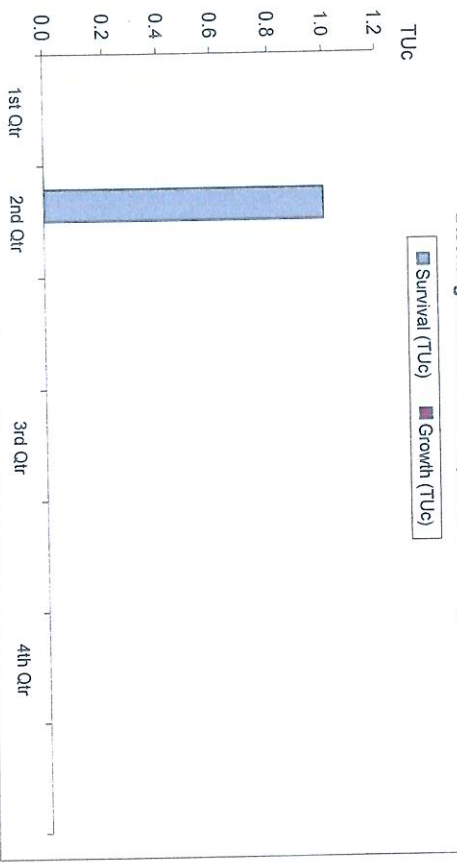
Discharge #001 - Chronic Topsmelt Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
2/10/09	5/4/09	6/8/09	8/3/09	8/3/09
11/2/09	12/30/09			
Survival (TUc)	0.0	1.0	0.0	0.0
Growth (TUc)	0.0	0.0	0.0	0.0

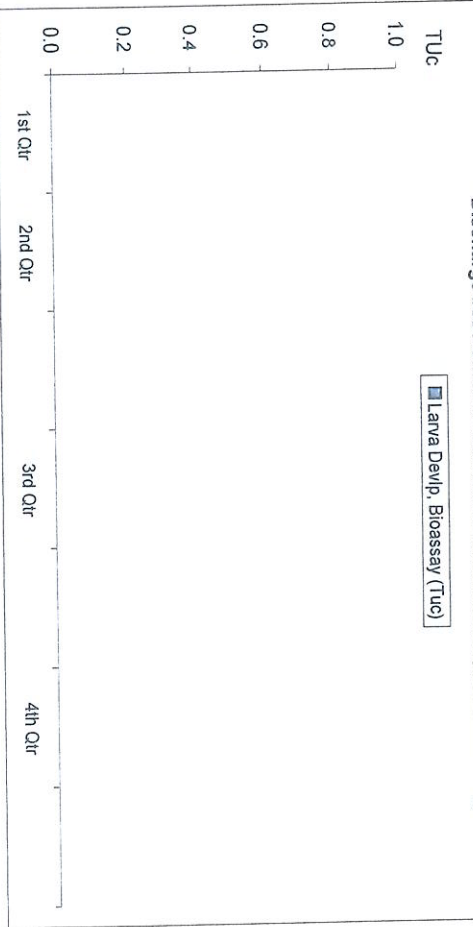
Discharge #001 - Chronic Sea Urchin Larval Development Bioassay

Larva Devlp, Bioassay (TUc)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	0.0	0.0	0.0	0.0

Discharge #001 Chronic Topsmelt Bioassay

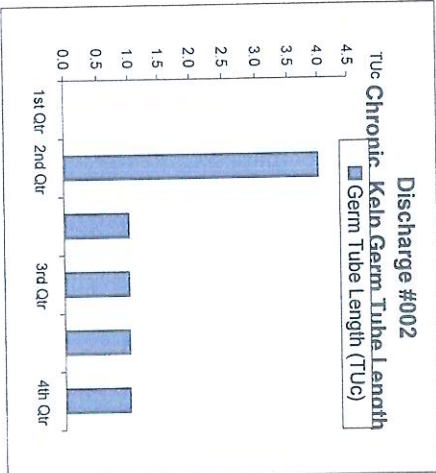
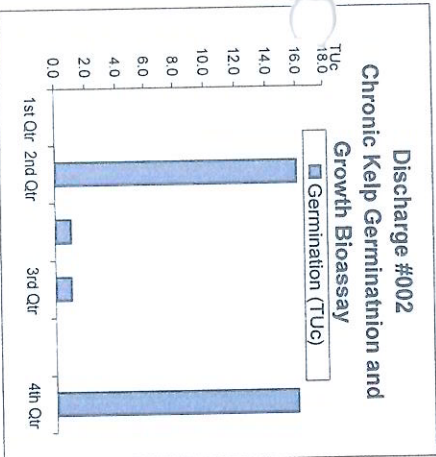


Discharge #001 Chronic Sea Urchin Larval Development Bioassay



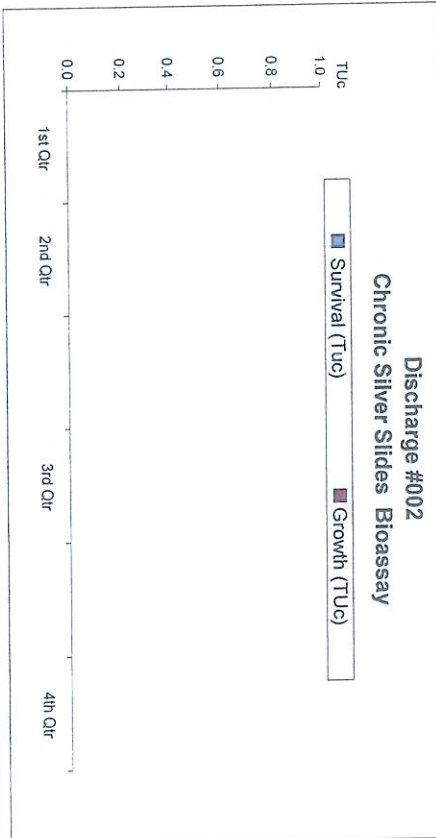
Discharge #002 - Chronic Kelp Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Germination (Tuc)	0.0	16.0	1.0	1.0
Germ Tube Length (Tuc)	0.0	4.0	1.0	1.0



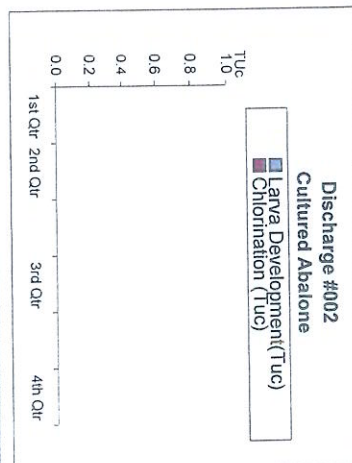
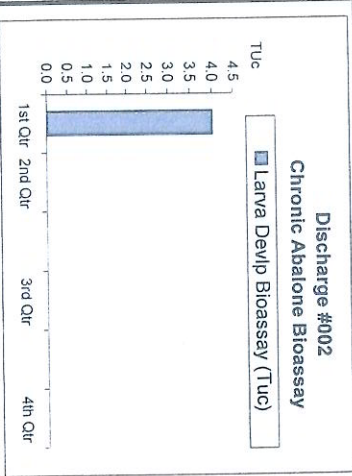
Discharge #002 - Chronic Silver Slides Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Survival (Tuc)	0.0	0.0	0.0	0.0
Growth (Tuc)	0.0	0.0	0.0	0.0



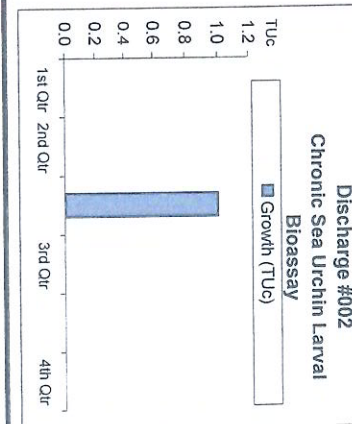
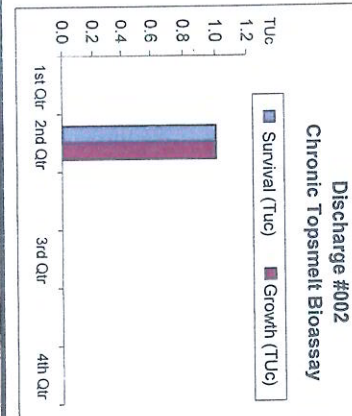
Discharge #002 - Chronic Abalone Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Larva Devlp Bioassay (Tuc)	4.0	0.0	0.0	0.0
Larva Development(Tuc)	0.0	0.0	0.0	0.0
Chlorination (Tuc)	0.0	0.0	0.0	0.0



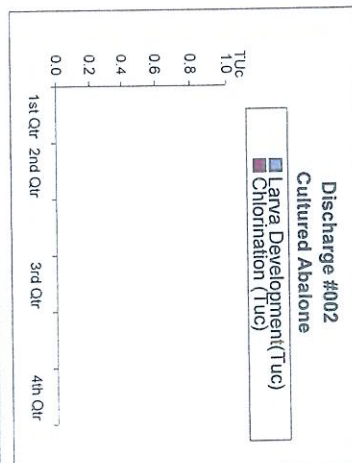
Discharge #002 - Chronic Topsmelt Bioassay

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Survival (Tuc)	0.0	1.0	0.0	0.0
Growth (Tuc)	0.0	1.0	0.0	0.0



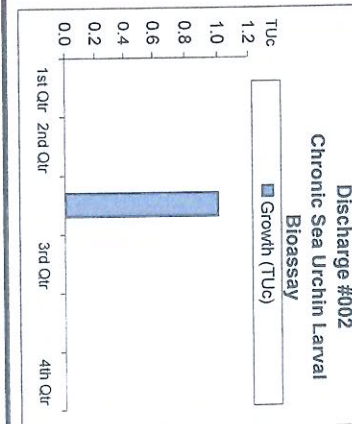
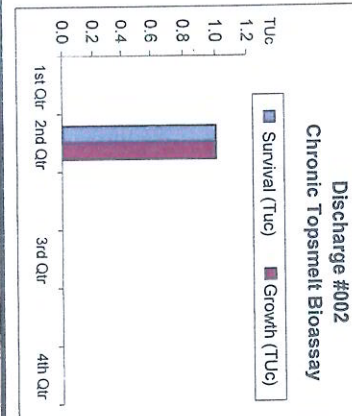
Discharge #002 - Cultured Abalone

Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Larva Development(Tuc)	0.0	0.0	0.0	0.0
Chlorination (Tuc)	0.0	0.0	0.0	0.0



Discharge #002 - Chronic Sea Urchin Larval Bioassay

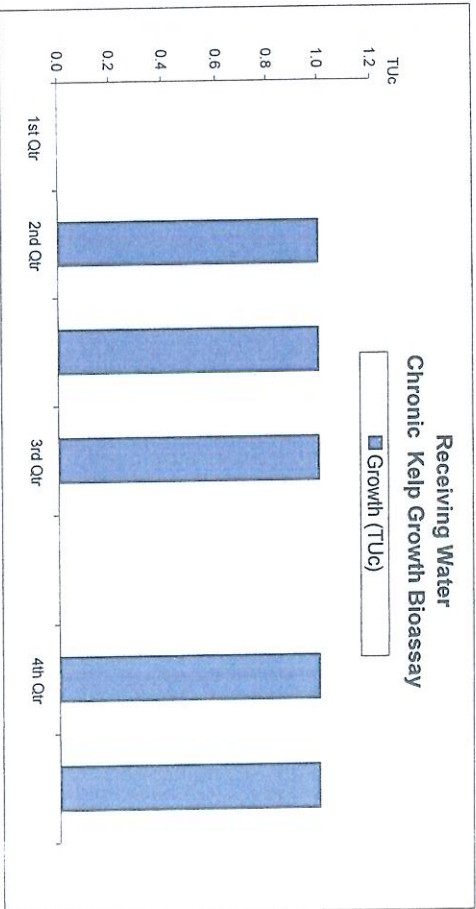
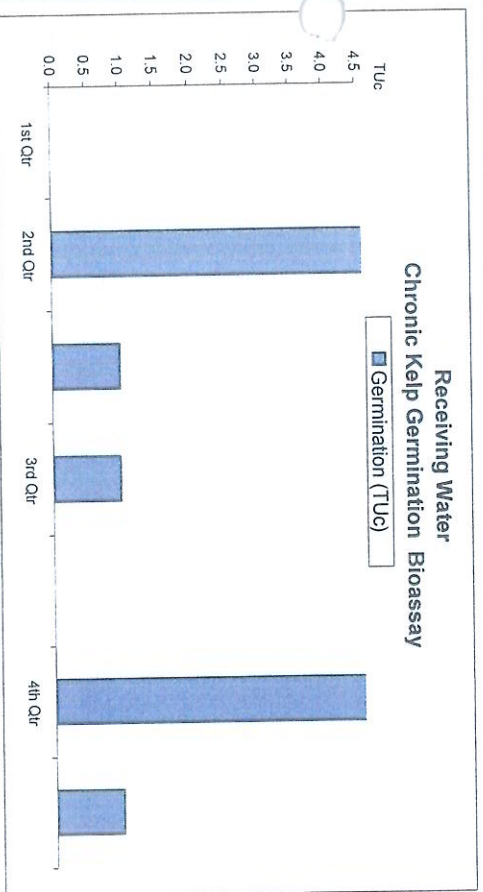
Date	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	2/10/09	5/4/09	6/8/09	8/3/09
Survival (Tuc)	0.0	1.0	0.0	0.0
Growth (Tuc)	0.0	1.0	0.0	0.0



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**Receiving Water - Chronic Kelp Bioassay**

Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr	
	2/10/09	5/4/09	6/8/09	8/3/09	8/3/09	8/3/09	11/2/09	12/30/09
Germination (Tuc)	0.0	16.0	1.0	1.0	1.0	0.0	16.0	1.0
Growth (Tuc)	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0



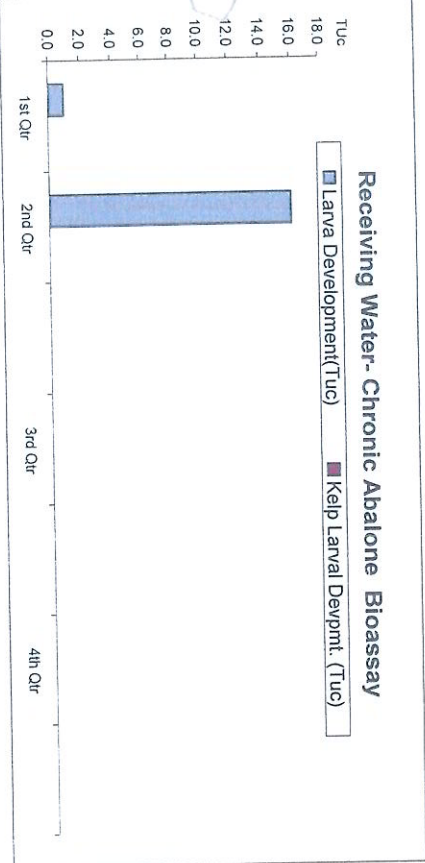
**Receiving Water - Chronic Silver Slides Bioassay**

Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr	
	2/10/09	5/4/09	6/8/09	8/3/09	8/3/09	8/3/09	11/2/09	12/30/09
Survival (Tuc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Growth (Tuc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



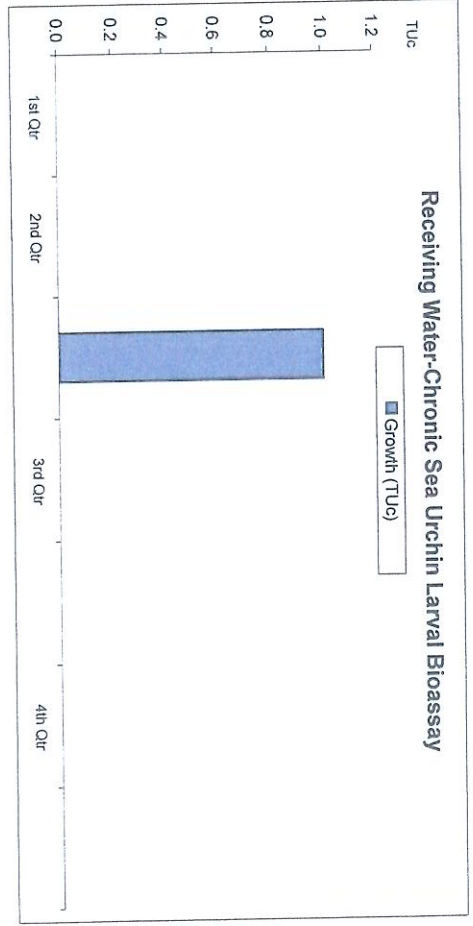
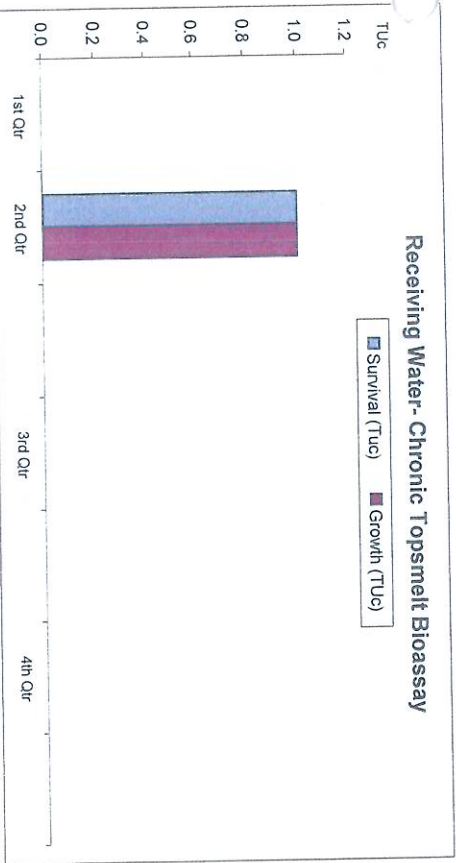
**Receiving Water - Chronic Abalone Bioassay**

Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr	
	2/1/0/9	5/4/0/9	6/8/0/9	8/3/0/9	8/3/0/9	11/2/0/9	12/30/0/9	
Larva Development(Tuc)	1.0	16.0	0.0	0.0	0.0	0.0	0.0	
Kelp Larval Devpmt. (Tuc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



**Receiving Water - Chronic Topsmelt Bioassay**

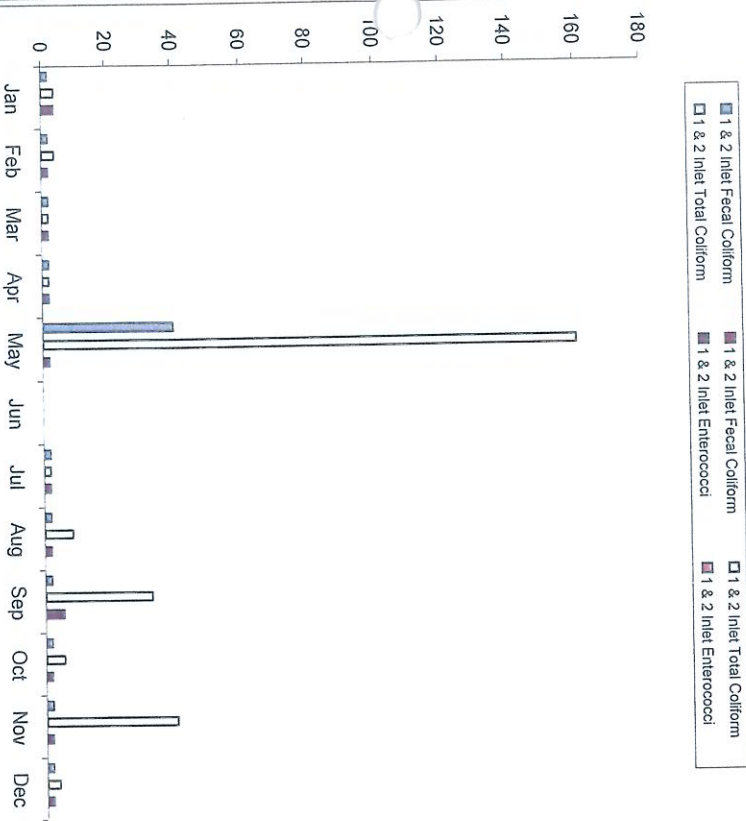
Date	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr	
	2/1/0/09	5/4/0/9	6/8/0/9	8/3/0/9	8/3/0/9	11/2/0/9	12/30/0/9	
Survival (Tuc)	0.0	1.0	0.0	0.0	0.0	0.0	0.0	
Growth (Tuc)	0.0	1.0	0.0	0.0	0.0	0.0	0.0	
<b>Receiving Water - Chronic Sea Urchin Larval Bioassay</b>								
Growth (Tuc)	0.0	0.0	1.0	0.0	0.0	0.0	0.0	



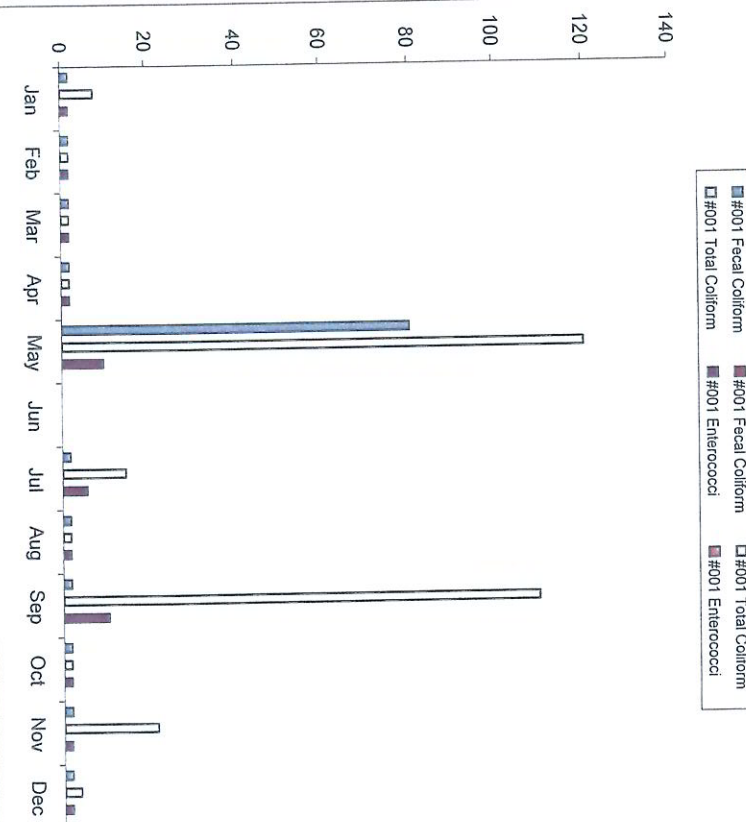
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inlet & Outlet #1 & 2												
1 & 2 Inlet Fecal Coliform	2	2	2	2	40	0	2	2	2	2	2	2
1 & 2 Inlet Fecal Coliform	0	0	0	0	0	0	0	0	0	0	0	0
1 & 2 Inlet Total Coliform	4	4	2	2	160	0	2	9	33	6	40	4
1 & 2 Inlet Total Coliform	0	0	0	0	0	0	0	0	0	0	0	0
1 & 2 Inlet Enterococci	4	2	2	2	2	0	2	2	6	2	2	2
1 & 2 Inlet Enterococci	0	0	0	0	0	0	0	0	0	0	0	0
1 & 2 Inlet Enterococci	2	2	2	2	80	0	2	2	2	2	2	2
#001 Fecal Coliform	0	0	0	0	0	0	0	0	0	0	0	0
#001 Fecal Coliform	8	2	2	2	120	0	15	2	110	2	22	4
#001 Total Coliform	0	0	0	0	0	0	0	0	0	0	0	0
#001 Total Coliform	2	2	2	2	10	0	6	2	11	2	2	2
#001 Enterococci	2	2	2	2	0	0	0	0	0	0	0	0
#001 Enterococci	0	0	0	0	0	0	0	0	0	0	0	0

Inlet #1 & 2 - Coliform & Enterococci



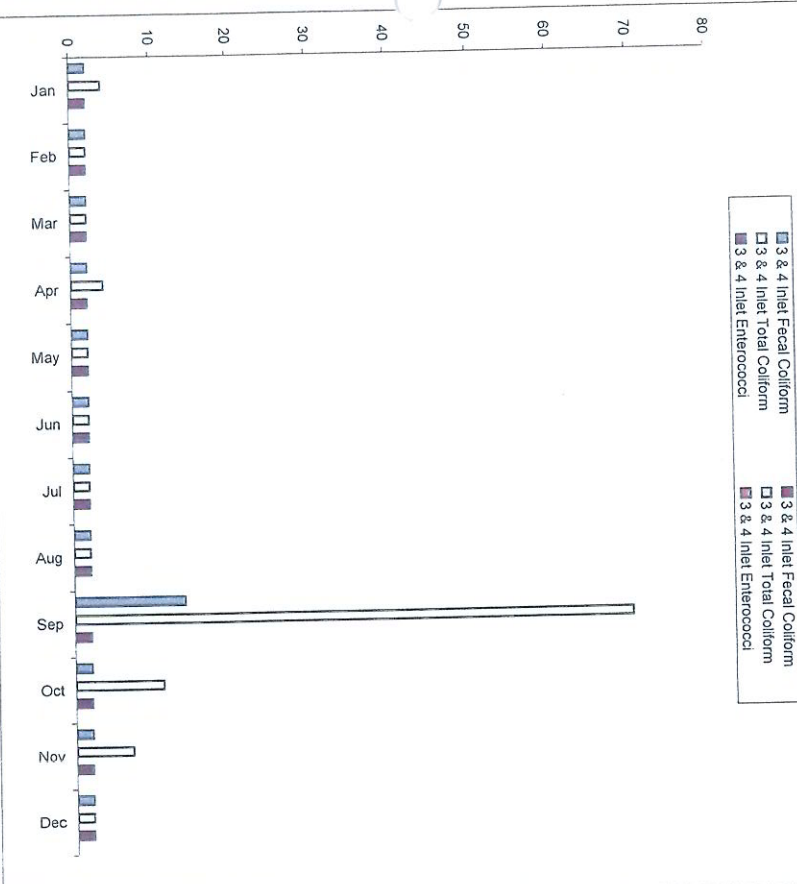
Outlet #001 - Coliform & Enterococci



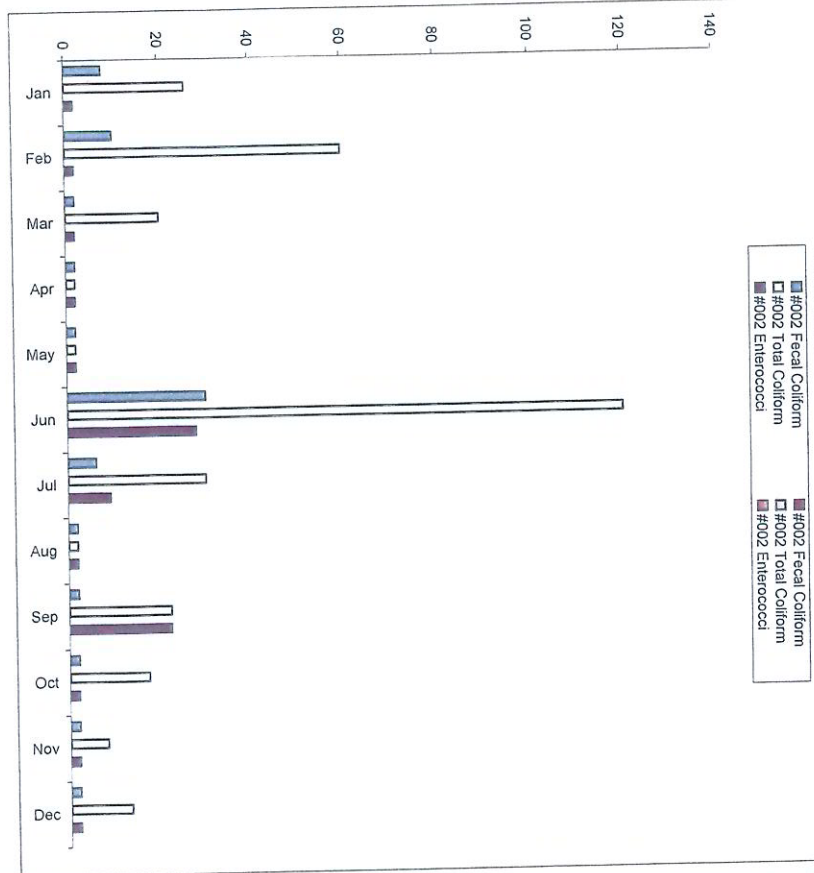
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Inlet &amp; Outlet #3 &amp; 4</b>												
3 & 4 Inlet Fecal Coliform	2	2	2	2	2	2	2	2	14	2	2	2
3 & 4 Inlet Fecal Coliform	0	0	0	0	0	0	0	0	0	0	0	0
3 & 4 Inlet Total Coliform	4	2	2	4	2	2	2	2	70	11	7	2
3 & 4 Inlet Total Coliform	0	0	0	0	0	0	0	0	0	0	0	0
3 & 4 Inlet Enterococci	2	2	2	2	2	2	2	2	2	2	2	2
3 & 4 Inlet Enterococci	0	0	0	0	0	0	0	0	0	0	0	0
#002 Fecal Coliform	8	10	2	2	2	30	6	2	2	2	2	2
#002 Fecal Coliform	0	0	0	0	0	0	0	0	0	0	0	0
#002 Total Coliform	26	60	20	2	2	120	30	2	22	17	8	13
#002 Total Coliform	0	0	0	0	0	0	0	0	0	0	0	0
#002 Enterococci	2	2	2	2	2	28	9	2	22	2	2	2
#002 Enterococci	0	0	0	0	0	0	0	0	0	0	0	0

**Inlet #3 & 4 - Coliform & Enterococci**



**Outlet #002 - Coliform & Enterococci**

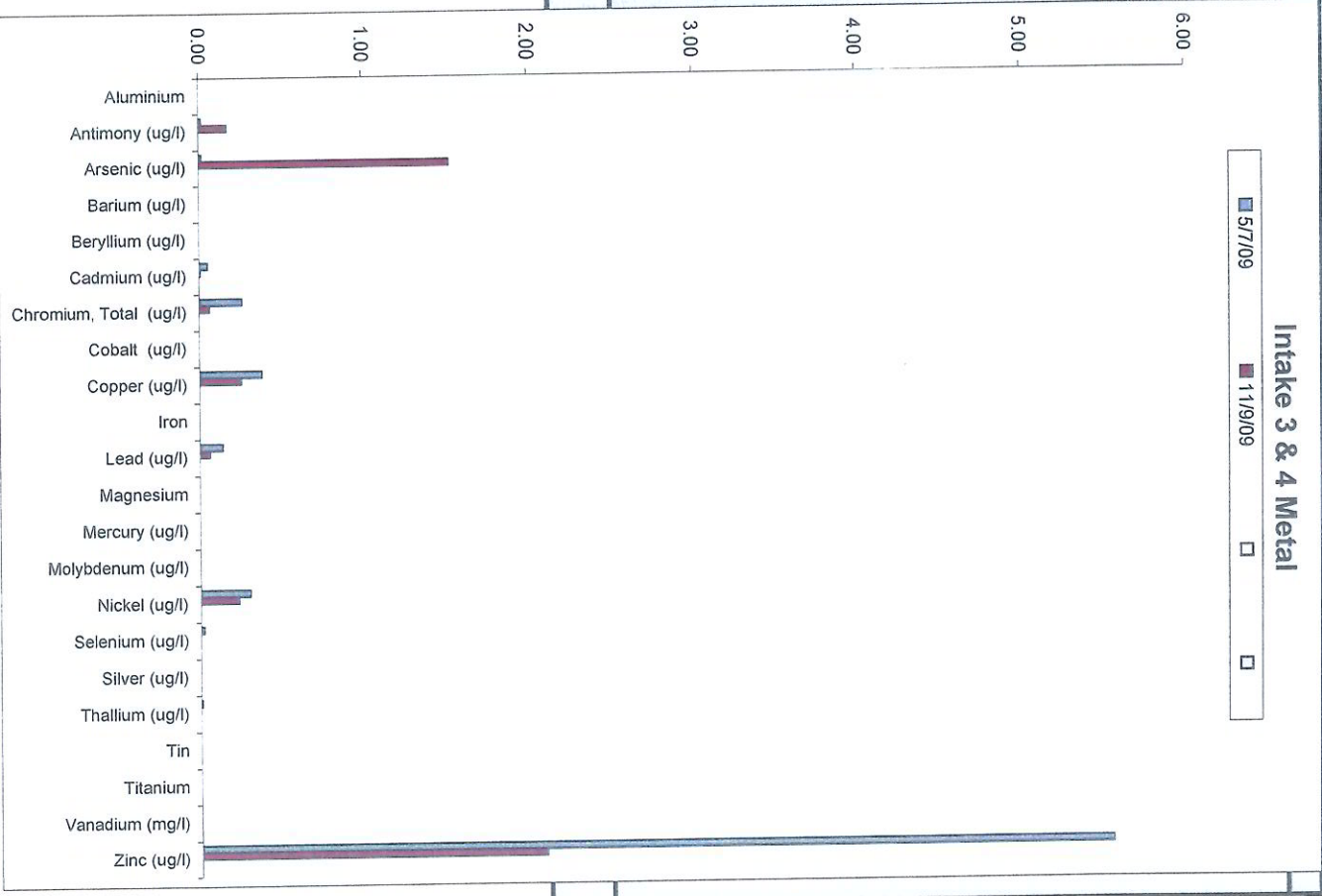




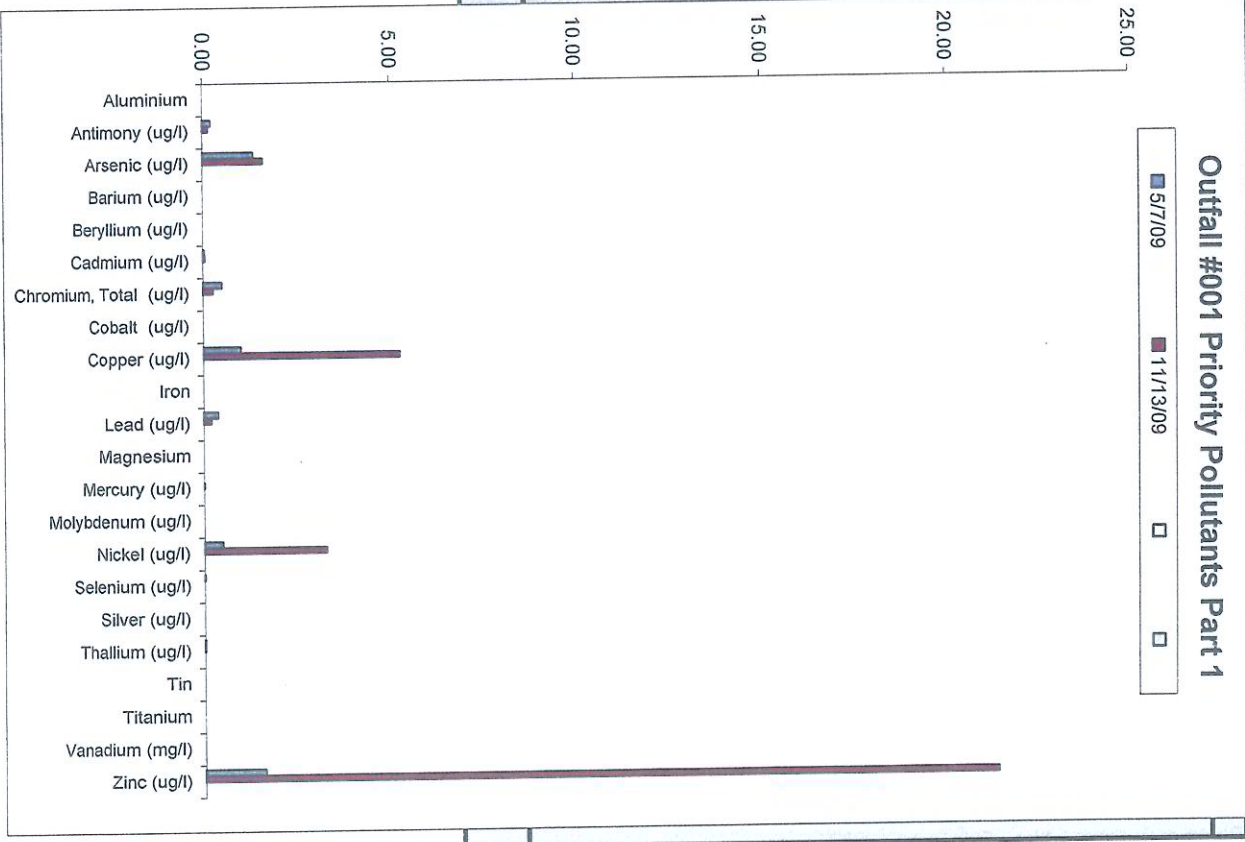
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Intake 3 & 4 -Metal	5/7/09	11/9/09
Aluminium		
Antimony (ug/l)	0.02	0.17
Arsenic (ug/l)	0.02	1.53
Barium (ug/l)		
Beryllium (ug/l)	ND	ND
Cadmium (ug/l)	0.05	0.01
Chromium, Total (ug/l)	0.26	0.06
Cobalt (ug/l)		
Copper (ug/l)	0.38	0.25
Iron (ug/l)		
Lead (ug/l)	0.14	0.06
Magnesium		
Mercury (ug/l)	ND	ND
Molybdenum (ug/l)		
Nickel (ug/l)	0.30	0.23
Selenium (ug/l)	0.02	ND
Silver (ug/l)	ND	ND
Thallium (ug/l)	0.01	ND
Tin		
Titanium		
Vanadium (mg/l)		
Zinc (ug/l)	5.56	2.10

Note: Reporting limit inside of parentheses



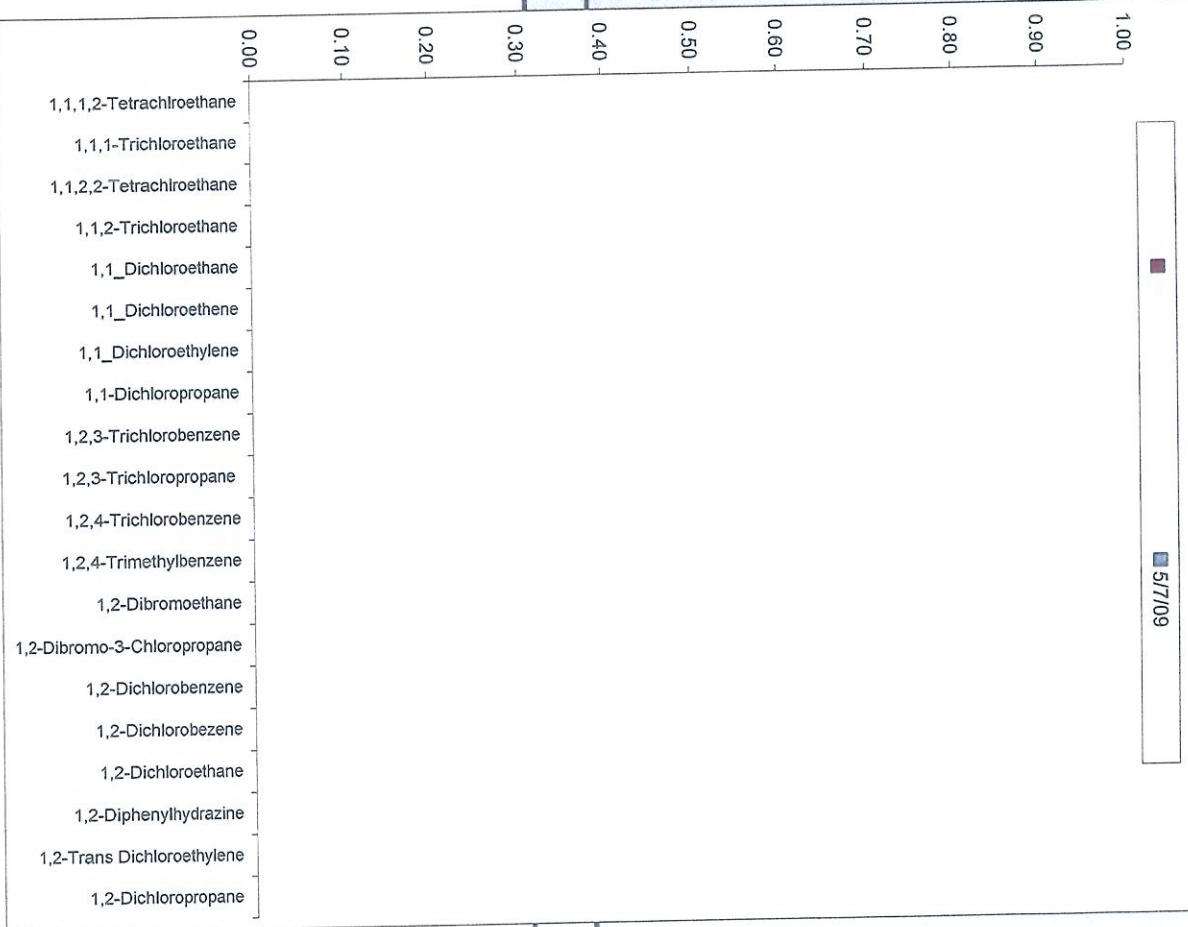
Outfall #001 (Part 1)	5/7/09	11/13/09
Aluminium		
Antimony (ug/l)	0.21	0.14
Arsenic (ug/l)	1.40	1.68
Barium (ug/l)		
Beryllium (ug/l)	ND	ND
Cadmium (ug/l)	0.04	0.04
Chromium, Total (ug/l)	0.51	0.27
Cobalt (ug/l)		
Copper (ug/l)	1.03	5.27
Iron		
d (ug/l)	0.40	0.20
Magnesium		
Mercury (ug/l)	ND	0.01
Molybdenum (ug/l)		
Nickel (ug/l)	0.50	3.33
Selenium (ug/l)	0.01	ND
Silver (ug/l)	ND	ND
Thallium (ug/l)	0.01	0.01
Tin		
Titanium		
Vanadium (mg/l)		
Zinc (ug/l)	1.68	21.50



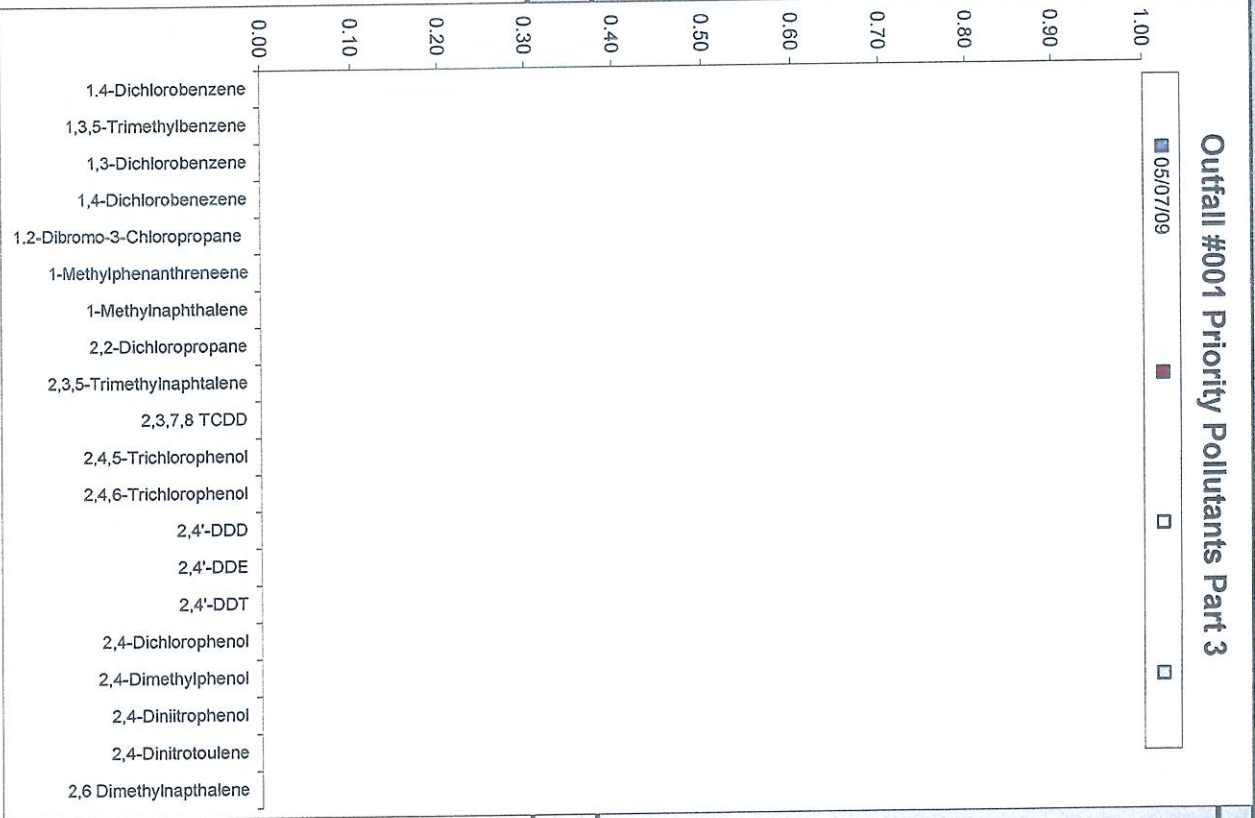
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Outfall #001 Priority Pollutants Part 2

