# *Section 4.0*

# *Plant & Operations Description*

# NPDES PERMIT RENEWAL APPLICATION

## *NPDES NO. CA0001171*

## *Facility Operation Description for the Long Beach Generation LLC, Long Beach Generating Station, Los Angeles County*

# 1.0 Facility Description

The Long Beach Generating Station (LBGS) is located at 2665 West Seaside Boulevard in the City of Long Beach, California, adjacent to Long Beach Harbor.

Long Beach Generation LLC is the current owner of LBGS and has owned the facility since April 1998. The power plant was previously owned and operated by Southern California Edison (SCE).

LBGS consists of seven (7) gas turbine generating units (Units 1-7) and two (2) steam electric generating units (Units 8 and 9) with a total design capacity of 577 megawatts. LBGS discharges up to 265 million gallons per day (MGD) of wastes consisting of once-through cooling water and low volume wastes into the Back Channel in Long Beach Harbor, a water of the United States. The power generation operation of the LBGS was permanently retired effective January 1, 2005, including the shutdown of all nine generating units. A notice of plant shutdown was submitted to the Los Angeles Regional Water Quality Control Board on January 7, 2005.

This permit application presents the values, parameters, and characteristics for the existing discharge at LBGS. This permit will also request significant changes to the operations description at the LBGS, and characteristic of the discharge. LBGS is requesting permission to stop operations of the once through cooling water system permanently as it serves no function to the facility. Discharge from the LBGS will henceforth only require discharge of the low volume waste stream.

LBGS wastes are discharged through a channel bank outfall structure at Berth 114, Discharge Serial Nos. 001, described as follows:

| | | | |
|---|---|---|---|
| a. | Discharge Serial No. 001: | Latitude: | 33° 45' 53" |
| | (Units 1 and 2) | Longitude: | 118° 13' 17" |

Discharge Serial No. 001 consists of one channel bank outfall which discharges in the Port of long Beach Back Channel.

The cooling water intake structure is located northeast of the LBGS at the west bank of Back Channel and draws water from an opening which is between 12 and 42 feet below the surface of the water.

Intermittently, biological growth in each of the condenser tubes is controlled by injection of chlorine (in the form of sodium hypochlorite) into the cooling water stream for a maximum of two hours per generating unit per day.

Groundwater system wastes are collected and flow through a floatation type oil/water separator before being discharged into the retention basin. The oil recovery system processes oily wastes skimmed from the retention basin. Low volume wastes from the LBGS flow into the retention basin and are then discharged along with the once-through cooling water to the Long Beach Harbor through the same outfall point (Discharge Serial No. 001). However, during maintenance of the retention basin or the once-through cooling system, low volume wastes are discharged directly to the Long Beach Harbor through the same outfall point. Residues in the basin are periodically hauled away to a legal disposal site. Figure 1 shows the location map of the LBGS.

A water flow diagram (Figure 4) is provided as "Schematic Diagram of Water Flow" in Section 3.0 with EPA Form 2C. Figure 4 shows maximum flow rate of each waste stream for the existing operations. Include in this section is Figure 5 "New Schematic Diagram of Water Flow – Direct Discharge of Low Volume Waste Streams", which reflects the water flow characteristics if the requested changes discussed in the flowing section are implemented.

## 2.0 Discharge Description

LBGS has the following wastewater discharges to the ocean:

a. Once-Through (Non-contact) Cooling Water

b. Low Volume Wastes

The wastewater discharge flow summary of the LBGS is provided in Table 2 below:

**TABLE 2**
**Outfall and Nature of Wastes Discharged**

| | | |
|---|---|---|
| Discharge Serial No. | | 001 |
| Once-through Cooling System, and Low Volume Wastewaters | | |
| Diameter | | 10-foot |
| Outfall Structure | | Channel Bank Outfall |
| Latitude | | 33° 45' 53" |
| Longitude | | 118° 13' 17" |
| Maximum Temperature, (°F) | Winter (October to April 2004) | 88 |
| | Summer (May to September 2004) | 96 |
| Waste Streams (maximum volume, MGD) | Once-through Cooling Water | 261.00 MGD |
| | Low Volume Wastes[1]: | |
| | • Yard Drain | 1.2 MGD |
| | • Plant Drains | 0.07 MGD |
| | • Plant No,. 2 Well Point System | 1.44 MGD |
| | • Tank Farm Well Point System | 0.504 MGD |
| | • Oil Recovery System | 0.156 MGD |
| | | |

MGD = Million Gallons a Day

## 3.0 Section 316(b) of the Clean Water Act

Section 316(b) of the Federal Clean Water Act (Clean Water Act) requires that the location, design, construction, and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impacts for facilities which generate electricity and utilize once through cooling water systems with circulating capacity of 50 million gallons per day or greater.

On July 9, 2004, the U.S. Environmental Protection Agency (USEPA) published its final rule prescribing how "existing facilities" may comply with Section 316(b) of the Clean Water Act. 69 Fed. Reg. 41575, 41683 (July 9, 2004). Existing facilities, by rule definition, include "as its primary activity, the facility both generates and transmits electric power, or generates electric power but sells it to another entity for transmission..." (40 CFR 125.91), among other applicability criteria

LBGS permanently retired the existing electric power generation equipment at the facility effective January 1, 2005, and as such, is not a "Phase II existing facility" within the meaning of 40 CFR 125.91.

# *Historical NPDES Monitoring Data Summary*

# *Long Beach Generating Station*
# *NPDES Monitoring Data*
# *2001*

Long Beach Generating Station
NPDES Montoring Summary 2001

Long Beach Generation LLC
Long Beach Generating Station
2001

| Discharge No. 001 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Effluent** | | | | | | | | | | | | |
| pH (Max) | 8.1 | 8.2 | 8.1 | 8.0 | 8.2 | 8.1 | 8.0 | 7.9 | 8.0 | 8.0 | 7.9 | 8.0 |
| pH (Min) | 7.9 | 8.0 | 7.6 | 7.9 | 7.9 | 8.0 | 7.9 | 7.6 | 7.8 | 7.8 | 7.8 | 7.9 |
| Flow (Max) MGD | 193.6 | 190.8 | 63.5417 | 214 | 208.5 | 181.5 | 183.1 | 202.2 | 146.6 | 132.3 | 104.5 | 132.1 |
| Flow (Avg) MGD | 143.13 | 133.89 | 63.5417 | 143.86 | 147.86 | 111.49 | 131.66 | 122.88 | 123.23 | 103.29 | 65.667 | 92.13 |
| **Circ. Water Discharge** | | | | | | | | | | | | |
| Temp (Max) °F | 72 | 68 | 72 | 81 | 77 | 79 | 75 | 73 | 73 | 73 | 77 | 63 |
| Temp (Min) °F | 64 | 63 | 63 | 70 | 68 | 72 | 66 | 66 | 70 | 66 | 64 | 59 |
| Heat Treat Temp °F | | | | | | | | | | | | |
| **Chlorine** | | | | | | | | | | | | |
| Total - Avg (mg/l) | 0.07 | 0.12 | 0.05 | 0.10 | 0.12 | 0.10 | 0.14 | 0.11 | 0.15 | 0.08 | 0.05 | 0.09 |
| Total - Max (mg/l) | 0.08 | 0.18 | 0.08 | 0.19 | 0.16 | 0.19 | 0.19 | 0.17 | 0.17 | 0.14 | 0.06 | 0.17 |
| Total - Min (mg/l) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.08 | 0.05 | 0.14 | 0.04 | 0.04 | 0.05 |
| Free - Avg (mg/l) | | | | 0.11 | 0.11 | 0.08 | 0.14 | 0.11 | 0.14 | 0.07 | 0.04 | 0.08 |
| Free - Max (mg/l) | | | | 0.20 | 0.15 | 0.17 | 0.19 | 0.16 | 0.15 | 0.11 | 0.05 | 0.16 |
| Free - Min (mg/l) | | | | 0.00 | 0.00 | 0.03 | 0.08 | 0.05 | 0.12 | 0.04 | 0.03 | 0.04 |

Long Beach Generation LLC
Long Beach Generating Station
2001

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Low Volume Waste** | | | | | | | | | | | | |
| pH (Max) | 9.7 | 8.9 | 9.1 | 8.3 | 8.5 | 9.5 | 8.1 | 8.0 | 7.4 | 7.9 | 7.9 | 8.0 |
| pH (Min) | 7.9 | 8.9 | 7.7 | 8.3 | 8.5 | 8.7 | 8.1 | 8.0 | 7.4 | 7.9 | 7.9 | 8.0 |
| Total Suspended Solids - Max (mg/l) | 25.0 | 21.7 | 14.1 | 10.8 | 7.4 | 17.2 | 3.4 | 7.4 | 11.8 | 9.5 | 11.7 | 5.9 |
| Total Suspended Solids - Avg (mg/l) | 10.9 | 20.0 | 7.3 | 10.2 | 7.1 | 11.0 | 3.3 | 7.1 | 11.2 | 9.4 | 11.5 | 5.7 |
| Oil & Grease-Max (mg/l) | 4.3 | 0.0 | 13.8 | 0.0 | 0.0 | 2.7 | 4.7 | 2.0 | 3.0 | ND | 1.4 | 2.5 |
| Oil & Grease-Min (mg/l) | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 3.1 | 0.9 | 2.0 | ND | 1.1 | ND |
| Flow Rate (MGD) | 2.800 | 4.086 | 4.662 | 1.836 | 2.880 | 2.880 | 1.764 | 1.296 | 1.872 | 1.044 | 1.260 | 1.890 |

Long Beach Generation LLC
Long Beach Generating Station
2001

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Oil Recovery System** | | | | | | | | | | | | |
| Flow Rate (MGD) | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | 0.163 | |
| Total Suspended Solids - Max (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 13.1 | |
| Total Suspended Solids - Avg (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 13.1 | |
| Settleable Solids-Max (ml/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.1 | |
| Settleable Solids-Avg (ml/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.1 | |
| B.O.D. - Max (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.1 | |
| B.O.D. - Min (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.1 | |
| Oil & Grease-Max (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Oil & Grease-Min (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Surfactants (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.2 | |
| Phenolics, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Arsenic, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Cadmium, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Chromium Hexavalent (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| Lead, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | ND | |
| pH (Max) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 7.5 | |
| pH (Min) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 7.5 | |

| C) PRIORITY POLLUTANTS | Intake | | Outfall | |
|---|---|---|---|---|
| | 1st Half | 2nd half | 1st Half | 2nd half |
| Arsenic | 0 | 1.151 | 0 | 1.39 |
| Cadmium | 0.001 | 0.0025 | 0 | 0.0025 |
| Chromium, Total | 0.02 | 1.035 | 0 | 0.9703 |
| Chromium, Hexavalent | 0 | 0 | 0 | 0.015 |
| Copper | 1.6025 | 1.34 | 5.3575 | 1.8175 |
| Lead | 0 | 0.0725 | 0 | 0.1928 |
| Mercury | 0 | 0.0495 | 0 | 0.0495 |
| Nickel | 0 | 0.3095 | 0 | 0.471 |
| Selenium | 0 | 3.27 | 0 | 3.455 |
| Silver | 0 | 0.107 | 0 | 0.102 |
| Zinc | 0 | 8.405 | 0 | 10.208 |

Long Beach Generating Station NPDES Monitoring Data 2001

**C) WELLPOINT SYSTEM**

| Constituent | Maximum Concentration | Units | Date | Method | |
|---|---|---|---|---|---|
| | March | | | | |
| pH | 7.7 | pH | 03/08/2001 | EPA 150.1 | |
| Salinity | 25 | ppt | 03/08/2001 | SM 210, 15th | |
| Suspended Solids | 12.4 | mg/L | 03/08/2001 | SM 2540 D | |
| Disolved Solids | 25,640 | mg/L | 03/08/2001 | SM 2540 C | |
| Oil & Grease | 12.7 | mg/L | 03/08/2001 | EPA 1664 | |
| BOD | 0.0 | mg/L | 03/06/2001 | EPA 405.1 | |
| Total Cyanide | 0.0 | mg/L | 03/06/2001 | EPA 355.5 | |
| Total Phenolics | 0.0 | mg/L | 03/06/2001 | EPA 420.1 | |
| Surfactants | 0.0 | mg/L | 03/06/2001 | EPA 425.1 | |
| Arsenic | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Cadmium | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Chromium Hexavalent | 0.0 | mg/L | 03/06/2001 | EPA 7196A | |
| Copper | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Mercury | 0.0 | mg/L | 03/12/2001 | EPA 7470A | |
| Nickel | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Selenium | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Silver | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Zinc | 48.8 | mg/L | 03/12/2001 | EPA 6010B | |
| Pesticides/PCBs | 0.0 | mg/L | 03/06/2001 | EPA 8081/8082 | |
| VOCs,acrolein,etc | 0.0 | mg/L | 03/06/2001 | EPA8260B | |
| Semi Volatile Organics | 0.0 | mg/L | 03/12/2001 | EPA 8270C | |

| Well Point System Priority Pollutants<br>Constituent & Date of Sample | Concentration | Units | | Method | |
|---|---|---|---|---|---|
| Antimony | 0.0 | mg/l | 03/12/2001 | EPA 6010B | |
| Beryllium | 0.0 | mg/l | 03/12/2001 | EPA 6010B | |
| Chromium (Total) | 0.0 | mg/l | 03/12/2001 | EPA 6010B | |
| Lead | 0.0 | mg/l | 03/12/2001 | EPA 6010B | |
| Thallium | 0.0 | mg/L | 03/12/2001 | EPA 6010B | |
| Zinc | 0.155 | mg/l | 03/12/2001 | EPA 6010B | |
| Alpha-BHC3/12/01 | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Gamma-BHC | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Beta-BHC | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Heptachlor | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Delta-BHC | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Aldrin | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Heptachlor Epoxide | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Endosulfan I | 0.0 | ug/l | 03/12/2001 | EPA 8081/8022 | |
| Dieldrin | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| 4,4'-DDE | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Endrin | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Endrin Aldehyde | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| 4,4'-DDD | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Endosulfan II | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| 4,4'DDT | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Endosulfan Sulfate | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Methoxychlor | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |

| | | | | | |
|---|---|---|---|---|---|
| Chlordane | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Toxaphene | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1016 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1221 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1232 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1242-312/01 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Arcotor 1248 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Arcotor 1254 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1260 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Aroctor-1262 | 0.0 | ug/l | 03/12/2001 | EPA 3529B | |
| Endrin Ketone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Acetone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Acrolein | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Acrylonitrile | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bromobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Toxaphene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bromochloromethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bromodichloromethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bromoform | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bromomethane-1242 | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Butanone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| n-Butylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| sec-Butylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| tert-Butylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Carbon disulfide | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Carbon Tetrachloride | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Chlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Chlorethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Chloroethyl Vinyl Ether | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Chlorform | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Chlormethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Chlorotoluene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Chlorotoluene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dibromochloromethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1.2-Dibromo-3-Chloropropane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2-Dibromoethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dibromomethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2-Dichlorobenzene-1242 | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,3-Dichlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,4-Dichorolbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dichlorodiflouromethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1-Dichloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1.3-Dichloropropene | 0.0 | ug/L | 03/12/2001 | EPA 3520 | |
| 1,2-Dichloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1_Dichloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| c-1,2-Dichloroethane3/12/01 | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| t-1,2-Dichloroethene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2-Dichloropropane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,2-Dichloropropane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1-Dichloropropene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| c-1,3-Dichloropropene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| t-1,3-Dichloropropene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Ethylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Hexanone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |

| | | | | | |
|---|---|---|---|---|---|
| Isopropylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| p-Isopropyltoluene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Methylene chloride | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Methyl-2-Pentanone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Napthalene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| n-Propylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Styrene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1,1,2-Tetrachlroethane3/12/01 | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1,2,2-Tetrachlroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Tetrachloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Toulene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2,3-Trichlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2,4-Trichlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1,1-Trichloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,1,2-Trichloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Trichloroethene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Trichlorofluoromethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2,3-Trichloropropane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2,4-Trimethylbenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Vinyl Acetate | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Vinyl Chloride | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| p/m-Xylene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| o-Xylene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Methyl-tert-Butyl Ether | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| N-Nitrosodimethylamine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Analine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Phenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bis(2-Chloroethyl) Ether | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Chlorophenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,3-Dichlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,4-Dichlorobenezene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzyl Alchol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2-Dichlorobezene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Methylphenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bis(2-Chloroisopropyl) Ether | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 3/4-Methylphenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| N-Nitroso-di-n-prophylamine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Hexachloroethane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Nitrobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Isophorone | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Nitrophenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4-Dimethylphenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzonic Acid | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bis(-Chloroethoxy) Methane | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4-Dichlorophenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,2,4-Trichlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1,3,5-Trimethylene Benzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Chlorooaniline | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Hexachloro-1,3 Butadiene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Chloro-3-Methylphenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Methylnaphtalene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Hexachlorocyclopentadiene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4,6-Trichlorophenol- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4,5-Trichlorophenol- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2-Chloronapthalene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |

| | | | | | |
|---|---|---|---|---|---|
| 2-Nitroaniline | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dimethyl Phthalate | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Acenaphthylene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 3-Nitroaniline | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Acenaphthene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4-Dinitrophenol1 | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Nitrophenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dibenzofuran | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,4-Dinitrotoulene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 2,6-Dinitrotoulene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Diethy Pthalatel | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Chlorophenyl-Phenyl Ether- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Fluorene- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Nitroaniline | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Azobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4,6-Dinitiro-2-Methylphenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| N-Nitrosodiphenylamine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 4-Bromophenyl-Phenyl Ether | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Hexachlorobenzene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Pentachlorophenol | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Phenanthrene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Anthracene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Di-n-Butyl Phthalate | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Fluoranthene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzidine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Pyrene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Pyridine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Butyl-Benzyl Phthalate | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 3,3'-Dichlorobenzidine | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzo (a) Anthracene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Bis (2-Ethylhexy) Phthalate | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Chrysene- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Di-n-Octyl Phthalate- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzo (b) Fluoranthene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzo (k) Fluoranthene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzo (k) Pyrene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Benzo (g,h,i) Perylene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Indeno (1,2,3-c,d) Pyrene | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| Dibenz (a,h) Anthracene- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |
| 1-Methylnaphthalene- | 0.0 | ug/l | 03/12/2001 | EPA 3520 | |

Long Beach Generating Station NPDES Monitoring Data 2001

| C) RETENTION BASIN PRIORITY POLLUTANTS | | | | |
|---|---|---|---|---|
| Constituent & Date of Sample | Concentration | | Units | Frequency of Analysis |
| | 3rd Qtr | 4th Qtr | | |
| Date | 08/07/2001 | 11/02/2001 | | |
| Total Cyanide | 0.049 | ND | mg/l | Quarterly |
| Antimony | 14.99 | 0.025 | ug/l | Quarterly |
| Arsenic | 14.99 | 3.88 | ug/l | Quarterly |
| Barium | | | ug/l | Quarterly |
| Beryllium | 0.99 | ND | ug/l | Quarterly |
| Cadmium | 2.49 | 0.099 | ug/l | Quarterly |
| Chromium (Total) | 7.0 | 0.666 | ug/l | Quarterly |
| Chromium, Hexavalent | | | | Quarterly |
| Cobalt | | | | Quarterly |
| Copper | 27.0 | 2.19 | ug/l | Quarterly |
| Lead | 4.99 | 0.239 | ug/l | Quarterly |
| Mercury | 0.49 | ND | ug/l | Quarterly |
| Molybdenum | | | | Quarterly |
| Nickel | 5.00 | 4.32 | ug/l | Quarterly |
| Selenium | 14.99 | ND | ug/l | Quarterly |
| Silver | 1.99 | ND | ug/l | Quarterly |
| Thallium | 14.99 | ND | ug/l | Quarterly |
| Vanadium | | | ug/l | Quarterly |
| Zinc | 27.0 | 8.56 | ug/l | Quarterly |
| Alpha-BHC | 0.09 | ND | mg/l | Quarterly |
| Gamma-BHC | 0.09 | ND | mg/l | Quarterly |
| Beta-BHC | 0.09 | ND | ug/l | Quarterly |
| Heptachlor | 0.09 | ND | ug/l | Quarterly |
| Delta-BHC | 0.09 | ND | ug/l | Quarterly |
| Aldrin | 0.09 | ND | ug/l | Quarterly |
| Heptachlor Epoxide | 0.09 | ND | ug/l | Quarterly |
| Endosulfan I | 0.09 | ND | ug/l | Quarterly |
| Dieldrin | 0.09 | ND | ug/l | Quarterly |
| 4,4'-DDE | 0.09 | ND | ug/l | Quarterly |
| Endrin | 0.09 | ND | ug/l | Quarterly |
| Endrin Aldehyde | 0.09 | ND | ug/l | Quarterly |
| 4,4'-DDD | 0.09 | ND | ug/l | Quarterly |
| Endosulfan II | 0.09 | ND | ug/l | Quarterly |
| 4,4'DDT | 0.09 | ND | ug/l | Quarterly |
| Endosulfan Sulfate | 0.09 | ND | ug/l | Quarterly |
| Methoxychlor | 0.09 | ND | ug/l | Quarterly |
| Mirex | | ND | ug/l | Quarterly |
| Toxaphane | | ND | ug/l | Quarterly |
| Trans-nonachlor | | ND | ug/l | Quarterly |
| 2.4'-DDD | | ND | ug/l | Quarterly |
| 2,4'-DDE | | ND | ug/l | Quarterly |
| 2,4'-DDT | | ND | ug/l | Quarterly |
| Chlordane | 0.99 | ND | ug/l | Quarterly |
| Toxaphene | 1.99 | ND | ug/l | Quarterly |
| Aroctor-1016 | 0.9 | ND | ug/l | Quarterly |
| Aroctor-1221 | 0.9 | ND | ug/l | Quarterly |

| | | | | |
|---|---|---|---|---|
| Aroctor-1232 | 0.9 | ND | ug/l | Quarterly |
| Aroctor-1242 | 0.9 | ND | ug/l | Quarterly |
| Arcotor 1248 | 0.9 | ND | ug/l | Quarterly |
| Arcotor 1254 | 0.9 | ND | ug/l | Quarterly |
| Aroctor-1260 | 0.9 | ND | ug/l | Quarterly |
| Aroctor-1262 | 0.9 | | ug/l | Quarterly |
| Endrin Ketone | 0.09 | | ug/l | Quarterly |
| 2,3,7,8 TCDD | | ND | ug/l | Quarterly |
| bis(2ethyhexyl) phthalate | | ND | ug/l | Quarterly |
| Acetone | 42.0 | 13.0 | ug/l | Quarterly |
| Acrolein | | | ug/l | Quarterly |
| Acrylonitrile | | | ug/l | Quarterly |
| Benzene | 0.49 | ND | ug/l | Quarterly |
| Bromobenzene | 0.9 | ND | ug/l | Quarterly |
| Bromochloromethane | 0.9 | ND | ug/l | Quarterly |
| Bromodichloromethane | 0.9 | 1.4 | ug/l | Quarterly |
| Bromoform | 0.9 | ND | ug/l | Quarterly |
| Bromomethane-1242 | 0.9 | ND | ug/l | Quarterly |
| 2-Butanone | 9.99 | ND | ug/l | Quarterly |
| n-Butylbenzene | 0.9 | ND | ug/l | Quarterly |
| sec-Butylbenzene | 0.9 | ND | ug/l | Quarterly |
| tert-Butylbenzene | 9.99 | ND | ug/l | Quarterly |
| Carbon disulfide | 9.99 | ND | ug/l | Quarterly |
| Carbon Tetrachloride | 0.49 | ND | ug/l | Quarterly |
| Chlorobenzene | 0.9 | ND | ug/l | Quarterly |
| Chlorethane | 0.9 | ND | ug/l | Quarterly |
| 2-Chlorethane | | ND | ug/l | Quarterly |
| 4-Chlorethane | | ND | ug/l | Quarterly |
| Chlordane-alpha | | ND | ug/l | Quarterly |
| Chlorodane-gamma | | ND | ug/l | Quarterly |
| 2-methyl-4,6 dinitrophenol | | ND | ug/l | Quarterly |
| 2-Chloroethyl Vinyl Ether | | | ug/l | Quarterly |
| Chlorform | 0.9 | 1.0 | ug/l | Quarterly |
| Chlormethane | 0.9 | ND | ug/l | Quarterly |
| 2-Chlorotoluene | 0.9 | ND | ug/l | Quarterly |
| 4-Chlorotoluene | 0.9 | ND | ug/l | Quarterly |
| Dibromochloromethane | 0.9 | 1.9 | ug/l | Quarterly |
| 1.2-Dibromo-3-Chloropropane | 4.99 | ND | ug/l | Quarterly |
| 1,2-Dibromoethane | 0.9 | ND | ug/l | Quarterly |
| Dibromomethane | 0.9 | ND | ug/l | Quarterly |
| 1,2-Dichlorobenzene-1242 | 0.9 | ND | ug/l | Quarterly |
| 1,3-Dichlorobenzene | 0.9 | ND | ug/l | Quarterly |
| 1,4-Dichorolbenzene | 0.9 | ND | ug/l | Quarterly |
| Dichlorodiflouromethane | 0.9 | ND | ug/l | Quarterly |
| 1,1-Dichloroethane | 0.9 | ND | ug/l | Quarterly |
| 1,2-Dichloroethane | 0.49 | ND | ug/l | Quarterly |
| 1,1_Dichloroethane | 0.9 | ND | ug/l | Quarterly |
| c-1,2-Dichloroethane | 0.9 | ND | ug/l | Quarterly |
| t-1,2-Dichloroethene | 0.9 | ND | ug/l | Quarterly |
| 1,2-Dichloropropane | 0.9 | ND | ug/l | Quarterly |
| 1,3-Dichloropropane | | ND | ug/l | Quarterly |
| 2,2-Dichloropropane | 0.9 | ND | ug/l | Quarterly |
| 1,1-Dichloropropene | 0.9 | ND | ug/l | Quarterly |
| c-1,3-Dichloropropene | 0.49 | ND | ug/l | Quarterly |
| t-1,3-Dichloropropene | 0.49 | ND | ug/l | Quarterly |