Outfall #001 (Part 2)	5/7/09							
1,1,1,2-Tetrachloroethane	ND							
1,1,1-Trichloroethane	ND							
1,1,2,2-Tetrachloroethane								
1,1,2-Trichloroethane	ND							
1,1-Dichloroethane	ND							
1,1-Dichloroethene	ND							
1,1-Dichloroethylene								
1,1-Dichloropropane								
1,2,3-Trichlorobenzene								
1,2,3-Trichloropropane								
1,2,4-Trichlorobenzene	ND							
1,2,4-Trimethylbenzene								
1,2-Dibromoethane								
1,2-Dibromo-3-Chloropropane								
1,2-Dichlorobenzene	ND							
1,2-Dichlorobezene								
1,2-Dichloroethane	ND							
1,2-Diphenylhydrazine	ND							
1,2-Trans Dichloroethylene								
1,2-Dichloropropane	ND							



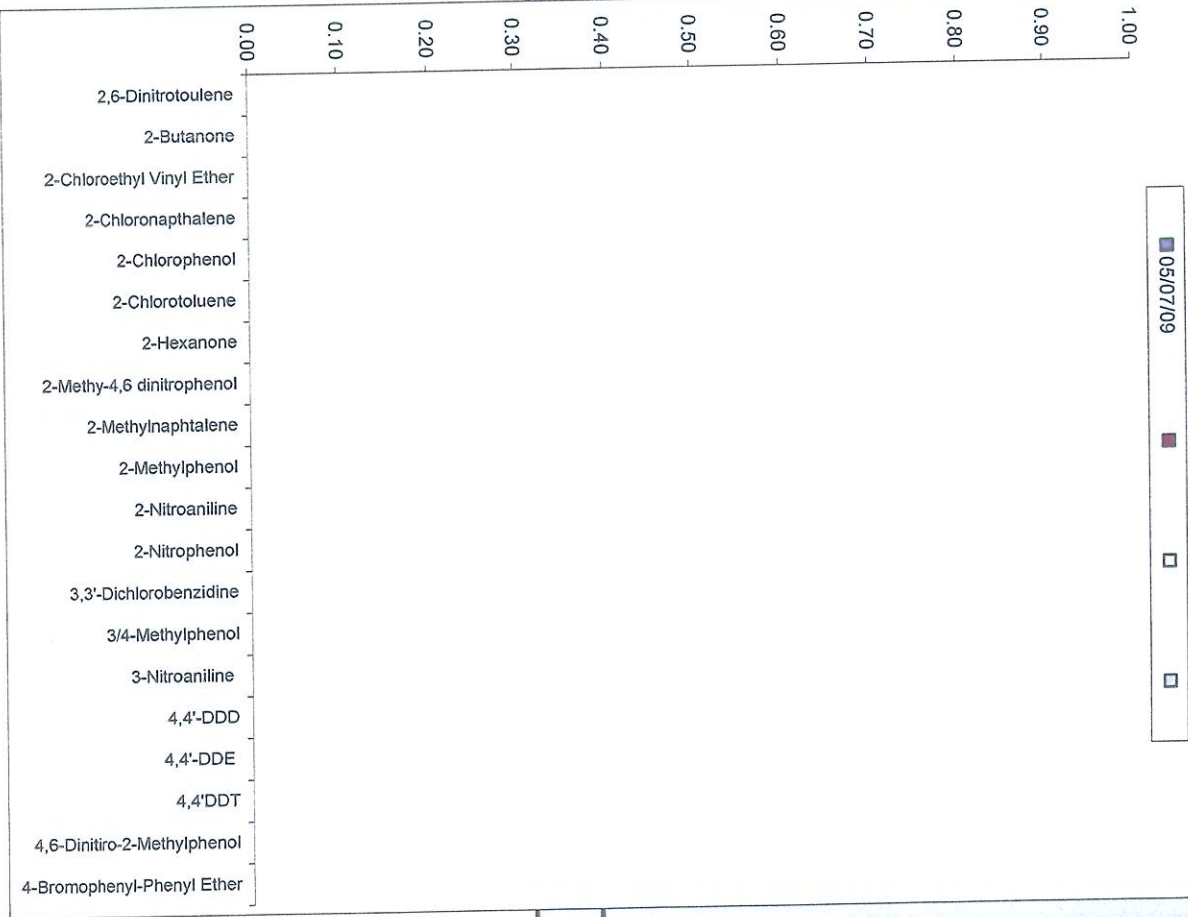
Outfall #001 (Part 3)	05/07/09				
1,4-Dichlorobenzene	ND				
1,3,5-Trimethylbenzene	ND				
1,3-Dichlorobenzene	ND				
1,4-Dichlorobenzene					
1,2-Dibromo-3-Chloropropane					
1-Methylphenanthreneene					
1-Methylnaphthalene					
2,2-Dichloropropane					
2,3,5-Trimethylnaphthalene					
2,3,7,8 TCDD	ND				
5-Trichlorophenol					
2,4,6-Trichlorophenol	ND				
2,4'-DDD					
2,4'-DDE					
2,4'-DDT					
2,4-Dichlorophenol	ND				
2,4-Dimethylphenol	ND				
2,4-Dinitrophenol	ND				
2,4-Dinitrotoulene	ND				
2,6 Dimethylnaphthalene					



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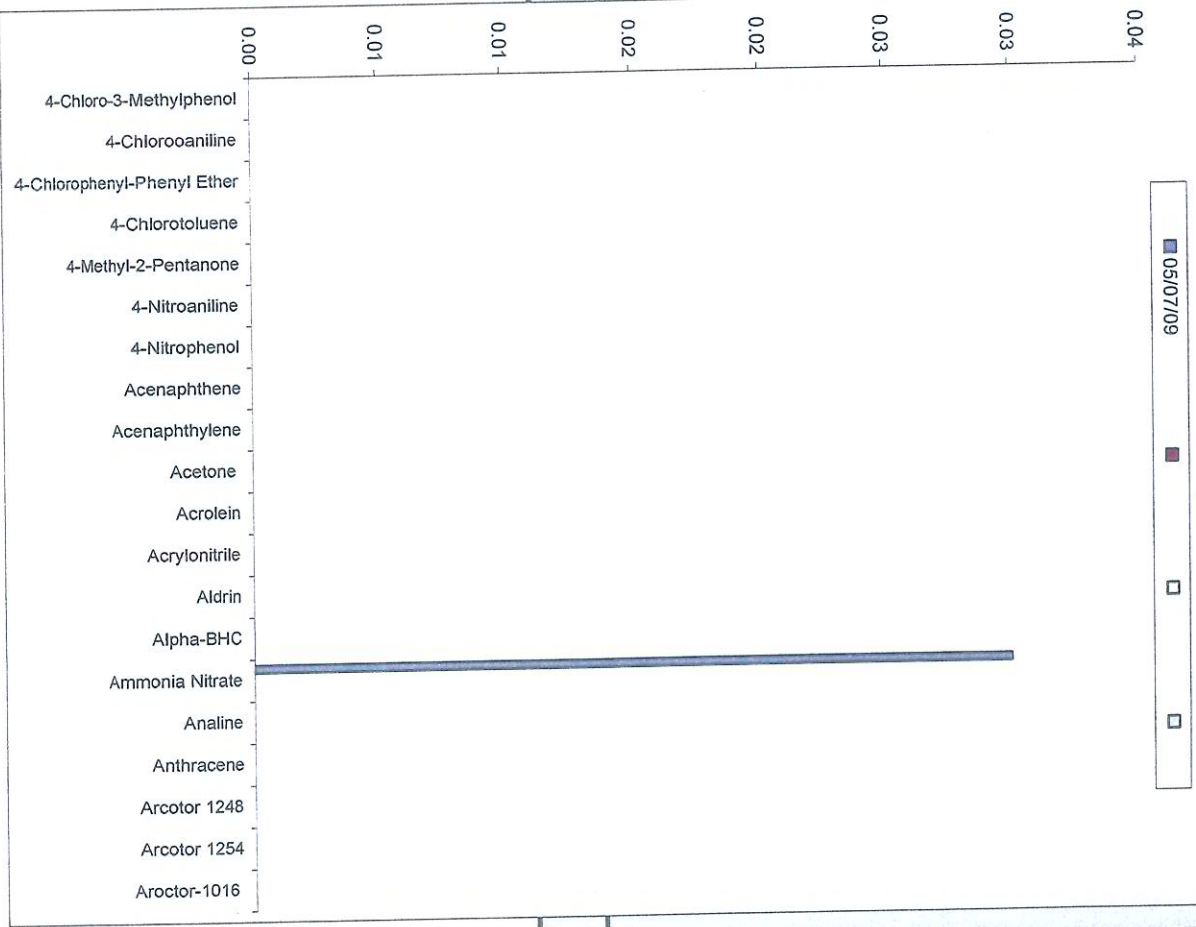
Outfall #001 Priority Pollutants Part 4

Outfall #001 (Part 4)	05/07/09				
2,6-Dinitrotoluene	ND				
2-Butanone	ND				
2-Chloroethyl Vinyl Ether	ND				
2-Chloronaphthalene	ND				
2-Chlorophenol	ND				
2-Chlorotoluene					
2-Hexanone					
2-Methy-4,6 dinitrophenol					
2-Methylnaphthalene					
2-Methylphenol					
2-Nitroaniline	ND				
2-Nitrophenol	ND				
3,3'-Dichlorobenzidine					
3/4-Methylphenol					
3-Nitroaniline					
4,4'-DDD	ND				
4,4'-DDE	ND				
4,4'DDT	ND				
4,6-Dinitro-2-Methylphenol	ND				
4-Bromophenyl-Phenyl Ether	ND				



Outfall #001 Priority Pollutants Part 5

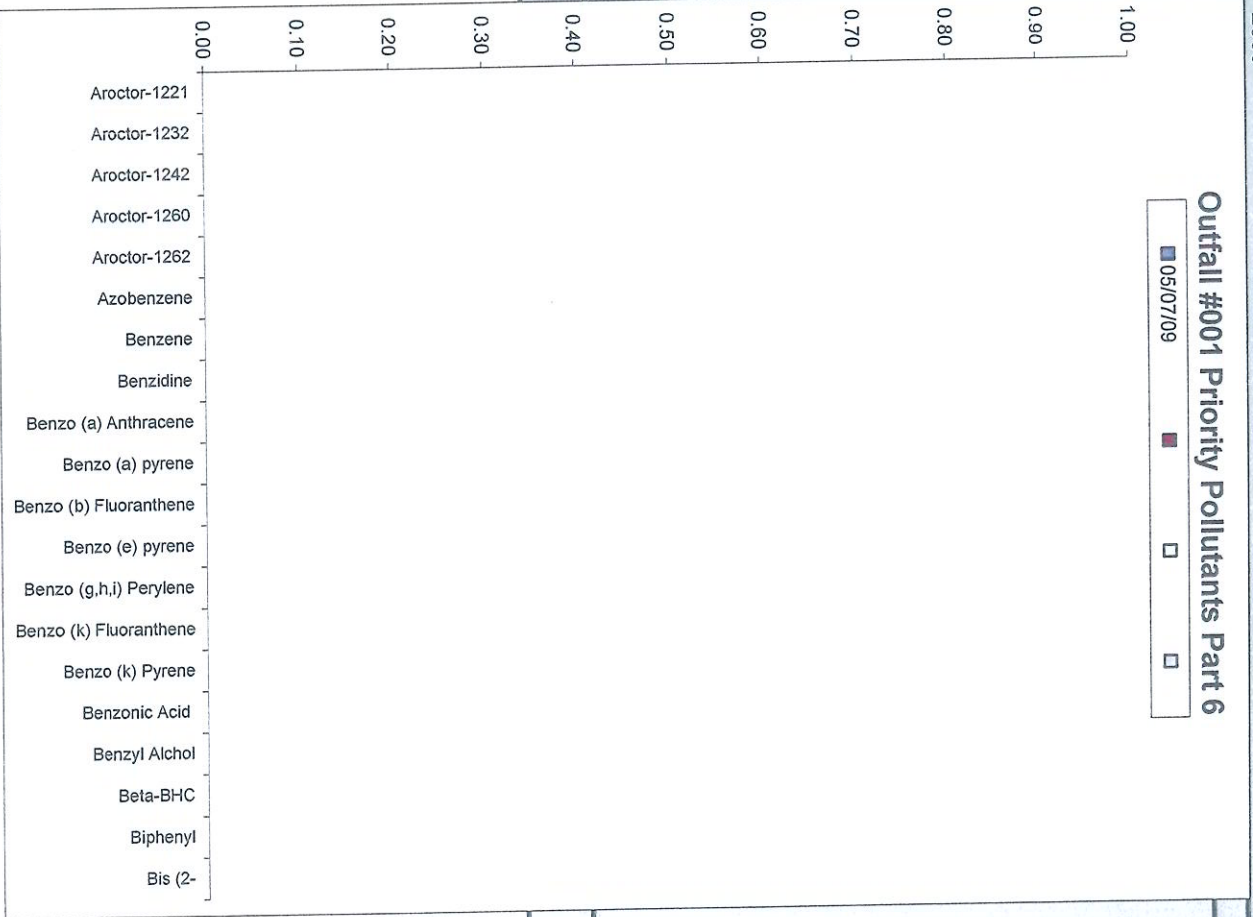
Outfall #001 (Part 5)	05/07/09
4-Chloro-3-Methylphenol	ND
4-Chloroaniline	ND
4-Chlorophenyl-Phenyl Ether	ND
4-Chlorotoluene	ND
4-Methyl-2-Pentanone	ND
4-Nitroaniline	ND
4-Nitrophenol	ND
Acenaphthene	ND
Acenaphthylene	ND
Acetone	ND
Acrolein	ND
Acrylonitrile	ND
Aldrin	ND
Alpha-BHC	ND
Ammonia Nitrate	0.03
Aniline	ND
Anthracene	ND
Arcotor 1248	ND
Arcotor 1254	ND
Arcotor-1016	ND



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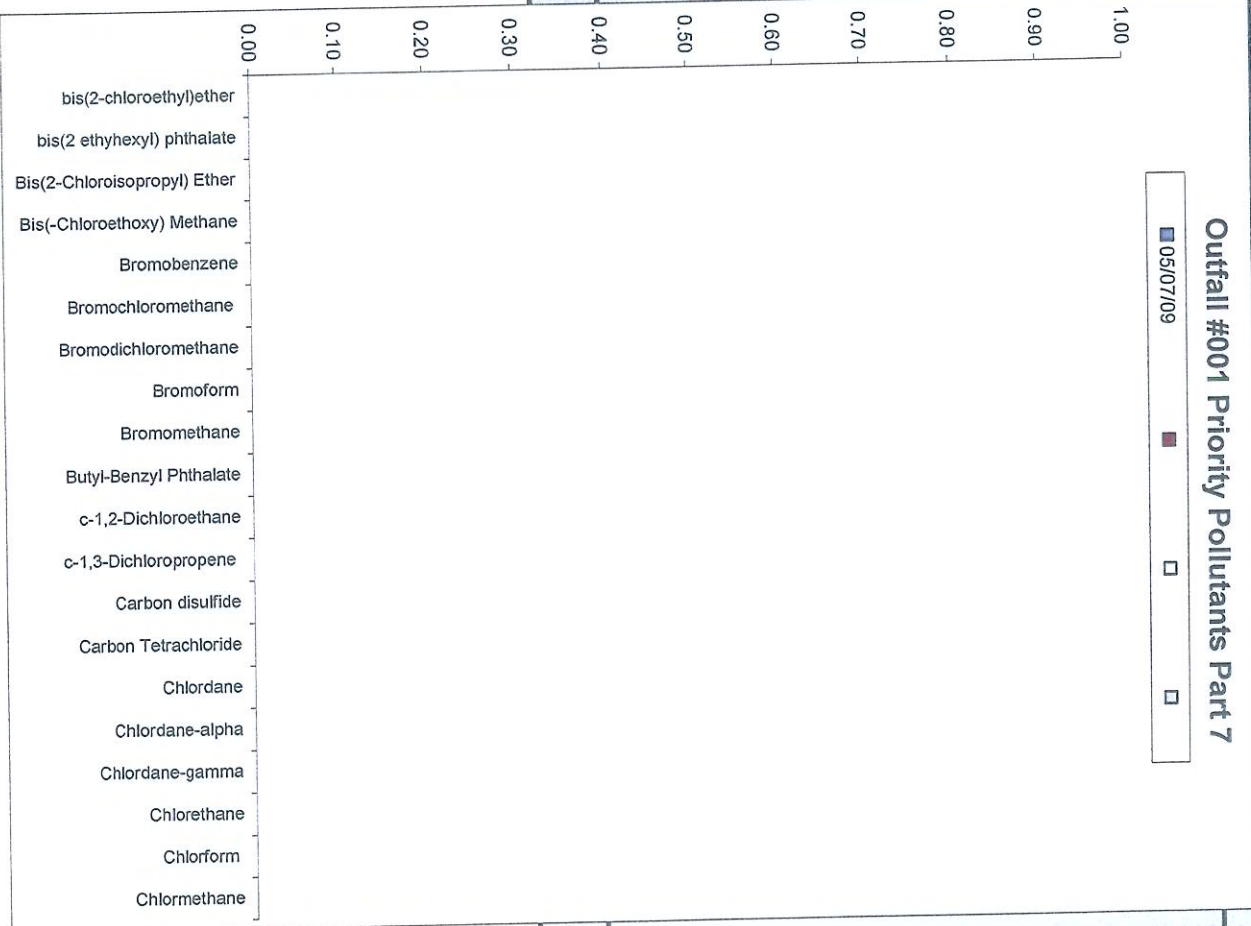
2009

Outfall #001 (Part 6)	05/07/09			
Aroclor-1221	ND			
Aroclor-1232	ND			
Aroclor-1242	ND			
Aroclor-1260	ND			
Aroclor-1262	ND			
Azobenzene	ND			
Benzene	ND			
Benzidine	ND			
Benzo (a) Anthracene	ND			
Benzo (a) pyrene	ND			
Benzo (b) Fluoranthene	ND			
Benzo (e) pyrene	ND			
Benzo (g,h,i) Perylene	ND			
Benzo (k) Fluoranthene	ND			
Benzo (k) Pyrene	ND			
Benzoic Acid				
Benzyl Alcohol				
Beta-BHC	ND			
Biphenyl				
Bis (2-chloroEthoxy)methane	ND			



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Outfall #001 (Part 7)	05/07/09				
bis(2-chloroethyl)ether	ND				
bis(2 ethylhexyl) phthalate	ND				
Bis(2-Chloroisopropyl) Ether	ND				
Bis(-Chloroethoxy) Methane					
Bromobenzene					
Bromochloromethane	ND				
Bromodichloromethane	ND				
Bromoform	ND				
Bromomethane	ND				
Butyl-Benzyl Phthalate	ND				
2-Dichloroethane	ND				
c-1,3-Dichloropropene	ND				
Carbon disulfide	ND				
Carbon Tetrachloride	ND				
Chlordane					
Chlordane-alpha	ND				
Chlordane-gamma	ND				
Chlorethane	ND				
Chlorform	ND				
Chlormethane					

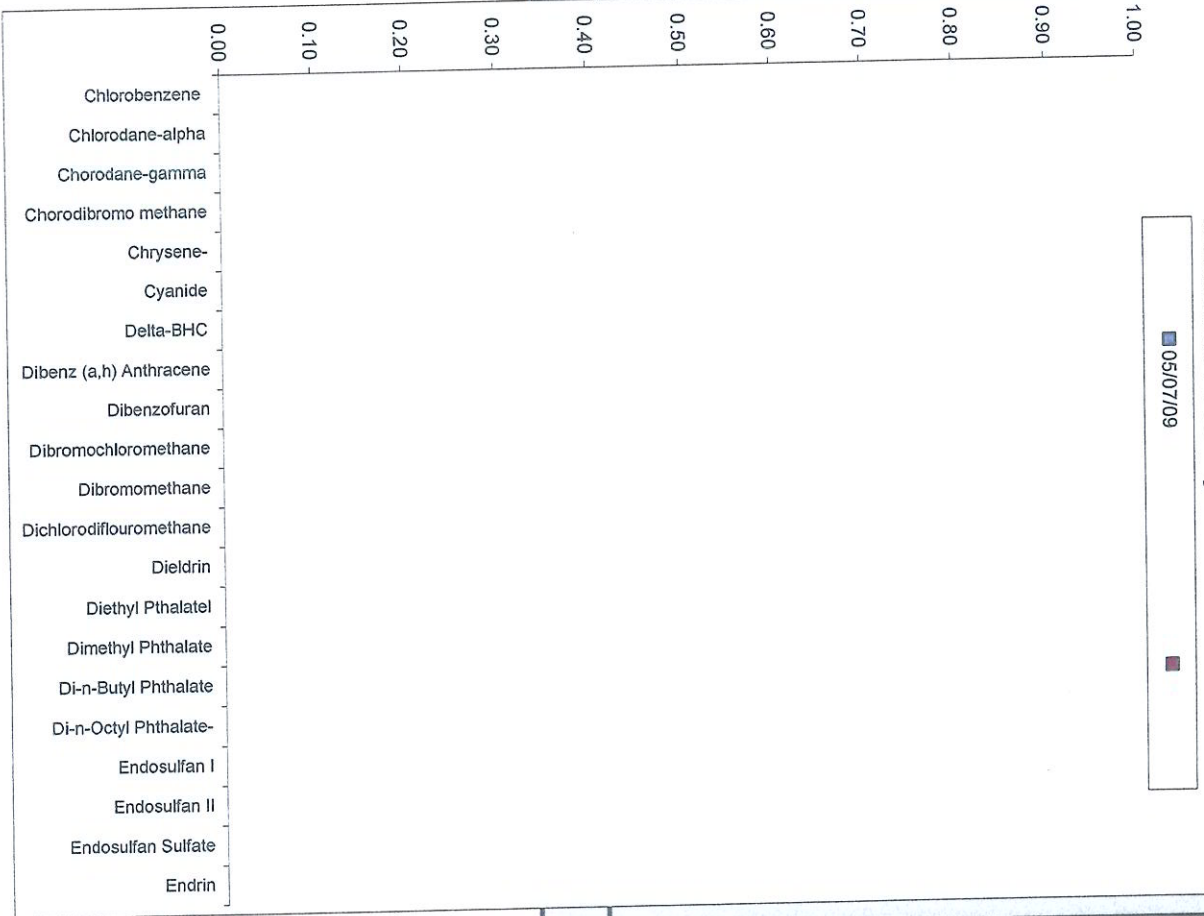




Outfall #001 (Part 8)

	05/07/09
Chlorobenzene	
Chlorodane-alpha	
Chlorodane-gamma	
Chlorodibromo methane	
Chrysene-	
Cyanide	
Delta-BHC	
Dibenz (a,h) Anthracene	
Dibenzofuran	
Dibromochloromethane	
Dibromomethane	
Dichlorodifluoromethane	
Dieldrin	
Diethyl Phthalate	
Dimethyl Phthalate	
Di-n-Butyl Phthalate	
Di-n-Octyl Phthalate-	
Endosulfan I	
Endosulfan II	
Endosulfan Sulfate	
Endrin	

Outfall #001 Priority Pollutants Part 8

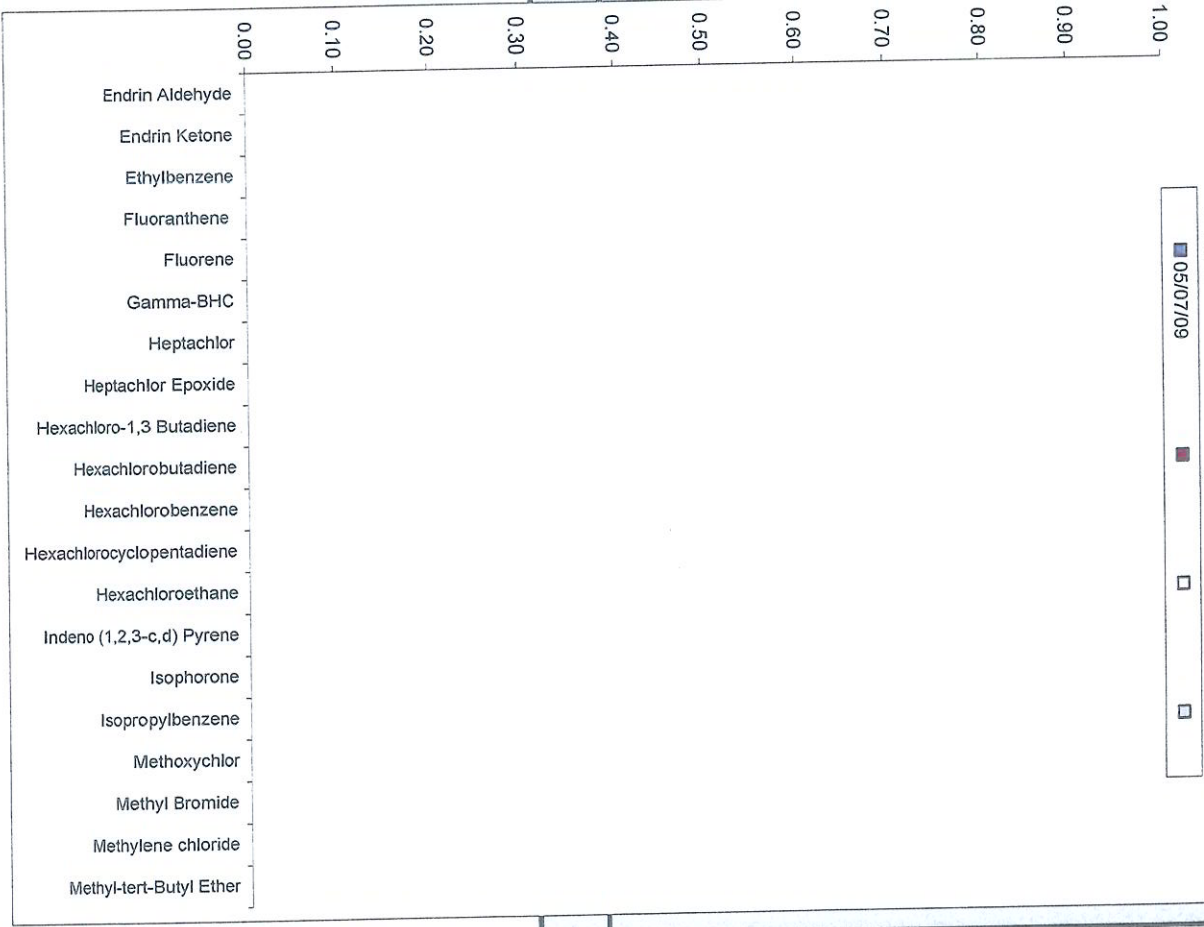


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**Outfall #001 (Part 9)**

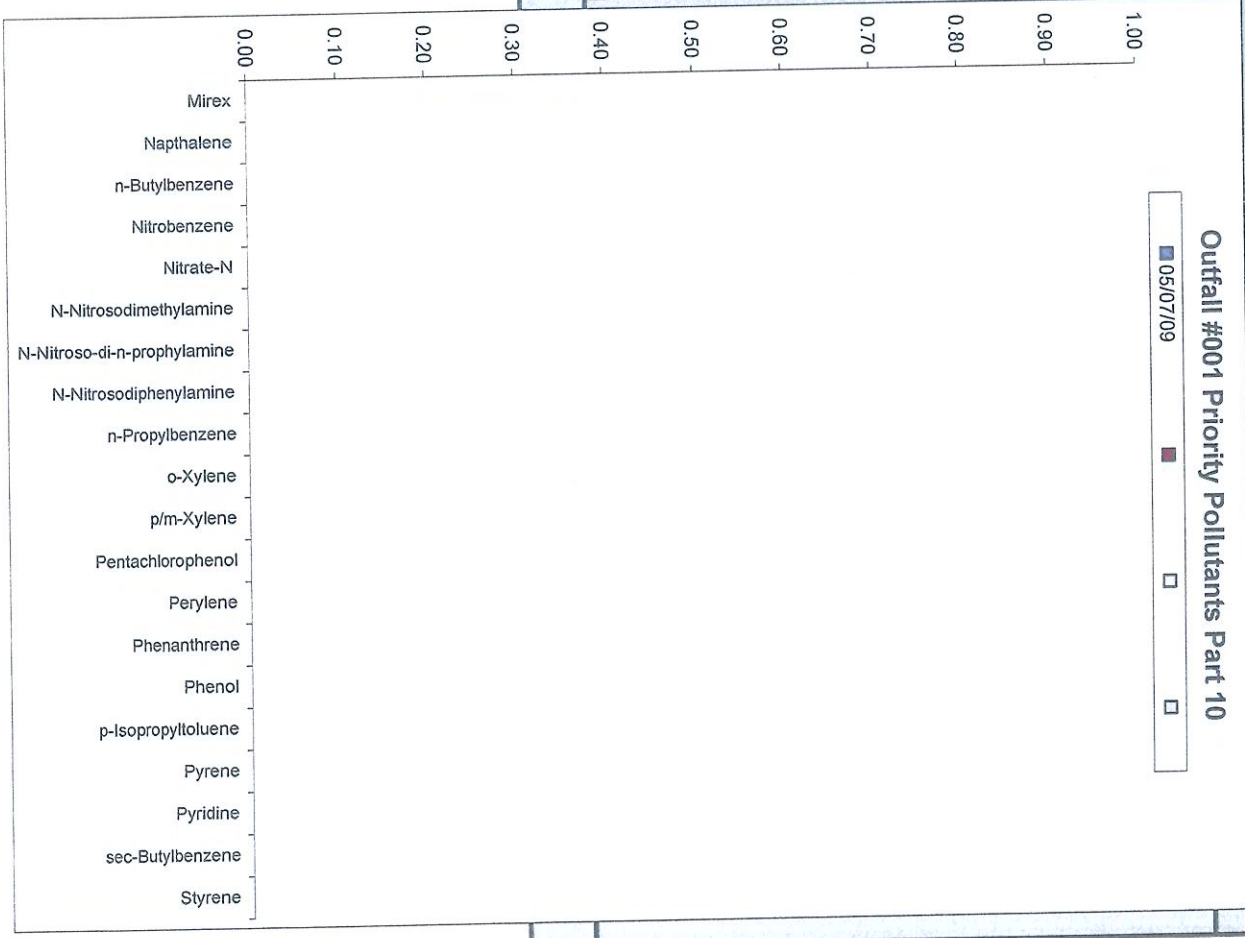
Chemical Name	Date	Concentration	Concentration	Concentration	Concentration
Endrin Aldehyde	05/07/09	ND			
Endrin Ketone		ND			
Ethylbenzene		ND			
Fluoranthene		ND			
Fluorene		ND			
Gamma-BHC		ND			
Heptachlor		ND			
Heptachlor Epoxide		ND			
Hexachloro-1,3 Butadiene		ND			
Hexachlorobutadiene		ND			
Hexachlorobenzene		ND			
Hexachlorocyclopentadiene		ND			
Hexachloroethane		ND			
Indeno (1,2,3-c,d) Pyrene		ND			
Isophorone		ND			
Isopropylbenzene		ND			
Methoxychlor		ND			
Methyl Bromide		ND			
Methylene chloride		ND			
Methyl-tert-Butyl Ether		ND			

**Outfall #001 Priority Pollutants Part 9**



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Outfall #001 (Part 10)	05/07/09				
Mirex	ND				
Napthalene	ND				
n-Butylbenzene	ND				
Nitrobenzene	ND				
Nitrate-N	ND				
N-Nitrosodimethylamine	ND				
N-Nitroso-di-n-propylamine	ND				
N-Nitrosodiphenylamine	ND				
n-Propylbenzene	ND				
o-Xylene	ND				
p-Xylene	ND				
Pentachlorophenol	ND				
Perylene	ND				
Phenanthrene	ND				
Phenol	ND				
p-Isopropyltoluene	ND				
Pyrene	ND				
Pyridine	ND				
sec-Butylbenzene	ND				
Styrene	ND				

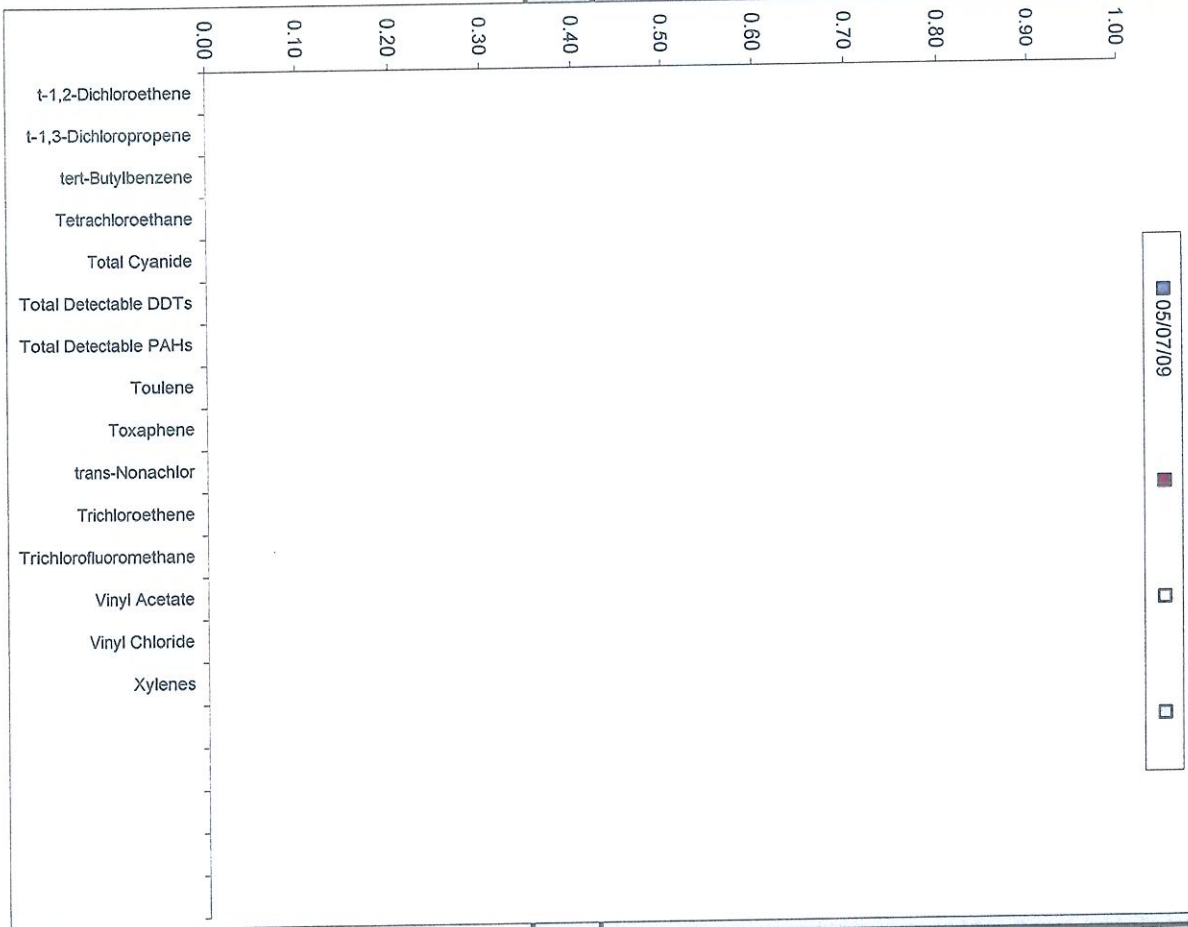


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Outfall #001 Priority Pollutants Part 11

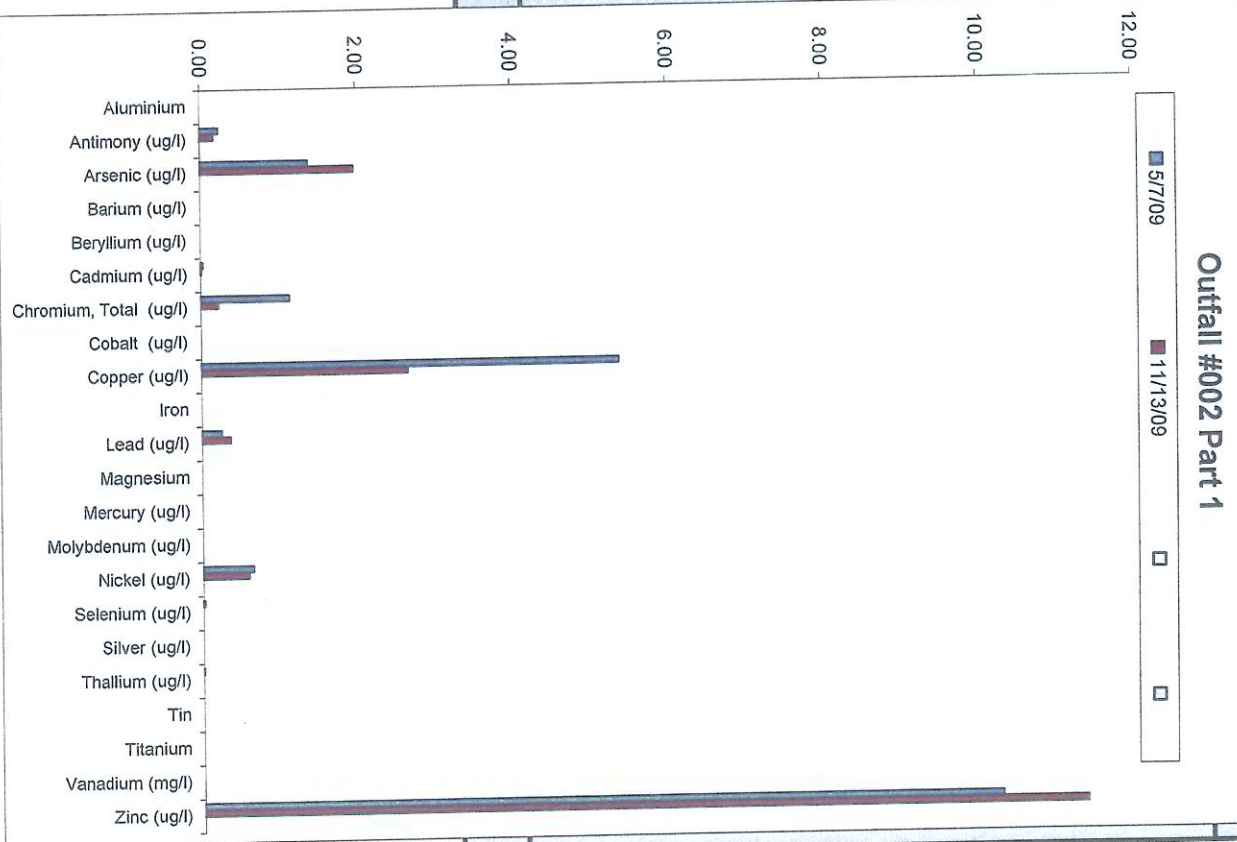
Outfall #001 (Part 11)	05/07/09				
t-1,2-Dichloroethene	ND				
t-1,3-Dichloropropene	ND				
tert-Butylbenzene					
Tetrachloroethane	ND				
Total Cyanide					
Total Detectable DDTs					
Total Detectable PAHs					
Toulene	ND				
Toxaphene	ND				
trans-Nonachlor chloroethene	ND				
Trichlorofluoromethane	ND				
Vinyl Acetate	ND				
Vinyl Chloride	ND				
Xylenes	ND				



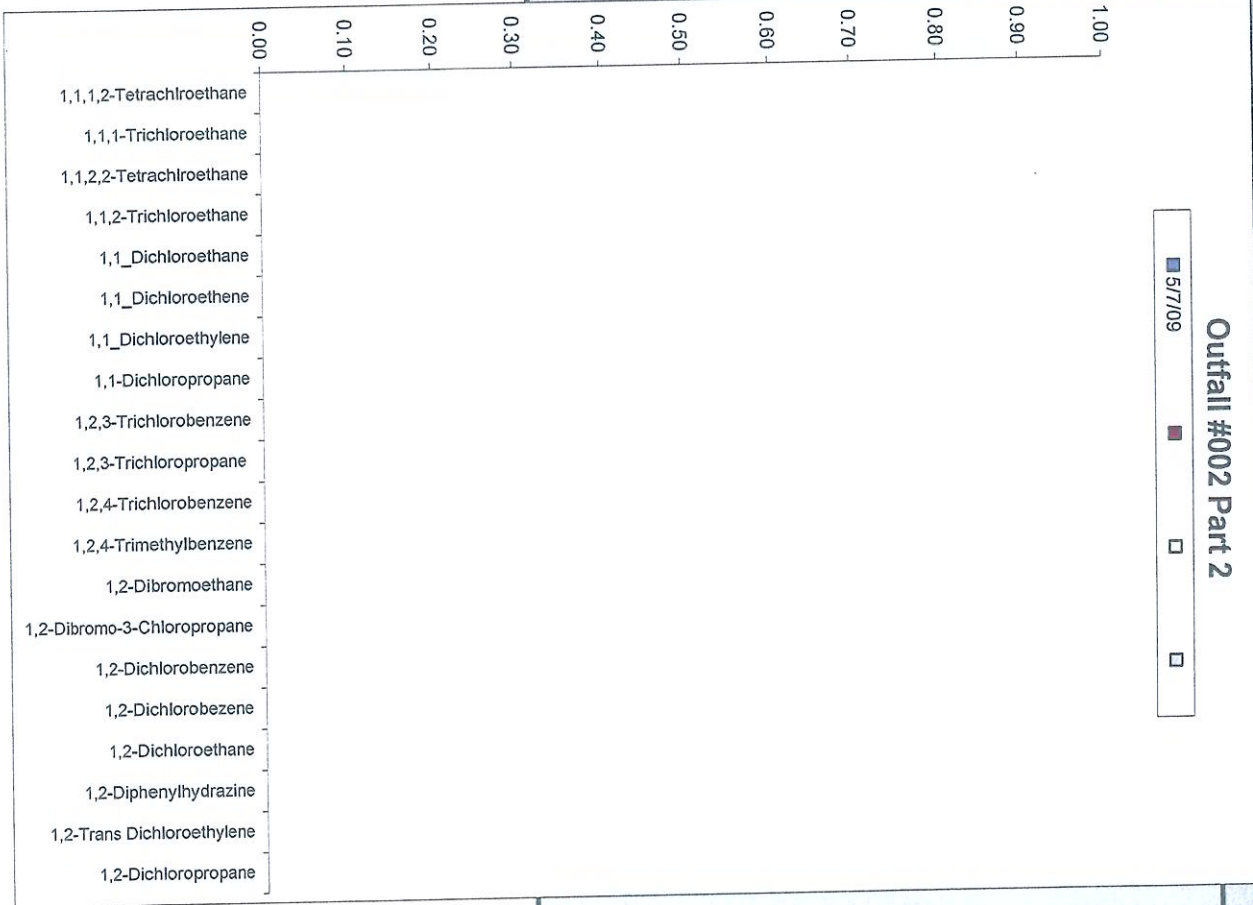
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Outfall #002 (Part 1)	5/7/09	11/13/09
Aluminium		
Antimony (ug/l)	0.24	0.18
Arsenic (ug/l)	1.39	1.97
Barium (ug/l)		
Beryllium (ug/l)	ND	ND
Cadmium (ug/l)	0.03	0.01
Chromium, Total (ug/l)	1.15	0.23
Cobalt (ug/l)		
Copper (ug/l)	5.37	2.66
Iron (ug/l)		
Lead (ug/l)	0.25	0.38
Magnesium		
Mercury (ug/l)	ND	ND
Molybdenum (ug/l)		
Nickel (ug/l)	0.66	0.60
Selenium (ug/l)	0.02	ND
Silver (ug/l)	ND	ND
Thallium (ug/l)	0.01	ND
Tin		
Titanium		
Vanadium (mg/l)		
Zinc (ug/l)	10.30	11.40

Note: Reporting limit inside of parentheses

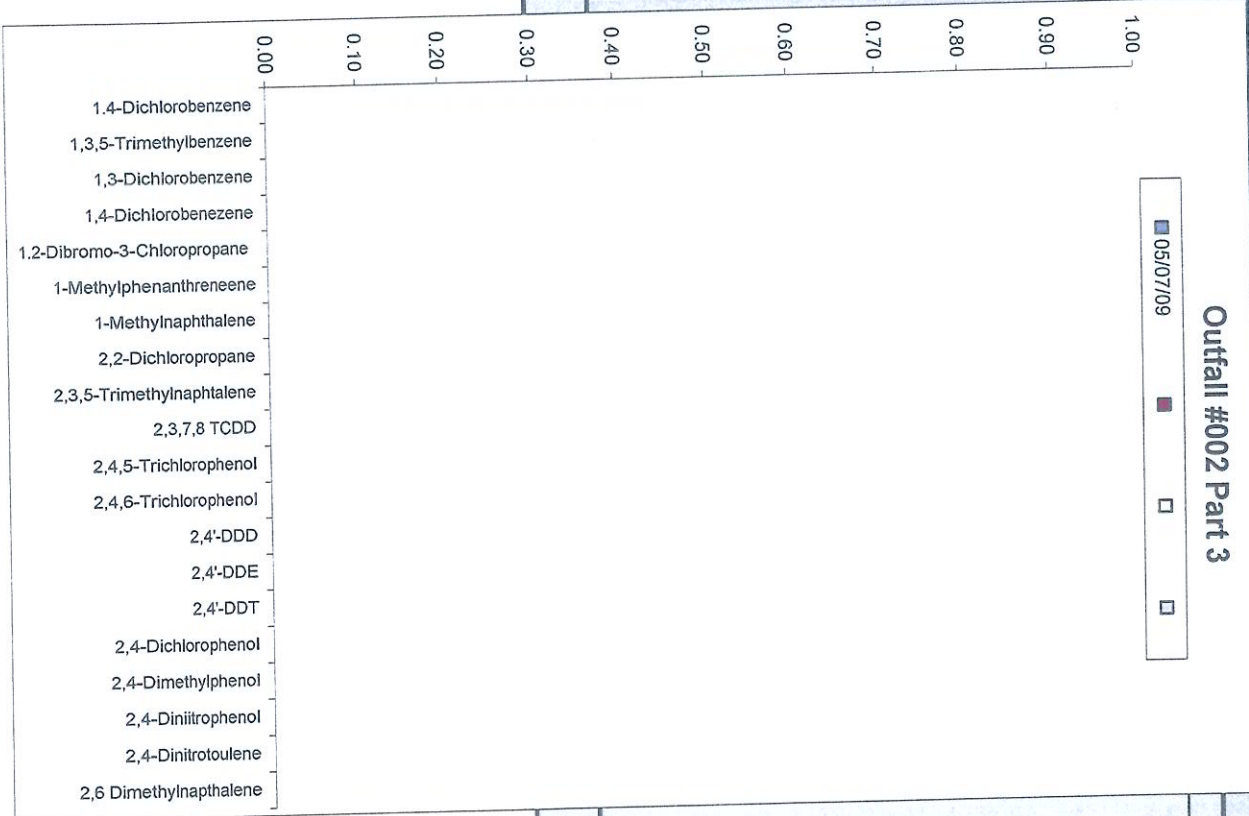


Outfall #002 (Part 2)	5/7/09						
1,1,1,2-Tetrachloroethane	ND						
1,1,1-Trichloroethane	ND						
1,1,2,2-Tetrachloroethane							
1,1,2-Trichloroethane	ND						
1,1 Dichloroethane	ND						
1,1 Dichloroethene	ND						
1,1 Dichloroethylene							
1,1-Dichloropropane							
1,2,3-Trichlorobenzene							
1,2,3-Trichloropropane							
1,2,4-Trimethylbenzene							
1,2,4-Trichlorobenzene							
1,2-Dibromoethane							
1,2-Dibromo-3-Chloropropane							
1,2-Dichlorobenzene	ND						
1,2-Dichlorobezene							
1,2-Dichloroethane	ND						
1,2-Diphenylhydrazine	ND						
1,2-Trans Dichloroethylene							
1,2-Dichloropropane	ND						



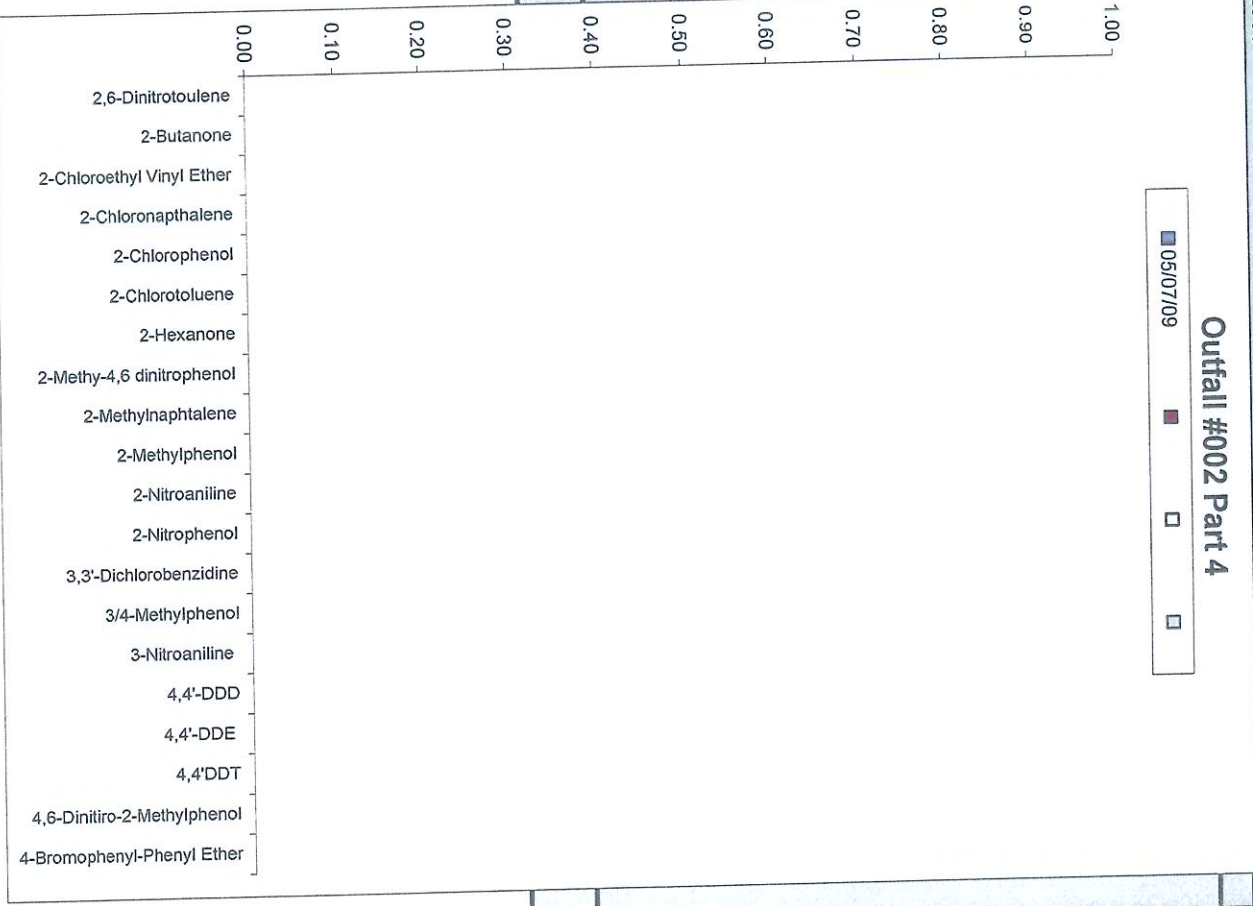
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Outfall #002 (Part 3)	05/07/09				
1,4-Dichlorobenzene	ND				
1,3,5-Trimethylbenzene					
1,3-Dichlorobenzene	ND				
1,4-Dichlorobenzene					
1,2-Dibromo-3-Chloropropane					
1-Methylphenanthreneene					
1-Methylnaphthalene					
2,2-Dichloropropane					
2,3,5-Trimethylnaphthalene					
2,3,7,8 TCDD	ND				
5-Trichlorophenol					
2,4,6-Trichlorophenol	ND				
2,4-DDD					
2,4-DDE					
2,4-DDT					
2,4-Dichlorophenol	ND				
2,4-Dimethylphenol	ND				
2,4-Dinitrophenol	ND				
2,4-Dinitrotoulene	ND				
2,6 Dimethylnaphthalene					



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Outfall #002 (Part 4)	05/07/09				
2,6-Dinitrotoulene	ND				
2-Butanone	ND				
2-Chloroethyl Vinyl Ether	ND				
2-Chloronaphthalene	ND				
2-Chlorophenol	ND				
2-Chlorotoluene					
2-Hexanone	ND				
2-Methy-4,6 dinitrophenol					
2-Methylnaphthalene					
2-Methylphenol					
2-Nitroaniline	ND				
2-Nitrophenol	ND				
3,3'-Dichlorobenzidine	ND				
3/4-Methylphenol					
3-Nitroaniline	ND				
4,4'-DDD	ND				
4,4'-DDE	ND				
4,4'DDT	ND				
4,6-Dinitiro-2-Methylphenol	ND				
4-Bromophenyl-Phenyl Ether	ND				

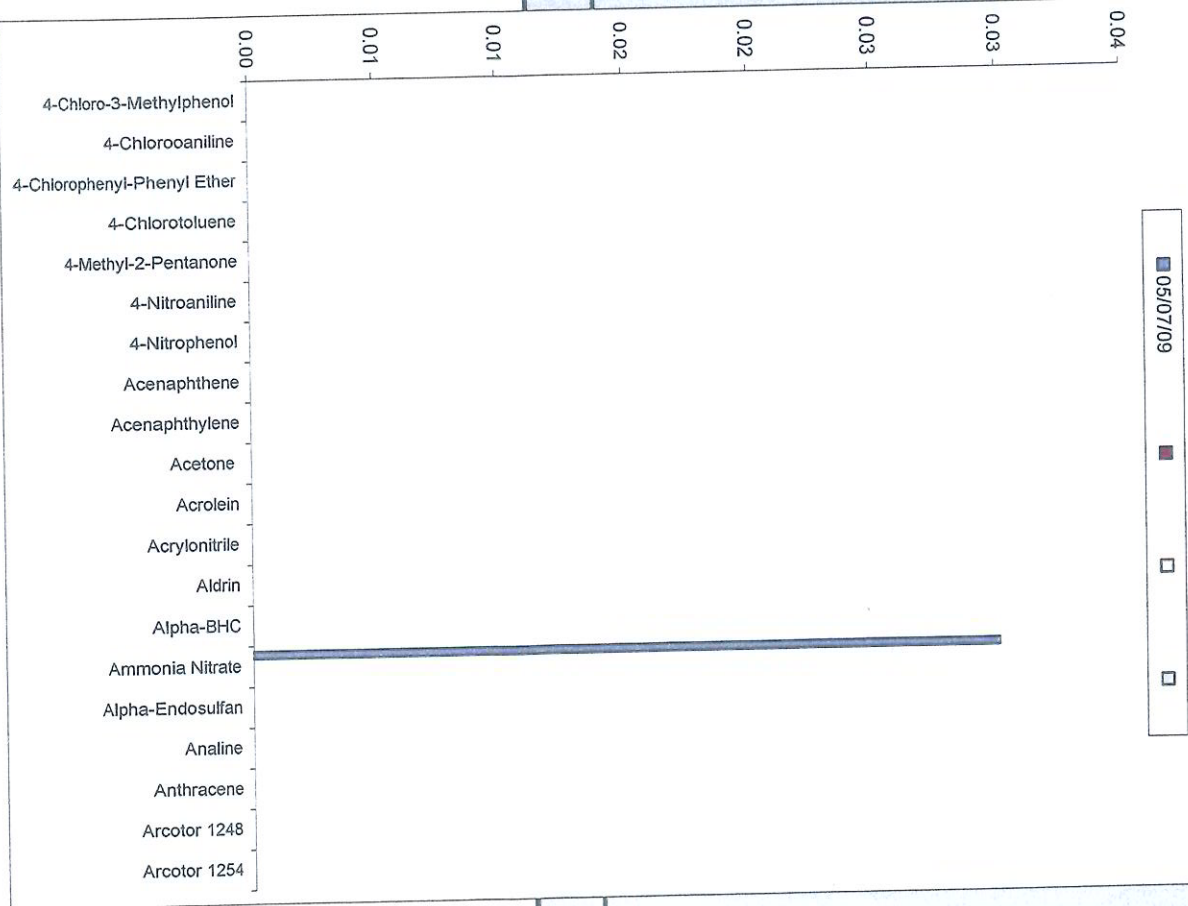




Outfall #002 (Part 5)

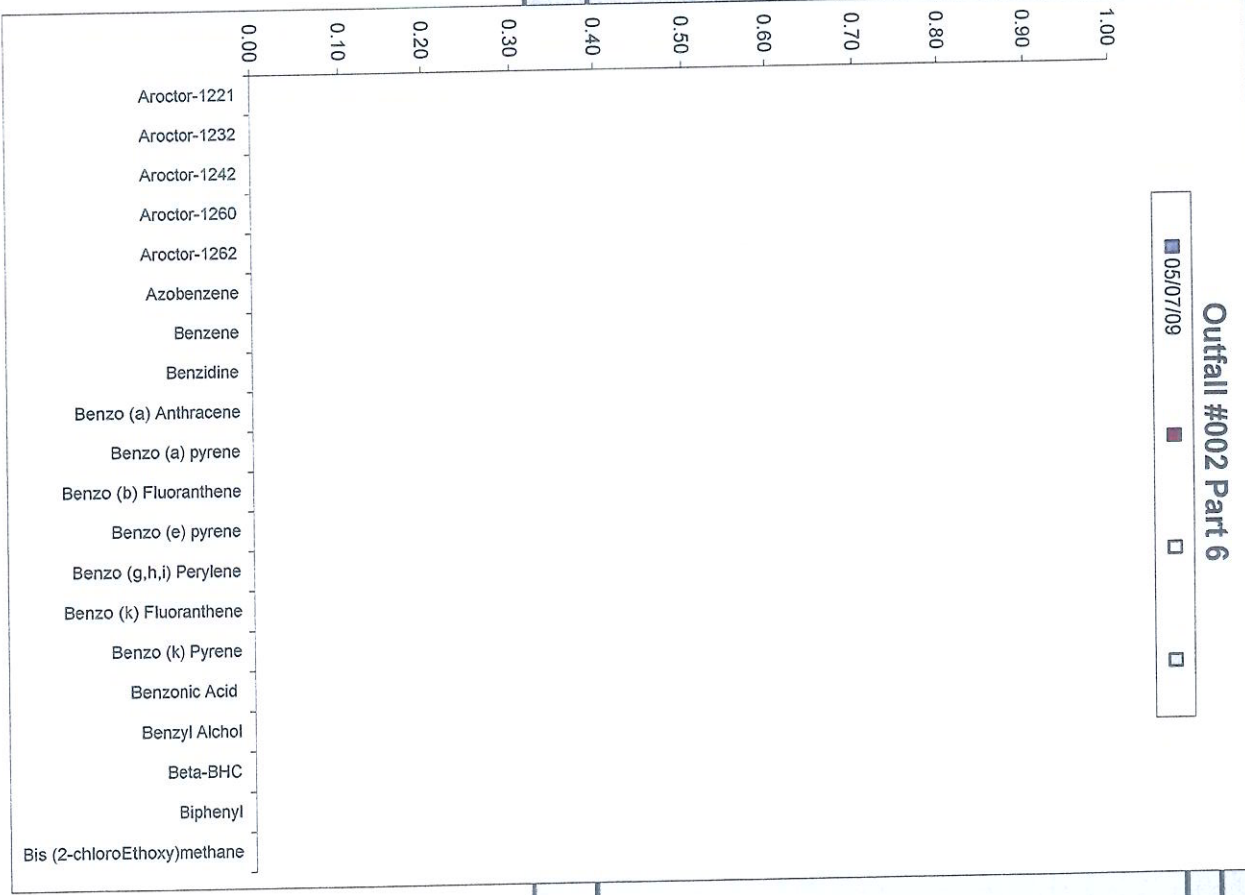
Compound	Date	Concentration
4-Chloro-3-Methylphenol	05/07/09	ND
4-Chloroaniline		
4-Chlorophenyl-Phenyl Ether		ND
4-Chlorotoluene		
4-Methyl-2-Pentanone		
4-Nitroaniline		ND
4-Nitrophenol		ND
Acenaphthene		ND
Acenaphthylene		ND
Acetone		ND
Acrolein		ND
Acrylonitrile		ND
Aldrin		ND
Alpha-BHC		ND
Ammonia Nitrate		0.03
Alpha-Endosulfan		
Aniline		ND
Anthracene		ND
Arcotor 1248		ND
Arcotor 1254		ND
Aroclor-1016		ND

Outfall #002 Part 5



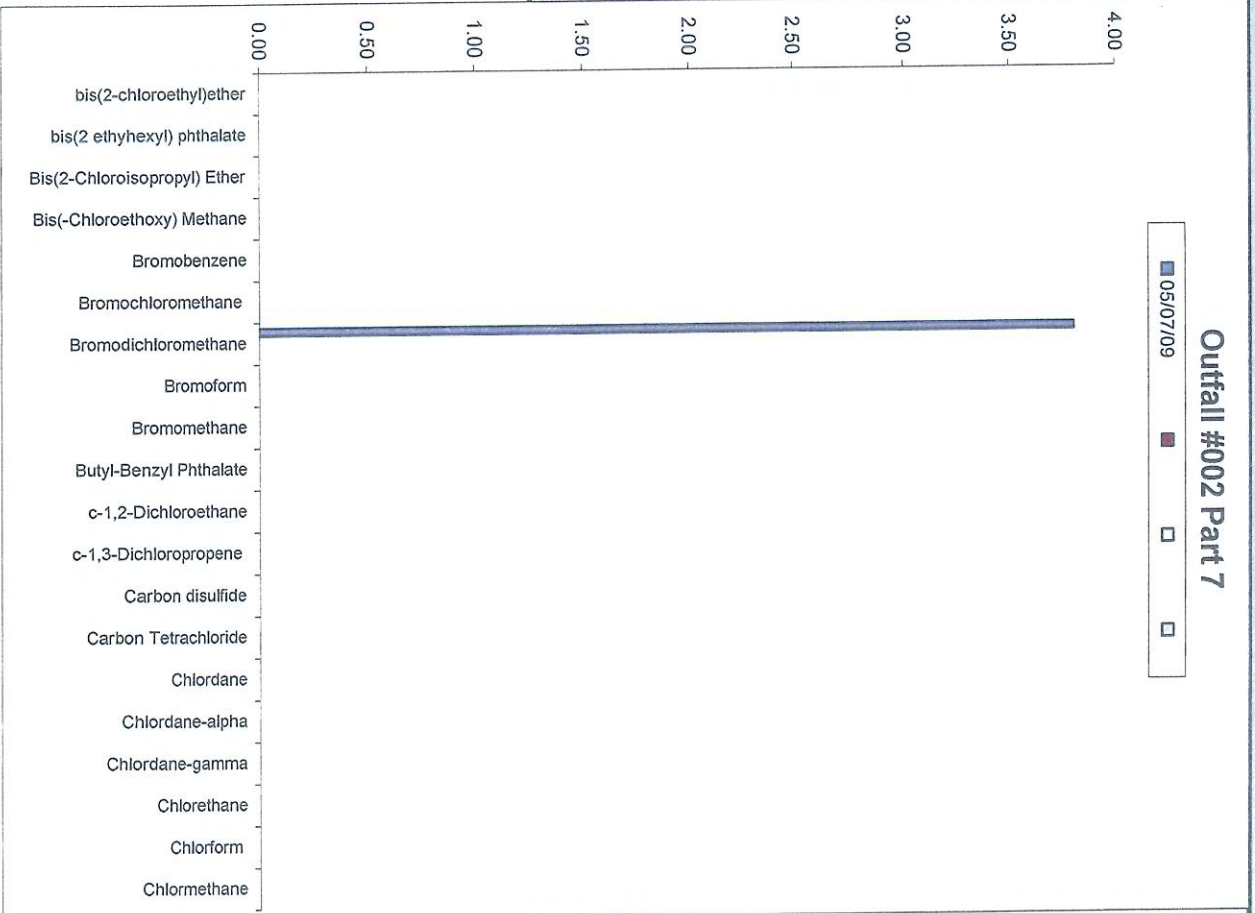
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Outfall #002 (Part 6)	05/07/09				
Aroclor-1221	ND				
Aroclor-1232	ND				
Aroclor-1242	ND				
Aroclor-1260	ND				
Aroclor-1262					
Azobenzene	ND				
Benzene	ND				
Benzidine	ND				
Benzo (a) Anthracene	ND				
Benzo (a) pyrene	ND				
Benzo (b) Fluoranthene	ND				
Benzo (e) pyrene	ND				
Benzo (g,h,i) Perylene	ND				
Benzo (k) Fluoranthene	ND				
Benzo (k) Pyrene					
Benzoic Acid					
Benzyl Alcohol	ND				
Beta-BHC					
Biphenyl					
Bis (2-chloroEthoxy)methane	ND				



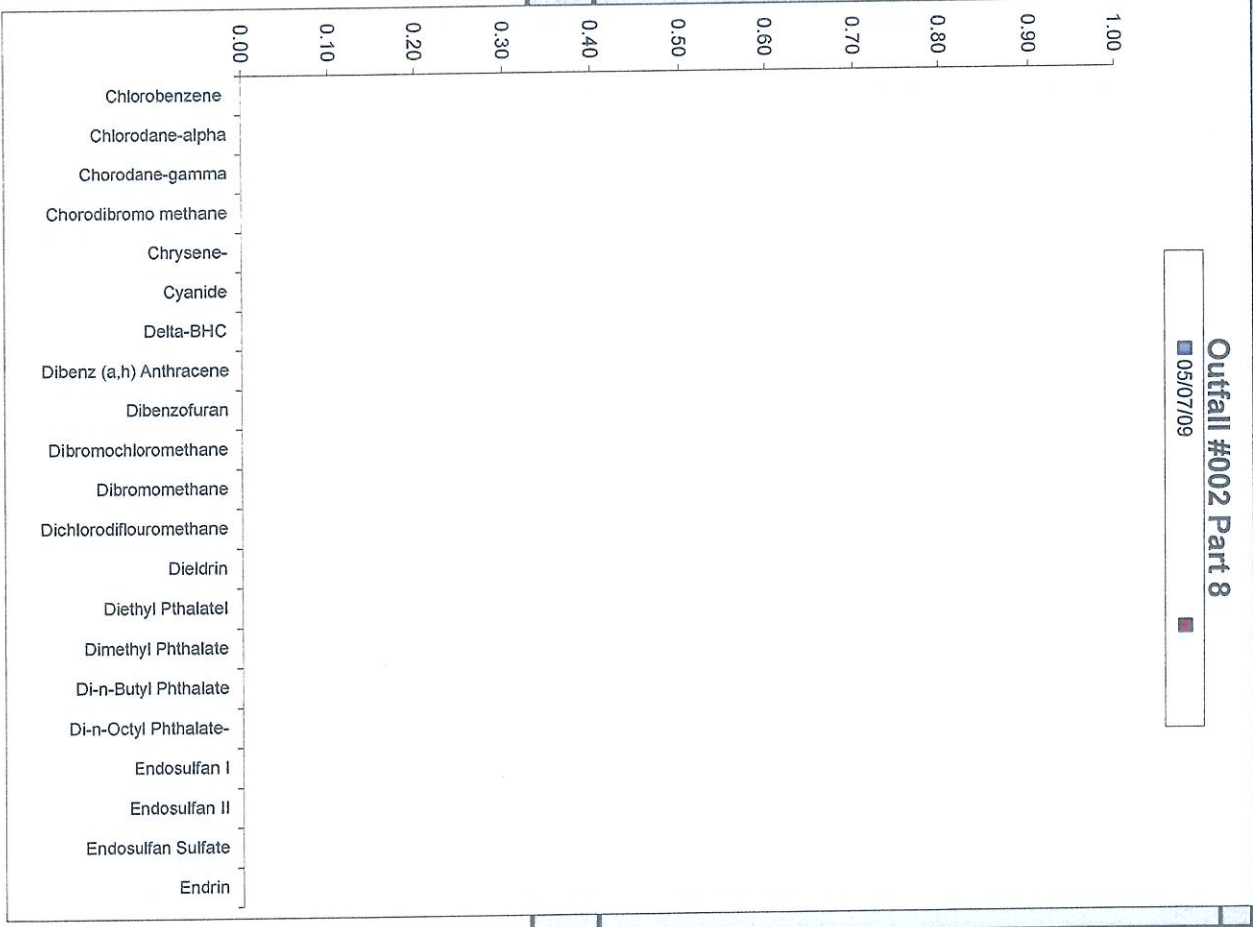
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Outfall #002 (Part 7)	05/07/09				
bis(2-chloroethyl)ether	ND				
bis(2 ethylhexyl) phthalate	ND				
Bis(2-Chloroisopropyl) Ether	ND				
Bis(-Chloroethoxy) Methane					
Bromobenzene	ND				
Bromochloromethane	3.80				
Bromodichloromethane	ND				
Bromoform	ND				
Bromomethane	ND				
Butyl-Benzyl Phthalate	ND				
c-1,2-Dichloroethane	ND				
c-1,3-Dichloropropene	ND				
Carbon disulfide	ND				
Carbon Tetrachloride	ND				
Chlordane	ND				
Chlordane-alpha					
Chlordane-gamma					
Chlorethane	ND				
Chlorform	ND				
Chlormethane	ND				



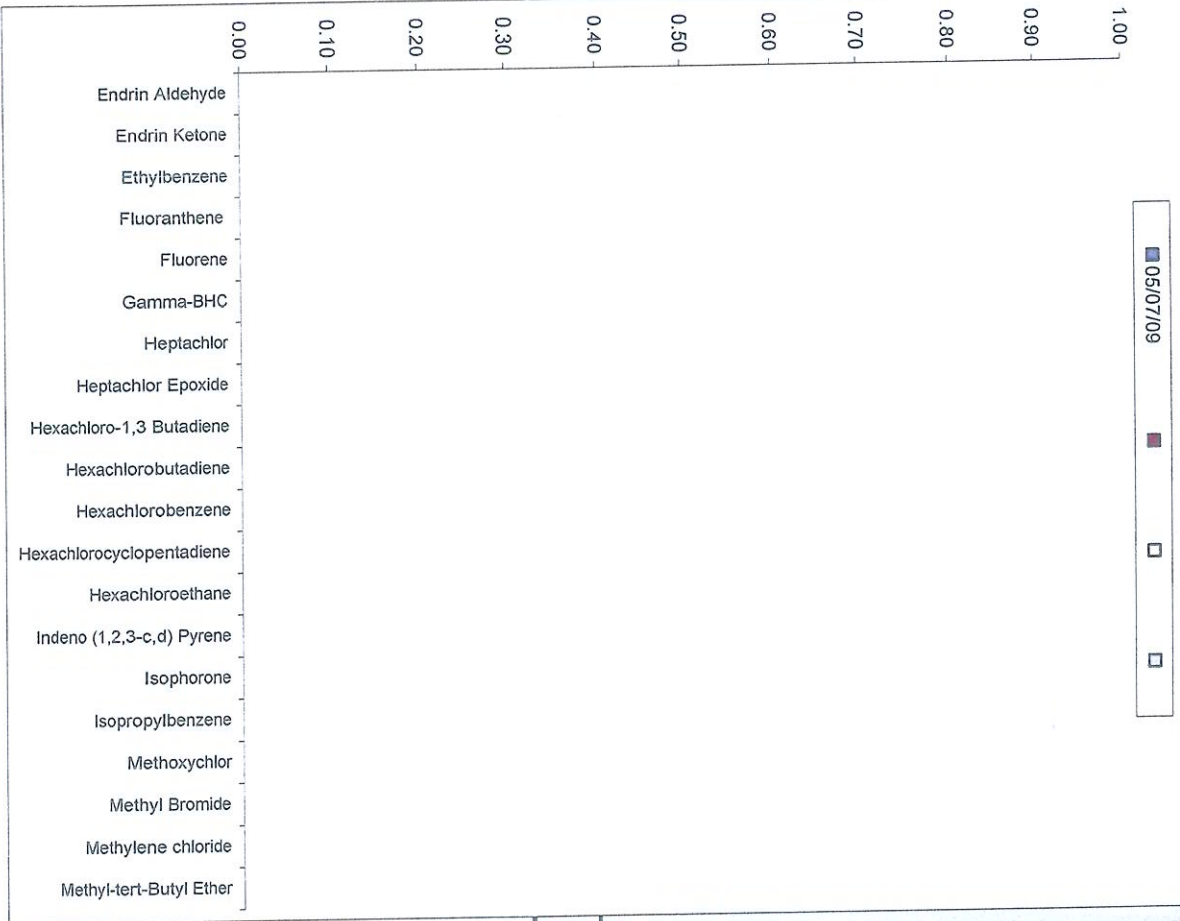
El Segundo Power, LLC  
ANNUAL REPORT  
2009

Outfall #002 (Part 8)	05/07/09				
Chlorobenzene	ND				
Chlorodane-alpha					
Chlorodane-gamma					
Chlorodibromo methane					
Chrysene-	ND				
Cyanide	ND				
Delta-BHC	ND				
Dibenz (a,h) Anthracene	ND				
Dibenzofuran					
Dibromochloromethane	ND				
Dibromomethane	ND				
Dichlorodifluoromethane	ND				
Dieldrin	ND				
Diethyl Phthalate	ND				
Dimethyl Phthalate	ND				
Di-n-Butyl Phthalate	ND				
Di-n-Octyl Phthalate-	ND				
Endosulfan I	ND				
Endosulfan II	ND				
Endosulfan Sulfate	ND				
Endrin	ND				



Outfall #002 Part 9

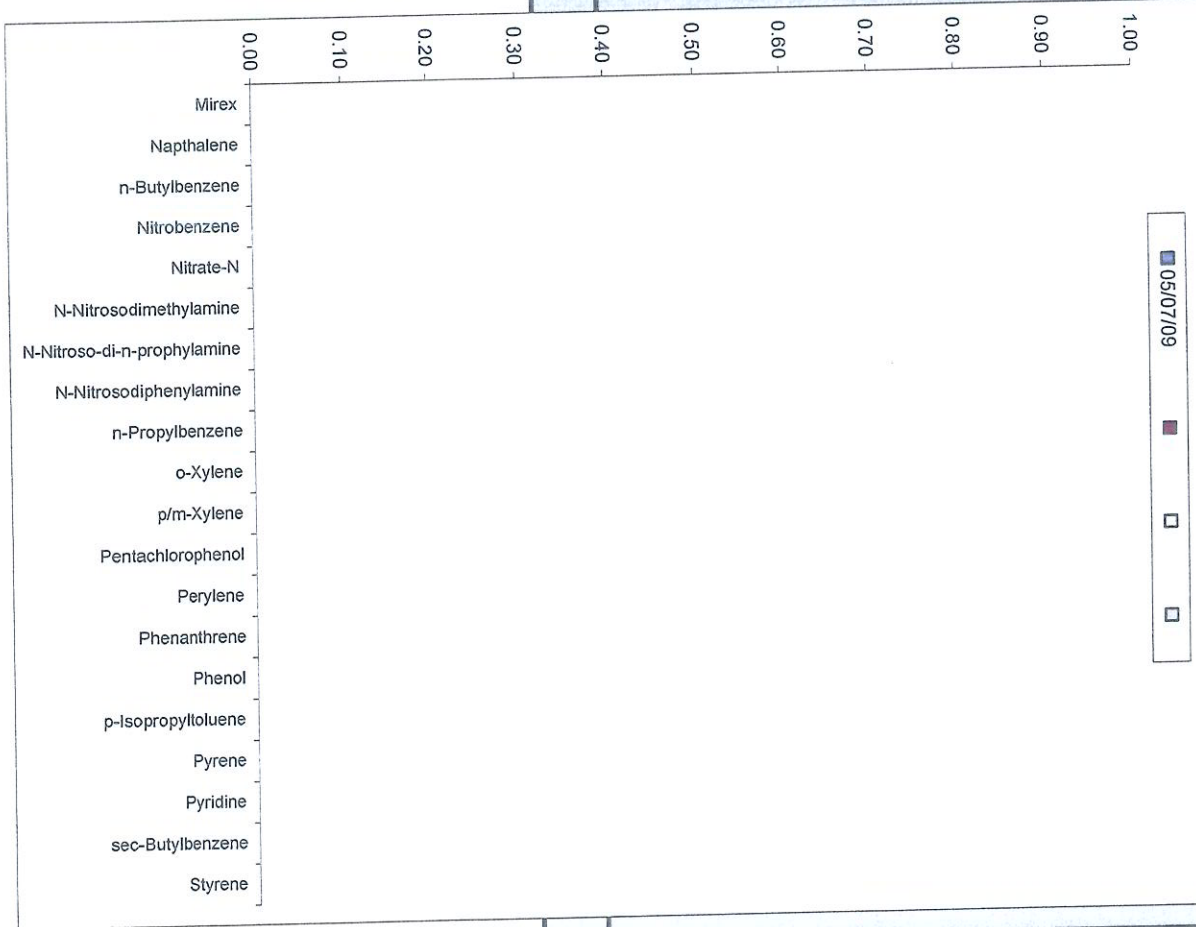
Outfall #002 (Part 9)	05/07/09				
Endrin Aldehyde	ND				
Endrin Ketone	ND				
Ethylbenzene	ND				
Fluoranthene	ND				
Fluorene	ND				
Gamma-BHC	ND				
Heptachlor	ND				
Heptachlor Epoxide	ND				
Hexachloro-1,3 Butadiene	ND				
Hexachlorobutadiene	ND				
Hexachlorobenzene	ND				
Hexachlorocyclopentadiene	ND				
Hexachloroethane	ND				
Indeno (1,2,3-c,d) Pyrene	ND				
Isophorone	ND				
Isopropylbenzene	ND				
Methoxychlor	ND				
Methyl Bromide	ND				
Methylene chloride	ND				
Methyl-tert-Butyl Ether	ND				



Outfall #002 (Part 10)

Compound	05/07/09				
Mirex	ND				
Napthalene	ND				
n-Butylbenzene	ND				
Nitrobenzene	ND				
Nitrate-N	ND				
N-Nitrosodimethylamine	ND				
N-Nitroso-di-n-propylamine	ND				
N-Nitrosodiphenylamine	ND				
n-Propylbenzene	ND				
o-Xylene	ND				
p-Xylene	ND				
Pentachlorophenol	ND				
Perylene	ND				
Phenanthrene	ND				
Phenol	ND				
p-Isopropyltoluene	ND				
Pyrene	ND				
Pyridine					
sec-Butylbenzene					
Styrene					

Outfall #002 Part 10



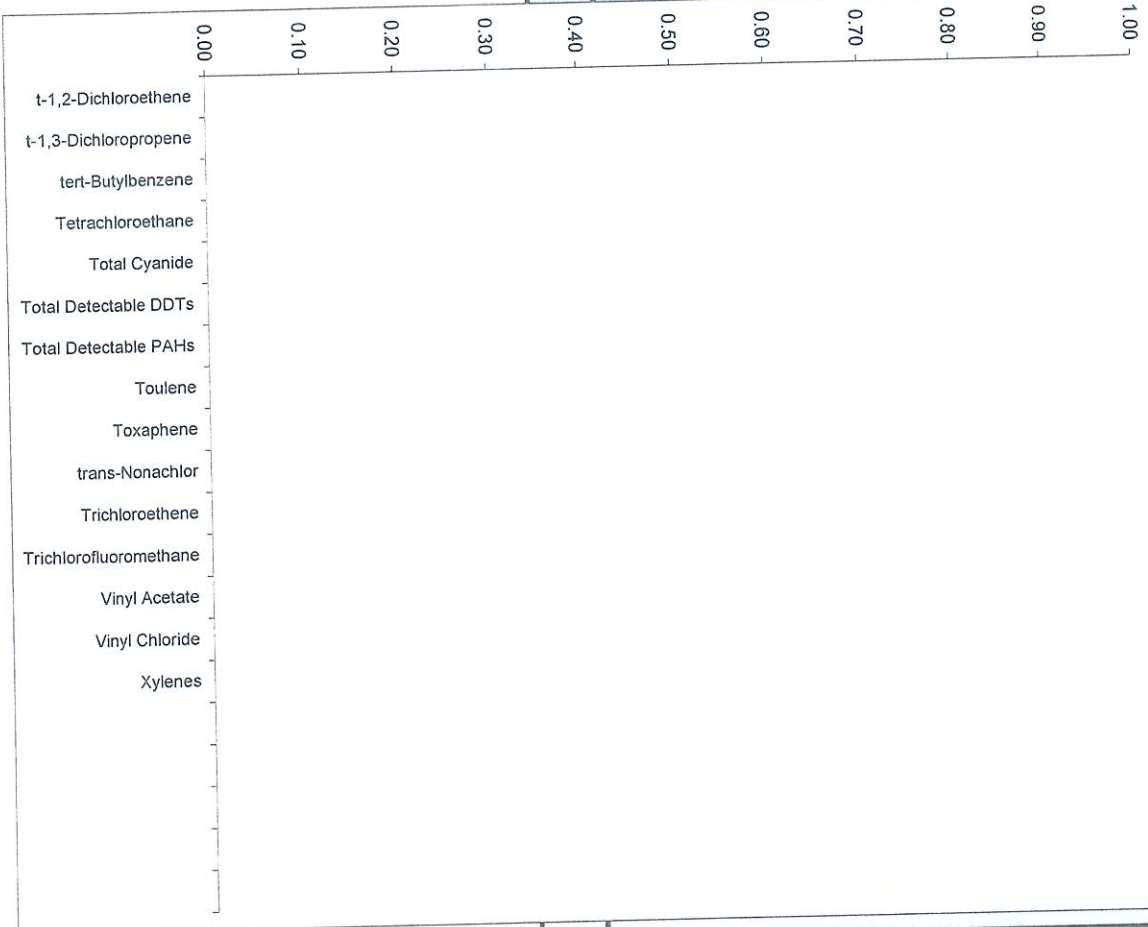
El Segundo Power, LLC  
ANNUAL REPORT  
2009

Outfall #002 (Part 11)

Outfall #002 (Part 11)	05/07/09				
t-1,2-Dichloroethene	ND				
t-1,3-Dichloropropene	ND				
tert-Butylbenzene					
Tetrachloroethane	ND				
Total Cyanide					
Total Detectable DDTs					
Total Detectable PAHs					
Toulene	ND				
Toxaphene	ND				
trans-Nonachlor					
Trichloroethene	ND				
Trichlorofluoromethane					
Vinyl Acetate					
Vinyl Chloride	ND				
Xylenes	ND				

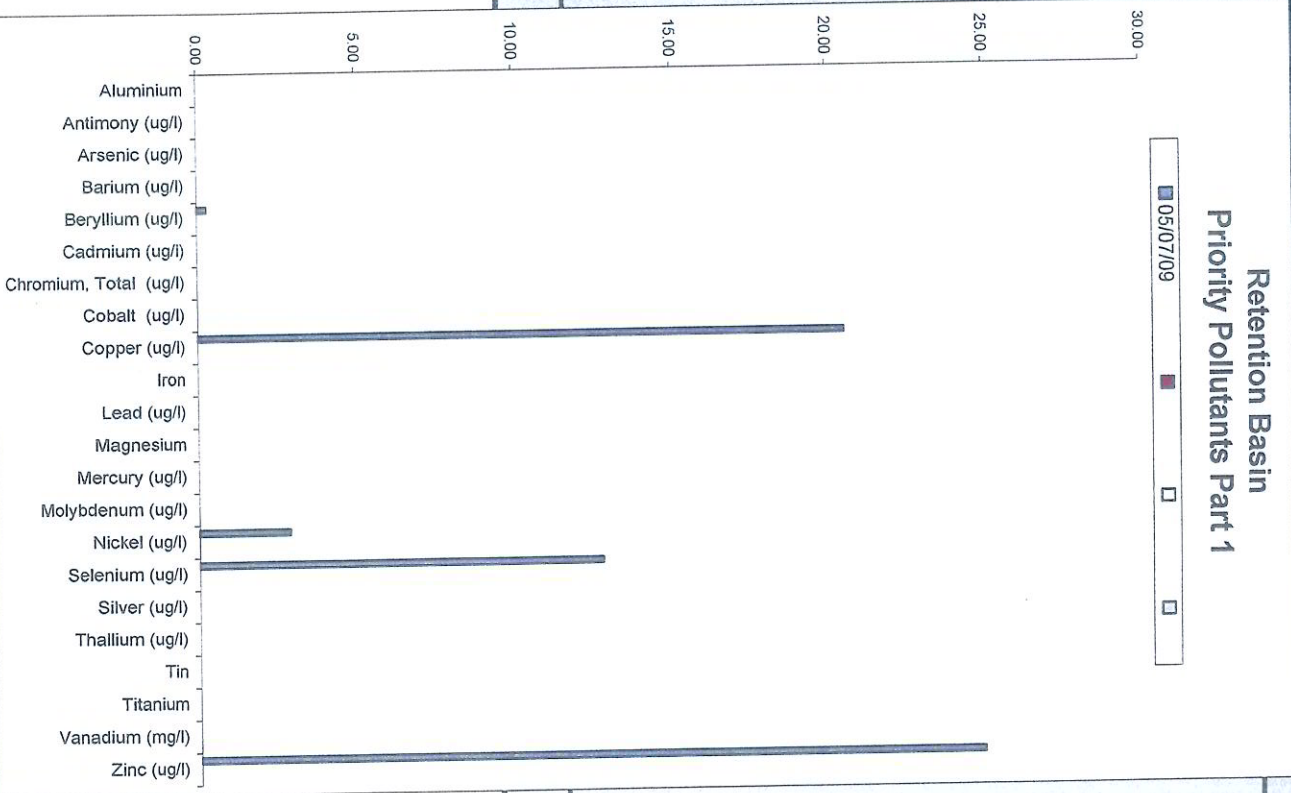
Outfall #002 Part 11

05/07/09



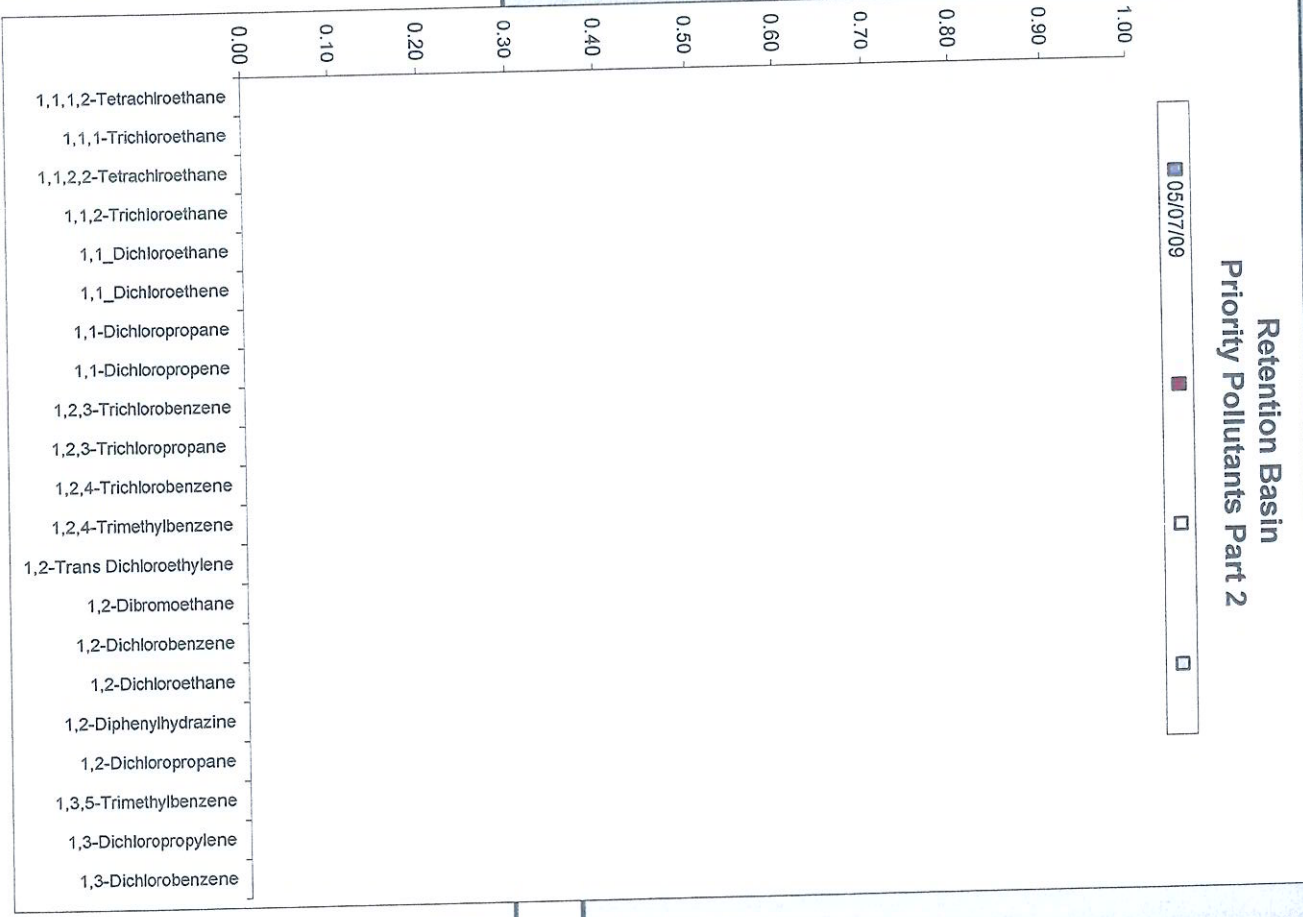
Retention Basin (Part 1)	05/07/09
Aluminium	ND
Antimony (ug/l)	ND
Arsenic (ug/l)	ND
Barium (ug/l)	0.32
Beryllium (ug/l)	ND
Cadmium (ug/l)	ND
Chromium, Total (ug/l)	ND
Cobalt (ug/l)	20.50
Copper (ug/l)	ND
Lead (ug/l)	0.00
Magnesium	ND
Mercury (ug/l)	ND
Molybdenum (ug/l)	2.90
Nickel (ug/l)	12.90
Selenium (ug/l)	ND
Silver (ug/l)	ND
Thallium (ug/l)	ND
Tin	
Titanium	
Vanadium (mg/l)	25.00
Zinc (ug/l)	