| | | | | |
|---|---|---|---|---|
| Ethylbenzene | 0.9 | ND | ug/l | Quarterly |
| 2-Hexanone | 9.9 | ND | ug/l | Quarterly |
| Isopropylbenzene | 0.9 | ND | ug/l | Quarterly |
| p-Isopropyltoluene | 0.9 | ND | ug/l | Quarterly |
| Methylene chloride | 9.9 | ND | ug/l | Quarterly |
| 4-Methyl-2-Pentanone | 9.9 | ND | ug/l | Quarterly |
| Napthalene | 9.9 | ND | ug/l | Quarterly |
| n-Propylbenzene | 0.9 | ND | ug/l | Quarterly |
| Styrene | 0.9 | ND | ug/l | Quarterly |
| 1,1,1,2-Tetrachlroethane | 0.9 | ND | ug/l | Quarterly |
| 1,1,2,2-Tetrachlroethane | 0.9 | ND | ug/l | Quarterly |
| Tetrachloroethane | 0.9 | ND | ug/l | Quarterly |
| Toulene | 0.9 | ND | ug/l | Quarterly |
| 1,2,3-Trichlorobenzene | 0.9 | ND | ug/l | Quarterly |
| 1,2,4-Trichlorobenzene | 0.9 | ND | ug/l | Quarterly |
| 1,1,1-Trichloroethane | 0.9 | ND | ug/l | Quarterly |
| 1,1,2-Trichloroethane | 0.9 | ND | ug/l | Quarterly |
| Trichloroethene | 0.9 | ND | ug/l | Quarterly |
| Trichlorofluoromethane | 9.9 | ND | ug/l | Quarterly |
| 1,2,3-Trichloropropane | 4.9 | ND | ug/l | Quarterly |
| 1,2,4-Trimethylbenzene | 0.9 | ND | ug/l | Quarterly |
| Vinyl Acetate | 9.99 | ND | ug/l | Quarterly |
| Vinyl Chloride | 0.49 | ND | ug/l | Quarterly |
| p/m-Xylene | 0.9 | ND | ug/l | Quarterly |
| o-Xylene | 0.9 | ND | ug/l | Quarterly |
| Methyl-tert-Butyl Ether | 0.9 | ND | ug/l | Quarterly |
| N-Nitrosodimethylamine | 9.9 | ND | ug/l | Quarterly |
| Analine | 9.9 | | ug/l | Quarterly |
| Phenol | 9.9 | ND | ug/l | Quarterly |
| Bis(2-Chloroethyl) Ether | 24.9 | ND | ug/l | Quarterly |
| 2-Chlorophenol | 9.9 | ND | ug/l | Quarterly |
| 1,3-Dichlorobenzene | 9.9 | | ug/l | Quarterly |
| 1,4-Dichlorobenezene | 9.9 | | ug/l | Quarterly |
| Benzyl Alchol | 9.9 | | ug/l | Quarterly |
| 1,2-Dichlorobezene | 9.9 | | ug/l | Quarterly |
| 2-Methylphenol | 9.9 | | ug/l | Quarterly |
| Bis(2-Chloroisopropyl) Ether | 9.9 | ND | ug/l | Quarterly |
| 3/4-Methylphenol | 9.9 | | ug/l | Quarterly |
| N-Nitroso-di-n-prophylamine | 9.9 | ND | ug/l | Quarterly |
| Hexachloroethane | 9.9 | | ug/l | Quarterly |
| Nitrobenzene | 24.9 | ND | ug/l | Quarterly |
| Isophorone | 9.9 | ND | ug/l | Quarterly |
| 2-Nitrophenol | 9.9 | ND | ug/l | Quarterly |
| 2,4-Dimethylphenol | 9.9 | ND | ug/l | Quarterly |
| Benzonic Acid | 49.99 | | ug/l | Quarterly |
| Bis(-Chloroethoxy) Methane | 9.9 | | ug/l | Quarterly |
| 2,4-Dichlorophenol | 9.9 | ND | ug/l | Quarterly |
| 1,2,4-Trichlorobenzene | 9.9 | | ug/l | Quarterly |
| Napthalene | 9.9 | ND | ug/l | Quarterly |
| 4-Chlorooaniline | 9.9 | ND | ug/l | Quarterly |
| Hexachloro-1,3 Butadiene | 9.9 | ND | ug/l | Quarterly |
| 4-Chloro-3-Methylphenol | 9.9 | ND | ug/l | Quarterly |
| 2-Methylnaphtalene | 9.9 | ND | ug/l | Quarterly |
| Hexachlorocyclopentadiene | 24.99 | ND | ug/l | Quarterly |
| 2,4,6-Trichlorophenol | 9.9 | ND | ug/l | Quarterly |

| | | | | |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 9.9 | | ug/l | Quarterly |
| 2-Chloronapthalene | 9.9 | ND | ug/l | Quarterly |
| 2-Nitroaniline | 9.9 | | ug/l | Quarterly |
| Dimethyl Phthalate | 9.9 | ND | ug/l | Quarterly |
| Acenaphthylene | 9.9 | ND | ug/l | Quarterly |
| 3-Nitroaniline | 9.9 | | ug/l | Quarterly |
| Acenaphthene | 9.9 | ND | ug/l | Quarterly |
| 2,4-Dinitrophenol | 49.9 | ND | ug/l | Quarterly |
| 4-Nitrophenol | 9.9 | ND | ug/l | Quarterly |
| Dibenzofuran | 9.9 | | ug/l | Quarterly |
| 2,4-Dinitrotoulene | 9.9 | ND | ug/l | Quarterly |
| 2,6-Dinitrotoulene | 9.9 | ND | ug/l | Quarterly |
| Diethy Pthalatel | 9.9 | 10.0 | ug/l | Quarterly |
| 4-Chlorophenyl-Phenyl Ether | 9.9 | ND | ug/l | Quarterly |
| Fluorene | 9.9 | ND | ug/l | Quarterly |
| 4-Nitroaniline | 9.9 | | ug/l | Quarterly |
| Azobenzene | 9.9 | ND | ug/l | Quarterly |
| 4,6-Dinitiro-2-Methylphenol | 49.9 | | ug/l | Quarterly |
| N-Nitrosodiphenylamine | 9.9 | | ug/l | Quarterly |
| 4-Bromophenyl-Phenyl Ether | 9.9 | | ug/l | Quarterly |
| Hexachlorobenzene | 9.9 | | ug/l | Quarterly |
| Pentachlorophenol | 9.9 | ND | ug/l | Quarterly |
| Phenanthrene | 9.9 | ND | ug/l | Quarterly |
| Anthracene | 9.9 | ND | ug/l | Quarterly |
| Di-n-Butyl Phthalate | 9.9 | 19.0 | ug/l | Quarterly |
| Fluoranthene | 9.9 | ND | ug/l | Quarterly |
| Benzidine | 49.9 | ND | ug/l | Quarterly |
| Pyrene | 9.9 | | ug/l | Quarterly |
| Pyridine | 9.9 | ND | ug/l | Quarterly |
| Butyl-Benzyl Phthalate | 9.9 | | ug/l | Quarterly |
| 3,3'-Dichlorobenzidine | 24.9 | ND | ug/l | Quarterly |
| Benzo (a) Anthracene | 9.9 | | ug/l | Quarterly |
| Bis (2-Ethylhexy) Phthalate | 9.9 | 57.0 | ug/l | Quarterly |
| Chrysene- | 9.9 | ND | ug/l | Quarterly |
| Di-n-Octyl Phthalate- | 9.9 | ND | ug/l | Quarterly |
| Benzo (b) Fluoranthene | 9.9 | ND | ug/l | Quarterly |
| Benzo (a) Pyrene | | ND | ug/l | Quarterly |
| Benzo (k) Fluoranthene | 9.9 | ND | ug/l | Quarterly |
| Benzo (k) Pyrene | 9.9 | ND | ug/l | Quarterly |
| Benzo (g,h,i) Perylene | 9.9 | | ug/l | Quarterly |
| Indeno (1,2,3-c,d) Pyrene | 9.9 | ND | ug/l | Quarterly |
| Dibenz (a,h) Anthracene | 9.9 | | ug/l | Quarterly |
| 1-Methylnaphthalene | 9.9 | ND | ug/l | Quarterly |
| EPA Method 8290-2,3,7,8 TCDD | 0.000049 | ND | ng/ml | Quarterly |
| 1-Methyphenanthrene | | ND | ug/l | Quarterly |
| 2,3,5Trimethylnapthalene | | ND | ug/l | Quarterly |
| 2,6 Dimethnapthalene | | ND | ug/l | Quarterly |
| Benzolelpyrene | | | ug/l | Quarterly |
| Indeno (1,2,3-c,d) Pyrene | | ND | ug/l | Quarterly |
| Perylene | | ND | ug/l | Quarterly |

# *Long Beach Generating Station*
# *NPDES Monitoring Data*
# *2002*

Long Beach Generating Station
NPDES Monitoring Data Summary 2002

Long Beach Generation LLC
Long Beach Generating Station
2002

| Discharge No. 001 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Effluent** | | | | | | | | | | | | |
| pH (Max) | 8.0 | 8.0 | 8.0 | 8.1 | 8.0 | 8.0 | 8.1 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| pH (Min) | 7.7 | 7.9 | 7.8 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.7 | 7.7 | 7.8 | 7.8 |
| Flow (Max) MGD | 61.2 | 93.2 | 74.3433 | 72 | 72.3 | 134.3 | 133.7 | 96.3 | 131.2 | 64.6 | 164.2 | 149.8 |
| Flow (Avg) MGD | 60.35 | 65.493 | 74.3433 | 68.636 | 70.564 | 80.43 | 59.103 | 38.537 | 38.476 | 27.457 | 96 | 61.703 |
| **Circ. Water Discharge** | | | | | | | | | | | | |
| Temp (Max) °F | 68 | 64 | 66 | 68 | 75 | 70 | 75 | 81 | 77 | 79 | 84 | 72 |
| Temp (Min) °F | 59 | 61 | 61 | 61 | 63 | 68 | 70 | 70 | 59 | 66 | 68 | 57 |
| Heat Treat Temp °F | | | | | | | | | | | | |
| **Chlorine** | | | | | | | | | | | | |
| Total - Avg (mg/l) | 0.05 | 0.09 | 0.07 | 0.10 | 0.18 | 0.05 | 0.09 | 0.10 | 0.12 | 0.06 | 0.15 | 0.06 |
| Total - Max (mg/l) | 0.06 | 0.19 | 0.17 | 0.19 | 0.20 | 0.20 | 0.18 | 0.17 | 0.18 | 0.11 | 0.19 | 0.15 |
| Total - Min (mg/l) | 0.04 | 0.04 | 0.04 | 0.04 | 0.17 | 0.04 | 0.04 | 0.05 | 0.06 | 0.03 | 0.06 | 0.05 |
| Free - Avg (mg/l) | 0.04 | 0.08 | 0.06 | 0.12 | 0.16 | 0.05 | 0.08 | 0.09 | 0.11 | 0.06 | 0.12 | 0.05 |
| Free - Max (mg/l) | 0.05 | 0.18 | 0.16 | 0.20 | 0.19 | 0.19 | 0.17 | 0.16 | 0.16 | 0.08 | 0.19 | 0.06 |
| Free - Min (mg/l) | 0.04 | 0.03 | 0.04 | 0.05 | 0.13 | 0.04 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |

Long Beach Generation LLC
Long Beach Generating Station
2002

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Low Volume Waste** | | | | | | | | | | | | |
| pH (Max) | 7.8 | 7.9 | 7.8 | 7.9 | 7.8 | 7.6 | 7.7 | 7.7 | 7.9 | 7.9 | 7.8 | 7.8 |
| pH (Min) | 7.7 | 7.8 | 7.8 | 7.9 | 7.8 | 7.6 | 7.7 | 7.7 | 7.8 | 7.9 | 7.7 | 7.8 |
| Total Suspended Solids - Max (mg/l) | 7.8 | 9.4 | 6.4 | 8.1 | 5.5 | 19.0 | 8.1 | 7.2 | 24.8 | 13.5 | 14.4 | 14.6 |
| Total Suspended Solids - Avg (mg/l) | 6.2 | 9.3 | 6.6 | 7.8 | 5.4 | 18.0 | 8.1 | 6.9 | 21.3 | 12.8 | 13.4 | 12.3 |
| Oil & Grease-Max (mg/l) | 2.6 | ND | ND | ND | 0.4 | 1.2 | ND | ND | ND | ND | ND | ND |
| Oil & Grease-Min (mg/l) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Flow Rate (MGD) | 1.692 | 0.000 | 0.000 | 0.000 | 3.186 | 1.512 | 1.800 | 1.908 | 1.782 | 0.000 | 1.836 | 1.836 |

Long Beach Generation LLC
Long Beach Generating Station
2002

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Oil Recovery System** | | | | | | | | | | | | |
| Flow Rate (MGD) | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total Suspended Solids - Max (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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 | 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 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B.O.D. - Min (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oil & Grease-Max (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oil & Grease-Min (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Surfactants (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phenolics, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chromium Hexavalent (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead, Total (mg/l) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| pH (Max) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| pH (Min) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| C) PRIORITY POLLUTANTS | Intake<br>Annual Average | Outfall<br>Annual Average |
|---|---|---|
| Arsenic | 0.145 | 0.865 |
| Cadmium | 0.825 | 0.1 |
| Chromium, Total | 0.04 | ND |
| Chromium, Hexavalent | 0.3 | ND |
| Copper | 1.945 | 2.09 |
| Lead | 0.16 | 0.315 |
| Mercury | 0.07 | 0.09 |
| Nickel | 0.625 | 1.16 |
| Selenium | 0.05 | 0.06 |
| Silver | 0.2 | 0.225 |
| Zinc | 14.575 | 15.95 |

Long Beach Generating Station - NPDES Monitoring Data Sumamry 2002

| RETENTION BASIN PRIORITY POLLUTANTS | | | | | | |
|---|---|---|---|---|---|---|
| Constituent & Date of Sample | Concentration | | | | Units | Frequency of Analysis |
| | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | | |
| Date | 01/17/2002 | 05/01/2002 | 08/13/2002 | 11/05/2002 | | |
| Antimony | 0,01 | 0.064 | 0.01 | 0.107 | ug/l | Quarterly |
| Arsenic | 5.83 | 8.29 | 6.35 | 8.0 | ug/l | Quarterly |
| Barium | | | | | ug/l | Quarterly |
| Beryllium | ND | ND | ND | ND | ng/l | Quarterly |
| Cadmium | ND | 0.053 | 0.01 | 0.093 | ug/l | Quarterly |
| Chromium (Total) | 0.89 | 0.99 | 0.49 | 1.8 | ug/l | Quarterly |
| Chromium, Hexavalent | | | | | ng/l | Quarterly |
| Cobalt | | | | | | Quarterly |
| Copper | 1.95 | 2.13 | 2.35 | 21.4 | ug/l | Quarterly |
| Lead | 0.30 | 0.336 | 0.21 | 2.2 | ug/l | Quarterly |
| Mercury | ND | ND | ND | ND | ug/l | Quarterly |
| Nickel | 0.87 | 1.44 | 1.91 | 9.21 | ug/l | Quarterly |
| Selenium | 0.04 | 2.32 | 0.04 | ND | ug/l | Quarterly |
| Silver | ND | ND | ND | ND | ug/l | Quarterly |
| Thallium | 0.01 | 0.022 | ND | ND | ug/l | Quarterly |
| Zinc | 18.7 | 12.5 | 8.19 | 43.6 | ug/l | Quarterly |
| 1,1,1,2-Tetrachlroethane | ND | ND | ND | | ug/l | Quarterly |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,1,2,2-Tetrachlroethane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,1-Dichloroethane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,1-Dichloropropene | | | ND | ND | ug/l | Quarterly |
| 1,2,3-Trichlorobenzene | | ND | ND | ND | ug/l | Quarterly |
| 1,2,3-Trichloropropane | | ND | ND | ND | ug/l | Quarterly |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ug/l | Quarterly |
| 1,2,4-Trimethylbenzene | | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dibromoethane | | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dichlorobenzene-1242 | | | | | ug/l | Quarterly |
| 1,2-Dichlorobezene | ND | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dichloroethane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dichloropropane | ND | ND | ND | ND | ug/l | Quarterly |
| 1,2-Diphenylhydrazine | ND | | ND | | ug/l | Quarterly |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ug/l | Quarterly |
| 1,3,5-Trimethethylbenzene | | ND | ND | ND | ug/l | Quarterly |
| 1,3-Dichloropropane | | ND | ND | ND | ug/l | Quarterly |
| 1,4-Dichlorobenezene | ND | 10.0 | ND | 13.3 | ug/l | Quarterly |
| 1,2-Dibromo-3-Chloropropane | | ND | ND | ND | ng/l | Quarterly |
| 1-Methylnaphthalene | ND | ND | | | ng/l | Quarterly |
| 1-Methyphenanthrene | ND | ND | | | ng/l | Quarterly |
| 2,2-Dichloropropane | | ND | ND | ND | ng/l | Quarterly |
| 2,3,5Trimethylnapthalene | ND | ND | | | ng/l | Quarterly |
| 2,3,7,8 TCDD | nd | ND | ND | ND | ng/l | Quarterly |
| 2,4,5-Trichlorophenol | | | | | ng/l | Quarterly |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | ND | ND | ND | ng/l | Quarterly |
| 2,4'-DDE | ND | ND | | | ng/l | Quarterly |
| 2,4'-DDT | ND | ND | | | ng/l | Quarterly |
| 2,4-Dichlorophenol | ND | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dimethylphenol | ND | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dinitrophenol | ND | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dinitrotoulene | ND | ND | ND | ND | ng/l | Quarterly |
| 2,6 Dimethnapthalene | 9.3 | ND | | | ng/l | Quarterly |
| 2,6-Dinitrotoulene | 82.0 | ND | ND | ND | ng/l | Quarterly |
| 2.4'-DDD | ND | ND | | | ng/l | Quarterly |
| 2-Butanone | | ND | ND | ND | ug/l | Quarterly |
| 2-Chlorethane | | | | | ng/l | Quarterly |
| 2-Chloroethyl Vinyl Ether | ND | ND | | ND | ng/l | Quarterly |
| 2-Chloronapthalene | ND | ND | ND | ND | ng/l | Quarterly |
| 2-Chlorophenol | ND | ND | ND | ND | ug/l | Quarterly |
| 2-Chlorotoluene | | ND | ND | ND | ug/l | Quarterly |
| 2-Hexanone | | ND | ND | ND | ug/l | Quarterly |
| 2-methyl-4,6 dinitrophenol | ND | ND | ND | ND | ng/l | Quarterly |
| 2-Methylnaphtalene | 5.0 | ND | | | ng/l | Quarterly |
| 2-Methylphenol | | | | | ng/l | Quarterly |
| 2-Nitroaniline | | | | | ng/l | Quarterly |
| 2-Nitrophenol | ND | ND | ND | ND | ng/l | Quarterly |
| 3,3'-Dichlorobenzidine | ND | | ND | ND | ng/l | Quarterly |
| 3/4-Methylphenol | | | | | ng/l | Quarterly |
| 3-Nitroaniline | | | | | ng/l | Quarterly |
| 4,4'-DDD | ND | ND | ND | ND | ng/l | Quarterly |
| 4,4'-DDE | ND | ND | ND | ND | ng/l | Quarterly |
| 4,4'DDT | ND | ND | ND | ND | ng/l | Quarterly |
| 4,6-Dinitiro-2-Methylphenol | | | | | ng/l | Quarterly |
| 4-Bromophenyl-Phenyl Ether | ND | ND | ND | ND | ng/l | Quarterly |
| 4-Chlorethane | | | | | ng/l | Quarterly |
| 4-Chloro-3-Methylphenol | ND | ND | ND | ND | ng/l | Quarterly |
| 4-Chlorooaniline | | | | | ng/l | Quarterly |
| 4-Chlorophenyl-Phenyl Ether | ND | ND | ND | ND | ng/l | Quarterly |
| 4-Chlorotoluene | | ND | ND | | ug/l | Quarterly |
| 4-Methyl-2-Pentanone | | ND | ND | | ug/l | Quarterly |
| 4-Nitroaniline | | | | | ng/l | Quarterly |
| 4-Nitrophenol | ND | ND | ND | ND | ng/l | Quarterly |
| Acenaphthene | ND | ND | ND | ND | ug/l | Quarterly |
| Acenaphthylene | ND | ND | ND | ND | ng/l | Quarterly |
| Acetone | | ND | ND | | ug/l | Quarterly |
| Acrolein | | ND | | ND | ng/l | Quarterly |
| Acrylonitrile | | ND | | ND | ng/l | Quarterly |
| Aldrin | ND | ND | ND | ND | ng/l | Quarterly |
| Alpha-BHC | ND | ND | ND | ND | ng/l | Quarterly |
| Analine | | | | | ng/l | Quarterly |
| Anthracene | ND | ND | ND | ND | ng/l | Quarterly |
| Arcotor 1248 | ND | ND | ND | ND | ng/l | Quarterly |
| Arcotor 1254 | ND | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1016 | ND | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1221 | ND | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1232 | ND | ND | ND | ND | ng/l | Quarterly |

| | | | | | | |
|---|---|---|---|---|---|---|
| Aroctor-1242 | ND | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1260 | ND | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1262 | | | | | ng/l | Quarterly |
| Azobenzene | ND | ND | | ND | ng/l | Quarterly |
| Benzene | ND | ND | ND | ND | ug/l | Quarterly |
| Benzidine | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (a) Anthracene | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (a) Pyrene | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (b) Fluoranthene | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (e) Pyrene | ND | ND | | | ng/l | Quarterly |
| Benzo (g,h,i) Perylene | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (k) Fluoranthene | ND | ND | ND | ND | ng/l | Quarterly |
| Benzo (k) Pyrene | | | | | ng/l | Quarterly |
| Benzolelpyrene | | | | | ng/l | Quarterly |
| Benzonic Acid | | | | | ng/l | Quarterly |
| Benzyl Alchol | | | | | ng/l | Quarterly |
| Beta-BHC | ND | ND | ND | ND | ng/l | Quarterly |
| Biphenyl | 2.7 | ND | | | ng/l | Quarterly |
| Bis (2-Ethylhexy) Phthalate | 108.0 | 65.0 | 157.0 | 76.7 | ng/l | Quarterly |
| Bis(2-Chloroethyl) Ether | ND | ND | ND | ND | ng/l | Quarterly |
| Bis(2-Chloroisopropyl) Ether | ND | ND | ND | ND | ng/l | Quarterly |
| bisbenzyl phthalate | 40.0 | | ND | | ng/l | Quarterly |
| Bis(-Chloroethoxy) Methane | ND | ND | ND | ND | ng/l | Quarterly |
| Bromobenzene | | ND | ND | ND | ug/l | Quarterly |
| Bromochloromethane | | ND | ND | ND | ug/l | Quarterly |
| Bromodichloromethane | ND | ND | ND | 2.0 | ug/l | Quarterly |
| Bromoform | ND | ND | ND | ND | ug/l | Quarterly |
| Bromomethane | ND | ND | ND | ND | ng/l | Quarterly |
| Butyl-Benzyl Phthalate | ND | 19.0 | ND | 24.9 | ug/l | Quarterly |
| c-1,2-Dichloroethane | ND | ND | ND | ND | ug/l | Quarterly |
| c-1,3-Dichloropropene | ND | ND | ND | ND | ug/l | Quarterly |
| C-Xylene | ND | ND | | ND | ug/l | Quarterly |
| Carbon disulfide | | ND | ND | ND | ng/l | Quarterly |
| Carbon Tetrachloride | ND | ND | ND | ND | ng/l | Quarterly |
| Chlordane | | | | | ng/l | Quarterly |
| Chlordane-alpha | ND | ND | ND | ND | ng/l | Quarterly |
| Chlorodane-gamma | ND | ND | ND | ND | ng/l | Quarterly |
| Chlorethane | | ND | ND | ND | ng/l | Quarterly |
| Chlorform | ND | ND | ND | 1.0 | ng/l | Quarterly |
| Chlormethane | ND | ND | ND | ND | ug/l | Quarterly |
| Chlorobenzene | ND | ND | ND | ND | ug/l | Quarterly |
| Chlorodane-alpha | ND | | | ND | ng/l | Quarterly |
| Chlorodane-gamma | ND | | | ND | ng/l | Quarterly |
| Chrysene- | ND | ND | ND | ND | ng/l | Quarterly |
| Delta-BHC | ND | ND | ND | ND | ng/l | Quarterly |
| Dibenz (a,h) Anthracene | ND | ND | ND | ND | ng/l | Quarterly |
| Dibenzofuran | | | | | ng/l | Quarterly |
| Dibromochloromethane | ND | ND | ND | 2.7 | ug/l | Quarterly |
| Dibromomethane | | ND | ND | ND | ug/l | Quarterly |
| Dichlorodiflouromethane | | ND | ND | ND | ng/l | Quarterly |
| Dieldrin | ND | ND | ND | ND | ng/l | Quarterly |
| Diethy Pthalatel | 20.0 | 39.0 | 57.0 | 25.7 | ng/l | Quarterly |

| | | | | | | |
|---|---|---|---|---|---|---|
| Dimethyl Phthalate | ND | ND | ND | ND | ng/l | Quarterly |
| Di-n-Butyl Phthalate | 128.0 | 40.0 | 30.0 | 63.9 | ng/l | Quarterly |
| Di-n-Octyl Phthalate- | 10.0 | ND | ND | ND | ng/l | Quarterly |
| Endosulfan I | ND | ND | ND | ND | ng/l | Quarterly |
| Endosulfan II | ND | ND | ND | ND | ng/l | Quarterly |
| Endosulfan Sulfate | ND | ND | ND | ND | ng/l | Quarterly |
| Endrin | ND | ND | ND | ND | ng/l | Quarterly |
| Endrin Aldehyde | ND | ND | ND | ND | ng/l | Quarterly |
| Endrin Ketone | ND | | | | ng/l | Quarterly |
| EPA Method 8290-2,3,7,8 TCDD | | | | | ng/l | Quarterly |
| Ethylbenzene | ND | ND | ND | ND | ug/l | Quarterly |
| Fluoranthene | 3.8 | ND | 4.1 | ND | ng/l | Quarterly |
| Fluorene | ND | ND | 11.1 | ND | ng/l | Quarterly |
| Gamma-BHC | ND | ND | ND | ND | ng/l | Quarterly |
| Heptachlor | ND | ND | ND | ND | ng/l | Quarterly |
| Heptachlor Epoxide | ND | ND | ND | ND | ng/l | Quarterly |
| Hexachloro-1,3 Butadiene | | | | | ng/l | Quarterly |
| Hexachloralbutadiene | ND | ND | ND | | ng/l | Quarterly |
| Hexachlorobenzene | ND | ND | ND | ND | ng/l | Quarterly |
| Hexachlorocyclopentadiene | ND | ND | ND | ND | ng/l | Quarterly |
| Hexachloroethane | ND | ND | ND | ND | ng/l | Quarterly |
| Indeno (1,2,3-c,d) Pyrene | ND | ND | ND | ND | ng/l | Quarterly |
| Isophorone | ND | ND | ND | ND | ng/l | Quarterly |
| Isopropylbenzene | | ND | ND | ND | ug/l | Quarterly |
| Methoxychlor | ND | ND | | | ng/l | Quarterly |
| Methylene chloride | ND | ND | ND | ND | ug/l | Quarterly |
| Methyl-tert-Butyl Ether | ND | ND | ND | ND | ug/l | Quarterly |
| Mirex | ND | ND | | | ng/l | Quarterly |
| Molybdenum | | | | | ng/l | Quarterly |
| Napthalene | 6.5 | ND | 29.4 | ND | ug/l | Quarterly |
| | | | | | | |
| n-Butylbenzene | | ND | ND | | ng/l | Quarterly |
| Nitrobenzene | ND | ND | ND | ND | ug/l | Quarterly |
| N-Nitrosodimethylamine | ND | ND | ND | ND | ng/l | Quarterly |
| N-Nitroso-di-n-prophylamine | ND | ND | ND | ND | ng/l | Quarterly |
| N-Nitrosodiphenylamine | ND | ND | ND | ND | ng/l | Quarterly |
| n-Propylbenzene | | ND | ND | ND | ug/l | Quarterly |
| o-Xylene | ND | ND | ND | ND | ug/l | Quarterly |
| p/m-Xylene | | ND | ND | ND | ng/l | Quarterly |
| Pentachlorophenol | ND | ND | ND | ND | ng/l | Quarterly |
| Perylene | ND | ND | | | ng/l | Quarterly |
| Phenanthrene | ND | ND | 11.7 | ND | ng/l | Quarterly |
| Phenol | ND | ND | ND | ND | ng/l | Quarterly |
| p-Isopropyltoluene | | ND | ND | ND | ug/l | Quarterly |
| Pyrene | 6.4 | ND | 10.1 | ND | ng/l | Quarterly |
| Pyridine | | | | | ng/l | Quarterly |
| sec-Butylbenzene | | ND | ND | ND | ug/l | Quarterly |
| Styrene | | ND | ND | ND | ug/l | Quarterly |
| t-1,2-Dichloroethene | ND | ND | ND | ND | ng/l | Quarterly |
| t-1,3-Dichloropropene | ND | ND | ND | ND | ug/l | Quarterly |
| tert-Butylbenzene | | ND | ND | ND | ng/l | Quarterly |
| Tetrachloroethane | ND | ND | ND | ND | ug/l | Quarterly |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Cyanide | | ND | | ND | mg/l | Quarterly |
| Total Detectable PAHs | 33.7 | 0.0 | | | ng/l | Quarterly |
| Toulene | ND | ND | ND | ND | ng/l | Quarterly |
| Toxaphene | ND | ND | ND | ND | ng/l | Quarterly |
| Trans-nonachlor | ND | ND | | | ng/l | Quarterly |
| Trichloroethene | ND | ND | ND | ND | ug/l | Quarterly |
| Trichlorofluoromethane | ND | ND | ND | ND | ug/l | Quarterly |
| Vinyl Acetate | | ND | ND | ND | ug/l | Quarterly |
| Vinyl Chloride | ND | ND | ND | ND | ug/l | Quarterly |