Note: Reporting limit inside of parentheses

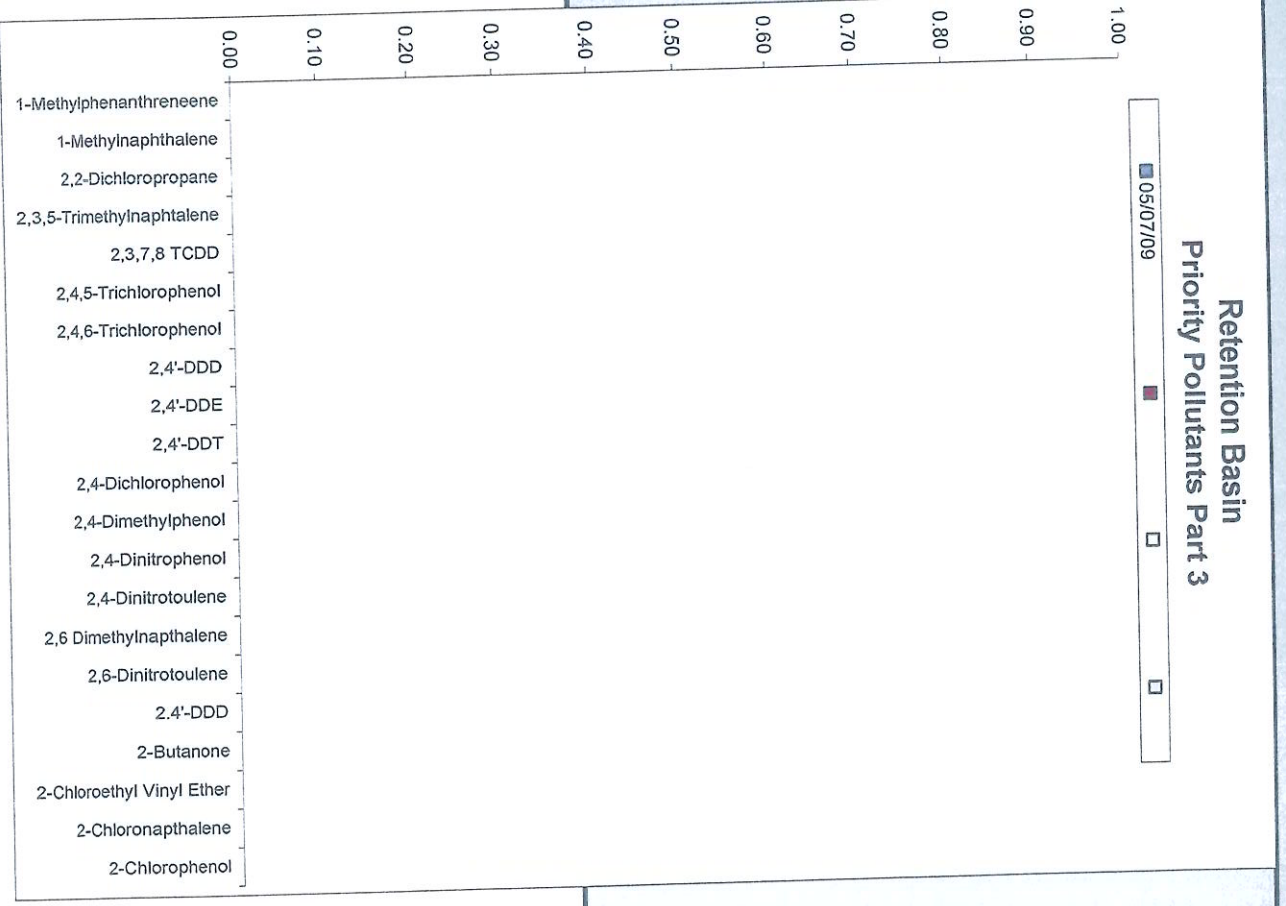




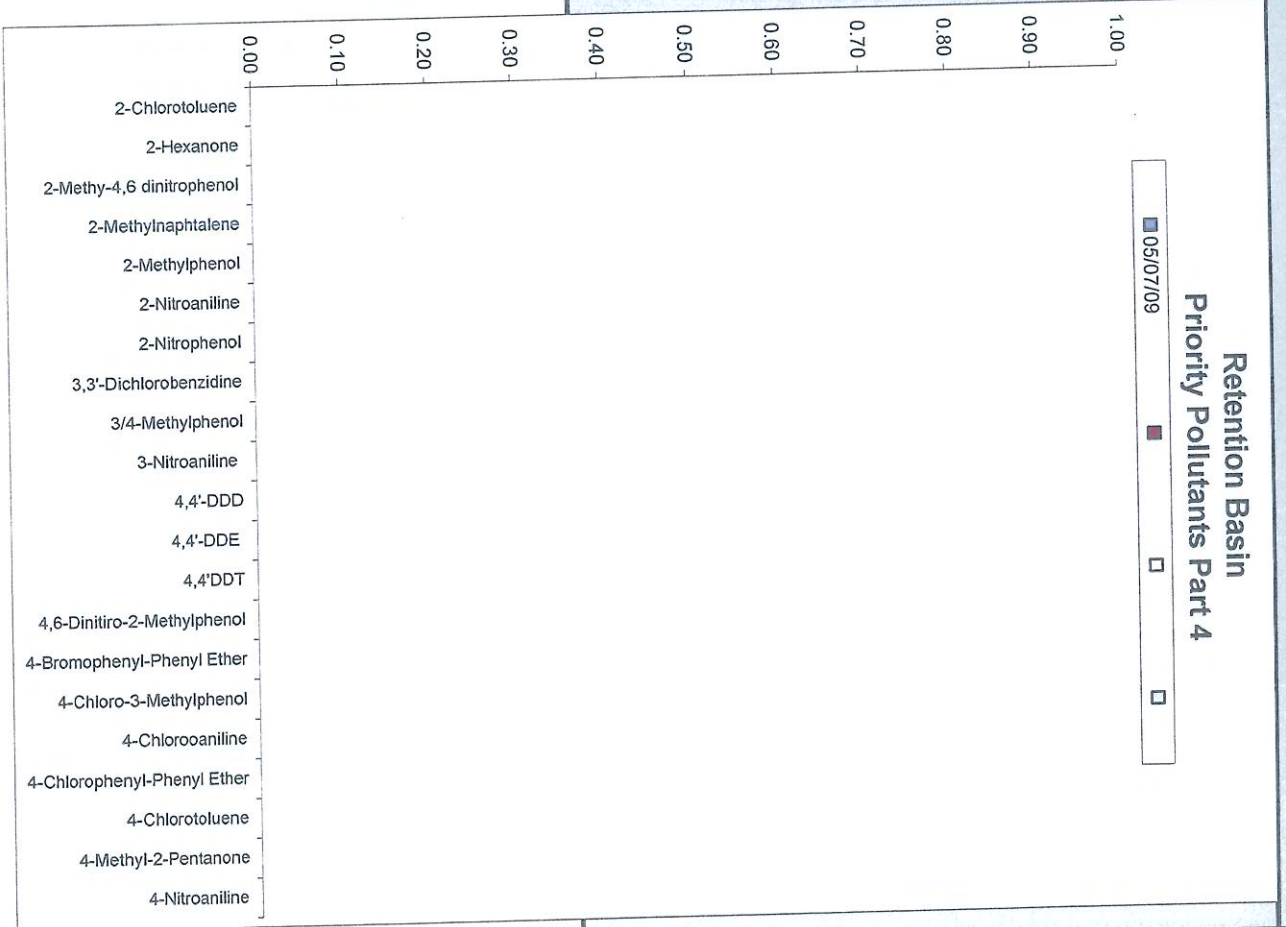
Retention Basin (Part 2)	05/07/09
1,1,1,2-Tetrachloroethane	ND
1,1,1-Trichloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,1,2-Trichloroethane	ND
1,1 Dichloroethane	ND
1,1 Dichloroethane	ND
1,1-Dichloropropane	
1,1-Dichloropropene	
1,2,3-Trichlorobenzene	
1,2,3-Trichloropropane	
1,2,4-Trichlorobenzene	
1,2,4-Trimethylbenzene	
1,2-Trans Dichloroethylene	
1,2-Dibromoethane	
1,2-Dichlorobenzene	
1,2-Dichloroethane	
1,2-Diphenylhydrazine	
1,2-Dichloropropane	
1,3,5-Trimethylbenzene	
1,3-Dichloropropylene	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
1,2-Dibromo-3-Chloropropane	



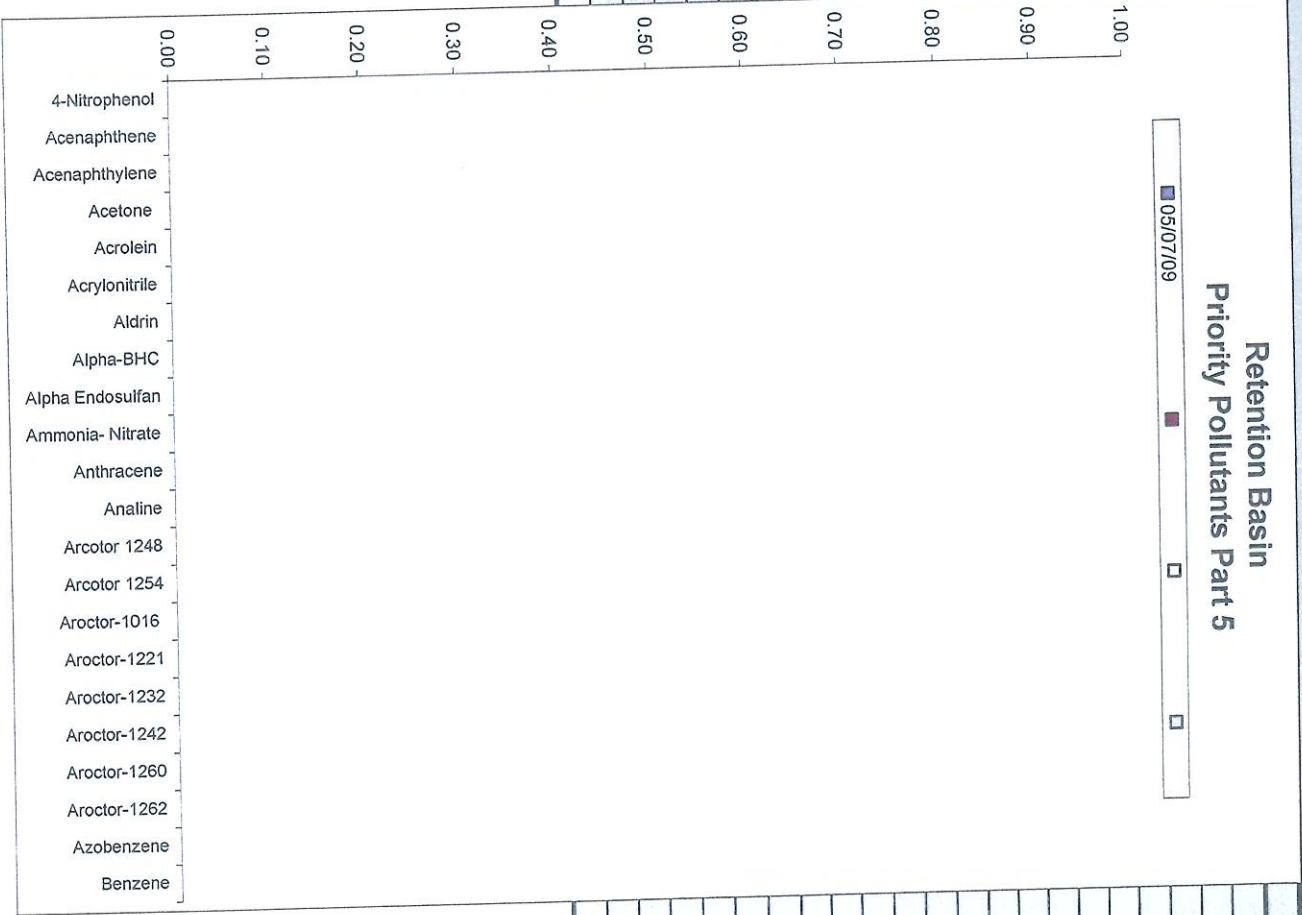
Retention Basin (Part 3)	05/07/09
1-Methylphenanthreneene	
1-Methylnaphthalene	
2,2-Dichloropropane	
2,3,5-Trimethylnaphthalene	
2,3,7,8 TCDD	ND
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	ND
2,4-DDD	
2,4'-DDE	
2,4'-DDT	
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND
2,4-Dinitrotoulene	ND
2,6 Dimethylnaphthalene	
2,6-Dinitrotoulene	ND
2,4'-DDD	
2-Butanone	
2-Chloroethyl Vinyl Ether	ND
2-Chloronaphthalene	ND
2-Chlorophenol	ND



Retention Basin (Part 4)	05/07/09
2-Chlorotoluene	
2-Hexanone	
2-Methy-4,6 dinitrophenol	
2-Methylnaphthalene	
2-Methylphenol	
2-Nitroaniline	
2-Nitrophenol	
3,3'-Dichlorobenzidine	
3/4-Methylphenol	
4-Nitroaniline	
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
4,6-Dinitro-2-Methylphenol	ND
4-Bromophenyl-Phenyl Ether	ND
4-Chloro-3-Methylphenol	ND
4-Chloroaniline	
4-Chlorophenyl-Phenyl Ether	ND
4-Chlorotoluene	
4-Methyl-2-Pentanone	
4-Nitroaniline	



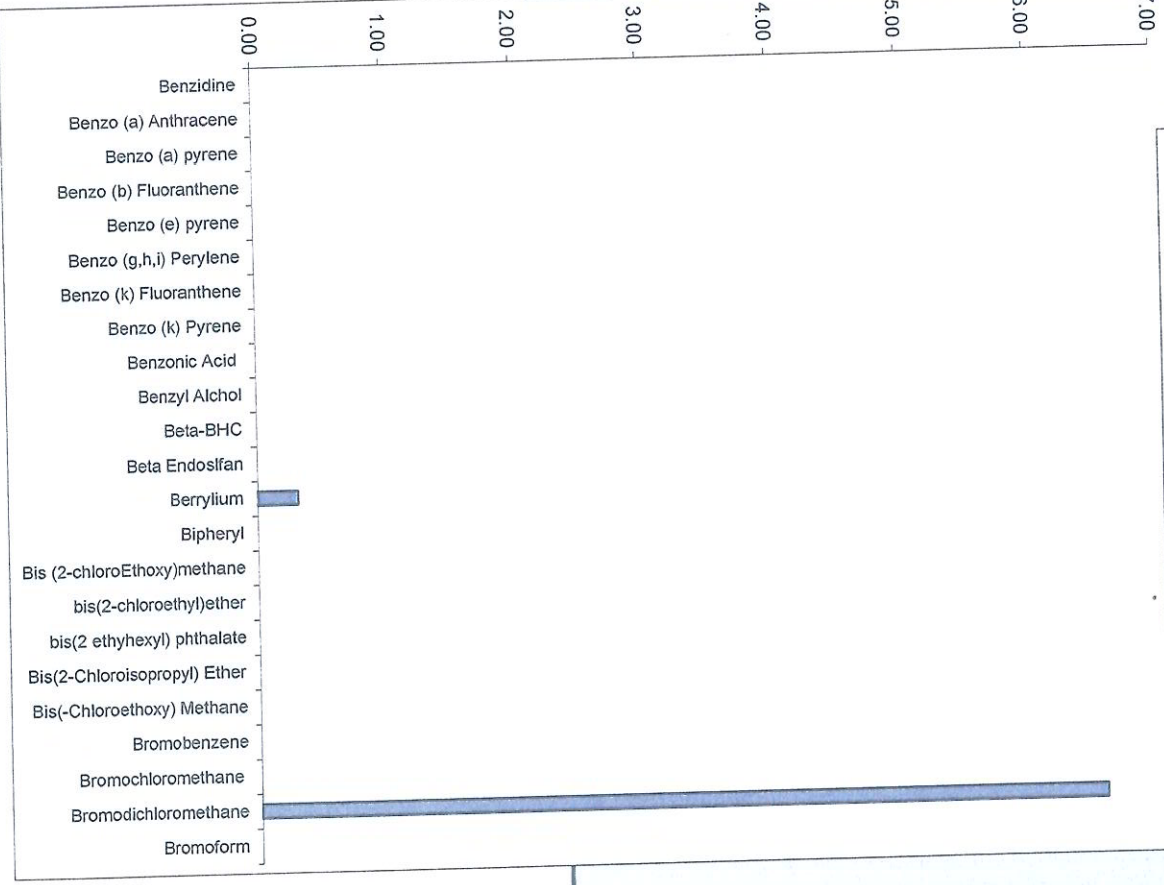
Retention Basin (Part 5)	05/07/09
4-Nitrophenol	ND
Acenaphthene	ND
Acenaphthylene	ND
Acetone	ND
Acrolein	ND
Acrylonitrile	ND
Aldrin	ND
Alpha-BHC	ND
Alpha Endosulfan	ND
Ammonia- Nitrate	ND
Anthracene	ND
Aniline	ND
Aroclor 1248	ND
Aroclor 1254	ND
Aroclor-1016	ND
Aroclor-1221	ND
Aroclor-1232	ND
Aroclor-1242	ND
Aroclor-1260	ND
Aroclor-1262	ND
Azobenzene	ND
Benzene	ND



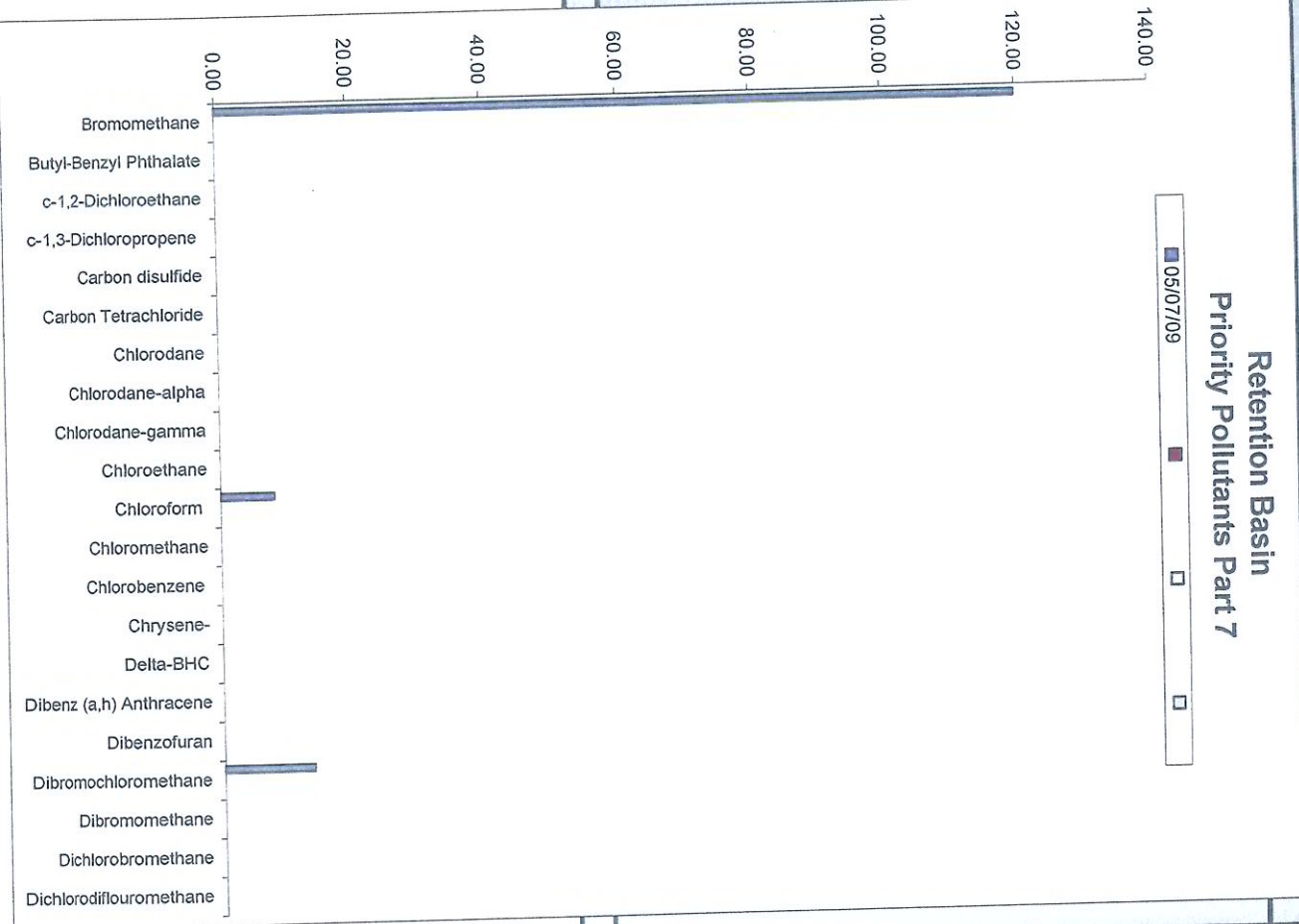
Retention Basin (Part 6)	05/07/09
Benzidine	ND
Benzo (a) Anthracene	ND
Benzo (a) pyrene	ND
Benzo (b) Fluoranthene	ND
Benzo (e) pyrene	ND
Benzo (g,h,i) Perylene	ND
Benzo (k) Fluoranthene	ND
Benzo (k) Pyrene	ND
Benzoic Acid	ND
Benzyl Alcohol	ND
Beta-BHC	ND
Beta Endosulfan	0.32
Beryllium	ND
Biphenyl	ND
Bis (2-chloroEthoxy)methane	ND
bis(2-chloroethyl)ether	ND
bis(2 ethylhexyl) phthalate	ND
Bis(2-Chloroisopropyl) Ether	ND
Bis(-Chloroethoxy) Methane	ND
Bromobenzene	ND
Bromochloromethane	6.60
Bromodichloromethane	ND
Bromoform	ND

Retention Basin  
Priority Pollutants Part 6

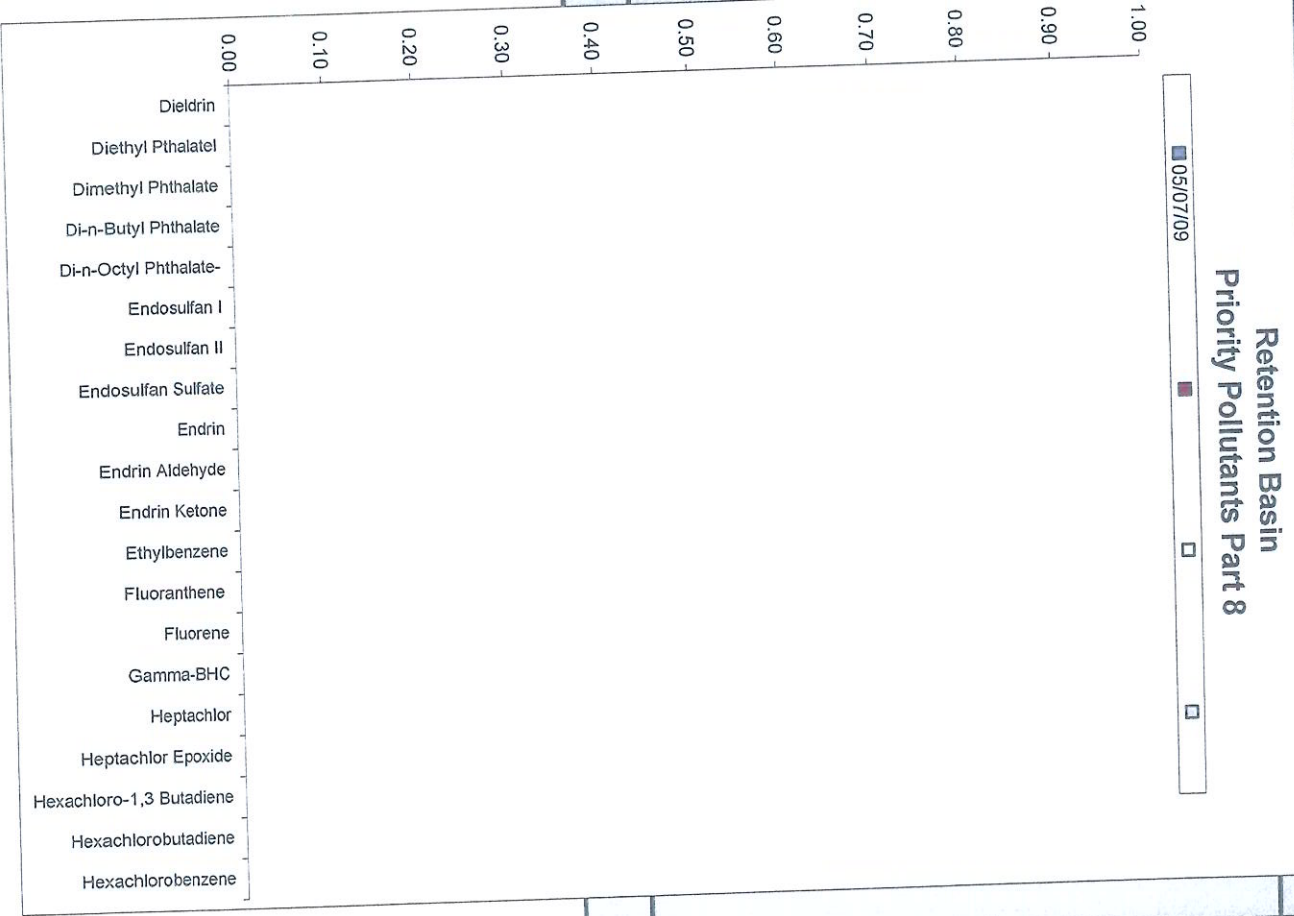
05/07/09



Retention Basin (Part 7)	05/07/09
Bromomethane	120.00
Butyl-Benzyl Phthalate	ND
c-1,2-Dichloroethane	ND
c-1,3-Dichloropropene	ND
Carbon disulfide	ND
Carbon Tetrachloride	ND
Chlorodane	ND
Chlorodane-alpha	ND
Chlorodane-gamma	ND
Chloroethane	8.30
Chloroform	ND
Chloromethane	ND
Chlorobenzene	ND
Chrysene-	ND
Delta-BHC	ND
Dibenz (a,h) Anthracene	ND
Dibenzofuran	14.00
Dibromochloromethane	ND
Dibromomethane	ND
Dichlorobromomethane	ND
Dichlorodifluoromethane	ND

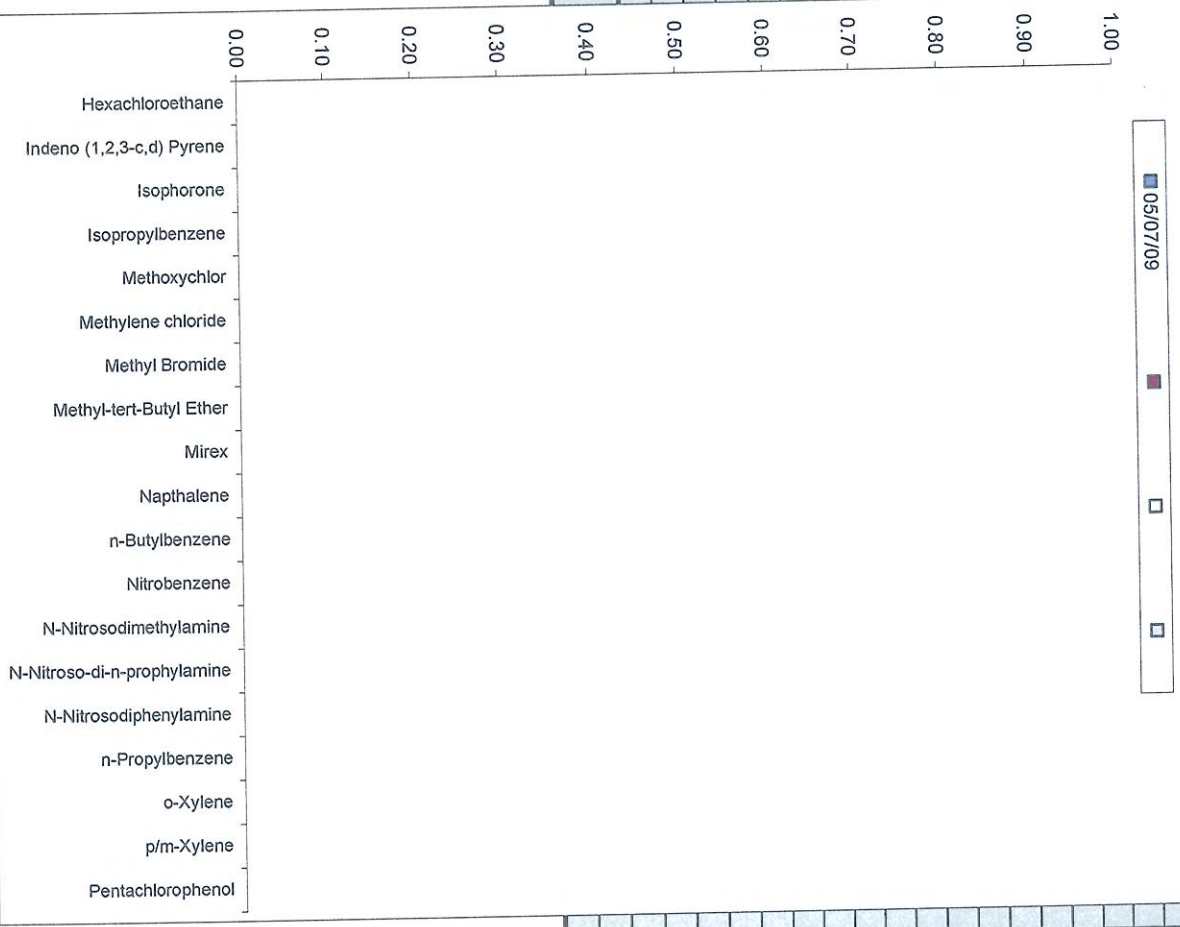


Retention Basin (Part 8)	05/07/09
Dieldrin	ND
Diethyl Phthalate	ND
Dimethyl Phthalate	ND
Di-n-Butyl Phthalate	ND
Di-n-Octyl Phthalate-	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Endrin Ketone	ND
Ethylbenzene	ND
Fluoranthene	ND
Fluorene	ND
Gamma-BHC	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Hexachloro-1,3 Butadiene	ND
Hexachlorobutadiene	ND
Hexachlorobenzene	ND



Retention Basin (Part 9)	05/07/09
Hexachlorocyclopentadiene	ND
Hexachloroethane	ND
Indeno (1,2,3-c,d) Pyrene	ND
Isophorone	ND
Isopropylbenzene	ND
Methoxychlor	ND
Methylene chloride	ND
Methyl Bromide	ND
Methyl-tert-Butyl Ether	ND
Mirex	ND
Napthalene	ND
n-Butylbenzene	ND
Nitrobenzene	ND
N-Nitrosodimethylamine	ND
N-Nitroso-di-n-propylamine	ND
N-Nitrosodiphenylamine	ND
n-Propylbenzene	ND
o-Xylene	ND
p/m-Xylene	ND
Pentachlorophenol	ND

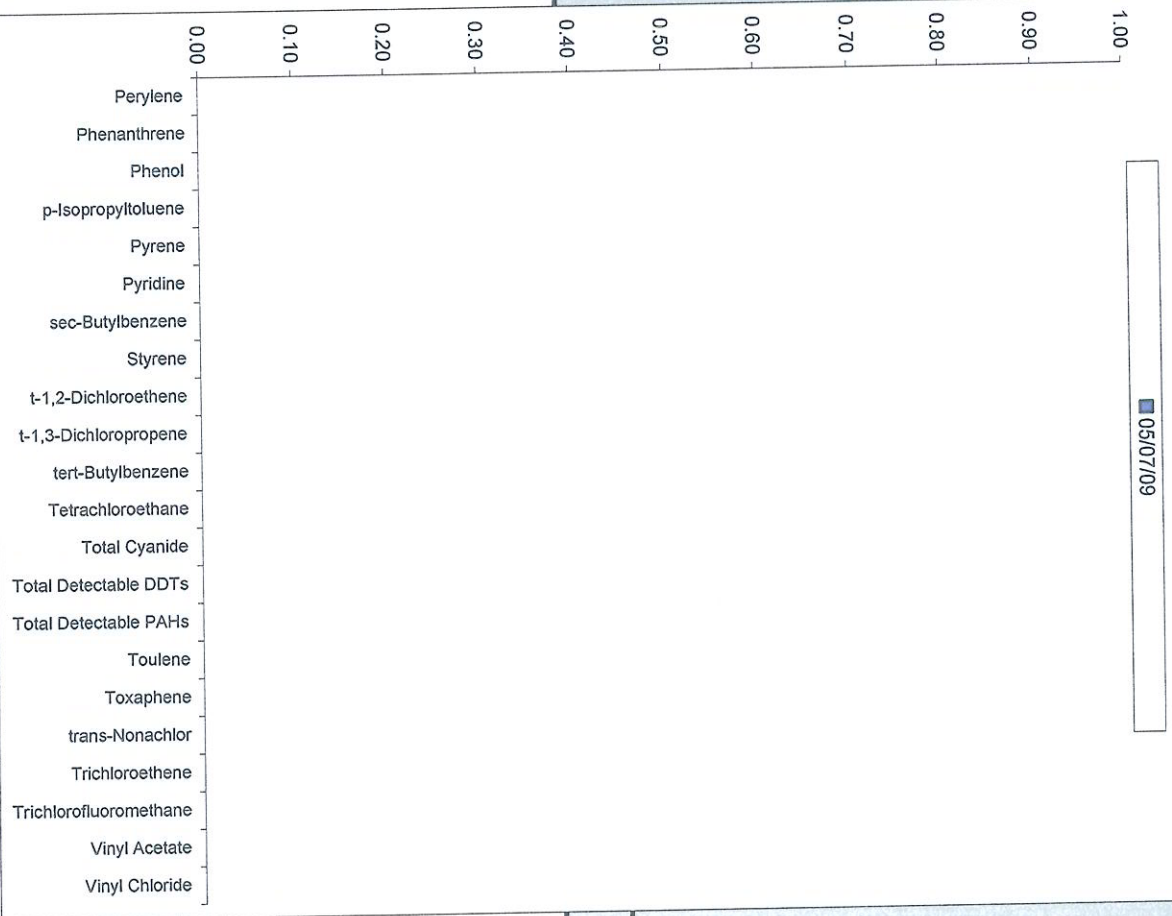
Retention Basin  
 Priority Pollutants Part 9





Retention Basin (Part 10)	05/07/09				
Perylene					
Phenanthrene					
Phenol	ND				
p-Isopropyltoluene					
Pyrene	ND				
Pyridine					
sec-Butylbenzene					
Styrene					
t-1,2-Dichloroethene	ND				
t-1,3-Dichloropropene	ND				
tert-Butylbenzene					
Tetrachloroethane	ND				
Total Cyanide					
Total Detectable DDTs					
Total Detectable PAHs					
Toulene	ND				
Toxaphene	ND				
trans-Nonachlor					
Trichloroethene	ND				
Trichlorofluoromethane	ND				
Vinyl Acetate					
Vinyl Chloride	ND				

Retention Basin  
 Priority Pollutants 10







## ANALYTICAL REPORT

Laboratory Name: Power Production Chemical  
Address: 7301 Fenwick Lane, 2nd Floor  
Westminster, CA 92683-5202

Telephone: (714) 895-0525  
Facsimile: (714) 895-0515

Laboratory Certification (ELAP) No.: 1949 Expires 11/30/11

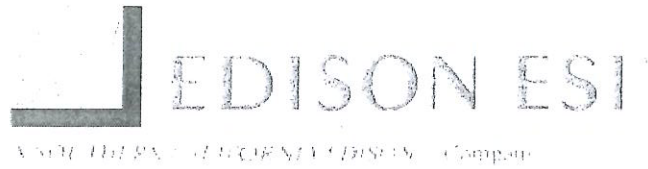
Laboratory Director's Name: Shawn S. Simmons

Laboratory Director's Signature: Shawn S. Simmons 2/3/10  
Date

CLIENT: NRG El Segundo Operations, LLC  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

DATE(S) SAMPLED: January-10  
DATE(S) RECEIVED: January-10

Chain of Custody(ies) Received: Yes



# ANALYTICAL REPORT

## Cover Page 2

	Jan-10	
<u>Inorganic Analyses</u>	<u># of Samples</u>	<u># of Samples Subcontracted</u>
Chlorine - Free Residual, in field	16	0
Chlorine - Total Residual, in field	16	0
Hydrogen Ion (pH)	13	0
Oil and Grease	2	0
Oil and Grease Spike	1	0
Total Suspended Solids (TSS)	2	0
Total Iron	4	0
<u>Organic Analyses</u>		

UNITS 1 AND 2 OUTFALL CHLORINE RESIDUAL SAMPLE NUMBER	ANALYSIS DATE	PARAMETER		RL (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
NaOCI Tank Empty						

UNITS 1 AND 2 OUTFALL ELECTROMETRIC PH SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	RL (pH unit)	RESULT (pH at t°C)
EL-100104-001-pH-1	01/04/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	7.46 at 19°C
EL-100104-001-pH-2	01/04/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	7.41 at 17°C
EL-100111-001-pH	01/11/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.10 at 16°C
EL-100118-001-pH	01/18/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	7.72 at 16°C
EL-100125-001-pH	01/25/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.37 at 16°C

UNITS 3 AND 4 CHLORINE RESIDUAL SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	RL (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
EL-100104-002-Cl	01/04/10	Chlorine Residual	SM 4500-Cl G	0.03	0.12	0.15
EL-100106-002-Cl	01/06/10	Chlorine Residual	SM 4500-Cl G	0.03	0.07	0.09
EL-100108-002-Cl	01/08/10	Chlorine Residual	SM 4500-Cl G	0.03	0.03	0.05
EL-100111-002-Cl	01/11/10	Chlorine Residual	SM 4500-Cl G	0.03	0.06	0.08
EL-100113-002-Cl	01/13/10	Chlorine Residual	SM 4500-Cl G	0.03	0.12	0.14
EL-100115-002-Cl	01/15/10	Chlorine Residual	SM 4500-Cl G	0.03	0.12	0.13
EL-100118-002-Cl-1	01/18/10	Chlorine Residual	SM 4500-Cl G	0.03	0.18	0.20
EL-100118-002-Cl-2	01/18/10	Chlorine Residual	SM 4500-Cl G	0.03	0.18	0.20
EL-100120-002-Cl	01/20/10	Chlorine Residual	SM 4500-Cl G	0.03	0.15	0.19
EL-100122-002-Cl	01/22/10	Chlorine Residual	SM 4500-Cl G	0.03	0.11	0.13
EL-100125-002-Cl-1	01/25/10	Chlorine Residual	SM 4500-Cl G	0.03	0.16	0.19
EL-100125-002-Cl-2	01/25/10	Chlorine Residual	SM 4500-Cl G	0.03	0.17	0.20
EL-100127-002-Cl-1	01/27/10	Chlorine Residual	SM 4500-Cl G	0.03	0.19	0.20
EL-100127-002-Cl-2	01/27/10	Chlorine Residual	SM 4500-Cl G	0.03	0.18	0.20
EL-100129-002-Cl-1	01/29/10	Chlorine Residual	SM 4500-Cl G	0.03	0.18	0.20
EL-100129-002-Cl-2	01/29/10	Chlorine Residual	SM 4500-Cl G	0.03	0.18	0.20

UNITS 3 AND 4 OUTFALL ELECTROMETRIC PH SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	RL (pH unit)	RESULT (pH at t°C)
EL-100104-002-pH	01/04/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.13 at 18°C
EL-100106-002-pH	01/06/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.06 at 19°C
EL-100111-002-pH	01/11/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.18 at 17°C
EL-100118-002-pH	01/18/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.24 at 20°C
EL-100125-002-pH	01/25/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.49 at 19°C

RETENTION BASIN ELECTROMETRIC PH SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	RL (pH unit)	RESULT (pH at t°C)
EL-100104-RB-pH	01/04/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.41 at 18°C
EL-100106-RB-pH	01/06/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.06 at 19°C
EL-100125-RB-pH	01/25/10	Electrometric pH	SM 4500-H <sup>+</sup> B	0.01	8.65 at 16°C

SUSPENDED SOLIDS SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	MDL (mg/L)	RESULT (mg/L)
EL-100106-RB-TSS-1	01/12/10	Total Susp. Solids	SM 2540 D	1.0	3.5
EL-100106-RB-TSS-2	01/12/10	Total Susp. Solids	SM 2540 D	1.0	5.1
Method Blank	01/12/10	Total Susp. Solids	SM 2540 D	1.0	ND

OIL AND GREASE SAMPLE NUMBER	ANALYSIS DATE	PARAMETER	METHOD	MDL (mg/L)	RESULT (mg/L)
EL-100106-RB-OG-2	01/07/10	Oil and Grease	EPA 1664A LLE	1.5	2.8
EL-100106-RB-OG-3	01/07/10	Oil and Grease	EPA 1664A LLE	1.5	2.2
Method Blank	01/07/10	Oil and Grease	EPA 1664A LLE	1.4	ND

Matrix Spike						
Analyte	Date Analyzed	Sample Spiked	Spike Conc. (mg/L)	MS (mg/L)	MS Recovery	Accept. Range
Oil and Grease	01/07/10	EL-100106-RB-OG-1	40.0	36.6	91%	78-114%



POWER PRODUCTION CHEMICAL  
7301 Fenwick Lane, 2<sup>nd</sup> floor, Westminster, CA 92683  
Phone: (714) 895-0525; Fax: (714) 895-0515

**SAMPLE ANALYSIS MEMORANDUM TO:**

Power Production Chemical  
7301 Fenwick Lane, 2<sup>nd</sup> Floor  
Westminster, CA 92683

Sample(s) are submitted for treatment/disposition as described bELow.