# *Long Beach Generating Station*
# *NPDES Monitoring Data*
# *2003*

Long Beach Generating Station
NPDES Monitoring Data Sumamry 2003

| 2003 | Long Beach Generation LLC<br>Long Beach Generating Station<br>2003 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Discharge No. 001** | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| **Effluent** | | | | | | | | | | | | |
| pH (Max) | 8.0 | 8.0 | 8.0 | 7.9 | 7.9 | 8.1 | 8.0 | 7.9 | 7.9 | 7.7 | 7.9 | 7.9 |
| pH (Min) | 7.9 | 7.9 | 7.8 | 7.7 | 7.7 | 8.0 | 7.9 | 7.8 | 7.8 | 7.6 | 7.8 | 7.8 |
| Flow (Max) MGD | 89.9 | 72.4 | 131.2 | 71.9 | 131 | 131.1 | 162.7 | 182.1 | 131.4 | 95.6 | 72.5 | 131.5 |
| Flow (Avg) MGD | 67.219 | 61.917 | 68.72 | 60.4467 | 68.2 | 64.343 | 81.17 | 98.093 | 87.347 | 65.017 | 65.967 | 69.67 |
| **Circ. Water Discharge** | | | | | | | | | | | | |
| Temp (Max) °F | 79 | 73 | 70 | 72 | 73 | 72 | 81 | 81 | 72 | 73 | 68 | 77 |
| Temp (Min) °F | 63 | 66 | 68 | 64 | 66 | 66 | 72 | 66 | 68 | 68 | 66 | 63 |
| Heat Treat Temp °F | | | 225 | | | | | | | | | |
| **Chlorine** | | | | | | | | | | | | |
| Total - Avg (mg/l) | 0.15 | 0.04 | 0.12 | 0.05 | 0.10 | 0.16 | 0.12 | 0.15 | 0.08 | 0.08 | 0.06 | 0.05 |
| Total - Max (mg/l) | 0.20 | 0.06 | 0.19 | 0.09 | 0.20 | 0.20 | 0.19 | 0.20 | 0.15 | 0.20 | 0.09 | 0.07 |
| Total - Min (mg/l) | 0.07 | 0.03 | 0.06 | 0.03 | 0.04 | 0.07 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| Free - Avg (mg/l) | 0.12 | 0.04 | 0.09 | 0.06 | 0.10 | 0.15 | 0.10 | 0.13 | 0.07 | 0.06 | 0.06 | 0.05 |
| Free - Max (mg/l) | 0.19 | 0.05 | 0.17 | 0.13 | 0.19 | 0.19 | 0.15 | 0.19 | 0.13 | 0.17 | 0.08 | 0.07 |
| Free - Min (mg/l) | 0.03 | 0.03 | 0.05 | 0.04 | 0.04 | 0.06 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 |

Long Beach Generation LLC
Long Beach Generating Station
2003

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Low Volume Waste** | | | | | | | | | | | | |
| pH (Max) | 7.7 | 7.8 | 7.7 | 7.7 | 7.7 | 7.8 | 8.0 | 7.9 | 7.8 | 7.8 | 7.8 | 8.2 |
| pH (Min) | 7.7 | 7.8 | 7.7 | 7.7 | 7.6 | 7.8 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 8.2 |
| Total Suspended Solids - Max (mg/l) | 2.1 | 16.5 | 6.7 | 23.8 | 13.8 | 24.1 | 29.5 | 13.8 | 7.6 | 10.0 | 8.2 | 11.2 |
| Total Suspended Solids - Avg (mg/l) | 2.0 | 15.3 | 5.5 | 12.3 | 13.7 | 21.8 | 27.1 | 13.3 | 7.5 | 9.7 | 6.1 | 10.3 |
| Oil & Grease-Max (mg/l) | ND | 2.4 | ND | ND | ND | ND | ND | ND | ND | ND | 2.8 | ND |
| Oil & Grease-Min (mg/l) | ND | 1.2 | ND | ND | ND | ND | ND | ND | ND | ND | 0.9 | ND |
| Flow Rate (MGD) | 1.656 | 2.304 | 1.926 | 0.954 | 1.620 | 1.764 | 2.700 | 4.500 | 0.000 | 3.024 | 1.260 | 1.170 |

Long Beach Generating Station - NPDES Monitoring Data Summary 2003

| D) RETENTION BASIN PRIORITY POLLUTANTS | | | | | |
|---|---|---|---|---|---|
| Constituent & Date of Sample | Concentration | | | Units | Frequency of Analysis |
| | 1st Qtr | 2nd Qtr | 3rd Qtr | | |
| Date | 2/5/03 | 5/7/03 | 8/6/03 | | |
| Antimony | 0.032 | 0.21 | 0.11 | ug/l | Quarterly |
| Arsenic | 5.490 | 8.51 | 7.52 | ug/l | Quarterly |
| Barium | | | | ug/l | Quarterly |
| Beryllium | ND | ND | ND | ng/l | Quarterly |
| Cadmium | 0.018 | 0.03 | ND | ug/l | Quarterly |
| Chromium (Total) | ND | 0.85 | 1.56 | ug/l | Quarterly |
| Chromium, Hexavalent | 0.385 | | | ng/l | Quarterly |
| Cobalt | | | | | Quarterly |
| Copper | 1.710 | 1.53 | 2.27 | ug/l | Quarterly |
| Cyanide | ND | | | ug/l | Quarterly |
| Lead | 0.064 | 0.2 | 0.248 | ug/l | Quarterly |
| Mercury | 0.048 | 0.0 | 0.057 | ug/l | Quarterly |
| Nickel | 1.54 | 1.73 | 1.37 | ug/l | Quarterly |
| Selenium | ND | ND | 0.06 | ug/l | Quarterly |
| Silver | ND | ND | ND | ug/l | Quarterly |
| Thallium | ND | ND | ND | ug/l | Quarterly |
| Zinc | 8.91 | 15.9 | 12.00 | ug/l | Quarterly |
| 1,1,1,2-Tetrachlroethane | ND | ND | | ug/l | Quarterly |
| 1,1,1-Trichloroethane | ND | ND | ND | ug/l | Quarterly |
| 1,1,2,2-Tetrachlroethane | ND | ND | ND | ug/l | Quarterly |
| 1,1,2-Trichloroethane | ND | ND | ND | ug/l | Quarterly |
| 1,1-Dichloroethane | ND | ND | ND | ug/l | Quarterly |
| 1,1 Dichloroethylene | ND | | | | |
| 1,1-Dichloropropene | | | | ug/l | Quarterly |
| 1,2,3-Trichlorobenzene | | | | ug/l | Quarterly |
| 1,2,3-Trichloropropane | | | | ug/l | Quarterly |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ug/l | Quarterly |
| 1,2,4-Trimethylbenzene | | | | ug/l | Quarterly |
| 1,2-Dibromoethane | ND | | | ug/l | Quarterly |
| 1,2-Dichlorobenzene-1242 | | | | ug/l | Quarterly |
| 1,2-Dichlorobezene | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dichloroethane | ND | ND | ND | ug/l | Quarterly |
| 1,2-Dichloropropane | ND | ND | ND | ug/l | Quarterly |
| 1,2-Diphenylhydrazine | ND | | | ug/l | Quarterly |
| 1,2-Trans-Dichloroethylene | ND | | | ug/l | Quarterly |
| 1,3-Dichlorobenzene | ND | ND | ND | ug/l | Quarterly |
| 1,3-Dichloropropylene | ND | | | | |
| 1,3,5-Trimethethylbenzene | | | | ug/l | Quarterly |
| 1,3-Dichloropropane | | | | ug/l | Quarterly |
| 1,4-Dichlorobenezene | ND | ND | ND | ug/l | Quarterly |
| 1.2-Dibromo-3-Chloropropane | | | | ng/l | Quarterly |
| 1-Methylnaphthalene | ND | | | ng/l | Quarterly |
| 1-Methyphenanthrene | ND | | | ng/l | Quarterly |
| 2,2-Dichloropropane | | | | ng/l | Quarterly |
| 2,3,5 Trimethylnapthalene | ND | | | ng/l | Quarterly |

| | | | | | |
|---|---|---|---|---|---|
| 2,3,7,8 TCDD | ND | ND | ND | ng/l | Quarterly |
| 2,4,5-Trichlorophenol | | | | ng/l | Quarterly |
| 2,4,6-Trichlorophenol | ND | ND | ND | ng/l | Quarterly |
| 2,4'-DDD | | | ND | ng/l | Quarterly |
| 2,4'-DDE | ND | ND | ND | ng/l | Quarterly |
| 2,4'-DDT | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dichlorophenol | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dimethylphenol | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dinitrophenol | ND | ND | ND | ng/l | Quarterly |
| 2,4-Dinitrotoulene | ND | ND | ND | ng/l | Quarterly |
| 2,6 Dimethnapthalene | ND | | | ng/l | Quarterly |
| 2,6-Dinitrotoulene | ND | ND | ND | ng/l | Quarterly |
| 2.4'-DDD | ND | ND | | ng/l | Quarterly |
| 2-Butanone | | | | ug/l | Quarterly |
| 2-Chlorethane | | | | ng/l | Quarterly |
| 2-Chloroethyl Vinyl Ether | ND | ND | ND | ng/l | Quarterly |
| 2-Chloronapthalene | ND | ND | ND | ng/l | Quarterly |
| 2-Chlorophenol | ND | ND | ND | ug/l | Quarterly |
| 2-Chlorotoluene | | | | ug/l | Quarterly |
| 2-Hexanone | | | | ug/l | Quarterly |
| 2-methyl-4,6 dinitrophenol | ND | ND | ND | ng/l | Quarterly |
| 2-Methylnaphtalene | ND | | | ng/l | Quarterly |
| 2-Methylphenol | | | | ng/l | Quarterly |
| 2-Nitroaniline | | | | ng/l | Quarterly |
| 2-Nitrophenol | ND | ND | ND | ng/l | Quarterly |
| 3,3'-Dichlorobenzidine | ND | ND | ND | ng/l | Quarterly |
| 3,4-Methylphenol | | | | ng/l | Quarterly |
| 3-Methyl-4-Chlorophenol | ND | | | ng/l | Quarterly |
| 3-Nitroaniline | | | | ng/l | Quarterly |
| 4,4'-DDD | ND | ND | ND | ng/l | Quarterly |
| 4,4'-DDE | ND | ND | ND | ng/l | Quarterly |
| 4,4'DDT | ND | ND | ND | ng/l | Quarterly |
| 4,6-Dinitiro-2-Methylphenol | | | | ng/l | Quarterly |
| 4-Bromophenyl-Phenyl Ether | ND | ND | ND | ng/l | Quarterly |
| 4-Chlorethane | | | | ng/l | Quarterly |
| 4-Chloro-3-Methylphenol | | ND | ND | ng/l | Quarterly |
| 4-Chlorooaniline | | | | ng/l | Quarterly |
| 4-Chlorophenyl-Phenyl Ether | ND | ND | ND | ng/l | Quarterly |
| 4-Chlorotoluene | | | | ug/l | Quarterly |
| 4-Methyl-2-Pentanone | | | | ug/l | Quarterly |
| 4-Nitroaniline | | | | ng/l | Quarterly |
| 4-Nitrophenol | ND | ND | ND | ng/l | Quarterly |
| Acenaphthene | ND | ND | ND | ug/l | Quarterly |
| Acenaphthylene | ND | ND | ND | ng/l | Quarterly |
| Acetone | | | | ug/l | Quarterly |
| Acrolein | ND | ND | ND | ng/l | Quarterly |
| Acrylonitrile | ND | ND | ND | ng/l | Quarterly |
| Aldrin | ND | ND | | ng/l | Quarterly |
| Alpha-BHC | ND | ND | ND | ng/l | Quarterly |
| Alpha-Endosulfan | ND | | | ng/l | Quarterly |
| Analine | | | | ng/l | Quarterly |
| Anthracene | ND | ND | ND | ng/l | Quarterly |
| Arcotor 1248 | ND | ND | ND | ng/l | Quarterly |
| Arcotor 1254 | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1016 | ND | ND | ND | ng/l | Quarterly |

| | | | | | |
|---|---|---|---|---|---|
| Aroctor-1221 | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1232 | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1242 | ND | ND, | ND | ng/l | Quarterly |
| Aroctor-1260 | ND | ND | ND | ng/l | Quarterly |
| Aroctor-1262 | | | | ng/l | Quarterly |
| Azobenzene | | | | ng/l | Quarterly |
| Benzene | ND | ND | ND | ug/l | Quarterly |
| Benzidine | ND | ND | ND | ng/l | Quarterly |
| Benzo (a) Anthracene | ND | ND | ND | ng/l | Quarterly |
| Benzo (a) Pyrene | ND | ND | ND | ng/l | Quarterly |
| Benzo (b) Fluoranthene | ND | ND | ND | ng/l | Quarterly |
| Benzo (e) Pyrene | ND | ND | ND | ng/l | Quarterly |
| Benzo (g,h,i) Perylene | ND | ND | ND | ng/l | Quarterly |
| Benzo (k) Fluoranthene | ND | ND | ND | ng/l | Quarterly |
| Benzo (k) Pyrene | | | | ng/l | Quarterly |
| Benzolelpyrene | | | | ng/l | Quarterly |
| Benzonic Acid | | | | ng/l | Quarterly |
| Benzyl Alchol | | | | ng/l | Quarterly |
| Beta-BHC | ND | ND | ND | ng/l | Quarterly |
| Beta-Endosulfan | ND | | | ng/l | Quarterly |
| Biphenyl | ND | | | ng/l | Quarterly |
| Bis (2-Ethylhexy) Phthalate | 0.1 | ND | 80.4 | ng/l | Quarterly |
| Bis(2-Chloroethyl) Ether | ND | ND | ND | ng/l | Quarterly |
| Bis(2-Chloroisopropyl) Ether | ND | ND | ND | ng/l | Quarterly |
| Bis(2-Ethylhexy) Phthalate | | 302.0 | | ng/l | Quarterly |
| bisbenzyl phthalate | | | | ng/l | Quarterly |
| Bis(-Chloroethoxy) Methane | | ND | ND | ng/l | Quarterly |
| Bromobenzene | | | | ug/l | Quarterly |
| Bromochloromethane | | | | ug/l | Quarterly |
| Bromodichloromethane | 1.8 | ND | 1.5 | ug/l | Quarterly |
| Bromoform | 1.5 | ND | ND | ug/l | Quarterly |
| Bromomethane | ND | ND | ND | ng/l | Quarterly |
| Butyl-Benzyl Phthalate | 0.0 | 42.0 | ND | ug/l | Quarterly |
| c-1,2-Dichloroethane | ND | | ND | ug/l | Quarterly |
| c-1,3-Dichloropropene | ND | ND | ND | ug/l | Quarterly |
| C-Xylene | | | | ug/l | Quarterly |
| Carbon disulfide | | | | ng/l | Quarterly |
| Carbon Tetrachloride | ND | ND | ND | ng/l | Quarterly |
| Chlordane | ND | | | ng/l | Quarterly |
| Chlordane-alpha | ND | ND | ND | ng/l | Quarterly |
| Chlorodane-gamma | ND | ND | ND | ng/l | Quarterly |
| Chlorethane | ND | ND | ND | ng/l | Quarterly |
| Chlorform | ND | ND | ND | ng/l | Quarterly |
| Chlormethane | | ND | ND | ug/l | Quarterly |
| Chlorobenzene | ND | ND | ND | ug/l | Quarterly |
| Chlorodibromo methane | 2.7 | | | ug/l | Quarterly |
| Chrysene- | ND | ND | ND | ng/l | Quarterly |
| Cyanide | | | 0.012 | ng/l | Quarterly |
| Delta-BHC | ND | ND | ND | ng/l | Quarterly |
| Dibenz (a,h) Anthracene | ND | ND | ND | ng/l | Quarterly |
| Dibenzofuran | | | | ng/l | Quarterly |
| Dibromochloromethane | | ND | ND | ug/l | Quarterly |
| Dibromomethane | 2.7 | | | ug/l | Quarterly |
| Dichlorobromo-methane | 2.7 | | | ug/l | Quarterly |
| Dichlorodiflouromethane | | | ND | ng/l | Quarterly |