Sample ID	Date Collected	Time Collected	Description/Analytes
EL 100106 RB – TSS 1/2	01-06-2010	09:00	1-L plastic for TSS by SM2540C
EL 100106 RB – TSS 2/2	“	“	1-L plastic for TSS by SM2540C
EL 100106 RB – OG 1/2	“	“	1-L glass w/ HCl for Oil and Grease by 1664A
EL 100106 RB – OG 2/3	“	“	1-L glass w/ HCl for Oil and Grease by 1664A
EL 100106 RB – OG 3/3	“	“	1-L glass w/ HCl for Oil and Grease by 1664A

**Sampler:**

Tuan Anh Nguyen	Date: 01-06-2010		
Print Name	Time: 9:00	Signature	

**Chain of Custody:**

	Date:		Date:
RELinquished By	Time:	Received By	Time:
	Date:		Date:
RELinquished By	Time:	Received By	Time:



12 January 2010

Ric Vardel  
Integrated Performance Consultants, Inc.  
P.O. Box 4362  
Mission Viejo, CA 92690

RE:ESGS

Work Order No.: 1001074

Attached are the results of the analyses for samples received by the laboratory on 01/07/10 12:50.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.





Integrated Performance Consultants, Inc.  
P.O. Box 4362  
Mission Viejo CA, 92690

Project: ESGS  
Project Number: NA  
Project Manager: Ric Vardel

Reported:  
01/12/10 14:59

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1- WTP2 Effluent	1001074-01	Liquid	01/07/10 07:30	01/07/10 12:50
2- WTP2 Effluent Dup	1001074-02	Liquid	01/07/10 07:30	01/07/10 12:50
1A- Intake 1+2	1001074-03	Liquid	01/07/10 07:30	01/07/10 12:50
1B- Outfall 1+2	1001074-04	Liquid	01/07/10 07:30	01/07/10 12:50
2A- Intake 3+4	1001074-05	Liquid	01/07/10 07:30	01/07/10 12:50
2B- Outfall 3+4	1001074-06	Liquid	01/07/10 07:30	01/07/10 12:50

#### CASE NARRATIVE

**SAMPLE RECEIPT:** Samples were received intact, at 4°C, and accompanied by chain of custody documentation.  
**PRESERVATION:** Samples requiring preservation were verified prior to sample preparation and analysis.  
**HOLDING TIMES:** All holding times were met, unless otherwise noted in the report with data qualifiers.  
**QA/QC CRITERIA:** All quality objective criteria were met, except as noted in the report with data qualifiers.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Integrated Performance Consultants, Inc. P.O. Box 4362 Mission Viejo CA, 92690	Project: ESGS Project Number: NA Project Manager: Ric Vardel	Reported: 01/12/10 14:59
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**Microbiological Parameters by APHA Standard Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>1- WTP2 Effluent (1001074-01) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Enterococcus	<2.0	2.0	MPN/100 mL	1	B0A0723	01/07/10	01/07/10 13:00	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
<b>Total Coliforms</b>	<b>11</b>	<b>2.0</b>	"	"	"	"	"	SM 9221B	
<b>1A- Intake 1+2 (1001074-03) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Enterococcus	<b>30</b>	2.0	MPN/100 mL	1	B0A0723	01/07/10	01/07/10 13:00	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
<b>Total Coliforms</b>	<b>4.0</b>	<b>2.0</b>	"	"	"	"	"	SM 9221B	
<b>1B- Outfall 1+2 (1001074-04) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Enterococcus	<b>4.0</b>	2.0	MPN/100 mL	1	B0A0723	01/07/10	01/07/10 13:00	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
<b>Total Coliforms</b>	<b>13</b>	<b>2.0</b>	"	"	"	"	"	SM 9221B	
<b>2A- Intake 3+4 (1001074-05) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Enterococcus	<2.0	2.0	MPN/100 mL	1	B0A0723	01/07/10	01/07/10 13:00	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
<b>Total Coliforms</b>	<2.0	<b>2.0</b>	"	"	"	"	"	SM 9221B	
<b>2B- Outfall 3+4 (1001074-06) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Enterococcus	<2.0	2.0	MPN/100 mL	1	B0A0723	01/07/10	01/07/10 13:00	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
<b>Total Coliforms</b>	<b>30</b>	<b>2.0</b>	"	"	"	"	"	SM 9221B	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Integrated Performance Consultants, Inc.  
 P.O. Box 4362  
 Mission Viejo CA, 92690

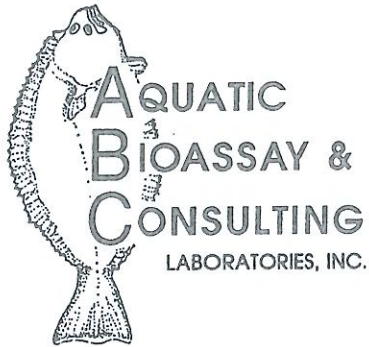
Project: ESGS  
 Project Number: NA  
 Project Manager: Ric Vardel

Reported:  
 01/12/10 14:59

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>1- WTP2 Effluent (1001074-01) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Biochemical Oxygen Demand	21.4	2.00	mg/L	1	BOA1210	01/07/10	01/12/10 13:30	EPA 405.1	
Oil & Grease	1.60	1.00	"	"	"	"	01/07/10 13:30	EPA 413.1	
Total Settleable Solids	ND	0.100	mL/L	"	"	"	"	EPA 160.5	
Total Suspended Solids	18.0	1.00	mg/L	"	"	"	"	EPA 160.2	
<b>2- WTP2 Effluent Dup (1001074-02) Liquid</b> <b>Sampled: 01/07/10 07:30</b> <b>Received: 01/07/10 12:50</b>									
Biochemical Oxygen Demand	19.9	2.00	mg/L	1	BOA1210	01/07/10	01/12/10 13:30	EPA 405.1	
Oil & Grease	1.40	1.00	"	"	"	"	01/07/10 13:30	EPA 413.1	
Total Suspended Solids	17.0	1.00	"	"	"	"	"	EPA 160.2	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

### CHRONIC KELP GERMINATION & GROWTH BIOASSAY

DATE: 30 December- 09

STANDARD TOXICANT: Copper Chloride

ENDPOINT: GERMINATION

NOEC = 32.00 ug/l

IC25 = 68.98 ug/l

IC50 = 111.75 ug/l


ENDPOINT: GROWTH-LENGTH

NOEC = 32.00 ug/l

IC25 = 100.78 ug/l

IC50 = 127.19 ug/l

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Macrocystis Germination and Growth Test-Proportion Germinated**

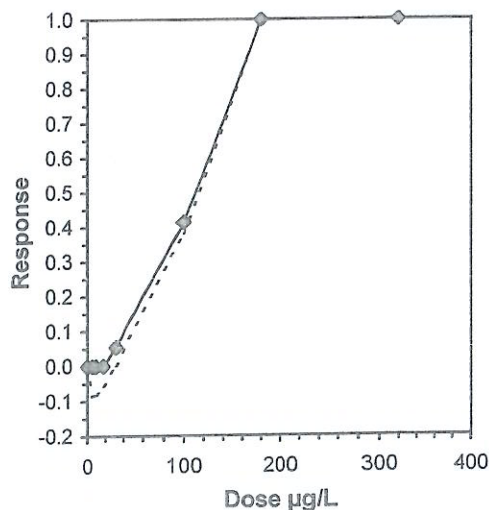
Start Date: 12/30/2009	Test ID: KLP123009	Sample ID: CA0000000
End Date: 1/1/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 12/29/2009	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocystis pyrifera
Comments: Standard Toxicant		

Conc-µg/L	1	2	3	4	5
N Control	0.8400	0.8300	0.8600	0.8300	0.8600
5.6	0.9400	0.9000	0.9100	0.9100	0.9200
10	0.9200	0.9300	0.9000	0.9100	0.9000
18	0.8900	0.8800	0.8900	0.9000	0.8900
32	0.8600	0.8200	0.8400	0.8600	0.8300
100	0.6200	0.5300	0.4800	0.4400	0.5400
180	0.0000	0.0000	0.0000	0.0000	0.0000
320	0.0000	0.0000	0.0000	0.0000	0.0000

Conc-µg/L	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8440	1.0000	1.1651	1.1458	1.1873	1.802	5				0.8907	1.0000
5.6	0.9160	1.0853	1.2777	1.2490	1.3233	2.218	5	-5.139	2.360	0.0517	0.8907	1.0000
10	0.9120	1.0806	1.2703	1.2490	1.3030	1.838	5	-4.798	2.360	0.0517	0.8907	1.0000
18	0.8900	1.0545	1.2329	1.2171	1.2490	0.918	5	-3.092	2.360	0.0517	0.8900	0.9993
32	0.8420	0.9976	1.1625	1.1326	1.1873	2.112	5	0.120	2.360	0.0517	0.8420	0.9454
*100	0.5220	0.6185	0.8076	0.7253	0.9066	8.475	5	16.311	2.360	0.0517	0.5220	0.5861
180	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5				0.0000	0.0000
320	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5				0.0000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.94171	0.9	0.51364	3.29421						
Bartlett's Test indicates equal variances (p = 0.02)	13.7094	15.0863								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	32	100	56.5685		0.03928	0.04653	0.15521	0.0012	1.5E-16	5, 24

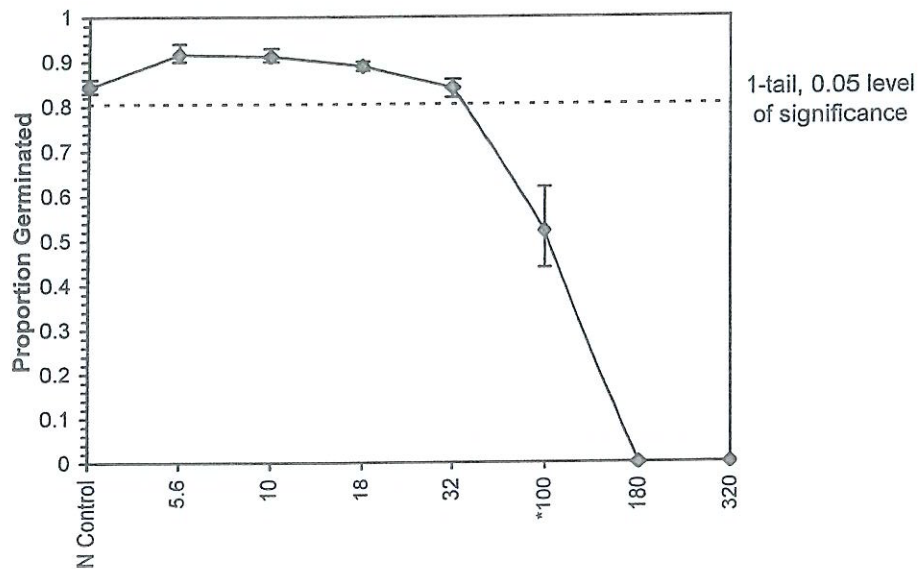
Point	µg/L	SD	Linear Interpolation (200 Resamples)		
			95% CL(Exp)	Skew	
IC05	30.79	1.81	25.67	35.75	0.1019
IC10	40.59	1.66	35.15	45.91	0.0786
IC15	50.05	2.09	44.44	56.36	0.3163
IC20	59.51	2.77	52.47	68.42	0.4240
IC25	68.98	3.55	60.45	80.24	0.4585
IC40	97.37	4.96	82.56	109.99	-0.1706
IC50	111.75	3.78	99.56	121.35	-0.3021



Macrocyctis Germination and Growth Test-Proportion Germinated

Start Date: 12/30/2009 Test ID: KLP123009 Sample ID: CA0000000  
End Date: 1/1/2010 Lab ID: CAABC Sample Type: CUCL-Copper chloride  
Sample Date: 12/29/2009 Protocol: EPA600/R95/136 1995 Test Species: MP-Macrocyctis pyrifera  
Comments: Standard Toxicant

Dose-Response Plot



**Macrocyctis Germination and Growth Test-Growth-Length**

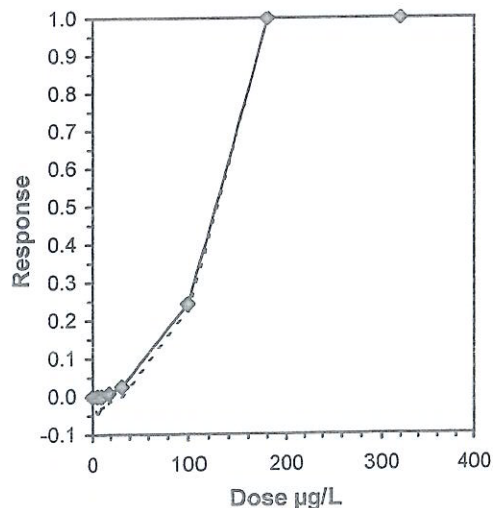
Start Date: 12/30/2009	Test ID: KLP123009	Sample ID: CA0000000
End Date: 1/1/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 12/29/2009	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocyctis pyrifera
Comments: Standard Toxicant		

Conc-µg/L	1	2	3	4	5
N Control	15.000	16.300	15.800	15.800	16.200
5.6	16.500	16.300	16.200	16.600	16.900
10	16.000	16.300	16.700	16.600	16.000
18	15.900	16.600	15.500	15.600	16.800
32	16.100	15.000	16.500	15.700	15.700
100	12.200	11.900	12.000	12.900	12.400
180	0.000	0.000	0.000	0.000	0.000
320	0.000	0.000	0.000	0.000	0.000

Conc-µg/L	Mean	N-Mean	Transform: Untransformed				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	15.820	1.0000	15.820	15.000	16.300	3.236	5				16.213	1.0000
5.6	16.500	1.0430	16.500	16.200	16.900	1.660	5	-2.348	2.360	0.683	16.213	1.0000
10	16.320	1.0316	16.320	16.000	16.700	2.004	5	-1.727	2.360	0.683	16.213	1.0000
18	16.080	1.0164	16.080	15.500	16.800	3.663	5	-0.898	2.360	0.683	16.080	0.9918
32	15.800	0.9987	15.800	15.000	16.500	3.524	5	0.069	2.360	0.683	15.800	0.9745
*100	12.280	0.7762	12.280	11.900	12.900	3.227	5	12.224	2.360	0.683	12.280	0.7574
180	0.000	0.0000	0.000	0.000	0.000	0.000	5				0.000	0.0000
320	0.000	0.0000	0.000	0.000	0.000	0.000	5				0.000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.96917	0.9	-0.0632	-0.5877						
Bartlett's Test indicates equal variances (p = 0.67)	3.18006	15.0863								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	32	100	56.5685		0.68345	0.0432	12.5629	0.20967	9.0E-13	5, 24
Treatments vs N Control										

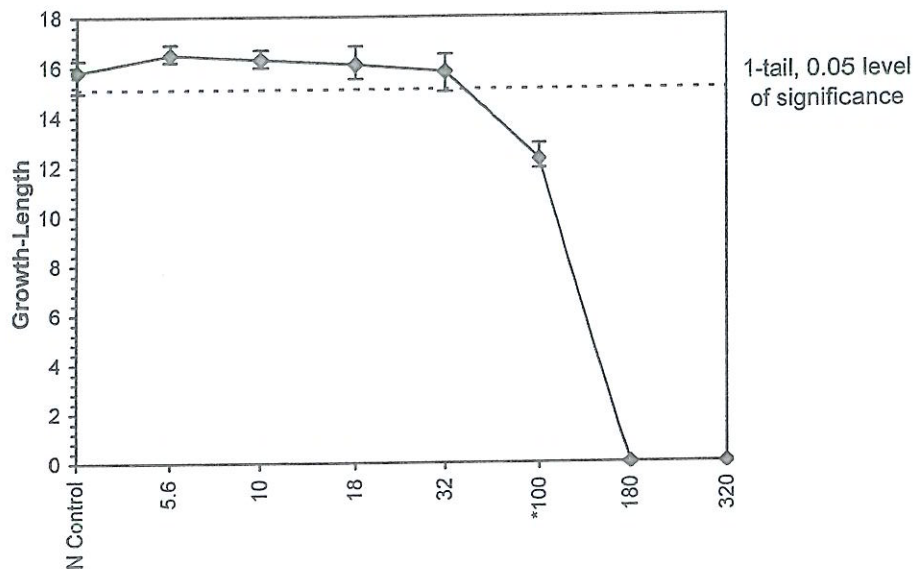
Linear Interpolation (200 Resamples)					
Point	µg/L	SD	95% CL(Exp)		Skew
IC05	39.68	3.97	24.07	47.93	-0.4704
IC10	55.34	3.18	43.74	61.78	-0.3116
IC15	71.00	2.74	61.74	77.47	0.1212
IC20	86.66	2.81	78.78	94.04	0.5627
IC25	100.78	1.61	94.42	103.46	-1.0103
IC40	116.63	0.85	114.09	118.77	0.2743
IC50	127.19	0.71	125.08	128.97	0.2743



Macrocystis Germination and Growth Test-Growth-Length

Start Date: 12/30/2009      Test ID: KLP123009      Sample ID: CA0000000  
End Date: 1/1/2010      Lab ID: CAABC      Sample Type: CUCL-Copper chloride  
Sample Date: 12/29/2009      Protocol: EPA600/R95/136 1995      Test Species: MP-Macrocystis pyrifera  
Comments: Standard Toxicant

Dose-Response Plot





**Macrocystis Germination and Growth Test-Growth-Length**

Start Date: 12/30/2009	Test ID: KLP123009	Sample ID: CA0000000
End Date: 1/1/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 12/29/2009	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocystis pyrifera
Comments: Standard Toxicant		

**Auxiliary Data Summary**

Conc-µg/L	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	14.95	14.90	15.00	0.07	1.78	2
5.6		15.00	14.90	15.10	0.14	2.51	2
10		15.00	14.90	15.10	0.14	2.51	2
18		15.00	14.90	15.10	0.14	2.51	2
32		14.95	14.90	15.00	0.07	1.78	2
100		14.95	14.90	15.00	0.07	1.78	2
180		14.95	14.90	15.00	0.07	1.78	2
320		14.95	14.90	15.00	0.07	1.78	2
N Control		pH	7.90	7.90	7.90	0.00	0.00
5.6	7.90		7.90	7.90	0.00	0.00	2
10	7.90		7.90	7.90	0.00	0.00	2
18	7.90		7.90	7.90	0.00	0.00	2
32	7.90		7.90	7.90	0.00	0.00	2
100	7.90		7.90	7.90	0.00	0.00	2
180	7.90		7.90	7.90	0.00	0.00	2
320	7.90		7.90	7.90	0.00	0.00	2
N Control	DO mg/L		6.15	5.80	6.50	0.49	11.44
5.6		6.15	5.70	6.60	0.64	12.97	2
10		6.20	5.70	6.70	0.71	13.56	2
18		6.25	5.80	6.70	0.64	12.76	2
32		6.35	5.90	6.80	0.64	12.56	2
100		6.30	5.80	6.80	0.71	13.35	2
180		6.20	5.50	6.90	0.99	16.05	2
320		6.25	5.60	6.90	0.92	15.34	2
N Control		Salinity ppt	34.00	34.00	34.00	0.00	0.00
5.6	34.00		34.00	34.00	0.00	0.00	2
10	34.00		34.00	34.00	0.00	0.00	2
18	34.00		34.00	34.00	0.00	0.00	2
32	34.00		34.00	34.00	0.00	0.00	2
100	34.00		34.00	34.00	0.00	0.00	2
180	34.00		34.00	34.00	0.00	0.00	2
320	34.00		34.00	34.00	0.00	0.00	2



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

### CHRONIC KELP GERMINATION & GROWTH BIOASSAY

DATE: 7 January - 10

STANDARD TOXICANT: Copper Chloride

ENDPOINT: GERMINATION

NOEC = 100.00 ug/l

IC25 = 133.87 ug/l

IC50 = 174.84 ug/l

ENDPOINT: GROWTH-LENGTH

NOEC = 100.00 ug/l

IC25 = 181.76 ug/l

IC50 = 227.84 ug/l

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

**Macrocystis Germination and Growth Test-Proportion Germinated**

Start Date: 1/7/2010	Test ID: KLP010710	Sample ID: CA0000000
End Date: 1/9/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 1/7/2010	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocystis pyrifera
Comments: Standard Toxicant		

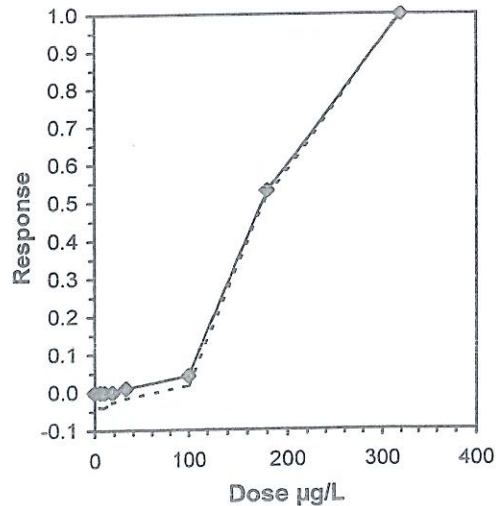
Conc-µg/L	1	2	3	4	5
N Control	0.9100	0.8800	0.8900	0.9000	0.9100
5.6	0.9500	0.9300	0.9400	0.9300	0.9200
10	0.9300	0.9400	0.9200	0.9400	0.9400
18	0.9200	0.9300	0.9300	0.9200	0.9100
32	0.9100	0.9200	0.9100	0.9100	0.9100
100	0.8700	0.9000	0.8900	0.8700	0.8800
180	0.4200	0.3800	0.5100	0.3900	0.4600
320	0.0000	0.0000	0.0000	0.0000	0.0000

Conc-µg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
N Control	0.8980	1.0000	1.2462	1.2171	1.2661	1.717	5				0.9220	1.0000	
5.6	0.9340	1.0401	1.3117	1.2840	1.3453	1.779	5	-3.894	2.409	0.0405	0.9220	1.0000	
10	0.9340	1.0401	1.3114	1.2840	1.3233	1.346	5	-3.874	2.409	0.0405	0.9220	1.0000	
18	0.9220	1.0267	1.2880	1.2661	1.3030	1.204	5	-2.486	2.409	0.0405	0.9220	1.0000	
32	0.9120	1.0156	1.2697	1.2661	1.2840	0.632	5	-1.395	2.409	0.0405	0.9120	0.9892	
100	0.8820	0.9822	1.2205	1.2019	1.2490	1.672	5	1.525	2.409	0.0405	0.8820	0.9566	
*180	0.4320	0.4811	0.7169	0.6642	0.7954	7.540	5	31.450	2.409	0.0405	0.4320	0.4685	
320	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5				0.0000	0.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.95695	0.91	0.62592	2.33592						
Bartlett's Test indicates equal variances (p = 0.02)	15.0157	16.8119								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test Treatments vs N Control	100	180	134.164		0.02579	0.02871	0.22772	0.00071	1.8E-24	6, 28

**Linear Interpolation (200 Resamples)**

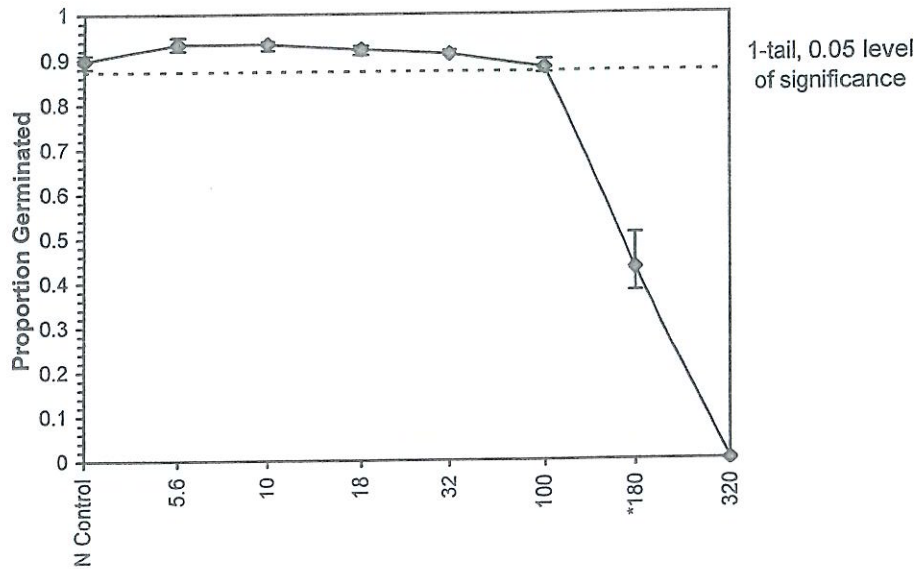
Point	µg/L	SD	95% CL(Exp)		Skew
IC05	101.08	2.75	86.84	103.75	-2.8978
IC10	109.28	0.97	106.61	112.10	0.0102
IC15	117.48	1.12	114.12	120.84	0.0550
IC20	125.67	1.38	121.66	129.69	0.1517
IC25	133.87	1.70	129.41	138.83	0.2629
IC40	158.45	2.80	151.52	167.38	0.4805
IC50	174.84	3.80	166.05	187.89	0.8473



Macrocystis Germination and Growth Test-Proportion Germinated

Start Date: 1/7/2010 Test ID: KLP010710 Sample ID: CA0000000  
End Date: 1/9/2010 Lab ID: CAABC Sample Type: CUCL-Copper chloride  
Sample Date: 1/7/2010 Protocol: EPA600/R95/136 1995 Test Species: MP-Macrocytis pyrifera  
Comments: Standard Toxicant

Dose-Response Plot



**Macrocystis Germination and Growth Test-Growth-Length**

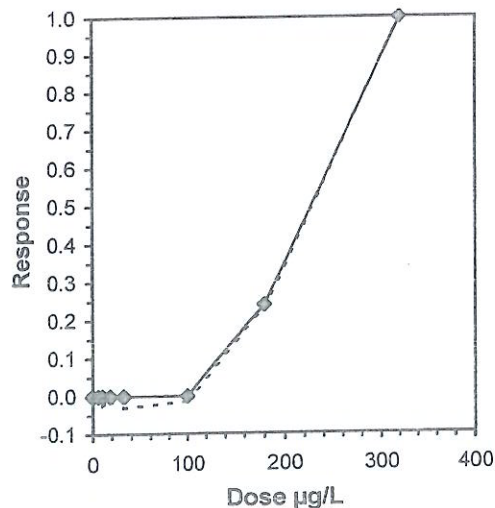
Start Date: 1/7/2010	Test ID: KLP010710	Sample ID: CA0000000
End Date: 1/9/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 1/7/2010	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocystis pyrifera
Comments: Standard Toxicant		

Conc-µg/L	1	2	3	4	5
N Control	15.500	16.200	16.500	16.500	15.200
5.6	15.200	16.400	16.700	15.900	15.900
10	16.500	16.300	16.500	16.800	15.800
18	16.500	16.100	16.300	15.500	16.100
32	16.700	16.700	16.800	16.100	16.100
100	16.200	15.100	16.400	16.600	16.700
180	12.500	12.500	12.100	12.600	11.800
320	0.000	0.000	0.000	0.000	0.000

Conc-µg/L	Mean	N-Mean	Transform: Untransformed				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	15.980	1.0000	15.980	15.200	16.500	3.739	5				16.193	1.0000
5.6	16.020	1.0025	16.020	15.200	16.700	3.570	5	-0.132	2.409	0.731	16.193	1.0000
10	16.380	1.0250	16.380	15.800	16.800	2.260	5	-1.318	2.409	0.731	16.193	1.0000
18	16.100	1.0075	16.100	15.500	16.500	2.324	5	-0.395	2.409	0.731	16.193	1.0000
32	16.480	1.0313	16.480	16.100	16.800	2.119	5	-1.647	2.409	0.731	16.193	1.0000
100	16.200	1.0138	16.200	15.100	16.700	3.977	5	-0.725	2.409	0.731	16.193	1.0000
*180	12.300	0.7697	12.300	11.800	12.600	2.757	5	12.121	2.409	0.731	12.300	0.7596
320	0.000	0.0000	0.000	0.000	0.000	0.000	5				0.000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.93469	0.91	-0.7625	-0.1201						
Bartlett's Test indicates equal variances (p = 0.74)	3.55369	16.8119								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test Treatments vs N Control	100	180	134.164		0.73124	0.04576	10.995	0.23043	2.0E-13	6, 28

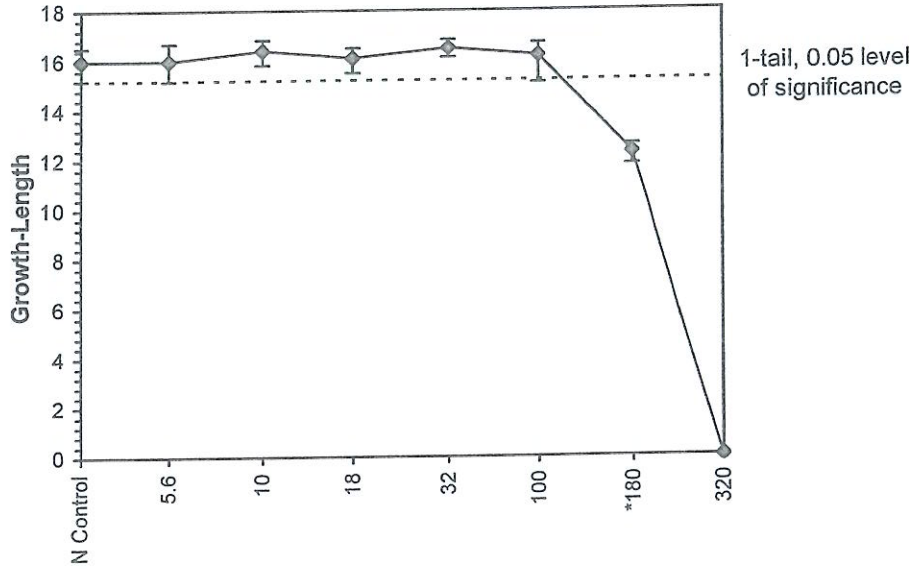
Linear Interpolation (200 Resamples)					
Point	µg/L	SD	95% CL(Exp)		Skew
IC05	116.64	4.86	97.13	118.13	-4.5219
IC10	133.27	3.29	116.77	136.26	-2.0706
IC15	149.91	2.96	137.22	154.50	-1.3363
IC20	166.55	3.02	155.34	173.00	-0.6041
IC25	181.76	2.18	172.61	185.67	-1.0418
IC40	209.41	1.43	204.23	212.54	-0.4133
IC50	227.84	1.19	223.53	230.45	-0.4133



Macrocystis Germination and Growth Test-Growth-Length

Start Date: 1/7/2010	Test ID: KLP010710	Sample ID: CA0000000
End Date: 1/9/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 1/7/2010	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocystis pyrifera
Comments: Standard Toxicant		

Dose-Response Plot



**Macrocyctis Germination and Growth Test-Growth-Length**

Start Date: 1/7/2010	Test ID: KLP010710	Sample ID: CA0000000
End Date: 1/9/2010	Lab ID: CAABC	Sample Type: CUCL-Copper chloride
Sample Date: 1/7/2010	Protocol: EPA600/R95/136 1995	Test Species: MP-Macrocyctis pyrifera
Comments: Standard Toxicant		

**Auxiliary Data Summary**

Conc-µg/L	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	14.90	14.80	15.00	0.14	2.52	2
5.6		14.80	14.80	14.80	0.00	0.00	2
10		14.80	14.80	14.80	0.00	0.00	2
18		14.80	14.80	14.80	0.00	0.00	2
32		14.85	14.80	14.90	0.07	1.79	2
100		14.85	14.80	14.90	0.07	1.79	2
180		14.90	14.90	14.90	0.00	0.00	2
320		14.85	14.80	14.90	0.07	1.79	2
N Control		pH	7.90	7.90	7.90	0.00	0.00
5.6	7.90		7.90	7.90	0.00	0.00	2
10	7.90		7.90	7.90	0.00	0.00	2
18	7.90		7.90	7.90	0.00	0.00	2
32	7.90		7.90	7.90	0.00	0.00	2
100	7.90		7.90	7.90	0.00	0.00	2
180	7.90		7.90	7.90	0.00	0.00	2
320	7.90		7.90	7.90	0.00	0.00	2
N Control	DO mg/L		6.65	6.50	6.80	0.21	6.93
5.6		6.65	6.30	7.00	0.49	10.58	2
10		6.40	5.90	6.90	0.71	13.14	2
18		6.30	5.80	6.80	0.71	13.35	2
32		6.15	5.70	6.60	0.64	12.97	2
100		6.15	5.60	6.70	0.78	14.34	2
180		6.15	5.60	6.70	0.78	14.34	2
320		6.15	5.70	6.60	0.64	12.97	2
N Control		Salinity ppt	34.00	34.00	34.00	0.00	0.00
5.6	34.00		34.00	34.00	0.00	0.00	2
10	34.00		34.00	34.00	0.00	0.00	2
18	34.00		34.00	34.00	0.00	0.00	2
32	34.00		34.00	34.00	0.00	0.00	2
100	34.00		34.00	34.00	0.00	0.00	2
180	34.00		34.00	34.00	0.00	0.00	2
320	34.00		34.00	34.00	0.00	0.00	2



**SHORT-TERM CHRONIC TOXICITY TESTING  
EPA/600/R-95/136**

**Giant Kelp (*Macrocystis pyrifera*)**

**Prepared For:**

**NRG El Segundo  
Generating Station**

**NPDES Permit #:**

**CA0001147**

**Sample Identification:**

**Discharge 1&2, Intake 3&4**

**MBC Sample Number:**

**10-095, 10-096**

**Sample Collection Date:**

**1/7/2010**

**Prepared By:**

***MBC Applied Environmental Sciences  
3000 Redhill Avenue  
Costa Mesa, California 92626***



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	3	SUMMARY OF TEST CONDITIONS
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	7	ORGANISM ENUMERATION / STATISTICAL DATA
	8	REFERENCE TOXICANT DATA

LETTER

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18 January 2010

Alexander Sanchez  
El Segundo Generating Station  
301 Vista del Mar  
El Segundo, CA 90245



MBC

Dear Alexander:

The following are the results of the chronic toxicity testing for NRG El Segundo Generating Station (ESGS). Test procedures for the chronic toxicity testing *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA/600/R-95/136, giant kelp (*Macrocystis pyrifera*) was used as the test organism. Samples were collected on 1/7/2010.

MBC Sample #: 10-095

Client Identification: Discharge 1 & 2 (ESGS)

CONCENTRATION	SURVIVAL	GERM-TUBE LENGTH <sup>GTL</sup>
Control <sup>1</sup> - Lab Water	90%	12.8
6.25%	91%	12.9
12.5%	89%	13.1
25%	90%	14.1
50%	88%	13.0
100%	89%	13.2
	NOEC <sup>2</sup> = 100%	NOEC <sup>2</sup> = 100%
	LOEC <sup>3</sup> > 100%	LOEC <sup>3</sup> > 100%
	TU <sub>c</sub> <sup>4</sup> = 1	TU <sub>c</sub> <sup>4</sup> = 1
	PMSD <sup>5</sup> = 5.46%	PMSD <sup>5</sup> = 8.16%
	CV <sup>6</sup> = 1.48%	CV <sup>6</sup> = 3.58%
		IC <sub>25</sub> <sup>7</sup> > 100%

MBC Sample #: 10-096

Client Identification: Intake 3 & 4 (ESGS)

CONCENTRATION	SURVIVAL	GERM-TUBE LENGTH <sup>GTL</sup>
Control <sup>1</sup> - Lab Water	93%	13.3
6.25%	91%	13.5
12.5%	90%	13.5
25%	90%	12.8
50%	90%	12.7
100%	93%	11.1*
	NOEC <sup>2</sup> = 100%	NOEC <sup>2</sup> = 50%
	LOEC <sup>3</sup> > 100%	LOEC <sup>3</sup> = 100%
	TU <sub>c</sub> <sup>4</sup> = 1	TU <sub>c</sub> <sup>4</sup> = 2
	PMSD <sup>5</sup> = 3.96%	PMSD <sup>5</sup> = 4.62%
	CV <sup>6</sup> = 3.23%	CV <sup>6</sup> = 2.55%
		IC <sub>25</sub> <sup>7</sup> > 100%

All original data worksheets will remain on file at MBC. Please contact me at your convenience for further testing in accordance with permit requirements.

Cordially,

MBC Applied Environmental Sciences

Sonja M. Beck

Bioassay Manager

\* The asterisk indicates a result, which is significantly different from the control. A review of the concentration-response graphs indicated the results are reliable and may be used for reporting.

<sup>1</sup> Dilution-water utilized for testing.

<sup>2</sup> No Observed Effect Concentration, the highest concentration that showed no effect.

<sup>3</sup> Lowest Observed Effect Concentration, the highest concentration where there is an effect.

<sup>4</sup> Toxic Units, determined by 100% / NOEC. The lowest achievable value for chronic testing is 1.

<sup>5</sup> The minimum significant difference (in percent difference from control).

<sup>6</sup> The controls' coefficient of variation of transformed variates.

<sup>7</sup> The concentration at which 25% of the test organisms were inhibited.

<sup>GTL</sup> The average individual germination tube length measured in micrometers.

**CHAIN-OF-CUSTODY**

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**MBC**

**MBC Applied Environmental Sciences  
Toxicity Sample Collection / Field Observations**

Client: ESGS Date: 1/7/10  
 Client Project Contact: Alex San Field Personnel (s): JLR LCM  
 Field Job #: \_\_\_\_\_ Vehicle / Vessel: Honda  
 Laboratory Job #: 10418X

Test(s) Concentrations: \_\_\_\_\_

Date	Time	Sample Identification	Volume (liters)	Temp. (°C)	Salinity (ppt)	Total Chlorine (mg/l)	Freshwater Intrusion*	Red Tide (Y/N)	Floating Oil/Grease (Y/N)	Notes
1/7/10	1000	Discharge	4L	15.5	33	—	N	N	N	
1/7/10	1010	Forebay	4L	15.2	35	—	N	N	N	

\*Freshwater Intrusion: Runoff, Rain, Drizzle, Retention Basin or None (Only note if occurring at sampling site).

N/A : Not applicable to project.

Discharge 001 = Discharge 1+2  
Forebay = Intake 3+4

RELINQUISHED BY:	PRINT NAME	SIGNATURE	DATE / TIME in LABORATORY
	Jennifer Rankin		1/7/10 1354
RECEIVED BY:	James Nunez		1/7/10 1355

**SUMMARY OF TEST CONDITIONS**

## Summary of Test Conditions for Chronic Toxicity Testing

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Protocol:	EPA/600/R-95/136
Test Organism:	Giant Kelp ( <i>Macrocystis pyrifera</i> )
Endpoints:	Germination and Germ-tube Length
Test Type:	Static non-renewal
Temperature (°C):	15±1°C.
Photoperiod:	16 hours light, 8 hours dark.
Test Solution Volume:	200 mL
Renewal of Test Solutions:	None
No. of Organisms/Test Chamber:	7500/ml of test solution
No. of Replicate Test Chambers/Test Concentration:	5
Feeding Regime:	None
Cleaning:	None
Aeration:	None
Salinity:	34 ± 2 ppt
Test Duration:	48 hours
Test Acceptability Criteria:	≥70% germination in the controls. ≥10µm germ-tube length in the controls. The NOEC must be <35µg/l in the reference toxicant test. MSD must be <20% for both endpoints in the reference toxicant test.

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**SAMPLE ANALYSIS DATA**

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MBC Client: NRG El Segundo Generating Station  
MBC Job #: 10418X

Date Prepared: 30-Jan-10  
Prepared By: S. M. Beck

- SAMPLE RECEIVING DATA -

CLIENT SAMPLE ID: Discharge 1&2 NPDES Permit #: CA0001147  
MBC SAMPLE #: 10-095 PROTOCOL #: EPA/600/R-95/136  
SAMPLE COLLECTION DATE/TIME: 01/07/2010 1000 TEST ORGANISM: Giant Kelp (*Macrocystis pyrifera*)  
RECEIVED BY LABORATORY DATE/TIME: 01/07/2010 1354  
DATE/TIME TEST INITIATED: 01/08/2010 1400  
DATE/TIME TEST TERMINATED: 01/10/2010 1300

Time	Date of Initial Use	Amount (Liters)	Collection Temp. (°C)	T. Chlorine (mg/l)	Temp. (°C)	pH	DO (mg/l)	Cond. (mS/cm)	Salinity (ppt)	Ammonia (mg/l)
				Upon Sample Arrival						
14:00	01/08/10	4	15.5	0.01	8.4	7.3	4.4	32.4	28.0	0.32

SPECIAL SAMPLE/TESTING REQUIREMENTS: None.

REQUIRED TEST CONCENTRATIONS: Control, 6.25, 12.5, 25, 50, and 100%.

REQUIRED DILUTION WATER (Control): Uncontaminated 1-µm-filtered natural seawater.

REQUIRED ADJUSTMENTS - BEFORE TESTING: Temperature.

REQUIRED ADJUSTMENTS - DURING TESTING: None.

-Temperature Range During Testing -

Temperature Range Requirements: 25±1°C, temperature should not deviate by more than 3°C during testing.

TID BIT #: 575154

Recording Interval (Minutes)	Number of Data Points Collected	Temperature (°C)			Average
		Minimum	Maximum	Difference	
10	284	13.3	14.1	0.8	13.7

MBC Client: NRG El Segundo Generating Station  
MBC Job #: 10418X

Date Prepared: 30-Jan-10  
Prepared By: S. M. Beck

- SAMPLE RECEIVING DATA -

CLIENT SAMPLE ID: Intake 3&4 NPDES Permit #: CA0001147  
MBC SAMPLE #: 10-096 PROTOCOL #: EPA/600/R-95/136  
SAMPLE COLLECTION DATE/TIME: 01/07/2010 1010 TEST ORGANISM: Giant Kelp (*Macrocystis pyrifera*)  
RECEIVED BY LABORATORY DATE/TIME: 01/07/2010 1354  
DATE/TIME TEST INITIATED: 01/08/2010 1400  
DATE/TIME TEST TERMINATED: 01/10/2010 1300

Time	Date of Initial Use	Amount (Liters)	Collection Temp. (°C)	T. Chlorine (mg/l)	Temp. (°C)	pH	DO (mg/l)	Cond. (mS/cm)	Salinity (ppt)	Ammonia (mg/l)
				Upon Sample Arrival						
14:00	01/08/10	4	15.2	0.03	6.2	7.8	7.0	33.4	30.0	0.00

SPECIAL SAMPLE/TESTING REQUIREMENTS: None.