| | | | | | |
|---|---|---|---|---|---|
| Dieldrin | ND | ND | ND | ng/l | Quarterly |
| Diethy Phthalate | ND | ND | ND | ng/l | Quarterly |
| Dimethyl Phthalate | 0.0 | ND | ND | ng/l | Quarterly |
| Di-n-Butyl Phthalate | 0.022 | 42.3 | ND | ng/l | Quarterly |
| Di-n-Octyl Phthalate- | ND | ND | ND | ng/l | Quarterly |
| Endosulfan I | ND | ND | ND | ng/l | Quarterly |
| Endosulfan II | ND | ND | ND | ng/l | Quarterly |
| Endosulfan Sulfate | ND | ND | ND | ng/l | Quarterly |
| Endrin | ND | ND | ND | ng/l | Quarterly |
| Endrin Aldehyde | ND | ND | ND | ng/l | Quarterly |
| Endrin Ketone | | | | ng/l | Quarterly |
| EPA Method 8290-2,3,7,8 TCDD | ND | | | ng/l | Quarterly |
| Ethylbenzene | ND | ND | 9.3 | ug/l | Quarterly |
| Fluoranthene | ND | ND | ND | ng/l | Quarterly |
| Fluorene | ND | ND | | ng/l | Quarterly |
| Gamma-BHC | ND | ND | ND | ng/l | Quarterly |
| Heptachlor | ND | ND | ND | ng/l | Quarterly |
| Heptachlor Epoxide | ND | ND | ND | ng/l | Quarterly |
| Hexachloro-1,3 Butadiene | | | | ng/l | Quarterly |
| Hexachloralbutadiene | ND | ND | ND | ng/l | Quarterly |
| Hexachlorobenzene | ND | ND | ND | ng/l | Quarterly |
| Hexachlorocyclopentadiene | ND | ND | ND | ng/l | Quarterly |
| Hexachloroethane | ND | ND | ND | ng/l | Quarterly |
| Indeno (1,2,3-c,d) Pyrene | ND | ND | ND | ng/l | Quarterly |
| Isophorone | ND | ND | ND | ng/l | Quarterly |
| Isopropylbenzene | | | | ug/l | Quarterly |
| Methoxychlor | ND | ND | | ng/l | Quarterly |
| Methylene chloride | ND | ND | ND | ug/l | Quarterly |
| Methyl Bromide | ND | | | ug/l | Quarterly |
| Methyl-tert-Butyl Ether | | | ND | ug/l | Quarterly |
| Mirex | ND | ND | | ng/l | Quarterly |
| Molybdenum | | | | ng/l | Quarterly |
| Napthalene | ND | ND | ND | ug/l | Quarterly |
| n-Butylbenzene | | | | ng/l | Quarterly |
| Nitrobenzene | ND | ND | ND | ug/l | Quarterly |
| N-Nitrosodimethylamine | ND | ND | ND | ng/l | Quarterly |
| N-Nitroso-di-n-prophylamine | ND | ND | ND | ng/l | Quarterly |
| N-Nitrosodiphenylamine | ND | ND | ND | ng/l | Quarterly |
| n-Propylbenzene | | | | ug/l | Quarterly |
| o-Xylene | ND | | | ug/l | Quarterly |
| p/m-Xylene | ND | | | ng/l | Quarterly |
| Pentachlorophenol | ND | ND | ND | ng/l | Quarterly |
| Perylene | ND | | | ng/l | Quarterly |
| Phenanthrene | ND | ND | ND | ng/l | Quarterly |
| Phenol | ND | ND | ND | ng/l | Quarterly |
| p-Isopropyltoluene | | | | ug/l | Quarterly |
| Pyrene | ND | ND | ND | ng/l | Quarterly |
| Pyridine | | | | ng/l | Quarterly |
| sec-Butylbenzene | | | | ug/l | Quarterly |
| Styrene | | | | ug/l | Quarterly |
| t-1,2-Dichloroethene | ND | ND | ND | ng/l | Quarterly |
| t-1,3-Dichloropropene | ND | ND | | ug/l | Quarterly |
| tert-Butylbenzene | | | | ng/l | Quarterly |
| Tetrachloroethane | ND | ND | ND | ug/l | Quarterly |
| Total Cyanide | | ND | | mg/l | Quarterly |

| | | | | | |
|---|---|---|---|---|---|
| Total Detectable PAHs | | 0.0 | | ng/l | Quarterly |
| Toulene | ND | ND | ND | ng/l | Quarterly |
| Toxaphene | ND | ND | ND | ng/l | Quarterly |
| Trans-nonachlor | ND | ND | | ng/l | Quarterly |
| Trichloroethene | ND | ND | ND | ug/l | Quarterly |
| Trichlorofluoromethane | | | ND | ug/l | Quarterly |
| Vinyl Acetate | | | | ug/l | Quarterly |
| Vinyl Chloride | ND | ND | ND | ug/l | Quarterly |
| Xylenes | | ND | ND | ug/l | Quarterly |

# *Long Beach Generating Station*
# *NPDES Monitoring Data*
# *2004*

Long Beach Generating Station
NPDES Monitoring Data Summary 2004

# 2004

Long Beach Generation LLC
Long Beach Generating Station
2004

| Discharge No. 001 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Effluent** | | | | | | | | | | | | |
| pH (Max) | 8.0 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 | 8.1 |
| pH (Min) | 7.8 | 7.8 | 7.8 | 7.8 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.8 | 7.9 |
| Flow (Max) MGD | 131.4 | 133.0 | 132.5 | 131.3 | 88.8 | 109.0 | 191.2 | 190.6 | 190.7 | 167.3 | 107.9 | 140.0 |
| Flow (Avg) MGD | 68.1 | 63.8 | 90.7 | 67.1 | 62.7 | 75.0 | 108.5 | 82.3 | 96.6 | 86.2 | 76.5 | 78.7 |
| **Circ. Water Discharge** | | | | | | | | | | | | |
| Temp (Max) °F | 70 | 61 | 76 | 88 | 73 | 67 | 79 | 80 | 96 | 78 | 86 | 82 |
| Temp (Min) °F | 57 | 57 | 58 | 58 | 62 | 83 | 60 | 64 | 67 | 62 | 61 | 57 |
| Heat Treat Temp °F | | | | | | | | | | | | |
| **Chlorine** | | | | | | | | | | | | |
| Total - Avg (mg/l) | 0.04 | 0.05 | 0.11 | 0.11 | 0.08 | 0.12 | 0.11 | 0.05 | 0.08 | 0.05 | 0.07 | 0.05 |
| Total - Max (mg/l) | 0.05 | 0.07 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.07 | 0.20 | 0.09 | 0.18 | 0.08 |
| Total - Min (mg/l) | 0.03 | 0.04 | 0.03 | 0.04 | 0.03 | 0.05 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Free - Avg (mg/l) | 0.04 | 0.04 | 0.11 | 0.10 | 0.06 | 0.10 | 0.07 | 0.04 | 0.07 | 0.04 | 0.06 | 0.04 |
| Free - Max (mg/l) | 0.05 | 0.06 | 0.18 | 0.18 | 0.15 | 0.18 | 0.13 | 0.07 | 0.16 | 0.05 | 0.16 | 0.07 |
| Free - Min (mg/l) | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |

Long Beach Generation LLC
Long Beach Generating Station
2004

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Low Volume Waste** | | | | | | | | | | | | |
| pH (Max) | 7.7 | 7.7 | 7.8 | 7.8 | 7.7 | 7.9 | 7.7 | 8.2 | 7.9 | 7.9 | 7.9 | 8.2 |
| pH (Min) | 7.7 | 7.5 | 7.8 | 7.8 | 7.6 | 7.9 | 7.7 | 7.8 | 7.9 | 7.9 | 7.7 | 8.1 |
| Total Suspended Solids - Max (lb/Day) | 1.6 | 29.3 | 8.7 | 14.3 | 12.9 | 14.2 | 11.5 | 13.7 | 3.4 | 27.9 | 3.2 | 70.2 |
| Total Suspended Solids - Avg (lb/Day) | 1.5 | 27.7 | 8.0 | 12.1 | 7.5 | 14.1 | 10.7 | 12.0 | 3.2 | 24.8 | 3.2 | 36.4 |
| Oil & Grease-Max (lb/day) | ND | 4.0 | ND | ND | ND | 2.7 | 2.3 | ND | ND | ND | ND | ND |
| Oil & Grease-Min (lb/day) | ND | ND | ND | ND | ND | 2.3 | ND | ND | ND | ND | ND | ND |
| Flow Rate (MGD) | 1.278 | 2.718 | 0.936 | 1.602 | 0.990 | 2.340 | 1.980 | 1.224 | 1.440 | 3.474 | 2.196 | 4.842 |

Long Beach Generating Station - NPDES Monitoring Data Summary 2004

| F) RETENTION BASIN PRIORITY POLLUTANTS | | | |
|---|---|---|---|
| Constituent & Date of Sample | Concentration | Units | Frequency of Analysis |
| | 1st Qtr | | |
| Date | 8/10/04 | | |
| Antimony | ND | ug/l | Quarterly |
| Arsenic | 4.55 | ug/l | Quarterly |
| Barium | | ug/l | Quarterly |
| Beryllium | ND | ng/l | Quarterly |
| Cadmium | 0.05 | ug/l | Quarterly |
| Chromium (Total) | 1.01 | ug/l | Quarterly |
| Chromium, Hexavalent | | ng/l | Quarterly |
| Cobalt | | | Quarterly |
| Copper | 24 | ug/l | Quarterly |
| Cyanide | | ug/l | Quarterly |
| Lead | 2.38 | ug/l | Quarterly |
| Mercury | 0.012 | ug/l | Quarterly |
| Nickel | 0.28 | ug/l | Quarterly |
| Selenium | 0.088 | ug/l | Quarterly |
| Silver | ND | ug/l | Quarterly |
| Thallium | ND | ug/l | Quarterly |
| Zinc | 14.4 | ug/l | Quarterly |
| 1,1,1,2-Tetrachlroethane | ND | ug/l | Quarterly |
| 1,1,1-Trichloroethane | ND | ug/l | Quarterly |
| 1,1,1-Trichlormoethane | ND | ug/l | Quarterly |
| 1,1,2-Trichloroethane | ND | ug/l | Quarterly |
| 1,1-Dichloroethane | ND | ug/l | Quarterly |
| 1,1 Dichloroethylene | | | |
| 1,1-Dichloropropene | | ug/l | Quarterly |
| 1,2,3-Trichlorobenzene | | ug/l | Quarterly |
| 1,2,3-Trichloropropane | | ug/l | Quarterly |
| 1,2,4-Trichlorobenzene | ND | ug/l | Quarterly |
| 1,2,4-Trimethylbenzene | | ug/l | Quarterly |
| 1,2-Dibromoethane | | ug/l | Quarterly |
| 1,2-Dichlorobenzene-1242 | | ug/l | Quarterly |
| 1,2-Dichlorobezene | ND | ug/l | Quarterly |
| 1,2-Dichloroethane | ND | ug/l | Quarterly |
| 1,2-Dichloropropane | ND | ug/l | Quarterly |
| 1,2-Diphenylhydrazine | ND | ug/l | Quarterly |
| 1,2-Trans-Dichloroethylene | ND | ug/l | Quarterly |
| 1,3-Dichlorobenzene | ND | ug/l | Quarterly |
| 1,3-Dichloropropylene | | | |
| 1,3,5-Trimethethylbenzene | | ug/l | Quarterly |
| 1,3-Dichloropropane | | ug/l | Quarterly |
| 1,4-Dichlorobenezene | ND | ug/l | Quarterly |
| 1.2-Dibromo-3-Chloropropane | | ng/l | Quarterly |
| 1-Methylnaphthalene | | ng/l | Quarterly |
| 1-Methyphenanthrene | | ng/l | Quarterly |
| 2,2-Dichloropropane | | ng/l | Quarterly |
| 2,3,5 Trimethylnapthalene | | ng/l | Quarterly |
| 2,3,7,8 TCDD | ND | ng/l | Quarterly |
| 2,4,5-Trichlorophenol | | ng/l | Quarterly |
| 2,4,6-Trichlorophenol | ND | ng/l | Quarterly |
| 2,4'-DDD | ND | ng/l | Quarterly |
| 2,4'-DDE | ND | ng/l | Quarterly |
| 2,4'-DDT | ND | ng/l | Quarterly |
| 2,4-Dichlorophenol | ND | ng/l | Quarterly |
| 2,4-Dimethylphenol | ND | ng/l | Quarterly |
| 2,4-Dinitrophenol | ND | ng/l | Quarterly |

| F) RETENTION BASIN PRIORITY POLLUTANTS | | | |
|---|---|---|---|
| Constituent & Date of Sample | Concentration | Units | Frequency of Analysis |
| 2,4-Dinitrotoulene | ND | ng/l | Quarterly |
| 2,6 Dimethnapthalene | | ng/l | Quarterly |
| 2,6-Dinitrotoulene | ND | ng/l | Quarterly |
| 2,4'-DDD | | ng/l | Quarterly |
| 2-Butanone | | ug/l | Quarterly |
| 2-Chlorethane | | ng/l | Quarterly |
| 2-Chloroethyl Vinyl Ether | ND | ng/l | Quarterly |
| 2-Chloronapthalene | ND | ng/l | Quarterly |
| 2-Chlorophenol | ND | ug/l | Quarterly |
| 2-Chlorotoluene | | ug/l | Quarterly |
| 2-Hexanone | | ug/l | Quarterly |
| 2-methyl-4,6 dinitrophenol | ND | ng/l | Quarterly |
| 2-Methylnaphtalene | | ng/l | Quarterly |
| 2-Methylphenol | | ng/l | Quarterly |
| 2-Nitroaniline | | ng/l | Quarterly |
| 2-Nitrophenol | ND | ng/l | Quarterly |
| 3,3'-Dichlorobenzidine | ND | ng/l | Quarterly |
| 3,4-Methylphenol | | ng/l | Quarterly |
| 3-Methyl-4-Chlorophenol | | ng/l | Quarterly |
| 3-Nitroaniline | | ng/l | Quarterly |
| 4,4'-DDD | ND | ng/l | Quarterly |
| 4,4'-DDE | ND | ng/l | Quarterly |
| 4,4'DDT | ND | ng/l | Quarterly |
| 4,6-Dinitiro-2-Methylphenol | | ng/l | Quarterly |
| 4-Bromophenyl-Phenyl Ether | ND | ng/l | Quarterly |
| 4-Chlorethane | | ng/l | Quarterly |
| 4-Chloro-3-Methylphenol | ND | ng/l | Quarterly |
| 4-Chlorooaniline | | ng/l | Quarterly |
| 4-Chlorophenyl-Phenyl Ether | ND | ng/l | Quarterly |
| 4-Chlorotoluene | | ug/l | Quarterly |
| 4-Methyl-2-Pentanone | | ug/l | Quarterly |
| 4-Nitroaniline | | ng/l | Quarterly |
| 4-Nitrophenol | ND | ng/l | Quarterly |
| Acenaphthene | ND | ug/l | Quarterly |
| Acenaphthylene | ND | ng/l | Quarterly |
| Acetone | | ug/l | Quarterly |
| Acrolein | ND | ng/l | Quarterly |
| Acrylonitrile | ND | ng/l | Quarterly |
| Aldrin | ND | ng/l | Quarterly |
| Alpha-BHC | ND | ng/l | Quarterly |
| Alpha-Endosulfan | | ng/l | Quarterly |
| Analine | | ng/l | Quarterly |
| Anthracene | ND | ng/l | Quarterly |
| Arcotor 1248 | ND | ng/l | Quarterly |
| Arcotor 1254 | ND | ng/l | Quarterly |
| Aroctor-1016 | ND | ng/l | Quarterly |
| Aroctor-1221 | ND | ng/l | Quarterly |
| Aroctor-1232 | ND | ng/l | Quarterly |
| Aroctor-1242 | ND | ng/l | Quarterly |
| Aroctor-1260 | ND | ng/l | Quarterly |
| Aroctor-1262 | | ng/l | Quarterly |
| Azobenzene | | ng/l | Quarterly |
| Benzene | ND | ug/l | Quarterly |
| Benzidine | ND | ng/l | Quarterly |
| Benzo (a) Anthracene | ND | ng/l | Quarterly |
| Benzo (a) Pyrene | ND | ng/l | Quarterly |
| Benzo (b) Fluoranthene | ND | ng/l | Quarterly |
| Benzo (e) Pyrene | ND | ng/l | Quarterly |
| Benzo (g,h,i) Perylene | ND | ng/l | Quarterly |

| F) RETENTION BASIN PRIORITY POLLUTANTS | | | |
|---|---|---|---|
| Constituent & Date of Sample | Concentration | Units | Frequency of Analysis |
| Benzo (k) Fluoranthene | ND | ng/l | Quarterly |
| Benzo (k) Pyrene | | ng/l | Quarterly |
| Benzolelpyrene | | ng/l | Quarterly |
| Benzonic Acid | | ng/l | Quarterly |
| Benzyl Alchol | | ng/l | Quarterly |
| Beta-BHC | ND | ng/l | Quarterly |
| Beta-Endosulfan | | ng/l | Quarterly |
| Biphenyl | | ng/l | Quarterly |
| Bis (2-Ethylhexy) Phthalate | ND | ng/l | Quarterly |
| Bis(2-Chloroethyl) Ether | ND | ng/l | Quarterly |
| Bis(2-Chloroisopropyl) Ether | ND | ng/l | Quarterly |
| Bis(2-Ethylhexy) Phthalate | ND | ng/l | Quarterly |
| bisbenzyl phthalate | ND | ng/l | Quarterly |
| Bis(-Chloroethoxy) Methane | ND | ng/l | Quarterly |
| Bromobenzene | | ug/l | Quarterly |
| Bromochloromethane | 1.7 | ug/l | Quarterly |
| Bromodichloromethane | | ug/l | Quarterly |
| Bromoform | 0.6 | ug/l | Quarterly |
| Bromomethane | ND | ng/l | Quarterly |
| Butyl-Benzyl Phthalate | ND | ug/l | Quarterly |
| c-1,2-Dichloroethane | ND | ug/l | Quarterly |
| c-1,3-Dichloropropene | ND | ug/l | Quarterly |
| C-Xylene | | ug/l | Quarterly |
| Carbon disulfide | | ng/l | Quarterly |
| Carbon Tetrachloride | ND | ng/l | Quarterly |
| Chlordane | ND | ng/l | Quarterly |
| Chlordane-alpha | ND | ng/l | Quarterly |
| Chlorodane-gamma | ND | ng/l | Quarterly |
| Chlorethane | ND | ng/l | Quarterly |
| Chlorform | ND | ng/l | Quarterly |
| Chlormethane | ND | ug/l | Quarterly |
| Chlorobenzene | ND | ug/l | Quarterly |
| Chlorodibromo methane | | ug/l | Quarterly |
| Chrysene- | ND | ng/l | Quarterly |
| Cyanide | ND | ng/l | Quarterly |
| Delta-BHC | ND | ng/l | Quarterly |
| Dibenz (a,h) Anthracene | ND | ng/l | Quarterly |
| Dibenzofuran | | ng/l | Quarterly |
| Dibromochloromethane | ND | ug/l | Quarterly |
| Dibromomethane | | ug/l | Quarterly |
| Dichlorobromo-methane | 1.9 | ug/l | Quarterly |
| Dichlorofluorethane | ND | ng/l | Quarterly |
| Dichlorodiflouromethane | ND | ng/l | Quarterly |
| Dieldrin | ND | ng/l | Quarterly |
| Diethy Phthalate | ND | ng/l | Quarterly |
| Dimethyl Phthalate | ND | ng/l | Quarterly |
| Di-n-Butyl Phthalate | ND | ng/l | Quarterly |
| Di-n-Octyl Phthalate- | ND | ng/l | Quarterly |
| Endosulfan I | ND | ng/l | Quarterly |
| Endosulfan II | ND | ng/l | Quarterly |
| Endosulfan Sulfate | ND | ng/l | Quarterly |
| Endrin | ND | ng/l | Quarterly |
| Endrin Aldehyde | ND | ng/l | Quarterly |
| Endrin Ketone | | ng/l | Quarterly |
| EPA Method 8290-2,3,7,8 TCDD | | ng/l | Quarterly |
| Ethylbenzene | ND | ug/l | Quarterly |
| Fluoranthene | 9.3 | ng/l | Quarterly |
| Fluorene | 5.2 | ng/l | Quarterly |
| Gamma-BHC | ND | ng/l | Quarterly |

| F) RETENTION BASIN PRIORITY POLLUTANTS | | | |
|---|---|---|---|
| Constituent & Date of Sample | Concentration | Units | Frequency of Analysis |
| Heptachlor | ND | ng/l | Quarterly |
| Heptachlor Epoxide | ND | ng/l | Quarterly |
| Hexachloro-1,3 Butadiene | | ng/l | Quarterly |
| Hexachloralbutadiene | ND | ng/l | Quarterly |
| Hexachlorobenzene | ND | ng/l | Quarterly |
| Hexachlorocyclopentadiene | ND | ng/l | Quarterly |
| Hexachloroethane | ND | ng/l | Quarterly |
| Indeno (1,2,3-c,d) Pyrene | ND | ng/l | Quarterly |
| Isophorone | ND | ng/l | Quarterly |
| Isopropylbenzene | | ug/l | Quarterly |
| Methoxychlor | | ng/l | Quarterly |
| Methylene chloride | 0.5 | ug/l | Quarterly |
| Methyl Bromide | ND | ug/l | Quarterly |
| Methyl-tert-Butyl Ether | ND | ug/l | Quarterly |
| Mirex | | ng/l | Quarterly |
| Molybdenum | | ng/l | Quarterly |
| Napthalene | 11.4 | ug/l | Quarterly |
| n-Butylbenzene | | ng/l | Quarterly |
| Nitrobenzene | ND | ug/l | Quarterly |
| N-Nitrosodimethylamine | ND | ng/l | Quarterly |
| N-Nitroso-di-n-prophylamine | ND | ng/l | Quarterly |
| N-Nitrosodiphenylamine | ND | ng/l | Quarterly |
| n-Propylbenzene | | ug/l | Quarterly |
| o-Xylene | | ug/l | Quarterly |
| p/m-Xylene | | ng/l | Quarterly |
| Pentachlorophenol | ND | ng/l | Quarterly |
| Perylene | | ng/l | Quarterly |
| Phenanthrene | 9.5 | ng/l | Quarterly |
| Phenol | ND | ng/l | Quarterly |
| p-Isopropyltoluene | | ug/l | Quarterly |
| Pyrene | ND | ng/l | Quarterly |
| Pyridine | | ng/l | Quarterly |
| sec-Butylbenzene | | ug/l | Quarterly |
| Styrene | | ug/l | Quarterly |
| t-1,2-Dichloroethene | ND | ng/l | Quarterly |
| t-1,3-Dichloropropene | ND | ug/l | Quarterly |
| tert-Butylbenzene | | ng/l | Quarterly |
| Tetrachloroethane | ND | ug/l | Quarterly |
| Total Cyanide | | mg/l | Quarterly |
| Total Detectable PAHs | 0.0 | ng/l | Quarterly |
| Toulene | ND | ng/l | Quarterly |
| Toxaphene | ND | ng/l | Quarterly |
| Trans-nonachlor | | ng/l | Quarterly |
| Trichloroethene | ND | ug/l | Quarterly |
| Trichlorofluoromethane | ND | ug/l | Quarterly |
| Vinyl Acetate | | ug/l | Quarterly |
| Vinyl Chloride | ND | ug/l | Quarterly |
| Xylenes | ND | ug/l | Quarterly |

# *Requested Permit Changes*

# EPA FORM 2C
# ATTACHMENT 3

## Requested Changes to the Permit

Long Beach Generating Station requests the Regional Board change the following findings as defined below to the forthcoming 2006 Order.

Previous Schematic of Water Flow

The existing permit (CA0001171) Figure4, Schematic Diagram of Wastewater Flow details the facility with Generating Units 1-9 in operation. As described in other sections of this application, Generating Units 1-9 were permanently retired effective January 1, 2005. The following list describes equipment that is out of service, and therefore, no longer applicable to the wastewater flow diagram:

- #8 Hotwell Overboard (0.001 MGD)
- #9 Hotwell Overboard (0.001 MGD)
- Boiler Blowdown (0.3 MGD)
- Softener Regeneration (0.05 MGD)
- Chemical Laboratory Drains

Figure 4 in Section 3.0 accurately describes the current operations of the facility.

Request for Alternative Discharge

Long Beach Generation LLC (LBG) permanently retired the existing power generating equipment at the Long Beach Generating Station (LBGS) effective January 1, 2005. LBG notified the California Regional Water Quality Control Board, Los Angeles Region of this change in operating status by letter on January 7, 2005 (See Section 9.0). The January 7, 2005 letter requested modification to the permitted method of wastewater discharge at the facility. The request discussed the characteristics of the normal operating discharge and sample results from grab samples collected from the retention basin where low volume waste streams are accumulated and pumped into the effluent of the once through cooling water system. The comparison of the results from the basin grab sample to existing monthly NPDES discharge limits showed that only copper could potentially exceed the existing NPDES discharge limits of 6.2 µg/L. Ceasing operation of the once-through cooling system would have the beneficial effect of decreasing the volume of water discharged to the Back Channel in the Harbor, and significantly decrease the electrical energy consumption required to power the once-through cooling system pumps, and will eliminate the need for chlorine injection into the once-through

cooling system which will eliminate total residual chorine mass from the effluent. The letter also described the additional beneficial effects associated with the shut down of the system by eliminating the potential for impingement and entrainment of marine organisms.

In preparing this application, LBG performed 24-hour composite sampling from the Intake and Outfall 001 structures in compliance with the EPA NPDES requirements during June 2005. The June 2005 Outfall 001 sampling is representative of the existing operations (See Section 3.0, Figure 4). The Form 2C results for existing operations are presented in Table 1 of this section. The June 2005 sampling of the existing operations and the preparation of this permit renewal application was performed to provide the RWQCB with a complete application for renewal of the NPDES Permit Number CA0001171. However, the existing NPDES permit configuration is not the most desirable utilization of resources considering the current site operations and conditions. LBG is actively participating in discussions with the RWQCB about alternative discharge options.

During discussions between LBG and the RWQCB about alternative discharge methods for groundwater at the site, the RWQCB requested LBG inquire about discharging the low volume waste stream to the sanitary sewer system. The sanitary sewer system on Terminal Island is conveyed through a treatment system operated by the Port of Long Beach on Terminal Island before being directed to the City of Los Angeles Bureau of Sanitation sewer treatment plant. LBG held meetings with the Port of Long Beach engineering department on July 21, 2005, to discuss the possibility of routing the low volume waste stream into the existing sewer connection, and inquired with the City of Los Angeles Bureau of Sanitation about accepting the volume flow and water quality from the site (See Related Correspondence in Section 9.0).