REQUIRED TEST CONCENTRATIONS: Control, 6.25, 12.5, 25, 50, and 100%.

REQUIRED DILUTION WATER (Control): Uncontaminated 1-µm-filtered natural seawater.

REQUIRED ADJUSTMENTS - BEFORE TESTING: Temperature.

REQUIRED ADJUSTMENTS - DURING TESTING: None.

-Temperature Range During Testing -

Temperature Range Requirements: 25±1°C, temperature should not deviate by more than 3°C during testing.

TID BIT #: 575154

Recording Interval (Minutes)	Number of Data Points Collected	Temperature (°C)			Average
		Minimum	Maximum	Difference	
10	284	13.3	14.1	0.8	13.7

**SUMMARY OF RESULTS**

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MBC Client: NRG El Segundo Generating Station  
MBC Job #: 10418X

Date Prepared: 30-Jan-10  
Prepared By: S. M. Beck

- SUMMARY OF RESULTS -

PROTOCOL #: EPA/600/R-95/136  
TEST ORGANISM: Giant Kelp (*Macrocystis pyrifera*)  
ORGANISM LOT#: N/A  
REFERENCE TOXICANT SAMPLE #: 10-097  
NPDES Permit #: CA0001147  
CLIENT SAMPLE ID: Discharge 1&2  
MBC SAMPLE #: 10-095  
SAMPLE DATE / TIME: 01/07/2010 1000  
DATE/TIME TEST INITIATED: 01/08/2010 1400  
DATE/TIME TEST TERMINATED: 01/10/2010 1300

Concentration: (%)	Mean Germination Rate: Germinated (%)	Mean Length: Germ-Tube Length ( $\mu\text{m}$ )
Control <sup>1</sup> - Lab Water	90	12.8
6.25	91	12.9
12.5	89	13.1
25	90	14.1
50	88	13.0
100	89	13.2
	NOEC <sup>2</sup> = 100%	NOEC <sup>2</sup> = 100%
	LOEC <sup>3</sup> > 100%	LOEC <sup>3</sup> > 100%
	TU <sub>c</sub> <sup>4</sup> = 1	TU <sub>c</sub> <sup>4</sup> = 1
	PMSD <sup>5</sup> = 5.46%	PMSD <sup>5</sup> = 8.16%
	CV <sup>6</sup> = 1.48%	CV <sup>6</sup> = 3.58%
		IC <sub>25</sub> <sup>7</sup> > 100%

\* The asterisk indicates a result, which is significantly different from the control. A review of the concentration-response graphs indicated the results are reliable and may be used for reporting.

<sup>1</sup> Dilution water used.

<sup>2</sup> No Observed Effect Concentration, the highest concentration which showed no effect.

<sup>3</sup> Lowest Observed Effect Concentration, the highest concentration which showed an effect.

<sup>4</sup> Toxic Units, determined by highest concentration/ NOEC. The lowest value achievable for chronic testing is 1.

<sup>5</sup> Minimum significant difference (in percent difference from control).

<sup>6</sup> The controls' coefficient of variation of transformed variates.

<sup>7</sup> Concentration at which 25% of the test organisms were inhibited.

MBC Client: NRG El Segundo Generating Station  
MBC Job #: 10418X

Date Prepared: 30-Jan-10  
Prepared By: S. M. Beck

- SUMMARY OF RESULTS -

PROTOCOL #: EPA/600/R-95/136  
TEST ORGANISM: Giant Kelp (*Macrocystis pyrifera*)  
ORGANISM LOT#: N/A  
REFERENCE TOXICANT SAMPLE #: 10-097  
NPDES Permit #: CA0001147  
CLIENT SAMPLE ID: Intake 3&4  
MBC SAMPLE #: 10-096  
SAMPLE DATE / TIME: 01/07/2010 1010  
DATE/TIME TEST INITIATED: 01/08/2010 1400  
DATE/TIME TEST TERMINATED: 01/10/2010 1300

Concentration: (%)	Mean Germination Rate: Germinated (%)	Mean Length: Germ-Tube Length (µm)
Control <sup>1</sup> - Lab Water	93	13.3
6.25	91	13.5
12.5	90	13.5
25	90	12.8
50	90	12.1
100	93	11.1*
	NOEC <sup>2</sup> = 100%	NOEC <sup>2</sup> = 50%
	LOEC <sup>3</sup> > 100%	LOEC <sup>3</sup> = 100%
	TU <sub>c</sub> <sup>4</sup> = 1	TU <sub>c</sub> <sup>4</sup> = 2
	PMSD <sup>5</sup> = 3.96%	PMSD <sup>5</sup> = 4.62%
	CV <sup>6</sup> = 3.23%	CV <sup>6</sup> = 2.55%
		IC <sub>25</sub> <sup>7</sup> > 100%

\* The asterisk indicates a result, which is significantly different from the control. A review of the concentration-response graphs indicated the results are reliable and may be used for reporting.

<sup>1</sup> Dilution water used.

<sup>2</sup> No Observed Effect Concentration, the highest concentration which showed no effect.

<sup>3</sup> Lowest Observed Effect Concentration, the highest concentration which showed an effect.

<sup>4</sup> Toxic Units, determined by highest concentration/ NOEC. The lowest value achievable for chronic testing is 1.

<sup>5</sup> Minimum significant difference (in percent difference from control).

<sup>6</sup> The controls' coefficient of variation of transformed variates.

<sup>7</sup> Concentration at which 25% of the test organisms were inhibited.

WATER QUALITY DATA

# CETIS Measurement Report

Report Date: 29 Jan-10 10:03 (p 1 of 2)  
 Test Code: 13-6884-1688/10-095

## Giant Kelp Chronic

MBC Applied Environmental Sciences

<b>Batch ID:</b> 17-3817-2900	<b>Test Type:</b> Growth-Germination (10m)	<b>Analyst:</b>
<b>Start Date:</b> 08 Jan-10 14:00	<b>Protocol:</b> EPA/600/R-95/136 (1995)	<b>Diluent:</b>
<b>Ending Date:</b> 10 Jan-10 13:00	<b>Species:</b> <i>Macrocystis pyrifera</i>	<b>Brine:</b>
<b>Duration:</b> 47h	<b>Source:</b>	<b>Age:</b>
<b>Sample ID:</b> 20-3598-9877	<b>Code:</b> 10-095	<b>Client:</b> ESGS
<b>Sample Date:</b> 07 Jan-10 10:00	<b>Material:</b> Power Plant Effluent	<b>Project:</b>
<b>Receive Date:</b> 07 Jan-10 13:54	<b>Source:</b> NPDES Permit # (XX99999999)	
<b>Sample Age:</b> 28h	<b>Station:</b> Discharge 1 & 2	

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
6.25		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
12.5		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
25		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
50		2	7.95	7.926	7.974	7.9	8	0.01178	0.0707	0.89%	0
100		2	7.65	7.53	7.77	7.4	7.9	0.05893	0.3536	4.62%	0
Overall		12	8			7.4	8.1				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	7.1	7.004	7.196	6.9	7.3	0.04714	0.2828	3.98%	0
6.25		2	7.1	7.099	7.101	7.1	7.1	0	0	0.0%	0
12.5		2	7.1	7.099	7.101	7.1	7.1	0	0	0.0%	0
25		2	7.05	7.026	7.074	7	7.1	0.01179	0.07072	1.0%	0
50		2	6.9	6.756	7.044	6.6	7.2	0.07071	0.4243	6.15%	0
100		2	6.25	5.891	6.609	5.5	7	0.1768	1.061	16.97%	0
Overall		12	6.917			5.5	7.3				0 (0%)

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	15.65	15.58	15.72	15.5	15.8	0.03535	0.2121	1.36%	0
6.25		2	15.45	15.38	15.52	15.3	15.6	0.03536	0.2122	1.37%	0
12.5		2	15.5	15.5	15.5	15.5	15.5	0	0	0.0%	0
25		2	15.75	15.73	15.77	15.7	15.8	0.01177	0.07064	0.45%	0
50		2	15.35	15.18	15.52	15	15.7	0.0825	0.495	3.23%	0
100		2	15.25	14.89	15.61	14.5	16	0.1768	1.061	6.96%	0
Overall		12	15.49			14.5	16				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	38.8	38.75	38.85	38.7	38.9	0.02355	0.1413	0.36%	0
6.25		2	38.15	38.03	38.27	37.9	38.4	0.05892	0.3535	0.93%	0
12.5		2	37.65	37.48	37.82	37.3	38	0.08249	0.4949	1.32%	0
25		2	37.7	37.65	37.75	37.6	37.8	0.02359	0.1415	0.38%	0
50		2	203.3	123.8	282.8	37.2	369.4	39.15	234.9	115.5%	0
100		2	35.45	35.19	35.71	34.9	36	0.1296	0.7778	2.19%	0
Overall		12	65.18			34.9	369.4				0 (0%)

### Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
6.25		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
12.5		2	35	35	35	35	35	0	0	0.0%	0
25		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
50		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
100		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
Overall		12	34.58			34	35				0 (0%)

**CETIS Measurement Report**

Report Date: 29 Jan-10 10:03 (p 2 of 2)  
 Test Code: 13-6884-1688/10-095

Giant Kelp Chronic

MBC Applied Environmental Sciences

**pH-Units**

Conc-%	Control Type	1	2
0	Dilution Water	8.1	8.1
6.25		8.1	8.1
12.5		8.1	8.1
25		8.1	8.1
50		7.9	8
100		7.4	7.9

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2
0	Dilution Water	7.3	6.9
6.25		7.1	7.1
12.5		7.1	7.1
25		7	7.1
50		6.6	7.2
100		5.5	7

**Temperature-°C**

Conc-%	Control Type	1	2
0	Dilution Water	15.5	15.8
6.25		15.3	15.6
12.5		15.5	15.5
25		15.8	15.7
50		15	15.7
100		14.5	16

**Conductivity-µmhos**

Conc-%	Control Type	1	2
0	Dilution Water	38.9	38.7
6.25		38.4	37.9
12.5		38	37.3
25		37.8	37.6
50		37.2	369.4
100		36	34.9

**Salinity-ppt**

Conc-%	Control Type	1	2
0	Dilution Water	34	35
6.25		34	35
12.5		35	35
25		34	35
50		34	35
100		34	35



**CETIS Measurement Report**

Report Date: 29 Jan-10 10:02 (p 1 of 2)  
 Test Code: 15-0884-3381/10-096

**Giant Kelp Chronic**

MBC Applied Environmental Sciences

<b>Batch ID:</b> 17-3817-2900	<b>Test Type:</b> Growth-Germination (10m)	<b>Analyst:</b>
<b>Start Date:</b> 08 Jan-10 14:00	<b>Protocol:</b> EPA/600/R-95/136 (1995)	<b>Diluent:</b>
<b>Ending Date:</b> 10 Jan-10 13:00	<b>Species:</b> Macrocystis pyrifera	<b>Brine:</b>
<b>Duration:</b> 47h	<b>Source:</b>	<b>Age:</b>
<b>Sample ID:</b> 00-8165-0800	<b>Code:</b> 10-096	<b>Client:</b> ESGS
<b>Sample Date:</b> 07 Jan-10 10:10	<b>Material:</b> Power Plant Effluent	<b>Project:</b>
<b>Receive Date:</b> 07 Jan-10 13:54	<b>Source:</b> NPDES Permit # (XX99999999)	
<b>Sample Age:</b> 28h	<b>Station:</b> Intake	

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	8.05	8.026	8.074	8	8.1	0.01179	0.07073	0.88%	0
6.25		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
12.5		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
25		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
50		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
100		2	8.05	8.026	8.074	8	8.1	0.01179	0.07073	0.88%	0
Overall		12	8.083			8	8.1				0 (0%)

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	7.5	7.261	7.739	7	8	0.1179	0.7071	9.43%	0
6.25		2	7.75	7.535	7.965	7.3	8.2	0.1061	0.6364	8.21%	0
12.5		2	7.8	7.561	8.039	7.3	8.3	0.1179	0.7071	9.07%	0
25		2	7.75	7.487	8.013	7.2	8.3	0.1296	0.7778	10.04%	0
50		2	7.7	7.461	7.939	7.2	8.2	0.1179	0.7071	9.18%	0
100		2	7.7	7.461	7.939	7.2	8.2	0.1179	0.7071	9.18%	0
Overall		12	7.7			7	8.3				0 (0%)

**Temperature-°C**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	15	14.86	15.14	14.7	15.3	0.07071	0.4243	2.83%	0
6.25		2	14.7	14.37	15.03	14	15.4	0.165	0.9899	6.73%	0
12.5		2	14.5	14.26	14.74	14	15	0.1179	0.7071	4.88%	0
25		2	14.5	14.26	14.74	14	15	0.1179	0.7071	4.88%	0
50		2	14.5	14.26	14.74	14	15	0.1179	0.7071	4.88%	0
100		2	14.75	14.39	15.11	14	15.5	0.1768	1.061	7.19%	0
Overall		12	14.66			14	15.5				0 (0%)

**Conductivity-µmhos**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	37.1	36.86	37.34	36.6	37.6	0.1179	0.7071	1.91%	0
6.25		2	36.95	36.69	37.21	36.4	37.5	0.1296	0.7778	2.11%	0
12.5		2	37.15	36.79	37.51	36.4	37.9	0.1768	1.061	2.86%	0
25		2	36.95	36.78	37.12	36.6	37.3	0.0825	0.495	1.34%	0
50		2	37.2	36.87	37.53	36.5	37.9	0.165	0.99	2.66%	0
100		2	37.85	37.3	38.4	36.7	39	0.2711	1.626	4.3%	0
Overall		12	37.2			36.4	39				0 (0%)

**Salinity-ppt**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Dilution Water	2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
6.25		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
12.5		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
25		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
50		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
100		2	34.5	34.26	34.74	34	35	0.1179	0.7071	2.05%	0
Overall		12	34.5			34	35				0 (0%)

**CETIS Measurement Report**

Report Date: 29 Jan-10 10:02 (p 2 of 2)  
Test Code: 15-0884-3381/10-096

Giant Kelp Chronic

MBC Applied Environmental Sciences

**pH-Units**

Conc-%	Control Type	1	2
0	Dilution Water	8.1	8
6.25		8.1	8.1
12.5		8.1	8.1
25		8.1	8.1
50		8.1	8.1
100		8.1	8

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2
0	Dilution Water	8	7
6.25		7.3	8.2
12.5		7.3	8.3
25		8.3	7.2
50		8.2	7.2
100		8.2	7.2

**Temperature-°C**

Conc-%	Control Type	1	2
0	Dilution Water	14.7	15.3
6.25		14	15.4
12.5		15	14
25		15	14
50		14	15
100		14	15.5

**Conductivity-µmhos**

Conc-%	Control Type	1	2
0	Dilution Water	36.6	37.6
6.25		36.4	37.5
12.5		36.4	37.9
25		36.6	37.3
50		37.9	36.5
100		39	36.7

**Salinity-ppt**

Conc-%	Control Type	1	2
0	Dilution Water	34	35
6.25		34	35
12.5		35	34
25		34	35
50		34	35
100		34	35

**ORGANISM ENUMERATION / STATISTICAL DATA**

**CETIS Summary Report**

Report Date: 29 Jan-10 10:04 (p 1 of 2)  
 Test Code: 13-6884-1688/10-095

MBC Applied Environmental Sciences

**Giant Kelp Chronic**

<b>Batch ID:</b> 17-3817-2900	<b>Test Type:</b> Growth-Germination (10m)	<b>Analyst:</b>
<b>Start Date:</b> 08 Jan-10 14:00	<b>Protocol:</b> EPA/600/R-95/136 (1995)	<b>Diluent:</b>
<b>Ending Date:</b> 10 Jan-10 13:00	<b>Species:</b> Macrocystis pyrifera	<b>Brine:</b>
<b>Duration:</b> 47h	<b>Source:</b>	<b>Age:</b>
<b>Sample ID:</b> 20-3598-9877	<b>Code:</b> 10-095	<b>Client:</b> ESGS
<b>Sample Date:</b> 07 Jan-10 10:00	<b>Material:</b> Power Plant Effluent	<b>Project:</b>
<b>Receive Date:</b> 07 Jan-10 13:54	<b>Source:</b> NPDES Permit # (XX99999999)	
<b>Sample Age:</b> 28h	<b>Station:</b> Discharge 1 & 2	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
11-8441-1322	Germination Rate	100	>100	N/A	5.46%	1	Dunnett's Multiple Comparison Test
16-2100-0750	Mean Length	100	>100	N/A	8.16%	1	Dunnett's Multiple Comparison Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
07-6754-5715	Mean Length	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

**Germination Rate Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Dilution Water	5	0.904	0.899	0.909	0.89	0.92	0.002449	0.01342	1.48%	0.0%
6.25		5	0.908	0.897	0.919	0.86	0.93	0.005385	0.0295	3.25%	-0.44%
12.5		5	0.894	0.8826	0.9054	0.87	0.94	0.005568	0.0305	3.41%	1.11%
25		5	0.9	0.8905	0.9095	0.87	0.93	0.004655	0.0255	2.83%	0.44%
50		5	0.876	0.8605	0.8915	0.83	0.93	0.007594	0.04159	4.75%	3.1%
100		5	0.886	0.8712	0.9008	0.83	0.94	0.007257	0.03975	4.49%	1.99%

**Mean Length Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Dilution Water	5	12.76	12.58	12.93	12.04	13.16	0.08344	0.457	3.58%	0.0%
6.25		5	12.89	12.5	13.28	11.6	14.05	0.1897	1.039	8.06%	-1.05%
12.5		5	13.11	12.82	13.41	12.27	14.05	0.1451	0.7947	6.06%	-2.8%
25		5	14.14	13.81	14.47	12.93	15.16	0.1618	0.8864	6.27%	-10.84%
50		5	12.98	12.86	13.1	12.49	13.38	0.06039	0.3308	2.55%	-1.75%
100		5	13.16	13.04	13.27	12.71	13.38	0.05758	0.3154	2.4%	-3.15%

# CETIS Summary Report

Report Date: 29 Jan-10 10:04 (p 2 of 2)  
Test Code: 13-6884-1688/10-095

Giant Kelp Chronic

MBC Applied Environmental Sciences

## Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	0.89	0.92	0.91	0.89	0.91
6.25		0.86	0.92	0.93	0.9	0.93
12.5		0.87	0.91	0.94	0.87	0.88
25		0.92	0.87	0.88	0.9	0.93
50		0.93	0.88	0.9	0.83	0.84
100		0.88	0.83	0.9	0.94	0.88

## Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	12.71	13.16	12.71	13.16	12.04
6.25		13.83	12.27	14.05	11.6	12.71
12.5		12.49	12.27	12.93	13.83	14.05
25		14.72	13.6	12.93	14.27	15.16
50		13.38	12.93	12.93	12.49	13.16
100		12.93	13.38	12.71	13.38	13.38

**CETIS Summary Report**

Report Date: 29 Jan-10 10:03 (p 1 of 2)  
 Test Code: 15-0884-3381/10-096

MBC Applied Environmental Sciences

**Giant Kelp Chronic**

<b>Batch ID:</b> 17-3817-2900	<b>Test Type:</b> Growth-Germination (10m)	<b>Analyst:</b>
<b>Start Date:</b> 08 Jan-10 14:00	<b>Protocol:</b> EPA/600/R-95/136 (1995)	<b>Diluent:</b>
<b>Ending Date:</b> 10 Jan-10 13:00	<b>Species:</b> Macrocystis pyrifera	<b>Brine:</b>
<b>Duration:</b> 47h	<b>Source:</b>	<b>Age:</b>
<b>Sample ID:</b> 00-8165-0800	<b>Code:</b> 10-096	<b>Client:</b> ESGS
<b>Sample Date:</b> 07 Jan-10 10:10	<b>Material:</b> Power Plant Effluent	<b>Project:</b>
<b>Receive Date:</b> 07 Jan-10 13:54	<b>Source:</b> NPDES Permit # (XX99999999)	
<b>Sample Age:</b> 28h	<b>Station:</b> Intake	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
03-2649-1098	Germination Rate	100	>100	N/A	3.96%	1	Dunnett's Multiple Comparison Test
16-2155-0955	Mean Length	50	100	70.71	4.62%	2	Dunnett's Multiple Comparison Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
11-4821-0921	Mean Length	IC5	25.89	16.73	70.24	3.862	Linear Interpolation (ICPIN)
		IC10	65.17	52.77	75.6	1.534	
		IC15	86.37	71.62	104.6	1.158	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

**Germination Rate Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Dilution Water	5	0.93	0.9188	0.9412	0.9	0.97	0.005477	0.03	3.23%	0.0%
6.25		5	0.908	0.8987	0.9173	0.89	0.95	0.004546	0.0249	2.74%	2.37%
12.5		5	0.904	0.8932	0.9148	0.86	0.94	0.00526	0.02881	3.19%	2.8%
25		5	0.902	0.8979	0.9061	0.89	0.91	0.002	0.01095	1.21%	3.01%
50		5	0.902	0.8943	0.9097	0.87	0.92	0.003742	0.02049	2.27%	3.01%
100		5	0.926	0.9146	0.9374	0.89	0.96	0.005568	0.0305	3.29%	0.43%

**Mean Length Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Dilution Water	5	13.29	13.16	13.42	12.93	13.6	0.06175	0.3382	2.55%	0.0%
6.25		5	13.47	13.25	13.69	12.71	14.05	0.1062	0.5815	4.32%	-1.34%
12.5		5	13.51	13.42	13.61	13.16	13.83	0.04642	0.2543	1.88%	-1.68%
25		5	12.76	12.63	12.88	12.27	13.16	0.06039	0.3308	2.59%	4.03%
50		5	12.71	12.52	12.91	12.27	13.6	0.09548	0.523	4.11%	4.36%
100		5	11.06	10.93	11.19	10.7	11.6	0.06175	0.3382	3.06%	16.78%

**CETIS Summary Report**

Report Date: 29 Jan-10 10:03 (p 2 of 2)  
Test Code: 15-0884-3381/10-096

Giant Kelp Chronic

MBC Applied Environmental Sciences

**Germination Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	0.9	0.9	0.97	0.94	0.94
6.25		0.89	0.95	0.91	0.89	0.9
12.5		0.94	0.86	0.91	0.9	0.91
25		0.91	0.91	0.89	0.89	0.91
50		0.9	0.87	0.92	0.92	0.9
100		0.9	0.95	0.96	0.89	0.93

**Mean Length Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	12.93	13.38	13.6	13.6	12.93
6.25		14.05	13.38	14.05	12.71	13.16
12.5		13.38	13.6	13.6	13.83	13.16
25		12.71	13.16	12.71	12.27	12.93
50		13.6	12.27	12.49	12.71	12.49
100		10.93	11.6	10.7	10.93	11.15

**CETIS Test Data Worksheet**

Report Date: 29 Jan-10 10:04 (p 1 of 1)  
 Test Code: 13-6884-1688/10-095

**Giant Kelp Chronic**

**MBC Applied Environmental Sciences**

Start Date: 08 Jan-10 14:00 Species: *Macrocystis pyrifera* Sample Code: 10-095  
 End Date: 10 Jan-10 13:00 Protocol: EPA/600/R-95/136 (1995) Sample Source: NPDES Permit #  
 Sample Date: 07 Jan-10 10:00 Material: Power Plant Effluent Sample Station: Discharge 1 & 2

Conc-%	Code	Rep	Pos	# Counted	# Germinated	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	CalFactor	Notes
0	D	1	1	100	89	6	5	7	6	7	6	5	5	5	5	2.23	
0	D	2	2	100	92	9	4	5	7	6	6	6	5	5	6	2.23	
0	D	3	3	100	91	7	5	5	5	6	7	6	5	6	5	2.23	
0	D	4	4	100	89	6	5	7	5	6	7	7	6	5	5	2.23	
0	D	5	5	100	91	8	6	5	4	5	5	5	6	5	5	2.23	
6.25		1	6	100	86	7	7	6	6	5	6	5	7	7	6	2.23	
6.25		2	7	100	92	5	7	6	5	5	6	6	5	5	5	2.23	
6.25		3	8	100	93	6	7	6	5	8	7	5	7	6	6	2.23	
6.25		4	9	100	90	5	5	5	5	5	6	5	5	6	5	2.23	
6.25		5	10	100	93	7	6	6	5	5	6	5	5	7	5	2.23	
12.5		1	11	100	87	5	5	6	7	7	6	5	5	5	5	2.23	
12.5		2	12	100	91	5	6	5	6	6	5	7	5	5	5	2.23	
12.5		3	13	100	94	6	5	5	5	6	7	5	5	7	7	2.23	
12.5		4	14	100	87	7	6	7	6	7	7	7	5	5	5	2.23	
12.5		5	15	100	88	6	7	7	7	7	7	6	6	5	5	2.23	
25		1	16	100	92	7	6	6	7	7	7	6	6	8	6	2.23	
25		2	17	100	87	5	7	5	6	6	5	6	6	7	8	2.23	
25		3	18	100	88	7	6	6	5	7	7	5	5	5	5	2.23	
25		4	19	100	90	8	6	7	6	7	6	6	6	6	6	2.23	
25		5	20	100	93	8	6	8	7	6	7	7	7	7	5	2.23	
50		1	21	100	93	6	6	5	7	7	6	5	7	6	5	2.23	
50		2	22	100	88	7	6	6	5	5	6	5	7	5	6	2.23	
50		3	23	100	90	6	5	6	6	7	7	5	5	5	6	2.23	
50		4	24	100	83	5	6	6	5	5	5	6	6	6	6	2.23	
50		5	25	100	84	6	5	7	7	6	5	6	6	6	6	2.23	
100		1	26	100	88	5	6	5	5	7	6	6	6	6	6	2.23	
100		2	27	100	83	8	6	5	6	6	7	6	5	5	6	2.23	
100		3	28	100	90	7	5	6	4	5	5	7	8	5	5	2.23	
100		4	29	100	94	7	6	5	6	6	5	7	7	5	6	2.23	
100		5	30	100	88	6	5	7	7	6	6	6	6	6	5	2.23	



**CETIS Test Data Worksheet**

Report Date: 29 Jan-10 10:04 (p 1 of 1)  
 Test Code: 15-0884-3381/10-096

Giant Kelp Chronic

MBC Applied Environmental Sciences

Start Date: 08 Jan-10 14:00 Species: *Macrocystis pyrifera* Sample Code: 10-096  
 End Date: 10 Jan-10 13:00 Protocol: EPA/600/R-95/136 (1995) Sample Source: NPDES Permit #  
 Sample Date: 07 Jan-10 10:10 Material: Power Plant Effluent Sample Station: Intake

Conc-%	Code	Rep	Pos	# Counted	# Germinated	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	CalFactor	Notes
0	D	1	1	100	90	6	7	6	6	6	5	6	5	6	5	2.23	
0	D	2	2	100	90	6	6	6	6	7	6	5	6	5	7	2.23	
0	D	3	3	100	97	6	6	6	6	7	5	6	7	5	7	2.23	
0	D	4	4	100	94	6	6	6	5	6	7	7	7	6	5	2.23	
0	D	5	5	100	94	5	7	5	7	6	5	6	5	7	5	2.23	
6.25		1	6	100	89	7	6	5	7	6	6	5	7	7	7	2.23	
6.25		2	7	100	95	6	6	5	6	7	6	5	6	7	6	2.23	
6.25		3	8	100	91	5	6	7	7	6	7	6	6	7	6	2.23	
6.25		4	9	100	89	6	6	6	5	5	6	5	6	6	6	2.23	
6.25		5	10	100	90	7	6	5	5	5	7	5	6	7	6	2.23	
12.5		1	11	100	94	6	7	5	6	8	5	5	5	7	6	2.23	
12.5		2	12	100	86	7	7	6	5	6	6	6	5	6	7	2.23	
12.5		3	13	100	91	6	7	6	6	5	6	5	6	6	8	2.23	
12.5		4	14	100	90	7	6	7	7	8	6	6	5	5	5	2.23	
12.5		5	15	100	91	6	6	6	6	5	6	6	6	6	6	2.23	
25		1	16	100	91	7	7	5	6	6	5	6	5	5	5	2.23	
25		2	17	100	91	7	6	6	6	5	6	6	6	6	5	2.23	
25		3	18	100	89	7	5	6	6	6	6	5	5	5	6	2.23	
25		4	19	100	89	5	6	6	6	6	6	5	5	5	5	2.23	
25		5	20	100	91	7	7	5	5	5	7	6	6	5	5	2.23	
50		1	21	100	90	7	6	6	5	5	6	6	7	8	5	2.23	
50		2	22	100	87	6	6	5	5	6	5	5	5	6	6	2.23	
50		3	23	100	92	6	6	5	5	5	5	5	7	5	7	2.23	
50		4	24	100	92	5	5	6	5	6	5	6	7	6	6	2.23	
50		5	25	100	90	6	6	6	5	6	5	5	5	6	6	2.23	
100		1	26	100	90	5	5	4	5	5	5	5	5	5	5	2.23	
100		2	27	100	95	6	6	6	5	5	5	5	5	5	4	2.23	
100		3	28	100	96	5	5	5	4	5	5	5	5	5	4	2.23	
100		4	29	100	89	5	5	5	5	4	5	5	5	5	5	2.23	
100		5	30	100	93	5	5	5	5	5	5	5	5	5	5	2.23	

**REFERENCE TOXICANT DATA**

## REFERENCE TOXICANT RESULTS DATA

**TEST ORGANISM:** Giant Kelp (*Macrocystis pyrifera*)  
**REFERENCE TOXICANT:** Copper Chloride ( $\mu\text{g/l}$ )

**MBC SAMPLE #:** 10-097  
**MBC QA/QC LOG #:** 130

**TEST START DATE:** 01/08/2010 1400  
**TEST END DATE:** 01/10/2010 1300

Concentration:	Germination Rate: Percent Germinated (%)	Mean Length: Germ-Tube Length ( $\mu\text{m}$ )
Control <sup>1</sup>	93	12.8
5.6 $\mu\text{g/l}$	91	13.6
10 $\mu\text{g/l}$	90	13.9
18 $\mu\text{g/l}$	91	13.0
32 $\mu\text{g/l}$	90	11.2*
100 $\mu\text{g/l}$	16*	7.3*
	NOEL <sup>2</sup> = 32 $\mu\text{g/l}$	NOEL <sup>2</sup> = 18 $\mu\text{g/l}$
	PMSD <sup>3</sup> = 3.69%	PMSD <sup>3</sup> = 6.33%
	CV = 3.11%	CV = 5.96%
	EC <sub>50</sub> <sup>4a</sup> = 62.56 $\mu\text{g/l}$	EC25 <sup>4b</sup> = 44.92 $\mu\text{g/l}$

\* The asterisk indicates a result, which is significantly different from control. A review of the concentration-response graphs indicated the results are reliable and may be used for reporting.

<sup>1</sup> Dilution water used, laboratory seawater.

<sup>2</sup> No Observed Effect Concentration, the highest concentration which showed no effect.

<sup>3</sup> Minimum significant difference from control, should be <20% for germination and growth.

<sup>4a</sup> Concentration at which 50% of organisms were effected.

<sup>4b</sup> Concentration at which 25% of organisms were effected.

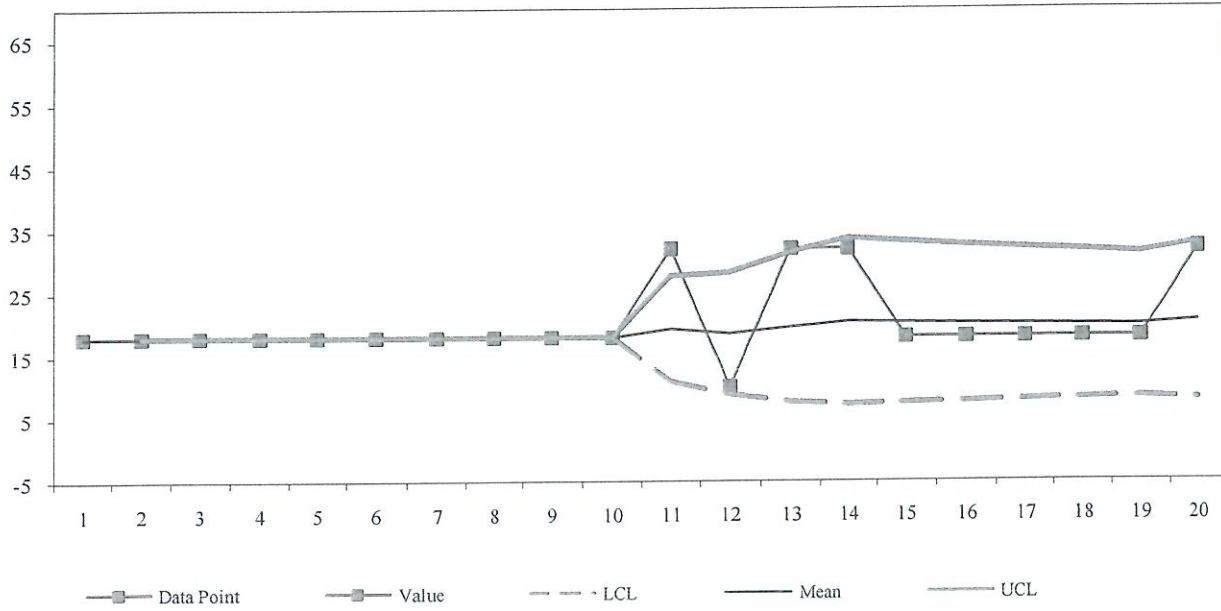
<sup>CV</sup> Coefficient of variation of transformed variates of control.

Macrocystis pyrifera - GERMINATION RATE - NOEC (CuCl  $\mu\text{g/l}$ )

Count : 20  
Mean : 20.40

LCL (-2s.d.) : 7.98  
UCL (+2s.d.) : 32.82

St. Dev. : 6.21  
CV : 30.44%



Data Point	MBC Sample #	Date	Value	LCL	Mean	UCL
111	09-230	02/27/09	18		18	
112	09-244	03/11/09	18	18.000	18	18.000
113	09-261	03/17/09	18	18.000	18	18.000
114	09-274	04/14/09	18	18.000	18	18.000
115	09-333	05/01/09	18	18.000	18	18.000
116	09-315	05/05/09	18	18.000	18	18.000
117	09-328	05/13/09	18	18.000	18	18.000
118	09-356	06/10/09	18	18.000	18	18.000
119	09-383	07/15/09	18	18.000	18	18.000
120	09-416	08/04/09	18	18.000	18	18.000
121	09-429	08/13/09	32	10.830	19	27.715
122	09-449	08/18/09	10	8.833	19	28.167
123	09-450	08/25/09	32	7.633	20	31.444
124	09-469	09/17/09	32	7.192	20	33.665
125	10-015	10/21/09	18	7.450	20	33.083
126	10-035	11/04/09	18	7.691	20	32.559
127	10-049	11/10/09	18	7.917	20	32.083
128	10-071	12/15/09	18	8.129	20	31.649
129	10-091	01/05/10	18	8.328	20	31.251
130	10-097	01/08/10	32	7.979	20	32.821

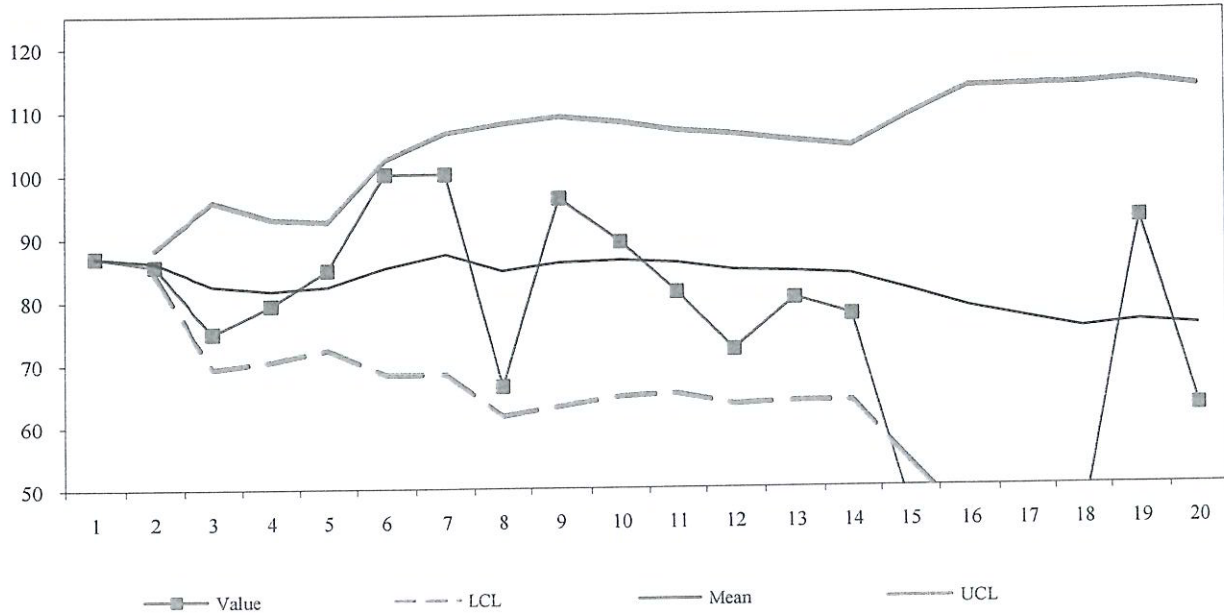
red values are greater < 5.6 or > 100.

**Macrocystis pyrifera - GERMINATION RATE - EC50 (CuCl  $\mu$ g/l)**

Count : 20  
Mean : 75.30

LCL (-2s.d.) : 37.55  
UCL (+2s.d.) : 113.05

St. Dev. : 18.87  
CV : 25.07%

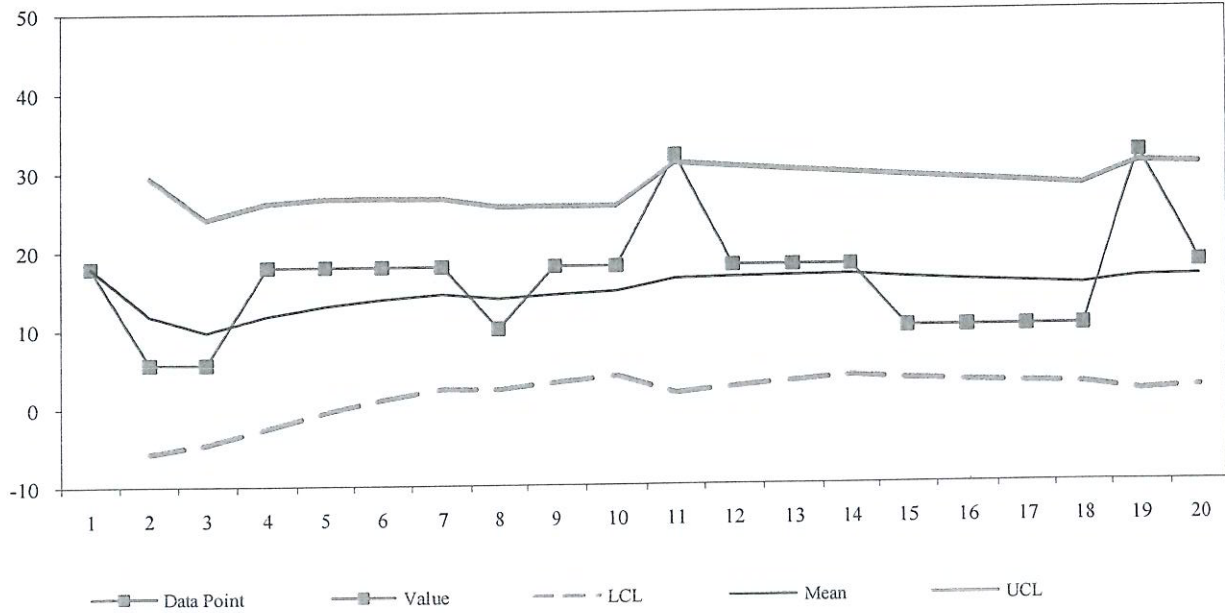


Data Point	MBC Sample #	Date	Value	LCL	Mean	UCL
111	09-230	02/27/09	87		87	
112	09-244	03/11/09	85.6	84.320	86	88.280
113	09-261	03/17/09	74.9	69.262	83	95.738
114	09-274	04/14/09	79.3	70.428	82	92.972
115	09-333	05/01/09	84.9	72.167	82	92.513
116	09-315	05/05/09	100	68.233	85	102.334
117	09-328	05/13/09	100	68.254	87	106.517
118	09-356	06/10/09	66.3	61.598	85	107.902
119	09-383	07/15/09	96.1	63.070	86	108.952
120	09-416	08/04/09	89.2	64.607	86	108.053
121	09-429	08/13/09	81.2	65.025	86	106.702
122	09-449	08/18/09	72	63.288	85	106.129
123	09-450	08/25/09	80.2	63.701	84	105.022
124	09-469	09/17/09	77.5	63.685	84	104.058
125	10-015	10/21/09	46.4	53.936	81	108.811
126	10-035	11/04/09	36.4	43.802	79	113.323
127	10-049	11/10/09	48.1	40.013	77	113.528
128	10-071	12/15/09	45.8	36.517	75	113.583
129	10-091	01/05/10	92.5	37.675	76	114.262
130	10-097	01/08/10	62.6	37.551	75	113.049

red values are greater < 5.6 or > 100.

Macrocystis pyrifera - GERM-TUBE LENGTH - NOEC (CuCl  $\mu\text{g/l}$ )

Count : 20                      LCL (-2s.d.) : 2.00                      St. Dev. : 7.08  
 Mean : 16.16                      UCL (+2s.d.) : 30.32                      CV : 43.80%

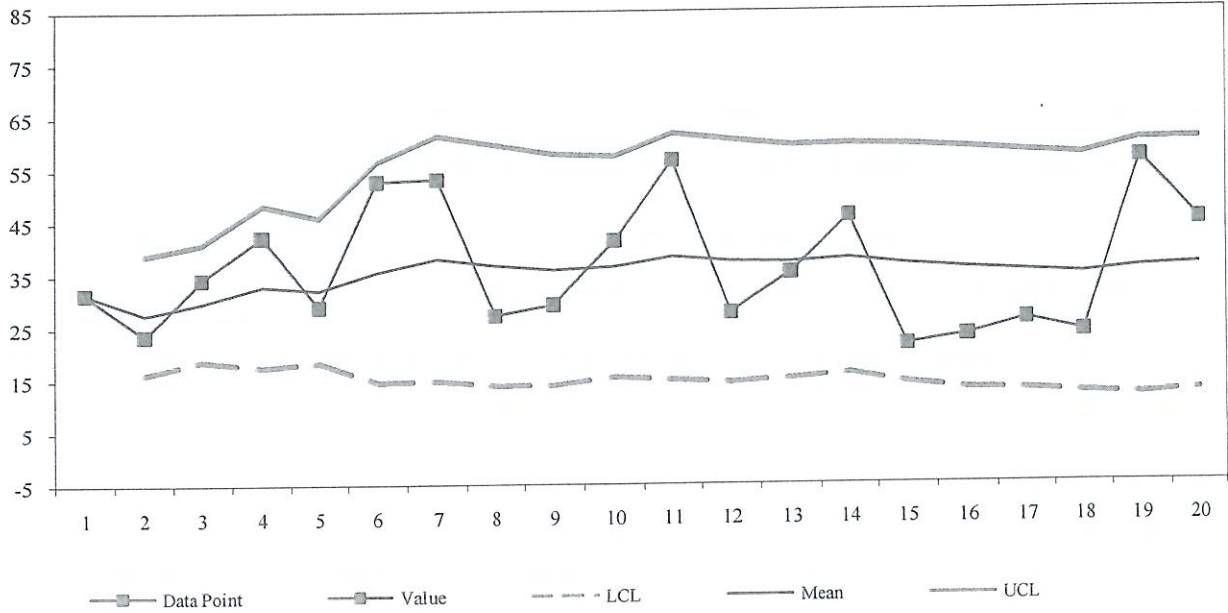


Data Point	MBC Sample #	Date	Value	LCL	Mean	UCL
111	09-230	02/27/09	18		18	
112	09-244	03/11/09	5.6	-5.736	12	29.336
113	09-261	03/17/09	5.6	-4.585	10	24.052
114	09-274	04/14/09	18	-2.518	12	26.118
115	09-333	05/01/09	18	-0.544	13	26.624
116	09-315	05/05/09	18	1.060	14	26.673
117	09-328	05/13/09	18	2.356	14	26.558
118	09-356	06/10/09	10	2.262	14	25.538
119	09-383	07/15/09	18	3.131	14	25.580
120	09-416	08/04/09	18	3.889	15	25.551
121	09-429	08/13/09	32	1.657	16	30.925
122	09-449	08/18/09	18	2.445	16	30.421
123	09-450	08/25/09	18	3.133	17	29.974
124	09-469	09/17/09	18	3.740	17	29.574
125	10-015	10/21/09	10	3.300	16	29.127
126	10-035	11/04/09	10	2.969	16	28.681
127	10-049	11/10/09	10	2.718	15	28.247
128	10-071	12/15/09	10	2.527	15	27.828
129	10-091	01/05/10	32	1.547	16	30.579
130	10-097	01/08/10	18	2.004	16	30.316

red values are greater < 5.6, 18 or > 100.

Macrocystis pyrifera - GERM-TUBE LENGTH - EC25 (CuCl µg/l)

Count : 20                      LCL (-2s.d.) : 12.41                      St. Dev. : 11.98  
 Mean : 36.37                      UCL (+2s.d.) : 60.33                      CV : 32.94%



Data Point	MBC Sample #	Date	Value	LCL	Mean	UCL
111	09-230	02/27/09	31.6		32	
112	09-244	03/11/09	23.6	16.286	28	38.914
113	09-261	03/17/09	34.3	18.704	30	40.962
114	09-274	04/14/09	42.3	17.523	33	48.377
115	09-333	05/01/09	29	18.341	32	45.979
116	09-315	05/05/09	52.9	14.651	36	56.582
117	09-328	05/13/09	53.3	14.798	38	61.487
118	09-356	06/10/09	27.3	13.855	37	59.720
119	09-383	07/15/09	29.3	13.931	36	57.980
120	09-416	08/04/09	41.5	15.451	37	57.569
121	09-429	08/13/09	56.7	14.950	38	61.741
122	09-449	08/18/09	27.7	14.320	37	60.597
123	09-450	08/25/09	35.3	15.107	37	59.478
124	09-469	09/17/09	46.1	16.093	38	59.750
125	10-015	10/21/09	21.5	14.147	37	59.506
126	10-035	11/04/09	23.2	13.029	36	58.921
127	10-049	11/10/09	26.3	12.699	35	58.113
128	10-071	12/15/09	23.79	12.061	35	57.460
129	10-091	01/05/10	56.8	11.653	36	60.188
130	10-097	01/08/10	44.9	12.410	36	60.329

red values are greater < 3.6, 18 or > 100.

NPDES,  
ROUTINE SAMPLE  
COLLECTION PROCEDURES



*NRG El Segundo Power, LLC*

Approved by:

Shawn Simmons / s e e

2/11/10  
Date



## RESPONSIBILITIES FOR ROUTINE NPDES SAMPLES

### OVERVIEW

Personnel from an outside laboratory come to El Segundo three times per week to perform a chlorination cycle. They also collect monthly, quarterly, semi-annual, and annual samples. Each time they arrive and depart the station, they check in with the control room. They perform the following tests in the field.

1. pH
2. Chlorine residual, free and total

On a monthly basis they also collect samples of the retention basin for:

1. Total suspended solids
2. Oil and grease

During a chlorination cycle the contract laboratory technician adds sodium hypochlorite to each Units 3&4 condenser circulating half for 30 minutes. The sequence is typically done automatically using an automatic timer. The technician is responsible for checking the flow of hypochlorite to each circulator at the intake structure, adjusting the flow of hypochlorite from the storage tank using the valve at the outlet of the hypochlorite feed pump, and recording the hypochlorite tank level before and after chlorination.

The contract technician measures the free and total chlorine at the outfall at 25, 30, and 35 minutes following the start of chlorination addition to a selected circulator half.

### NUMBERING SYSTEM FOR IDENTIFYING SAMPLES

A sample identification system is required by the Department of Health Services. Each sample bottle must have a unique identification number. El Segundo uses the use the numbering system below.

EL	-	XX	XX	XX	-	XXX	-	XX	-	X
station		year	mo.	day		sample point		analyte		replicate
abbreviation						abbreviation		abbreviation		no.

For example, EL-990704-RB-TSS-2 would specify a duplicate sample for total suspended solids collected from the retention basin on July 4, 1999.

## INSTRUCTIONS FOR PH. CHLORINE

### 1. pH

Determination of pH is to follow Standards Method SM 4500-H<sup>-</sup> B. In accordance with 40 CFR, Part 136, the pH of samples is done within fifteen minutes of collection. A measurement is done electrometrically using either a glass electrode in combination with a reference or combination electrode.

The pH meter is calibrated using two commercial buffers that bracket the expected pH of the sample and are at least 3 pH units apart. After calibrating, the pH of the buffers is rechecked and must be within  $\pm 0.05$  pH units of the value listed on the bottle for t°C.

10% of all pH analyses or one analysis per month (whichever is greater) are done in duplicate. As a rule of thumb, this is best met by analyzing the 1<sup>st</sup>, 11<sup>th</sup>, 21<sup>st</sup>, etc. sample of the month in duplicate.

### 2. Residual chlorine

Determination of residual chlorine follows Standard Methods 4500-Cl G, 18th edition (the DPD colorimetric method) immediately following sample collection. Both free and total chlorine are measured. The standard reference curve employed in the colorimeter is to be checked routinely using secondary and primary standards. A method detection limit of 0.02 mg/L applies when a reagent blank is analyzed concurrently with the sample and the blank value is subtracted from the sample result. A method detection limit of 0.03 mg/L applies when a reagent blank is not analyzed concurrently with the sample.

10% of all pH analyses or one analysis per month (whichever is greater) are done in duplicate. As a rule of thumb, this is best met by analyzing the 1<sup>st</sup>, 11<sup>th</sup>, 21<sup>st</sup>, etc. sample of the month in duplicate.

## INSTRUCTIONS FOR OIL AND GREASE AND TOTAL SUSPENDED SOLIDS

### 1. Oil and Grease

Oil and grease samples are to be collected in clean 1000-mL glass containers that contain 5 mL 1+1 HCl preservative. They containers are not allowed to be pre-rinsed with sample prior to collection. Oil and grease samples are to be stored refrigerated. The maximum holding time is 28 days.

A duplicate sample and spiked sample are normally done monthly.

### 2. Total suspended solids (a.k.a. non-filterable residue)

Samples are to be collected in clean 1-liter plastic containers and stored refrigerated until pick up. The maximum holding time is 7 days.

A duplicate samples is normally done monthly.

## SAMPLE POINT DESCRIPTIONS AND SAMPLING PROCEDURES

The waste discharge permit for El Segundo Power requires that pH, chlorine, oil and grease, suspended solids, and settleable solids be sampled and analyzed. The following is a description of the sample points and the method of sample collection.

1. Units 1 and 2 circulating water discharge - Discharge Serial No. 001

Cooling water for Units 1 and 2 condensers comes from the Pacific Ocean. Cooling water enters the plant through an underground closed conduit that terminates in a rectangular vault from which the circulating water pumps take suction. There are four pumps. Two pumps serve one unit, each pump supplying cooling water to one half of a divided waterbox condenser. The return lines from the condenser halves of each unit meet and form an underground conduit that carries the circulating water to the outfall structure. From the outfall structure a closed underground tunnel returns the water to the ocean.

2. Units 3 and 4 circulating water discharge - Discharge Serial No. 002

Cooling water for units 3 and 4 condensers comes from the Pacific Ocean. Cooling water enters the plant through an underground conduit that terminates at the intake structure where the seawater is uniformly distributed to four circulating water pumps. Two pumps serve Unit 3, and two pumps serve Unit 4. Each pump supplies cooling water to one half of a divided waterbox condenser. The return lines from the four condenser halves ultimately meet to form a single underground conduit that terminates at the outfall structure. From the outfall structure the circulating water returns to the ocean through an underground pipe. To control microbiological growth in the circulating water system, sodium hypochlorite solution is fed intermittently by gravity to each pump suction.

Circulating water is sampled at the outfall structure using a Teflon™ bailer.

Following the start of a chlorination cycle, chlorine is tested at 25, 30, and 35 minutes to a selected circulator half to catch the residual chlorine level at its highest. The highest of the three readings is reported to the Water Board.

The sample identifier for the Units 3 and 4 circulating water discharge is:

EL	-	XX	XX	XX	-	002	-	XX	-	X
station		year	mo.	day		serial no.		parameter		trial #

For example, EL-002-970306-CL-2 would specify a duplicate Cl<sub>2</sub> test done on this point on March 6, 1997.

3. Units 1 and 2 waste treatment plant

A small sewage treatment plant serves Units 1 and 2. The contractor who operates the plant is responsible for sampling the plant effluent. The effluent is analyzed for oil and grease, total suspended solids, and settleable solids. Samples are taken from the clarifier section as it overflows the weir into the outlet channel, directly in the sample bottles provided by the station chemical technician.

The sample identifier number for the Units 1 and 2 waste treatment plant is:

EL	-	XX	XX	XX	-	WTP1	-	XX	-	X
station		year	mo.	day		waste treatment plant #1		parameter		trial #

For example, EL-WTP1-970506-SS would specify a settleable solids sample collected on this point on May 6, 1997.

4. Units 3 and 4 waste treatment plant

A small sewage treatment plant serves Units 3 and 4. The contractor who operates the plant is responsible for sampling the plant effluent. The effluent is analyzed for oil and grease, total suspended solids, and settleable solids. Samples are taken from the clarifier section as it overflows the weir into the outlet channel, directly in the sample bottles provided by the station chemical technician.

The sample identifier number for the Units 3 and 4 waste treatment plant is:

EL	-	XX	XX	XX	-	WTP2	-	XX	-	X
station		year	mo.	day		waste treatment plant #2		parameter		trial #

5. Retention basin

Miscellaneous station wastewater streams collect in the retention basin. The retention basin drains to the Unit 3 and 4 outfall through a metering chamber containing perforated standpipe that controls the flow of water out of the chamber. The retention basin is sampled through a line connected to the bottom of the standpipe. A second line, terminating at a valve that opens into the metering basin, is also tied into the standpipe. Normally, this valve must be opened to provide adequate flow through the sample line. The sample line, which is very short, is allowed to flush about 15 seconds before the samples are taken. Samples for oil and grease and total suspended solids are taken directly in the sample bottles.

The sample identifier number is:

EL	-	XX	XX	XX	-	RB(N/S)	-	XX	-	X
station		year	mo.	day		retention basin		parameter		trial #

For example, EL-970306-RBN-OG-3 would specify a triplicate oil and grease sample bottle collected on March 6, 1997 from the North retention basin.



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**POWER PRODUCTION CHEMICAL, SOUTHERN CALIFORNIA EDISON**

7301 FENWICK LANE, 2nd FLOOR  
WESTMINSTER, CA 92683-5202

Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1949  
Expiration Date: 11/30/2011  
Effective Date: 12/1/2009

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

Richmond, California  
subject to forfeiture or revocation



MARK B HORTON, MD, MSPH  
Director

State of California—Health and Human Services Agency  
California Department of Public Health



ARNOLD SCHWARZENEGGER  
Governor

November 16, 2009

SHAWN SIMMONS  
POWER PRODUCTION CHEMICAL, SOUTHERN CALIFORNIA EDISON  
7301 FENWICK LANE, 2nd FLOOR  
WESTMINSTER, CA 92683-5202

Dear SHAWN SIMMONS:

Certificate No 1949

This is to advise you that the laboratory named above continues to be certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq. Certification for all currently certified Fields of Testing that the laboratory has applied for renewal shall remain in effect until 11/30/2011 unless it is revoked.

**Please note that the renewal application for certification is subject to an on-site process, and the continued use of this certificate is contingent upon:**

- \* successful completion of the on-site process;
- \* acceptable performance in the required proficiency testing (PT) studies;
- \* timely payment of all fees, including an annual fee due before November 30, 2010;
- \* compliance with Environmental Laboratory Accreditation Program Branch (ELAP) statutes (HSC, Section 100825, et seq.) and Regulations (California Code of Regulations (CCR), Title 22, Division 4, Chapter 19).

An updated certificate of the "Fields of Testing" will be issued to the laboratory upon successful completion of the on-site process.

The application for the renewal of this certificate must be received before the expiration date to remain in force according to the HSC100845(a).

Please note that the laboratory is required to notify ELAP of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (HSC, Section 100845(b)(d)). Please include the above certificate number in all your correspondence with ELAP.

If you have any questions, please contact ELAP at (510) 620-3155.

Sincerely,

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

**CALIFORNIA DEPARTMENT OF HEALTH SERVICES  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing**

**POWER PRODUCTION CHEMICAL, SOUTHERN CALIFORNIA EDISON**

Lab Phone (714) 895-0525

7301 FENWICK LANE, 2nd FLOOR  
WESTMINSTER, CA 92683

Certificate No: 1949      Renew Date: 11/30/2007

**Field of Testing: 102 - Inorganic Chemistry of Drinking Water**

102.045	001	Perchlorate	EPA 314.0
102.100	001	Alkalinity	SM2320B
102.121	001	Hardness	SM2340C
102.130	001	Conductivity	SM2510B
102.140	001	Total Dissolved Solids	SM2540C
102.240	001	Phosphate, Ortho	SM4500-P E
102.530	001	Calcium	SM3500-Ca D

**Field of Testing: 108 - Inorganic Chemistry of Wastewater**

108.050	001	pH	EPA 150.1
108.110	001	Turbidity	EPA 180.1
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite, Total	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.270	001	Dissolved Silica	EPA 370.1
108.380	001	Oil and Grease	EPA 1664
108.400	001	Acidity	SM2310B
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.421	001	Hardness	SM2340C
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.445	001	Calcium	SM3111B
108.445	003	Magnesium	SM3111B
108.445	004	Potassium	SM3111B
108.445	005	Sodium	SM3111B
108.465	001	Chlorine	SM4500-Cl G
108.531	001	Dissolved Oxygen	SM4500-O G
108.560	001	Sulfite	SM4500-SO3 B
108.580	001	Sulfide	SM4500-S= D



POWER PRODUCTION CHEMICAL, SOUTHERN CALIFORNIA E

Certificate No: 1949  
Renew Date: 11/30/2007

108.590	001	Biochemical Oxygen Demand	SM5210B
108.611	001	Total Organic Carbon	SM5310C
108.660	001	Chemical Oxygen Demand	HACH8000
108.672	001	Phosphate, Ortho	HACH8048
108.903	001	Boron	SM4500-B B
<hr/>			
Field of Testing: 109 - Toxic Chemical Elements of Wastewater			
109.370	006	Copper	SM3111B
109.370	009	Iron	SM3111B
109.410	009	Copper	SM3113B

STATE OF CALIFORNIA—HEALTH AND HUMAN SERVICES AGENCY

**DEPARTMENT OF HEALTH SERVICES**  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM (ELAP)  
1449 W. TEMPLE STREET, ROOM 231  
LOS ANGELES, CA 90028-5698  
(213) 580-5731



May 2, 2000

Mr. Shawn Simmons  
Water Technology Resources  
Southern California Edison Company  
7103 Marcelle Street  
Paramount, California 90723-4840

Dear Mr. Simmons:

Thank you for your April 26, 2000 letter describing your laboratory's policy for the field measurement of pH and Res Cl<sub>2</sub>.

It is the opinion of the program that field measurement by qualified staff from your laboratory is appropriate for these specific analytes.

These tests may be performed in the field but must be performed by an accredited laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Spinner".

Richard Spinner  
Public Health Chemist III, Supervisor  
Environmental Laboratory Accreditation Program



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**CRG MARINE LABORATORIES, INC.**

2020 DEL AMO BLVD., SUITE 200  
TORRANCE, CA 90501

Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.


This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 2261

Expiration Date: 06/30/2011

Effective Date: 07/01/2009

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing



CRG MARINE LABORATORIES, INC.

Lab Phone (310) 533-5190

2020 DEL AMO BLVD., SUITE 200  
TORRANCE, CA 90501

Certificate No: 2261 Renew Date: 6/30/2011

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM9215B
101.060	002	Total Coliform	SM9223
101.060	003	E. coli	SM9223

Field of Testing: 107 - Microbiology of Wastewater

107.010	001	Heterotrophic Bacteria	SM9215B
107.020	001	Total Coliform	SM9221B
107.040	001	Fecal Coliform	SM9221C,E (MTF/EC)
107.060	001	Total Coliform	SM9222B
107.080	001	Fecal Coliform	SM9222D
107.110	001	Fecal Streptococci	SM9230C (MF/ME)

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.090	001	Residue, Volatile	EPA 160.4
108.110	001	Turbidity	EPA 180.1
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite	EPA 300.0
108.120	007	Phosphate, Ortho	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.380	001	Oil and Grease	EPA 1664
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.452	001	Chloride	SM4500-Cl- E
108.465	001	Chlorine	SM4500-Cl G
108.470	001	Cyanide, Manual Distillation	SM4500-CN C
108.472	001	Cyanide, Total	SM4500-CN E
108.493	001	Ammonia	SM4500-NH3 D or E (19th/20th)
108.520	001	Nitrate-nitrite	SM4500-NO3 E

As of 8/3/2009, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

108.521	001	Nitrate calc.	SM4500-NO3 E
108.530	001	Dissolved Oxygen	SM4500-O C
108.540	001	Phosphate, Ortho	SM4500-P E
108.541	001	Phosphorus, Total	SM4500-P E
108.550	001	Dissolved Silica	SM4500-Si D (18th/19th)
108.580	001	Sulfide	SM4500-S= D
108.640	001	Surfactants	SM5540C

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	019	Mercury	EPA 200.8
109.191	001	Mercury	EPA 245.2
109.360	001	Mercury	EPA 1631

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.040	040	Halogenated Hydrocarbons	EPA 624
110.040	041	Aromatic Compounds	EPA 624
110.040	042	Oxygenates	EPA 624
110.040	043	Other Volatile Organics	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.101	030	Pesticides	EPA 625
111.101	031	PCBs	EPA 625
111.101	032	Polynuclear Aromatic Hydrocarbons	EPA 625
111.101	033	Adipates	EPA 625
111.101	034	Phthalates	EPA 625
111.101	036	Other Extractables	EPA 625

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

CRG MARINE LABORATORIES, INC.

Certificate No: 2261  
Renew Date: 6/30/2011

116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
<b>Field of Testing: 126 - Microbiology of Recreational Water</b>			
126.010	001	Total Coliform (Enumeration)	SM9221A,B,C
126.020	001	Total Coliform (Enumeration)	SM9222A,B
126.030	001	Fecal Coliform (Enumeration)	SM9221E
126.040	001	Fecal Coliform (Enumeration)	SM9222D
126.050	001	Total Coliform and E. coli	SM9223
126.060	001	Enterococci	SM9230C
126.080	001	Enterococci	Enterolert



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.**

29 NORTH OLIVE STREET  
VENTURA, CA 93001

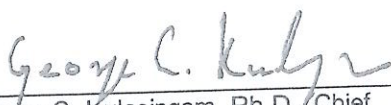
Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1907  
Expiration Date: 07/31/2011  
Effective Date: 07/01/2009

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D./Chief  
Environmental Laboratory Accreditation Program Branch



**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing**



AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.  
29 NORTH OLIVE STREET  
VENTURA, CA 93001  
Phone: (805) 643-5621

Certificate No.: 1907  
Renew Date: 7/31/2011

**Field of Testing: 108 - Inorganic Chemistry of Wastewater**

108.490 001 pH SM4500-H+B

**Field of Testing: 113 - Whole Effluent Toxicity of Wastewater**

113.010	001A	Fathead Minnow ( <i>P. promelas</i> )	EPA 600/4-90/027F, Static
113.010	001B	Fathead Minnow ( <i>P. promelas</i> )	EPA 600/4-90/027F, Static Renewal
113.010	003A	Rainbow trout ( <i>O. mykiss</i> )	EPA 600/4-90/027F, Static
113.010	003B	Rainbow trout ( <i>O. mykiss</i> )	EPA 600/4-90/027F, Static Renewal
113.010	005A	Daphnid ( <i>C. dubia</i> )	EPA 600/4-90/027F, Static
113.010	005B	Daphnid ( <i>C. dubia</i> )	EPA 600/4-90/027F, Static Renewal
113.010	006A	Daphnia spp.	EPA 600/4-90/027F, Static
113.010	006B	Daphnia spp.	EPA 600/4-90/027F, Static Renewal
113.010	008A	Topsmelt ( <i>A. affinis</i> )	EPA 600/4-90/027F, Static
113.010	008B	Topsmelt ( <i>A. affinis</i> )	EPA 600/4-90/027F, Static Renewal
113.010	009A	Silverside ( <i>Menidia</i> spp.)	EPA 600/4-90/027F, Static
113.010	009B	Silverside ( <i>Menidia</i> spp.)	EPA 600/4-90/027F, Static Renewal
113.010	012A	Mysid ( <i>M. bahia</i> )	EPA 600/4-90/027F, Static
113.010	012B	Mysid ( <i>M. bahia</i> )	EPA 600/4-90/027F, Static Renewal
113.021	001A	Fathead Minnow ( <i>P. promelas</i> )	EPA 2000 (EPA-821-R-02-012), Static
113.021	001B	Fathead Minnow ( <i>P. promelas</i> )	EPA 2000 (EPA-821-R-02-012), Static Renewal
113.022	003A	Rainbow trout ( <i>O. mykiss</i> )	EPA 2019 (EPA-821-R-02-012), Static
113.022	003B	Rainbow trout ( <i>O. mykiss</i> )	EPA 2019 (EPA-821-R-02-012), Static Renewal
113.023	005A	Daphnid ( <i>C. dubia</i> )	EPA 2002 (EPA-821-R-02-012), Static
113.023	005B	Daphnid ( <i>C. dubia</i> )	EPA 2002 (EPA-821-R-02-012), Static Renewal
113.024	006A	Daphnia spp.	EPA 2021 (EPA-821-R-02-012), Static
113.024	006B	Daphnia spp.	EPA 2021 (EPA-821-R-02-012), Static Renewal
113.025	009A	Silverside ( <i>Menidia</i> spp.)	EPA 2006 (EPA-821-R-02-012), Static
113.025	009B	Silverside ( <i>Menidia</i> spp.)	EPA 2006 (EPA-821-R-02-012), Static Renewal
113.027	012A	Mysid ( <i>M. bahia</i> )	EPA 2007 (EPA-821-R-02-012), Static
113.027	012B	Mysid ( <i>M. bahia</i> )	EPA 2007 (EPA-821-R-02-012), Static Renewal
113.028	008A	Topsmelt ( <i>A. affinis</i> )	EPA-821-R-02-012, Static
113.028	008B	Topsmelt ( <i>A. affinis</i> )	EPA-821-R-02-012, Static Renewal
113.040	001	Fathead Minnow ( <i>P. promelas</i> )	EPA 1000 (EPA/600/4-91/002)
113.041	001	Fathead Minnow ( <i>P. promelas</i> )	EPA 1000 (EPA-821-R-02-013)
113.050	005	Daphnid ( <i>C. dubia</i> )	EPA 1002 (EPA/600/4-91/002)
113.051	005	Daphnid ( <i>C. dubia</i> )	EPA 1002 (EPA-821-R-02-013)
113.060	020	Green algae ( <i>S. capricornutum</i> )	EPA 1003 (EPA/600/4-91/002)



AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.

Certificate No 1907  
Renew Date: 7/31/2011

113.061	020	Green algae ( <i>S. capricornutum</i> )	EPA 1003 (EPA-821-R-02-013)
113.080	009	Silverside ( <i>Menidia</i> spp.)	EPA 1006 (EPA/600/4-91/003)
113.081	009	Silverside ( <i>Menidia</i> spp.)	EPA 1006 (EPA-821-R-02-014)
113.090	012	Mysid ( <i>M. bahia</i> )	EPA 1007 (EPA/600/4-91/003)
113.091	012	Mysid ( <i>M. bahia</i> )	EPA 1007 (EPA-821-R-02-014)
113.120	008	Topsmelt ( <i>A. affinis</i> )	EPA 600/R-95/136
113.120	014	Pacific oyster ( <i>C. gigas</i> )	EPA 600/R-95/136
113.120	015D	Sand dollar ( <i>D. excentricus</i> )	EPA 600/R-95/136, Fertilization Test
113.120	015E	Sand dollar ( <i>D. excentricus</i> )	EPA 600/R-95/136, Development Test
113.120	017D	Purple sea urchin ( <i>S. purpuratus</i> )	EPA 600/R-95/136, Fertilization Test
113.120	017E	Purple sea urchin ( <i>S. purpuratus</i> )	EPA 600/R-95/136, Development Test
113.120	019	Mussels ( <i>Mytilus</i> spp.)	EPA 600/R-95/136
113.120	022	Giant kelp ( <i>M. pyrifera</i> )	EPA 600/R-95/136
113.120	023	Red abalone ( <i>H. rufescens</i> )	EPA 600/R-95/136

Field of Testing: 119 - Toxicity Bioassay of Hazardous Waste

119.010	001	Fathead Minnow ( <i>P. promelas</i> )	Polisini & Miller (CDFG 1988)
119.010	003	Rainbow trout ( <i>O. mykiss</i> )	Polisini & Miller (CDFG 1988)

Field of Testing: 126 - Microbiology of Recreational Water

126.010	001	Total Coliform (Enumeration)	SM9221A,B,C
126.030	001	Fecal Coliform (Enumeration)	SM9221E
126.050	001	Total Coliform and <i>E. coli</i>	SM9223
126.080	001	Enterococci	IDEXX



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**MBC APPLIED ENVIRONMENTAL SCIENCES**

3000 RED HILL AVENUE

COSTA MESA, CA 92626

Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1788

Expiration Date: 07/31/2010

Effective Date: 07/01/2008

Richmond, California  
subject to forfeiture or revocation

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing**



**MBC APPLIED ENVIRONMENTAL SCIENCES**

Lab Phone (714) 850-4830

3000 RED HILL AVENUE  
COSTA MESA, CA 92626

**Certificate No: 1788      Renew Date: 07/31/2010**

Field of Testing: 113 - Whole Effluent Toxicity of Wastewater		
113.010	001A	Fathead Minnow ( <i>P. promelas</i> )      EPA 600/4-90/027F, Static
113.010	001B	Fathead Minnow ( <i>P. promelas</i> )      EPA 600/4-90/027F, Static Renewal
113.010	003A	Rainbow trout ( <i>O. mykiss</i> )      EPA 600/4-90/027F, Static
113.010	003B	Rainbow trout ( <i>O. mykiss</i> )      EPA 600/4-90/027F, Static Renewal
113.010	005A	Daphnid ( <i>C. dubia</i> )      EPA 600/4-90/027F, Static
113.010	005B	Daphnid ( <i>C. dubia</i> )      EPA 600/4-90/027F, Static Renewal
113.010	008A	Topsmelt ( <i>A. affinis</i> )      EPA 600/4-90/027F, Static
113.010	008B	Topsmelt ( <i>A. affinis</i> )      EPA 600/4-90/027F, Static Renewal
113.010	009A	Silverside ( <i>Menidia</i> spp.)      EPA 600/4-90/027F, Static
113.010	009B	Silverside ( <i>Menidia</i> spp.)      EPA 600/4-90/027F, Static Renewal
113.010	012A	Mysid ( <i>M. bahia</i> )      EPA 600/4-90/027F, Static
113.010	012B	Mysid ( <i>M. bahia</i> )      EPA 600/4-90/027F, Static Renewal
113.021	001A	Fathead Minnow ( <i>P. promelas</i> )      EPA 2000 (EPA-821-R-02-012), Static
113.021	001B	Fathead Minnow ( <i>P. promelas</i> )      EPA 2000 (EPA-821-R-02-012), Static Renewal
113.022	003A	Rainbow trout ( <i>O. mykiss</i> )      EPA 2019 (EPA-821-R-02-012), Static
113.022	003B	Rainbow trout ( <i>O. mykiss</i> )      EPA 2019 (EPA-821-R-02-012), Static Renewal
113.023	005A	Daphnid ( <i>C. dubia</i> )      EPA 2002 (EPA-821-R-02-012), Static
113.023	005B	Daphnid ( <i>C. dubia</i> )      EPA 2002 (EPA-821-R-02-012), Static Renewal
113.025	009A	Silverside ( <i>Menidia</i> spp.)      EPA 2006 (EPA-821-R-02-012), Static
113.025	009B	Silverside ( <i>Menidia</i> spp.)      EPA 2006 (EPA-821-R-02-012), Static Renewal
113.027	012A	Mysid ( <i>M. bahia</i> )      EPA 2007 (EPA-821-R-02-012), Static
113.027	012B	Mysid ( <i>M. bahia</i> )      EPA 2007 (EPA-821-R-02-012), Static Renewal
113.028	008A	Topsmelt ( <i>A. affinis</i> )      EPA-821-R-02-012, Static
113.028	008B	Topsmelt ( <i>A. affinis</i> )      EPA-821-R-02-012, Static Renewal
113.040	001	Fathead Minnow ( <i>P. promelas</i> )      EPA 1000 (EPA/600/4-91/002)
113.041	001	Fathead Minnow ( <i>P. promelas</i> )      EPA 1000 (EPA-821-R-02-013)
113.050	005	Daphnid ( <i>C. dubia</i> )      EPA 1002 (EPA/600/4-91/002)
113.051	005	Daphnid ( <i>C. dubia</i> )      EPA 1002 (EPA-821-R-02-013)
113.080	009	Silverside ( <i>Menidia</i> spp.)      EPA 1006 (EPA/600/4-91/003)
113.081	009	Silverside ( <i>Menidia</i> spp.)      EPA 1006 (EPA-821-R-02-014)
113.090	012	Mysid ( <i>M. bahia</i> )      EPA 1007 (EPA/600/4-91/003)
113.091	012	Mysid ( <i>M. bahia</i> )      EPA 1007 (EPA-821-R-02-014)
113.120	008	Topsmelt ( <i>A. affinis</i> )      EPA 600/R-95/136
113.120	022	Giant kelp ( <i>M. pyrifera</i> )      EPA 600/R-95/136
113.120	023	Red abalone ( <i>H. rufescens</i> )      EPA 600/R-95/136

**MBC APPLIED ENVIRONMENTAL SCIENCES**

**Certificate No:** 1788  
**Renew Date:** 07/31/2010

---

**Field of Testing: 119 - Toxicity Bioassay of Hazardous Waste**

---

119.010	001	Fathead Minnow ( <i>P. promelas</i> )	Polisini & Miller (CDFG 1988)
119.010	003	Rainbow trout ( <i>O. mykiss</i> )	Polisini & Miller (CDFG 1988)

---



NELAP - RECOGNIZED



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF NELAP ACCREDITATION**

Is hereby granted to

**CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.**

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427


Scope of the Certificate is limited to the  
"NELAP Fields of Accreditation"  
which accompany this Certificate.

Continued accredited status depends on successful  
ongoing participation in the program.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 03220CA  
Expiration Date: 09/30/2010  
Effective Date: 10/01/2009

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



MARK B HORTON, MD, MSPH  
Director

State of California—Health and Human Services Agency  
California Department of Public Health



ARNOLD SCHWARZENEGGER  
Governor

September 14, 2009

STEVEN L. LANE  
CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.  
7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427

Dear STEVEN L. LANE:

Certificate No. 03220CA

This is to advise you that the laboratory named above has been accredited under National Environmental Laboratory Accreditation Program (NELAP) as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.

The Fields of Accreditation for which this laboratory has been accredited are enclosed. Accreditation shall remain in effect until **September 30, 2010** unless revoked by ELAP or withdrawn at your written request. To maintain accreditation, the laboratory shall comply with the National Environmental Laboratory Accreditation Conference (NELAC) Standards and all associated California Environmental Laboratory Accreditation Program Branch (ELAP) regulations and statutes.

The application for renewal of this certificate must be received before the expiration date of this certificate to remain in force according to the HSC 100845(a).

Please note that your laboratory is required to notify California ELAP of any major changes in key accreditation criteria within 30 calendar days of the change. This written notification includes, but is not limited to, changes in ownership, location, key personnel, and major instrumentation (HSC 100845(b) and (d), and NELAC Standard Section 4.3.2). The certificate must be returned to California ELAP upon loss of accredited status.

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories accredited by the State of California.

If you have any questions, please contact Rosalinda Lomboy at (213) 580-5731.

Sincerely,

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

Enclosure



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM - NELAP RECOGNIZED  
NELAP Fields of Accreditation



CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427  
Lab Phone (714) 895-5494

Certificate No.: 03220CA  
Renew Date: 9/30/2010

108 - Inorganic Chemistry of Wastewater

108.200	001	EPA 350.1	Ammonia
108.211	001	EPA 351.2	Kjeldahl Nitrogen
108.260	001	EPA 365.1	Phosphate, Ortho
108.261	001	EPA 365.1	Phosphorus, Total

110 - Volatile Organic Chemistry of Wastewater

110.020	000	EPA 602	Aromatic Volatiles
110.020	001	EPA 602	Benzene
110.020	002	EPA 602	Chlorobenzene
110.020	003	EPA 602	1,2-Dichlorobenzene
110.020	004	EPA 602	1,3-Dichlorobenzene
110.020	005	EPA 602	1,4-Dichlorobenzene
110.020	006	EPA 602	Ethylbenzene
110.020	007	EPA 602	Toluene
110.040	001	EPA 624	Benzene
110.040	002	EPA 624	Bromodichloromethane
110.040	003	EPA 624	Bromoform
110.040	004	EPA 624	Bromomethane
110.040	005	EPA 624	Carbon Tetrachloride
110.040	006	EPA 624	Chlorobenzene
110.040	007	EPA 624	Chloroethane
110.040	008	EPA 624	2-Chloroethyl Vinyl Ether
110.040	009	EPA 624	Chloroform
110.040	010	EPA 624	Chloromethane
110.040	011	EPA 624	Dibromochloromethane
110.040	012	EPA 624	1,2-Dichlorobenzene
110.040	013	EPA 624	1,3-Dichlorobenzene
110.040	014	EPA 624	1,4-Dichlorobenzene
110.040	015	EPA 624	1,1-Dichloroethane
110.040	016	EPA 624	1,2-Dichloroethane
110.040	017	EPA 624	1,1-Dichloroethene
110.040	018	EPA 624	trans-1,2-Dichloroethene
110.040	019	EPA 624	1,2-Dichloropropane
110.040	020	EPA 624	cis-1,3-Dichloropropene

110.040	021	EPA 624	trans-1,3-Dichloropropene
110.040	022	EPA 624	Ethylbenzene
110.040	023	EPA 624	Methylene Chloride
110.040	024	EPA 624	1,1,2,2-Tetrachloroethane
110.040	025	EPA 624	Tetrachloroethene
110.040	026	EPA 624	Toluene
110.040	027	EPA 624	1,1,1-Trichloroethane
110.040	028	EPA 624	1,1,2-Trichloroethane
110.040	029	EPA 624	Trichloroethene
110.040	030	EPA 624	Trichlorofluoromethane
110.040	031	EPA 624	Vinyl Chloride
110.040	040	EPA 624	Halogenated Hydrocarbons
110.040	041	EPA 624	Aromatic Compounds
110.040	042	EPA 624	Oxygenates
110.040	043	EPA 624	Other Volatile Organics

**111 - Semi-volatile Organic Chemistry of Wastewater**

111.060	000	EPA 610	Polynuclear Aromatics
111.060	001	EPA 610	Acenaphthene
111.060	002	EPA 610	Acenaphthylene
111.060	003	EPA 610	Anthracene
111.060	004	EPA 610	Benz(a)anthracene
111.060	005	EPA 610	Benzo(a)pyrene
111.060	006	EPA 610	Benzo(b)fluoranthene
111.060	007	EPA 610	Benzo(k)fluoranthene
111.060	008	EPA 610	Benzo(g,h,i)perylene
111.060	009	EPA 610	Chrysene
111.060	010	EPA 610	Dibenz(a,h)anthracene
111.060	011	EPA 610	Fluoranthene
111.060	012	EPA 610	Fluorene
111.060	013	EPA 610	Indeno(1,2,3-c,d)pyrene
111.060	014	EPA 610	Naphthalene
111.060	015	EPA 610	Phenanthrene
111.060	016	EPA 610	Pyrene
111.100	001	EPA 625	Acenaphthene
111.100	002	EPA 625	Acenaphthylene
111.100	003	EPA 625	Anthracene
111.100	004	EPA 625	Benidine
111.100	005	EPA 625	Benz(a)anthracene
111.100	006	EPA 625	Benzo(b)fluoranthene
111.100	007	EPA 625	Benzo(k)fluoranthene
111.100	008	EPA 625	Benzo(g,h,i)perylene



111.100	009	EPA 625	Benzo(a)pyrene
111.100	010	EPA 625	Benzyl Butyl Phthalate
111.100	011	EPA 625	Bis(2-chloroethoxy)methane
111.100	012	EPA 625	Bis(2-chloroethyl) Ether
111.100	013	EPA 625	Bis(2-chloroisopropyl) Ether
111.100	014	EPA 625	Di(2-ethylhexyl) Phthalate
111.100	015	EPA 625	4-Bromophenyl Phenyl Ether
111.100	016	EPA 625	4-Chloro-3-methylphenol
111.100	017	EPA 625	2-Chloronaphthalene
111.100	018	EPA 625	2-Chlorophenol
111.100	019	EPA 625	4-Chlorophenyl Phenyl Ether
111.100	020	EPA 625	Chrysene
111.100	021	EPA 625	Dibenz(a,h)anthracene
111.100	025	EPA 625	3,3'-Dichlorobenzidine
111.100	026	EPA 625	2,4-Dichlorophenol
111.100	027	EPA 625	Diethyl Phthalate
111.100	028	EPA 625	2,4-Dimethylphenol
111.100	029	EPA 625	Dimethyl Phthalate
111.100	030	EPA 625	Di-n-butyl phthalate
111.100	031	EPA 625	Di-n-octyl phthalate
111.100	032	EPA 625	2,4-Dinitrophenol
111.100	033	EPA 625	2,4-Dinitrotoluene
111.100	034	EPA 625	2,6-Dinitrotoluene
111.100	035	EPA 625	Fluoranthene
111.100	036	EPA 625	Fluorene
111.100	037	EPA 625	Hexachlorobenzene
111.100	038	EPA 625	Hexachlorobutadiene
111.100	039	EPA 625	Hexachlorocyclopentadiene
111.100	040	EPA 625	Hexachloroethane
111.100	041	EPA 625	Indeno(1,2,3-c,d)pyrene
111.100	042	EPA 625	Isophorone
111.100	043	EPA 625	2-Methyl-4,6-dinitrophenol
111.100	044	EPA 625	Naphthalene
111.100	045	EPA 625	Nitrobenzene
111.100	046	EPA 625	2-Nitrophenol
111.100	047	EPA 625	4-Nitrophenol
111.100	048	EPA 625	N-nitrosodimethylamine
111.100	049	EPA 625	N-nitrosodi-n-propylamine
111.100	050	EPA 625	N-nitrosodiphenylamine
111.100	051	EPA 625	Pentachlorophenol
111.100	052	EPA 625	Phenanthrene

111.100	053	EPA 625	Phenol
111.100	054	EPA 625	Pyrene
111.100	055	EPA 625	1,2,4-Trichlorobenzene
111.100	056	EPA 625	2,4,6-Trichlorophenol
111.101	032	EPA 625	Polynuclear Aromatic Hydrocarbons
111.101	034	EPA 625	Phthalates
111.101	036	EPA 625	Other Extractables
111.170	001	EPA 608	Aldrin
111.170	002	EPA 608	a-BHC
111.170	003	EPA 608	b-BHC
111.170	004	EPA 608	d-BHC
111.170	005	EPA 608	g-BHC (Lindane)
111.170	006	EPA 608	Chlordane
111.170	007	EPA 608	4,4'-DDD
111.170	008	EPA 608	4,4'-DDE
111.170	009	EPA 608	4,4'-DDT
111.170	010	EPA 608	Dieldrin
111.170	011	EPA 608	Endosulfan I
111.170	012	EPA 608	Endosulfan II
111.170	013	EPA 608	Endosulfan Sulfate
111.170	014	EPA 608	Endrin
111.170	015	EPA 608	Endrin Aldehyde
111.170	016	EPA 608	Heptachlor
111.170	017	EPA 608	Heptachlor Epoxide
111.170	018	EPA 608	Toxaphene
111.170	019	EPA 608	PCB-1016
111.170	020	EPA 608	PCB-1221
111.170	021	EPA 608	PCB-1232
111.170	022	EPA 608	PCB-1242
111.170	023	EPA 608	PCB-1248
111.170	024	EPA 608	PCB-1254
111.170	025	EPA 608	PCB-1260
111.170	030	EPA 608	Organochlorine Pesticides
111.170	031	EPA 608	PCBs

114 - Inorganic Chemistry of Hazardous Waste

114.010	001	EPA 6010B	Antimony
114.010	002	EPA 6010B	Arsenic
114.010	003	EPA 6010B	Barium
114.010	004	EPA 6010B	Beryllium
114.010	005	EPA 6010B	Cadmium
114.010	006	EPA 6010B	Chromium

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114.010	007	EPA 6010B	Cobalt
114.010	008	EPA 6010B	Copper
114.010	009	EPA 6010B	Lead
114.010	010	EPA 6010B	Molybdenum
114.010	011	EPA 6010B	Nickel
114.010	012	EPA 6010B	Selenium
114.010	013	EPA 6010B	Silver
114.010	014	EPA 6010B	Thallium
114.010	015	EPA 6010B	Vanadium
114.010	016	EPA 6010B	Zinc
114.020	001	EPA 6020	Antimony
114.020	002	EPA 6020	Arsenic
114.020	003	EPA 6020	Barium
114.020	004	EPA 6020	Beryllium
114.020	005	EPA 6020	Cadmium
114.020	006	EPA 6020	Chromium
114.020	007	EPA 6020	Cobalt
114.020	008	EPA 6020	Copper
114.020	009	EPA 6020	Lead
114.020	010	EPA 6020	Molybdenum
114.020	011	EPA 6020	Nickel
114.020	012	EPA 6020	Selenium
114.020	013	EPA 6020	Silver
114.020	014	EPA 6020	Thallium
114.020	015	EPA 6020	Vanadium
114.020	016	EPA 6020	Zinc
114.103	001	EPA 7196A	Chromium (VI)
114.106	001	EPA 7199	Chromium (VI)
114.130	001	EPA 7420	Lead
114.140	001	EPA 7470A	Mercury
114.141	001	EPA 7471A	Mercury
114.222	001	EPA 9014	Cyanide
114.240	001	EPA 9040B	Corrosivity - pH Determination
114.241	001	EPA 9045C	Corrosivity - pH Determination
114.270	001	EPA 9214	Fluoride

**115 - Extraction Test of Hazardous Waste**

115.020	001	EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
115.030	001	CCR Chapter11, Article 5, Appendix II	Waste Extraction Test (WET)
115.040	001	EPA 1312	Synthetic Precipitation Leaching Procedure (SPLP)

**116 - Volatile Organic Chemistry of Hazardous Waste**

116.020	001	EPA 8015B	Acetone
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As of 9/15/2009, this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

116.020	002	EPA 8015B	Acetonitrile
116.020	004	EPA 8015B	Acrylonitrile
116.020	006	EPA 8015B	n-Butyl Alcohol
116.020	008	EPA 8015B	1,4-Dioxane
116.020	009	EPA 8015B	Ethanol
116.020	010	EPA 8015B	Ethyl Acetate
116.020	011	EPA 8015B	Ethylene Glycol
116.020	013	EPA 8015B	Isobutyl Alcohol
116.020	014	EPA 8015B	Isopropyl Alcohol
116.020	015	EPA 8015B	Methanol
116.020	016	EPA 8015B	Methyl Ethyl Ketone
116.020	017	EPA 8015B	Methyl Isobutyl Ketone
116.020	021	EPA 8015B	Propionitrile
116.020	030	EPA 8015B	Nonhalogenated Volatiles
116.020	031	EPA 8015B	Ethanol and Methanol
116.030	001	EPA 8015B	Gasoline-range Organics
116.040	002	EPA 8021B	Benzene
116.040	039	EPA 8021B	Ethylbenzene
116.040	041	EPA 8021B	Methyl tert-butyl Ether (MTBE)
116.040	047	EPA 8021B	Toluene
116.040	056	EPA 8021B	Xylenes, Total
116.040	062	EPA 8021B	BTEX
116.080	000	EPA 8260B	Volatile Organic Compounds
116.080	001	EPA 8260B	Acetone
116.080	002	EPA 8260B	Acetonitrile
116.080	003	EPA 8260B	Acrolein
116.080	004	EPA 8260B	Acrylonitrile
116.080	005	EPA 8260B	Allyl Alcohol
116.080	006	EPA 8260B	Allyl Chloride
116.080	007	EPA 8260B	Benzene
116.080	008	EPA 8260B	Benzyl Chloride
116.080	009	EPA 8260B	Bromoacetone
116.080	010	EPA 8260B	Bromochloromethane
116.080	011	EPA 8260B	Bromodichloromethane
116.080	012	EPA 8260B	Bromoform
116.080	013	EPA 8260B	Bromomethane
116.080	014	EPA 8260B	n-Butyl Alcohol
116.080	015	EPA 8260B	Carbon Disulfide
116.080	016	EPA 8260B	Carbon Tetrachloride
116.080	017	EPA 8260B	Chloral Hydrate
116.080	018	EPA 8260B	Chlorobenzene

116.080	019	EPA 8260B	Chloroethane
116.080	020	EPA 8260B	2-Chloroethyl Vinyl Ether
116.080	021	EPA 8260B	Chloroform
116.080	022	EPA 8260B	Chloromethane
116.080	023	EPA 8260B	Chloroprene
116.080	024	EPA 8260B	3-Chloropropionitrile
116.080	025	EPA 8260B	Crotonaldehyde
116.080	026	EPA 8260B	Dibromochloromethane
116.080	027	EPA 8260B	Dibromochloropropane
116.080	028	EPA 8260B	1,2-Dibromoethane
116.080	029	EPA 8260B	Dibromofluoromethane
116.080	030	EPA 8260B	Dibromomethane
116.080	031	EPA 8260B	1,2-Dichlorobenzene
116.080	032	EPA 8260B	1,3-Dichlorobenzene
116.080	033	EPA 8260B	1,4-Dichlorobenzene
116.080	034	EPA 8260B	cis-1,4-Dichloro-2-butene
116.080	035	EPA 8260B	trans-1,4-Dichloro-2-butene
116.080	036	EPA 8260B	Dichlorodifluoromethane
116.080	037	EPA 8260B	1,1-Dichloroethane
116.080	038	EPA 8260B	1,2-Dichloroethane
116.080	039	EPA 8260B	1,1-Dichloroethene
116.080	040	EPA 8260B	trans-1,2-Dichloroethene
116.080	041	EPA 8260B	cis-1,2-Dichloroethene
116.080	042	EPA 8260B	1,2-Dichloropropane
116.080	043	EPA 8260B	1,3-Dichloropropane
116.080	044	EPA 8260B	2,2-Dichloropropane
116.080	045	EPA 8260B	1,1-Dichloropropene
116.080	046	EPA 8260B	cis-1,3-Dichloropropene
116.080	047	EPA 8260B	trans-1,3-Dichloropropene
116.080	048	EPA 8260B	1,3-Dichloro-2-propanol
116.080	049	EPA 8260B	1,2,3,4-Diepoxybutane
116.080	050	EPA 8260B	1,4-Dioxane
116.080	051	EPA 8260B	Epichlorohydrin
116.080	052	EPA 8260B	Ethyl Acetate
116.080	053	EPA 8260B	Ethylbenzene
116.080	054	EPA 8260B	Ethylene Oxide
116.080	055	EPA 8260B	Ethyl Methacrylate
116.080	056	EPA 8260B	Hexachlorobutadiene
116.080	057	EPA 8260B	Hexachloroethane
116.080	058	EPA 8260B	2-Hexanone (MBK)
116.080	059	EPA 8260B	Iodomethane

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116.080	060	EPA 8260B	Isobutyl Alcohol
116.080	061	EPA 8260B	Malononitrile
116.080	062	EPA 8260B	Methacrylonitrile
116.080	063	EPA 8260B	Methanol
116.080	064	EPA 8260B	Methyl tert-butyl Ether (MTBE)
116.080	065	EPA 8260B	Methylene Chloride
116.080	066	EPA 8260B	Methyl Ethyl Ketone
116.080	067	EPA 8260B	Methyl Methacrylate
116.080	068	EPA 8260B	4-Methyl-2-pentanone (MIBK)
116.080	069	EPA 8260B	Naphthalene
116.080	070	EPA 8260B	Nitrobenzene
116.080	071	EPA 8260B	2-Nitropropane
116.080	072	EPA 8260B	N-nitrosodi-n-butylamine
116.080	073	EPA 8260B	Paraldehyde
116.080	074	EPA 8260B	Pentachloroethane
116.080	075	EPA 8260B	Pentafluorobenzene
116.080	076	EPA 8260B	2-Picoline
116.080	077	EPA 8260B	Propargyl Alcohol
116.080	078	EPA 8260B	Propionitrile
116.080	079	EPA 8260B	N-propylamine
116.080	080	EPA 8260B	Pyridine
116.080	081	EPA 8260B	1,1,1,2-Tetrachloroethane
116.080	082	EPA 8260B	1,1,2,2-Tetrachloroethane
116.080	083	EPA 8260B	Tetrachloroethene
116.080	084	EPA 8260B	Toluene
116.080	085	EPA 8260B	o-Toluidine
116.080	086	EPA 8260B	1,2,3-Trichlorobenzene
116.080	087	EPA 8260B	1,2,4-Trichlorobenzene
116.080	088	EPA 8260B	1,1,1-Trichloroethane
116.080	089	EPA 8260B	1,1,2-Trichloroethane
116.080	090	EPA 8260B	Trichloroethene
116.080	091	EPA 8260B	Trichlorofluoromethane
116.080	092	EPA 8260B	1,2,3-Trichloropropane
116.080	093	EPA 8260B	Vinyl Acetate
116.080	094	EPA 8260B	Vinyl Chloride
116.080	095	EPA 8260B	Xylenes, Total
116.080	096	EPA 8260B	tert-Amyl Methyl Ether (TAME)
116.080	097	EPA 8260B	tert-Butyl Alcohol (TBA)
116.080	098	EPA 8260B	Ethyl tert-butyl Ether (ETBE)
116.080	099	EPA 8260B	Bromobenzene
116.080	100	EPA 8260B	n-Butylbenzene

116.080	101	EPA 8260B	sec-Butylbenzene
116.080	102	EPA 8260B	tert-Butylbenzene
116.080	103	EPA 8260B	2-Chlorotoluene
116.080	104	EPA 8260B	4-Chlorotoluene
116.080	105	EPA 8260B	Isopropylbenzene
116.080	106	EPA 8260B	N-propylbenzene
116.080	107	EPA 8260B	Styrene
116.080	108	EPA 8260B	1,2,4-Trimethylbenzene
116.080	109	EPA 8260B	1,3,5-Trimethylbenzene
116.080	120	EPA 8260B	Oxygenates
116.100	001	LUFT GC/MS	Total Petroleum Hydrocarbons - Gasoline
116.100	002	LUFT GC/MS	Benzene
116.100	003	LUFT GC/MS	Toluene
116.100	004	LUFT GC/MS	Xylenes
116.100	005	LUFT GC/MS	Methyl tert-butyl Ether (MTBE)
116.100	010	LUFT GC/MS	BTEX and MTBE
116.110	001	LUFT	Total Petroleum Hydrocarbons - Gasoline

**117 - Semi-volatile Organic Chemistry of Hazardous Waste**

117.010	001	EPA 8015B	Diesel-range Total Petroleum Hydrocarbons
117.016	001	LUFT	Diesel-range Total Petroleum Hydrocarbons
117.017	001	EPA 418.1	TRPH Screening
117.110	000	EPA 8270C	Extractable Organics
117.110	001	EPA 8270C	Acenaphthene
117.110	002	EPA 8270C	Acenaphthylene
117.110	003	EPA 8270C	Acetophenone
117.110	004	EPA 8270C	2-Acetylaminofluorene
117.110	005	EPA 8270C	1-Acetyl-2-thiourea
117.110	006	EPA 8270C	4-Aminobiphenyl
117.110	007	EPA 8270C	Aniline
117.110	008	EPA 8270C	Anthracene
117.110	009	EPA 8270C	Aramite
117.110	010	EPA 8270C	Benzidine
117.110	011	EPA 8270C	Benz(a)anthracene
117.110	012	EPA 8270C	Benzo(b)fluoranthene
117.110	013	EPA 8270C	Benzo(k)fluoranthene
117.110	014	EPA 8270C	Benzo(g,h,i)perylene
117.110	015	EPA 8270C	Benzo(a)pyrene
117.110	016	EPA 8270C	Benzoic Acid
117.110	017	EPA 8270C	p-Benzoquinone
117.110	018	EPA 8270C	Benzyl Alcohol
117.110	019	EPA 8270C	Benzyl Butyl Phthalate

117.110	020	EPA 8270C	Bis(2-chloroethoxy)methane
117.110	021	EPA 8270C	Bis(2-chloroethyl) Ether
117.110	022	EPA 8270C	Bis(2-chloroisopropyl) Ether
117.110	023	EPA 8270C	Di(2-ethylhexyl) Phthalate
117.110	024	EPA 8270C	4-Bromophenyl Phenyl Ether
117.110	025	EPA 8270C	Carbazole
117.110	026	EPA 8270C	4-Chloroaniline
117.110	027	EPA 8270C	4-Chloro-3-methylphenol
117.110	028	EPA 8270C	1-Chloronaphthalene
117.110	029	EPA 8270C	2-Chloronaphthalene
117.110	030	EPA 8270C	2-Chlorophenol
117.110	031	EPA 8270C	4-Chlorophenyl Phenyl Ether
117.110	032	EPA 8270C	Chrysene
117.110	033	EPA 8270C	2-Cyclohexyl-4,6-dinitrophenol
117.110	034	EPA 8270C	2,4-Diaminotoluene
117.110	035	EPA 8270C	Dibenz(a,j)acridine
117.110	036	EPA 8270C	Dibenz(a,h)anthracene
117.110	037	EPA 8270C	Dibenzofuran
117.110	038	EPA 8270C	Dibenzo(a,e)pyrene
117.110	039	EPA 8270C	1,2-Dichlorobenzene
117.110	040	EPA 8270C	1,3-Dichlorobenzene
117.110	041	EPA 8270C	1,4-Dichlorobenzene
117.110	042	EPA 8270C	3,3'-Dichlorobenzidine
117.110	043	EPA 8270C	2,4-Dichlorophenol
117.110	044	EPA 8270C	2,6-Dichlorophenol
117.110	045	EPA 8270C	Diethyl Phthalate
117.110	046	EPA 8270C	Diethylstilbestrol
117.110	047	EPA 8270C	Diethyl Sulfate
117.110	048	EPA 8270C	Dihydrosafrole
117.110	049	EPA 8270C	3,3'-Dimethoxybenzidine
117.110	050	EPA 8270C	p-Dimethylaminoazobenzene
117.110	051	EPA 8270C	7,12-Dimethylbenz(a)anthracene
117.110	052	EPA 8270C	a,a-Dimethylphenethylamine
117.110	053	EPA 8270C	2,4-Dimethylphenol
117.110	054	EPA 8270C	Dimethyl Phthalate
117.110	055	EPA 8270C	Di-n-butyl phthalate
117.110	056	EPA 8270C	Di-n-octyl phthalate
117.110	057	EPA 8270C	1,2-Dinitrobenzene
117.110	058	EPA 8270C	1,3-Dinitrobenzene
117.110	059	EPA 8270C	1,4-Dinitrobenzene
117.110	060	EPA 8270C	2,4-Dinitrophenol



117.110	061	EPA 8270C	2,4-Dinitrotoluene
117.110	062	EPA 8270C	2,6-Dinitrotoluene
117.110	063	EPA 8270C	Diphenylamine
117.110	064	EPA 8270C	1,2-Diphenylhydrazine
117.110	065	EPA 8270C	Ethyl Carbamate
117.110	066	EPA 8270C	Ethyl Methanesulfonate
117.110	067	EPA 8270C	Fluoranthene
117.110	068	EPA 8270C	Fluorene
117.110	069	EPA 8270C	Hexachlorobenzene
117.110	070	EPA 8270C	Hexachlorobutadiene
117.110	071	EPA 8270C	Hexachlorocyclopentadiene
117.110	072	EPA 8270C	Hexachloroethane
117.110	073	EPA 8270C	Hexachlorophene
117.110	074	EPA 8270C	Hexachloropropene
117.110	075	EPA 8270C	Indeno(1,2,3-c,d)pyrene
117.110	076	EPA 8270C	Isophorone
117.110	077	EPA 8270C	Isosafrole
117.110	078	EPA 8270C	Maleic Anhydride
117.110	079	EPA 8270C	3-Methylcholanthrene
117.110	080	EPA 8270C	2-Methyl-4,6-dinitrophenol
117.110	081	EPA 8270C	4,4'-Methylenebis(2-chloroaniline)
117.110	082	EPA 8270C	Methyl Methanesulfonate
117.110	083	EPA 8270C	2-Methylnaphthalene
117.110	084	EPA 8270C	2-Methylphenol
117.110	085	EPA 8270C	3-Methylphenol
117.110	086	EPA 8270C	4-Methylphenol
117.110	087	EPA 8270C	Naphthalene
117.110	088	EPA 8270C	1,4-Naphthoquinone
117.110	089	EPA 8270C	1-Naphthylamine
117.110	090	EPA 8270C	2-Naphthylamine
117.110	091	EPA 8270C	Nicotine
117.110	092	EPA 8270C	2-Nitroaniline
117.110	093	EPA 8270C	3-Nitroaniline
117.110	094	EPA 8270C	4-Nitroaniline
117.110	095	EPA 8270C	Nitrobenzene
117.110	096	EPA 8270C	2-Nitrophenol
117.110	097	EPA 8270C	4-Nitrophenol
117.110	098	EPA 8270C	N-nitrosodi-n-butylamine
117.110	099	EPA 8270C	N-nitrosodiethylamine
117.110	100	EPA 8270C	N-nitrosodimethylamine
117.110	101	EPA 8270C	N-nitrosodi-n-propylamine

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No.: 03220CA  
Renew Date: 9/30/2010

117.110	102	EPA 8270C	N-nitrosodiphenylamine
117.110	103	EPA 8270C	N-nitrosomethylethylamine
117.110	104	EPA 8270C	N-nitrosomorpholine
117.110	105	EPA 8270C	N-nitrosopiperidine
117.110	106	EPA 8270C	N-nitrosopyrrolidine
117.110	107	EPA 8270C	5-Nitro-o-toluidine
117.110	108	EPA 8270C	Pentachlorobenzene
117.110	109	EPA 8270C	Pentachloronitrobenzene
117.110	110	EPA 8270C	Pentachlorophenol
117.110	111	EPA 8270C	Phenacetin
117.110	112	EPA 8270C	Phenanthrene
117.110	113	EPA 8270C	Phenol
117.110	114	EPA 8270C	1,4-Phenylenediamine
117.110	115	EPA 8270C	Phthalic Anhydride
117.110	116	EPA 8270C	2-Picoline
117.110	117	EPA 8270C	Pronamide
117.110	118	EPA 8270C	Propylthiouracil
117.110	119	EPA 8270C	Pyrene
117.110	120	EPA 8270C	Pyridine
117.110	121	EPA 8270C	Resorcinol
117.110	122	EPA 8270C	Safrole
117.110	123	EPA 8270C	Strychnine
117.110	124	EPA 8270C	1,2,4,5-Tetrachlorobenzene
117.110	125	EPA 8270C	2,3,4,6-Tetrachlorophenol
117.110	126	EPA 8270C	Thiophenol
117.110	127	EPA 8270C	Toluene Diisocyanate
117.110	128	EPA 8270C	o-Toluidine
117.110	129	EPA 8270C	1,2,4-Trichlorobenzene
117.110	130	EPA 8270C	2,4,5-Trichlorophenol
117.110	131	EPA 8270C	2,4,6-Trichlorophenol
117.110	132	EPA 8270C	1,3,5-Trinitrobenzene
117.111	073	EPA 8270C	Polynuclear Aromatic Hydrocarbons
117.111	075	EPA 8270C	Phthalates
117.111	076	EPA 8270C	Other Extractables
117.140	000	EPA 8310	Polynuclear Aromatic Hydrocarbons
117.140	001	EPA 8310	Acenaphthene
117.140	002	EPA 8310	Acenaphthylene
117.140	003	EPA 8310	Anthracene
117.140	004	EPA 8310	Benz(a)anthracene
117.140	005	EPA 8310	Benzo(a)pyrene
117.140	006	EPA 8310	Benzo(b)fluoranthene

117.140	007	EPA 8310	Benzo(k)fluoranthene
117.140	008	EPA 8310	Benzo(g,h,i)perylene
117.140	009	EPA 8310	Chrysene
117.140	010	EPA 8310	Dibenz(a,h)anthracene
117.140	011	EPA 8310	Fluoranthene
117.140	012	EPA 8310	Fluorene
117.140	013	EPA 8310	Indeno(1,2,3-c,d)pyrene
117.140	014	EPA 8310	Naphthalene
117.140	015	EPA 8310	Phenanthrene
117.140	016	EPA 8310	Pyrene
117.170	000	EPA 8330	Nitroaromatics and Nitramines
117.170	001	EPA 8330	4-Amino-2,6-dinitrotoluene
117.170	002	EPA 8330	2-Amino-4,6-dinitrotoluene
117.170	003	EPA 8330	1,3-Dinitrobenzene
117.170	004	EPA 8330	2,4-Dinitrotoluene
117.170	005	EPA 8330	2,6-Dinitrotoluene
117.170	006	EPA 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
117.170	007	EPA 8330	Methyl-2,4,6-trinitrophenylnitramine
117.170	008	EPA 8330	Nitrobenzene
117.170	009	EPA 8330	2-Nitrotoluene
117.170	010	EPA 8330	3-Nitrotoluene
117.170	011	EPA 8330	4-Nitrotoluene
117.170	012	EPA 8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
117.170	013	EPA 8330	1,3,5-Trinitrobenzene
117.170	014	EPA 8330	2,4,6-Trinitrotoluene
117.210	000	EPA 8081A	Organochlorine Pesticides
117.210	001	EPA 8081A	Aldrin
117.210	002	EPA 8081A	a-BHC
117.210	003	EPA 8081A	b-BHC
117.210	004	EPA 8081A	d-BHC
117.210	005	EPA 8081A	g-BHC (Lindane)
117.210	006	EPA 8081A	Captafol
117.210	007	EPA 8081A	a-Chlordane
117.210	008	EPA 8081A	g-Chlordane
117.210	009	EPA 8081A	Chlordane (tech.)
117.210	010	EPA 8081A	Chlorobenzilate
117.210	011	EPA 8081A	Chloroneb
117.210	012	EPA 8081A	Chlorothalonil
117.210	013	EPA 8081A	4,4'-DDD
117.210	014	EPA 8081A	4,4'-DDE
117.210	015	EPA 8081A	4,4'-DDT

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No.: 03220CA  
Renew Date: 9/30/2010

117.210	020	EPA 8081A	Dieldrin
117.210	021	EPA 8081A	Endosulfan I
117.210	022	EPA 8081A	Endosulfan II
117.210	023	EPA 8081A	Endosulfan Sulfate
117.210	024	EPA 8081A	Endrin
117.210	025	EPA 8081A	Endrin Aldehyde
117.210	026	EPA 8081A	Endrin Ketone
117.210	027	EPA 8081A	Heptachlor
117.210	028	EPA 8081A	Heptachlor Epoxide
117.210	029	EPA 8081A	Hexachlorobenzene
117.210	033	EPA 8081A	Methoxychlor
117.210	039	EPA 8081A	Toxaphene
117.210	040	EPA 8081A	Trifluralin
117.220	000	EPA 8082	PCBs
117.220	001	EPA 8082	PCB-1016
117.220	002	EPA 8082	PCB-1221
117.220	003	EPA 8082	PCB-1232
117.220	004	EPA 8082	PCB-1242
117.220	005	EPA 8082	PCB-1248
117.220	006	EPA 8082	PCB-1254
117.220	007	EPA 8082	PCB-1260
117.240	000	EPA 8141A	Organophosphorus Pesticides
117.240	001	EPA 8141A	Atrazine
117.240	002	EPA 8141A	Azinphos Methyl
117.240	003	EPA 8141A	Carbophenothion
117.240	004	EPA 8141A	Chlorfenvinphos
117.240	005	EPA 8141A	Chlorpyrifos
117.240	006	EPA 8141A	Chlorpyrifos Methyl
117.240	007	EPA 8141A	Demeton-O
117.240	008	EPA 8141A	Demeton-S
117.240	009	EPA 8141A	Diazinon
117.240	014	EPA 8141A	Famphur
117.240	015	EPA 8141A	Malathion
117.240	016	EPA 8141A	Mevinphos
117.240	017	EPA 8141A	Naled
117.240	018	EPA 8141A	Parathion Ethyl
117.240	019	EPA 8141A	Parathion Methyl
117.240	020	EPA 8141A	Phorate
117.240	022	EPA 8141A	Ronnel
117.240	023	EPA 8141A	Simazine
117.240	024	EPA 8141A	Sulfotepp

As of 9/15/2009, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

			Chlorinated Herbicides
117.250	000	EPA 8151A	
117.250	001	EPA 8151A	2,4-D
117.250	002	EPA 8151A	2,4-DB
117.250	003	EPA 8151A	2,4,5-T
117.250	004	EPA 8151A	2,4,5-TP
117.250	006	EPA 8151A	Dalapon
117.250	007	EPA 8151A	Dichlorprop
117.250	008	EPA 8151A	Dinoseb
117.250	009	EPA 8151A	MCPA
117.250	010	EPA 8151A	MCPP
117.250	011	EPA 8151A	4-Nitrophenol
117.250	014	EPA 8151A	Dicamba



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.**

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427

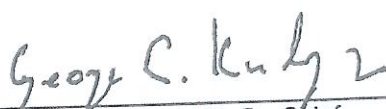
Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1230  
Expiration Date: 05/31/2010  
Effective Date: 06/01/2008

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



MARK B HORTON, MD, MSPH  
Director

State of California—Health and Human Services Agency  
California Department of Public Health



ARNOLD SCHWARZENEGGER  
Governor

June 10, 2008

STEVEN L. LANE  
CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.  
7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427

Certificate No. 1230

Dear STEVEN L. LANE:

This is to advise you that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.

The Fields of Testing for which this laboratory has been certified are indicated on the enclosed "Fields of Testing." The certificate shall remain in effect until **May 31, 2010** unless it is revoked. This certificate is subject to an annual fee as prescribed by HSC 100860(a).

The application for renewal of this certificate must be received before the expiration date of this certificate to remain in force according to the HSC 100845(a).

Any changes in laboratory location or structural alterations, which may affect adversely the quality of analysis in the Fields of Testing for which this laboratory has been granted a certificate, require prior notification. Notification is also required for changes in ownership or laboratory director within 30 days after the change (HSC, Section 100845(b) and (d)).

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories certified by the State of California.

If you have any questions, please contact Rosalinda Lomboy at (213) 580-5731.

Sincerely,

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

Enclosure





CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No: 1230  
Renew Date: 5/31/2010

103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2

As of 6/10/2008, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No: 1230  
Renew Date: 5/31/2010

104.040 023	1,1-Dichloroethane	EPA 524.2
104.040 024	1,2-Dichloroethane	EPA 524.2
104.040 025	1,1-Dichloroethene	EPA 524.2
104.040 026	cis-1,2-Dichloroethene	EPA 524.2
104.040 027	trans-1,2-Dichloroethene	EPA 524.2
104.040 028	Dichloromethane	EPA 524.2
104.040 029	1,2-Dichloropropane	EPA 524.2
104.040 033	cis-1,3-Dichloropropene	EPA 524.2
104.040 034	trans-1,3-Dichloropropene	EPA 524.2
104.040 035	Ethylbenzene	EPA 524.2
104.040 037	Isopropylbenzene	EPA 524.2
104.040 039	Naphthalene	EPA 524.2
104.040 041	N-propylbenzene	EPA 524.2
104.040 042	Styrene	EPA 524.2
104.040 044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040 045	Tetrachloroethene	EPA 524.2
104.040 046	Toluene	EPA 524.2
104.040 048	1,2,4-Trichlorobenzene	EPA 524.2
104.040 049	1,1,1-Trichloroethane	EPA 524.2
104.040 050	1,1,2-Trichloroethane	EPA 524.2
104.040 051	Trichloroethene	EPA 524.2
104.040 052	Trichlorofluoromethane	EPA 524.2
104.040 054	1,2,4-Trimethylbenzene	EPA 524.2
104.040 055	1,3,5-Trimethylbenzene	EPA 524.2
104.040 056	Vinyl Chloride	EPA 524.2
104.040 057	Xylenes, Total	EPA 524.2
104.045 001	Bromodichloromethane	EPA 524.2
104.045 002	Bromoform	EPA 524.2
104.045 003	Chloroform	EPA 524.2
104.045 004	Dibromochloromethane	EPA 524.2
104.045 005	Trihalomethanes	EPA 524.2
104.050 002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050 004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050 005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050 006	Trichlorotrifluoroethane	EPA 524.2
104.050 007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050 008	Carbon Disulfide	EPA 524.2
104.050 009	Methyl Isobutyl Ketone	EPA 524.2
<b>Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water</b>		
105.090 004	Benzo(a)pyrene	EPA 525.2
105.090 029	Polynuclear Aromatic Hydrocarbons	EPA 525.2
<b>Field of Testing: 108 - Inorganic Chemistry of Wastewater</b>		
108.090 001	Residue, Volatile	EPA 160.4

As of 6/10/2008, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No: 1230  
 Renew Date: 5/31/2010

108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calc.)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.113	001	Boron	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite, Total	EPA 300.0
108.120	007	Phosphate, Ortho	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.264	001	Phosphate, Ortho	EPA 365.3
108.265	001	Phosphorus, Total	EPA 365.3
108.350	001	Total Recoverable Petroleum Hydrocarbons	EPA 418.1
108.360	001	Phenols, Total	EPA 420.1
108.380	001	Oil and Grease	EPA 1664
108.390	001	Turbidity	SM2130B
108.400	001	Acidity	SM2310B
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.421	001	Hardness	SM2340C
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.451	001	Chloride	SM4500-Cl- C
108.464	001	Chlorine	SM4500-Cl F
108.490	001	pH	SM4500-H+ B
108.492	001	Ammonia	SM4500-NH3 C (19th/20th)
108.492	002	Kjeldahl Nitrogen	SM4500-NH3 C (19th/20th)
108.494	001	Ammonia	SM4500-NH3 F or G (18th)
108.510	001	Nitrite	SM4500-NO2 B
108.520	001	Nitrate-nitrite, Total	SM4500-NO3 E
108.520	002	Nitrite	SM4500-NO3 E
108.531	001	Dissolved Oxygen	SM4500-O G
108.560	001	Sulfite	SM4500-SO3 B

As of 6/10/2008 , this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No: 1230  
Renew Date: 5/31/2010

108.580	001	Sulfide	SM4500-S= D
108.590	001	Biochemical Oxygen Demand	SM5210B
108.591	001	Carbonaceous BOD	SM5210B
108.602	001	Chemical Oxygen Demand	SM5220D
108.610	001	Total Organic Carbon	SM5310B
108.630	001	Oil and Grease	SM5520B (20th)
108.640	001	Surfactants	SM5540C

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8

As of 6/10/2008, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Certificate No: 1230  
 Renew Date: 5/31/2010

109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	020	Gold	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	022	Tin	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
109.824	001	Iron	SM3500-Fe B (20th)

**Field of Testing: 113 - Whole Effluent Toxicity of Wastewater**

113.010	001A	Fathead Minnow (P. promelas)	EPA 600/4-90/027F, Static
113.021	001A	Fathead Minnow (P. promelas)	EPA 2000 (EPA-821-R-02-012), Static

**Field of Testing: 119 - Toxicity Bioassay of Hazardous Waste**

119.010	001	Fathead Minnow (P. promelas)	Polisini & Miller (CDFG 1988)
---------	-----	------------------------------	-------------------------------

**Field of Testing: 120 - Physical Properties of Hazardous Waste**

120.010	001	Ignitability	EPA 1010
120.030	001	Corrosivity	EPA 1110
120.040	001	Reactive Cyanide	Section 7.3 SW-846
120.050	001	Reactive Sulfide	Section 7.3 SW-846
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C



NELAP - RECOGNIZED



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF NELAP ACCREDITATION**

Is hereby granted to

**CALTEST ANALYTICAL LABORATORY**

1885 NORTH KELLY ROAD  
NAPA, CA 94558


Scope of the Certificate is limited to the  
"NELAP Fields of Accreditation"  
which accompany this Certificate.

Continued accredited status depends on successful  
ongoing participation in the program.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 01103CA  
Expiration Date: 01/31/2010  
Effective Date: 01/31/2009

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

109.430	002	SM3120B	Antimony
109.430	003	SM3120B	Arsenic
109.430	004	SM3120B	Barium
109.430	005	SM3120B	Beryllium
109.430	007	SM3120B	Cadmium
109.430	009	SM3120B	Chromium
109.430	010	SM3120B	Cobalt
109.430	011	SM3120B	Copper
109.430	012	SM3120B	Iron
109.430	013	SM3120B	Lead
109.430	015	SM3120B	Manganese
109.430	016	SM3120B	Molybdenum
109.430	017	SM3120B	Nickel
109.430	019	SM3120B	Selenium
109.430	021	SM3120B	Silver
109.430	023	SM3120B	Thallium
109.430	024	SM3120B	Vanadium
109.430	025	SM3120B	Zinc
109.811	001	SM3500-Cr D (18th/19th)	Chromium (VI)

110 - Volatile Organic Chemistry of Wastewater

110.040	001	EPA 624	Benzene
110.040	002	EPA 624	Bromodichloromethane
110.040	003	EPA 624	Bromoform
110.040	004	EPA 624	Bromomethane
110.040	005	EPA 624	Carbon Tetrachloride
110.040	006	EPA 624	Chlorobenzene
110.040	007	EPA 624	Chloroethane
110.040	008	EPA 624	2-Chloroethyl Vinyl Ether
110.040	009	EPA 624	Chloroform
110.040	010	EPA 624	Chloromethane
110.040	011	EPA 624	Dibromochloromethane
110.040	012	EPA 624	1,2-Dichlorobenzene
110.040	013	EPA 624	1,3-Dichlorobenzene
110.040	014	EPA 624	1,4-Dichlorobenzene
110.040	015	EPA 624	1,1-Dichloroethane
110.040	016	EPA 624	1,2-Dichloroethane
110.040	017	EPA 624	1,1-Dichloroethene
110.040	018	EPA 624	trans-1,2-Dichloroethene
110.040	019	EPA 624	1,2-Dichloropropane
110.040	020	EPA 624	cis-1,3-Dichloropropene
110.040	021	EPA 624	trans-1,3-Dichloropropene

As of 12/23/2008, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

110.040	022	EPA 624	Ethylbenzene
110.040	023	EPA 624	Methylene Chloride
110.040	024	EPA 624	1,1,2,2-Tetrachloroethane
110.040	025	EPA 624	Tetrachloroethene
110.040	026	EPA 624	Toluene
110.040	027	EPA 624	1,1,1-Trichloroethane
110.040	028	EPA 624	1,1,2-Trichloroethane
110.040	029	EPA 624	Trichloroethene
110.040	030	EPA 624	Trichlorofluoromethane
110.040	031	EPA 624	Vinyl Chloride
110.040	040	EPA 624	Halogenated Hydrocarbons
110.040	041	EPA 624	Aromatic Compounds
110.040	042	EPA 624	Oxygenates
110.040	043	EPA 624	Other Volatile Organics

**111 - Semi-volatile Organic Chemistry of Wastewater**

111.100	001	EPA 625	Acenaphthene
111.100	002	EPA 625	Acenaphthylene
111.100	003	EPA 625	Anthracene
111.100	004	EPA 625	Benzidine
111.100	005	EPA 625	Benz(a)anthracene
111.100	006	EPA 625	Benzo(b)fluoranthene
111.100	007	EPA 625	Benzo(k)fluoranthene
111.100	008	EPA 625	Benzo(g,h,i)perylene
111.100	009	EPA 625	Benzo(a)pyrene
111.100	010	EPA 625	Benzyl Butyl Phthalate
111.100	011	EPA 625	Bis(2-chloroethoxy)methane
111.100	012	EPA 625	Bis(2-chloroethyl) Ether
111.100	013	EPA 625	Bis(2-chloroisopropyl) Ether
111.100	014	EPA 625	Di(2-ethylhexyl) Phthalate
111.100	015	EPA 625	4-Bromophenyl Phenyl Ether
111.100	016	EPA 625	4-Chloro-3-methylphenol
111.100	017	EPA 625	2-Chloronaphthalene
111.100	018	EPA 625	2-Chlorophenol
111.100	019	EPA 625	4-Chlorophenyl Phenyl Ether
111.100	020	EPA 625	Chrysene
111.100	021	EPA 625	Dibenz(a,h)anthracene
111.100	025	EPA 625	3,3'-Dichlorobenzidine
111.100	026	EPA 625	2,4-Dichlorophenol
111.100	027	EPA 625	Diethyl Phthalate
111.100	028	EPA 625	2,4-Dimethylphenol
111.100	029	EPA 625	Dimethyl Phthalate





NELAP - RECOGNIZED



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF NELAP ACCREDITATION**

Is hereby granted to

**TESTAMERICA WEST SACRAMENTO**

880 RIVERSIDE PARKWAY  
WEST SACRAMENTO, CA 95605

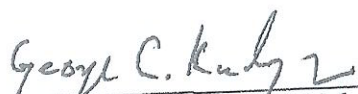
Scope of the Certificate is limited to the  
"NELAP Fields of Accreditation"  
which accompany this Certificate.

Continued accredited status depends on successful  
ongoing participation in the program.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **01119CA**  
Expiration Date: **01/31/2010**  
Effective Date: **01/31/2009**

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch

109.020	010	EPA 200.8	Lead
109.020	011	EPA 200.8	Manganese
109.020	012	EPA 200.8	Molybdenum
109.020	013	EPA 200.8	Nickel
109.020	014	EPA 200.8	Selenium
109.020	015	EPA 200.8	Silver
109.020	016	EPA 200.8	Thallium
109.020	017	EPA 200.8	Vanadium
109.020	018	EPA 200.8	Zinc
109.190	001	EPA 245.1	Mercury

**111 - Semi-volatile Organic Chemistry of Wastewater**

111.111	000	EPA 1613B	Dioxins
111.111	001	EPA 1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
111.111	002	EPA 1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)
111.111	003	EPA 1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
111.111	004	EPA 1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
111.111	005	EPA 1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)
111.111	006	EPA 1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)
111.111	007	EPA 1613B	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)
111.111	008	EPA 1613B	2,3,7,8-Tetrachlorodibenzofuran (TCDF)
111.111	009	EPA 1613B	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)
111.111	010	EPA 1613B	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)
111.111	011	EPA 1613B	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)
111.111	012	EPA 1613B	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)
111.111	013	EPA 1613B	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)
111.111	014	EPA 1613B	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)
111.111	015	EPA 1613B	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)
111.111	016	EPA 1613B	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)
111.111	017	EPA 1613B	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)
111.111	018	EPA 1613B	Total TCDD
111.111	019	EPA 1613B	Total PeCDD
111.111	020	EPA 1613B	Total HxCDD
111.111	021	EPA 1613B	Total HpCDD
111.111	022	EPA 1613B	Total TCDF
111.111	023	EPA 1613B	Total PeCDF
111.111	024	EPA 1613B	Total HxCDF
111.111	025	EPA 1613B	Total HpCDF
111.273	001	EPA 1664A	Oil and Grease

**114 - Inorganic Chemistry of Hazardous Waste**

114.010	001	EPA 6010B	Antimony
114.010	002	EPA 6010B	Arsenic



West Sacramento CA NELAP Certificate  
Weir, Douglas to: shawn.simmons

01/28/2010 09:54 AM

1 attachment



CA NELAP 2009 1\_12\_09.pdf

Shawn,

Attached is our current certificate. We should be receiving our new certificate in the next few days and I will forward a copy to you when we receive it from the state.

Sincerely,

Doug

<<CA NELAP 2009 1\_12\_09.pdf>>

**DOUGLAS WEIR**

Quality Assurance Manager

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

880 Riverside Parkway  
West Sacramento, CA 95605  
(916) 373-5600 main  
(916) 374-4389 direct  
(916) 372-1059 fax

[www.testamericainc.com](http://www.testamericainc.com)

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CALIFORNIA STATE  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**APPLIED MICROBIOLOGICAL SERVICES**

TESTING LABORATORY  
1538 W. GAYLORD STREET  
LONG BEACH, CA 90813


Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1257  
Expiration Date: 07/31/2010  
Effective Date: 07/01/2008

Richmond, California  
subject to forfeiture or revocation

  
George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



MARK B HORTON, MD, MSPH  
Director

State of California—Health and Human Services Agency  
California Department of Public Health



ARNOLD SCHWARZENEGGER  
Governor

July 2, 2008

DANIEL B. DURON  
APPLIED MICROBIOLOGICAL SERVICES  
1538 W. GAYLORD STREET  
LONG BEACH, CA 90813

Certificate No. 1257

Dear DANIEL B. DURON:

This is to advise you that the laboratory named above continues to be certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq. Certification for all currently certified Fields of Testing that the laboratory has applied for renewal shall remain in effect until **07/31/2010** unless it is revoked.

**Please note that the renewal application for certification is subject to an on-site process, and the continued use of this certificate is contingent upon:**

- \* **successful completion of the on-site process;**
- \* **acceptable performance in the required proficiency testing (PT) studies;**
- \* **timely payment of all fees, including an annual fee due before July 31, 2009;**
- \* **compliance with Environmental Laboratory Accreditation Program Branch (ELAP) statutes (HSC, Section 100825, et seq.) and Regulations (California Code of Regulations (CCR), Title 22, Division 4, Chapter 19).**

An updated certificate of the "Fields of Testing" will be issued to the laboratory upon successful completion of the on-site process.

The application for the renewal of this certificate must be received before the expiration date to remain in force according to the HSC100845(a).

Please note that the laboratory is required to notify ELAP of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (HSC, Section 100845(b)(d)). Please include the above certificate number in all your correspondence with ELAP.

If you have any questions, please contact Wanda Porter at (510) 620-3155.

Sincerely,

George C. Kulasingam, Ph.D., Chief  
Environmental Laboratory Accreditation Program Branch



(Keep this for your records.)

ES + LB - DMR Montale Apt. Dan' 2010 & Annual Report 2009

**Shipment Receipt**

Transaction Date 25 Feb 2010

**Address Information**

**Ship To:**  
CA Reg. Water Quality Control Board  
Tracy Egoscue  
Los Angeles Region  
Executive Officer  
320 W. 4th Street, Suite 200  
LOS ANGELES CA 90013-2343

**Shipper:**  
El Segundo Operations  
Environmental Department  
310-615-6387  
301 Vista Del Mar  
El Segundo CA 90245

**Shipment Information**

**Service:**

\*Guaranteed By:

Quantum View Notify <sup>SM 1:</sup>  
Delivery

Quantum View Notify <sup>SM 2:</sup>  
Delivery

Quantum View Notify <sup>SM 3:</sup>  
Delivery

Quantum View Notify <sup>SM 4:</sup>  
Delivery

E-mail Failure Notification:

UPS Next Day Air  
10:30 A.M., Fri. 26 Feb. 2010  
srie.coustar@nrgenergy.com

alexander.sanchez@nrgenergy.com

william.collins@nrgenergy.com

george.piantka@nrgenergy.com

srie.coustar@nrgenergy.com

**Fuel Surcharge:**

**Package Information**

Package 1 of 1  
Tracking Number:  
Package Type:  
Actual Weight:  
Billable Weight:  
Delivery Confirmation:

1Z10Y65E2594483422  
UPS Letter  
Letter  
Letter  
Delivery Confirmation

**Billing Information**

Bill Shipping Charges to:

Shipper's Account 10Y65E

All Shipping Charges in USD

\* For delivery and guarantee information, see the [UPS Service Guide](#). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.



(Keep this for your records.)

**Shipment Receipt**

Transaction Date 25 Feb 2010

ES2-LB - DMR Material Ppt Jan 2010 &  
Annual Report 2009

**Address Information**

**Ship To:**  
Division of Water Quality  
C/O DMR PROCESSING CENTER  
1001 I Street 15th Floor  
SACRAMENTO CA 95814-2828

**Shipper:**  
El Segundo Operations  
Environmental Department  
310-615-6387  
301 Vista Del Mar  
El Segundo CA 90245

**Shipment Information**

<b>Service:</b>	UPS Next Day Air
<b>*Guaranteed By:</b>	10:30 A.M., Fri. 26 Feb. 2010
<b>Quantum View Notify SM 1:</b>	srie.coustar@nrgenergy.com
Delivery	
<b>Quantum View Notify SM 2:</b>	alexander.sanchez@nrgenergy.com
Delivery	
<b>Quantum View Notify SM 3:</b>	william.collins@nrgenergy.com
Delivery	
<b>Quantum View Notify SM 4:</b>	george.piantka@nrgenergy.com
Delivery	
<b>E-mail Failure Notification:</b>	srie.coustar@nrgenergy.com

**Fuel Surcharge:**

**Package Information**

<b>Package 1 of 1</b>	
<b>Tracking Number:</b>	1Z10Y65E2594575038
<b>Package Type:</b>	UPS Letter
<b>Actual Weight:</b>	Letter
<b>Billable Weight:</b>	Letter
<b>Delivery Confirmation:</b>	Delivery Confirmation

**Billing Information**

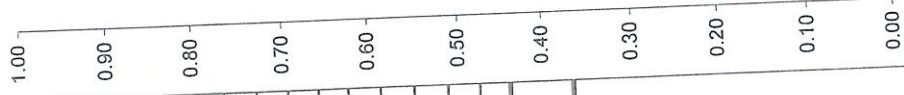
**Bill Shipping Charges to:** Shipper's Account 10Y65E

**All Shipping Charges in USD**

\* For delivery and guarantee information, see the [UPS Service Guide](#). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

EI Segundo Power, LLC  
ANNUAL REPORT  
2009

Retention Basin  
Priority Pollutants Part 9



Retention Basin (Part 9)	05/07/09
Hexachlorocyclopentadiene	ND
Hexachloroethane	ND
Indeno (1,2,3-c,d) Pyrene	ND
Isophorone	ND
Isopropylbenzene	ND
Methoxychlor	ND
Methylene chloride	ND
Methyl Bromide	ND
Methyl-tert-Butyl Ether	ND
Mirex	ND
Naphthalene	ND
n-Butylbenzene	ND
Nitrobenzene	ND
N-Nitrosodimethylamine	ND
N-Nitroso-di-n-propylamine	ND
N-Nitrosodiphenylamine	ND
n-Propylbenzene	ND
o-Xylene	ND
p/m-Xylene	ND
Pentachlorophenol	ND

Hexachloroethane  
Indeno (1,2,3-c,d) Pyrene  
Isophorone  
Isopropylbenzene  
Methoxychlor  
Methylene chloride  
Methyl Bromide  
Methyl-tert-Butyl Ether  
Mirex  
Naphthalene  
n-Butylbenzene  
Nitrobenzene  
N-Nitrosodimethylamine  
N-Nitroso-di-n-propylamine  
N-Nitrosodiphenylamine  
o-Xylene  
p/m-Xylene  
Pentachlorophenol