The Port of Long Beach engineering department indicated during the meeting that the sewer piping from the connection point on site to the Terminal Island treatment facility was insufficient to carry the requested flow. The City of Los Angeles Bureau of Sanitation also concurred with that assessment. Letters were recently submitted to the Port of Long Beach and the City of Los Angeles Bureau of Sanitation formally requesting sewer discharge capacity for the LBGS low volume waste. Responses are expected that indicate this option is not feasible based on the verbal discussions.

In April 2005, LBG temporarily shutdown the once-through cooling system for maintenance and repairs (Section 9.0, RWQCB Correspondence dated January 7, 2005). During the temporary shutdown (July 11, 2005 to August 4, 2005), all the low volume wastewater for the retention basin was pumped via an alternate discharge pipe to the Outfall 001 discharge point. This arrangement simulated the proposed alternative discharge that LBGS seeks to have approved by the Regional Water Board. The low volume wastewater, as currently permitted, is comprised of the following waste streams:

- Yard drains (Groundwater seepage and intermittent stormwater)
- Plant No.2 Sumps (Groundwater seepage and leaks from once through cooling water system)
- Plant No. 2 Well Point Dewatering System (Groundwater)
- Tank Farm Well Point Dewatering System (Groundwater and intermittent stormwater)

During the temporary shutdown, LBGS performed 24-hour composite sampling from the alternate discharge from Outfall 001. The alternate discharge sampling performed from July 18 to 19, of 2005, is considered characteristic of the discharge anticipated by the requested changes to the existing permitted discharge (see Figure 5). The Form 2C results for the requested alternate discharge are presented in Attachment B of this section. The results of the analysis show that the proposed discharge characteristics do not exceed any of the existing NPDES Permit limits, or any of the NPDES Form 2C screening limits for industrial discharge.

LBG also evaluated the groundwater well point streams entering into the retention basin for General NPDES permit options. The groundwater well point streams are comprised of groundwater from the LBGS Plant No. 2 well point system and the Pacific Terminals well point and stormwater collection system. LBG groundwater sampling followed the Regional Water Board's adopted permit for Discharges of Groundwater From Construction and Project Dewatering To Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties, Attachment A, Screening Levels For General Permits (General NPDES Permit No. CAG994004, Order No R4-2003-0111). Water sampling was performed on July 22, 2005. The results of the initial and subsequent sampling events are provided in this section as Table 4 Low Volume Waste Stream Sampling Summary Results. The results indicate that, with exception of Total Petroleum Hydrocarbons (TPH) (diesel range only), the constituents in the groundwater are within the General Permit's "Attachment A" screening levels. The Attachment A screening level for TPH is 100 µg/L. TPH as Diesel results ranged from 210 µg/L in the Plant No. 2 well point system to 670 µg/L in the Pacific Terminal discharge.

Due to the identification of TPH as diesel in the low volume wastewater stream, LBG conducted additional sampling and found the TPH as diesel levels to be above the General Permit screening levels at the seawater intake and outfall as well.. . While each of these results may exceed the Groundwater General Permit screening thresholds, they do not exceed any discharge limits contained in the LBGS NPDES Permit No. CA 0001171, Order No. 01-0179. LBG does not have any diesel storage on site that could contribute to the TPH in groundwater or harbor water and is unaware of the source of the TPH.

New Schematic Diagram of Water Flow

Long Beach Generation LLC plans to shutdown the once through cooling system currently in operation at Plant No. 2. The proposed discharge will operate under the new configuration described in Figure 5 to the EPA Form 2C showing the "New Schematic Diagram of Water Flow". The major changes from the existing operations (Section 3.0, Figure 4) to the proposed operations (Section 4.0, Figure 5) will be:

- Delete the Unit 8 & 9 Intake (261 MDG)
- Delete the Unit 8 & 9 Circ. Water Condensers
- Delete the Unit 8 & 9 BCW Heat Exchangers
- Delete the Chlorine Injection

The proposed changes will have beneficial effect of reducing the volume of discharge, reduce the consumption of electrical energy, eliminating the injection of chlorine, and eliminating the potential for impingement and entrainment at the intake structure.

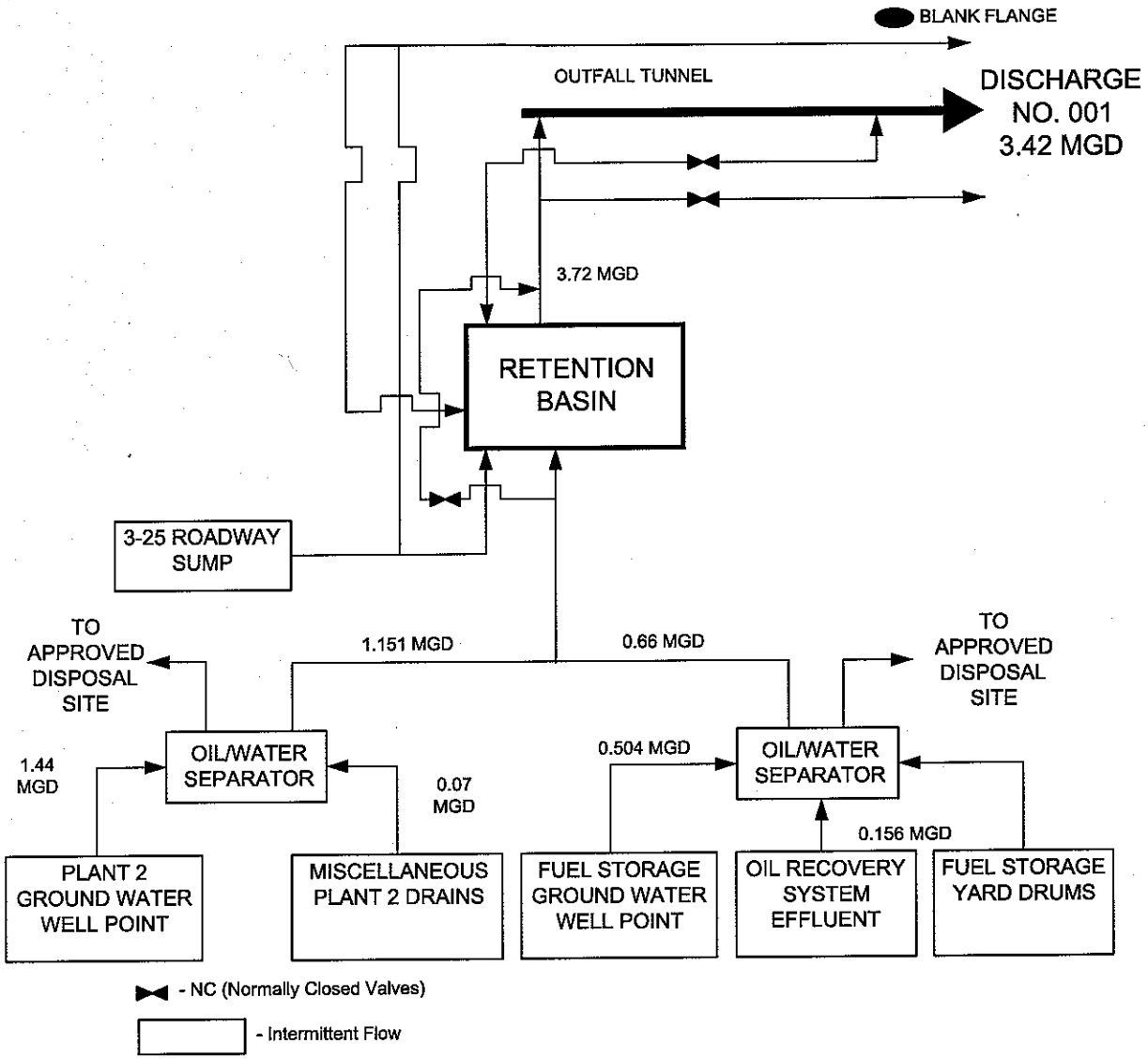


FIGURE-5
NEW SCHEMATIC DIAGRAM OF WATER FLOW
DIRECT DISCHARGE OF LOW VOLUME WASTE STREAMS

# TABLE 3
# DIRECT DISCHARGE LOW VOLUME WASTE STREAM
# LONG BEACH GENERATING STATION
# NPDES PERMIT (CA0001171) RENEWAL APPLICATION (10/12/05)
# EPA NPDES Application Form 2C - Section V, Part A

**EPA ID No. CAR 000 037 705**

| V. Intake and Effluent Characteristics | | | | | | | | | | | | Outfall No. 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part A. | | | | | | | | | | | | |
| Pollutant | Effluent | | | | | | | Units | | Intake | | |
| | Maximum Daily Value | | Maximum 30 Day Value | | Long Term Avrg Value | | No. of Analyses | | | Long Term Avrg Value | | No. of Analyses |
| | Conc | Mass | Conc | Mass | Conc | Mass | | Conc | Mass | Conc | Mass | |
| a. Biochemical Oxygen Demand | 12 | 0.04 | | | | | 1 | mg/L | tons | -- | -- | NA |
| b. Chemical Oxygen Demand | 230 | 0.80 | | | | | 1 | mg/L | tons | -- | -- | NA |
| c. Total Organic Carbon | 22 | 0.08 | | | | | 1 | mg/L | tons | -- | -- | NA |
| d. Total Suspended Solids | 48.4 | 0.17 | | | | | 1 | mg/L | tons | -- | -- | NA |
| e. Ammonia (as N) | 1.9 | 0.01 | | | | | 1 | mg/L | tons | -- | -- | NA |
| f. Flow | Value=0.8 | | | | | | 31 | MGD | | | | 365 |
| g. Temperature (winter) | Intake Value = 14.1 | | Value = 20.3 | | Value = 19.7 | | 90 | Deg - C | | Value = 16.1 | | 90 |
| h. Temperature (summer) | Discharge Value = 17.6 | | Value = 26.1 | | Value = 26 | | 92 | Deg - C | | Value = 22.1 | | 92 |
| i. pH | Min=7.76 | Max=7.93 | Min = NA | Max = NA | N/A | | 9 | Standard Units | | Min=7.56 | Max=7.82 | 9 |

Note:

1) "<" indicates that the pollutant concentration was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this table, the detection limit was utilized as the concentration where the pollutant was not detected. Such substitution should not be used for the purpose of determining compliance with effluent limits.

2) Mass emissions were calculated using the averaged flow recorded during the month of July 2005. (i.e. 0.830903 MGD).

3) Temperature information is based upon daily average temperatures from:
   * Summer - July 1 to September 30, 2004
   * Winter - January 1 to March 31, 2004

# TABLE 3
## DIRECT DISCHARGE LOW VOLUME WASTE STREAM

## LONG BEACH GENERATING STATION
## NPDES PERMIT (CA0001171) RENEWAL APPLICATION (10/12/05)
### EPA NPDES Application Form 2C - Section V, Part B

EPA ID No. CAT 000 037 705

| V. Intake and Effluent Characteristics | | | | | | | | | | | | | | | Outfall No. 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part B. | | | | | | | | | | | | | | | |
| Pollutant | CAS No. | Mark X | | Effluent | | | | | | | Units | | Intake | | |
| | | Believed Present | Believed Absent | Maximum Daily Value | | Maximum 30 Day Value | | Long Term Avrg Value | | No. of Analyses | | | Long Term Avrg Value | | No. of Analyses |
| | | | | Conc | Mass | Conc | Mass | Conc | Mass | | Conc | Mass | Conc | Mass | |
| a. Bromide | 24959-67-9 | X | | 1.03 | 0.33 | | | 1.03 | | 1 | mg/L | tons | -- | -- | NA |
| b. Chlorine, Total Residual | | X | | <0.03 | <0.03 | | | -- | | 9 | mg/L | lbs | -- | -- | NA |
| c. Color | | X | | 40 | N/A | | | 40 | | 1 | color units | N/A | -- | -- | NA |
| d. Fecal Coliform | | X | | 20 | N/A | | | -- | | 9 | MPN/100ml | N/A | -- | -- | NA |
| e. Fluoride | 16984-48-8 | X | | 0.79 | 5.47 | | | 0.79 | | 1 | mg/L | lbs | -- | -- | NA |
| f. Nitrate-Nitrite (as N) | | X | | <1.0 | 6.93 | | | <1 | | 1 | mg/L | lbs | -- | -- | NA |
| g. Nitrogen, Total Organic (as N) | | X | | 3.8 | 26.32 | | | 3.8 | | 1 | mg/L | lbs | -- | -- | NA |
| h. Oil and Grease | | X | | 1.5 | 10.39 | | | -- | | 9 | mg/L | lbs | -- | -- | NA |
| i. Phosphorus, (as P) Total | 7723-14-0 | X | | 0.55 | 3.81 | | | 0.55 | | 1 | mg/L | lbs | -- | -- | NA |
| j(1). Radioactivity: Alpha, Total | | X | | -2 +/- 19 | | | | -2+/-19 | | 1 | pCi/L | | -- | -- | NA |
| j(2). Radioactivity: Beta, Total | | X | | 224 +/- 56 | | | | 224+/-56 | | 1 | pCi/L | | -- | -- | NA |
| j(3). Radioactivity: Radium, Total | | X | | 0.64 +/- 0.18 | | | | 0.64+/-0.18 | | 1 | pCi/L | | -- | -- | NA |
| j(4). Radioactivity: Radium 226, Total | | X | | 0.10 +/0.18 | | | | 0.10+/0.18 | | 1 | pCi/L | | -- | -- | NA |
| k. Sulfate (SO4) | 14808-79-8 | X | | 1480 | 468.72 | | | 1480 | | 1 | mg/L | tons | -- | -- | NA |
| l. Sulfide (as S) | | X | | <0.02 | 0.14 | | | <0.02 | | 1 | mg/L | lbs | -- | -- | NA |
| m. Sulfite (as SO3) | 14265-45-3 | X | | <1.0 | 6.93 | | | <1 | | 1 | mg/L | lbs | -- | -- | NA |
| n. Surfactants | | X | | 0.23 | 1.59 | | | 0.23 | | 1 | mg/L | lbs | -- | -- | NA |
| o. Aluminum, Total | 7429-90-5 | X | | 9.43 | 5.97 | | | 9.43 | | 1 | ug/L | lbs | -- | -- | NA |
| p. Barium, Total | 7440-39-3 | X | | <0.1 | 0.06 | | | <0.1 | | 1 | ug/L | lbs | -- | -- | NA |
| q. Boron, Total | 7440-42-8 | X | | 5.61 | 1.78 | | | 5.61 | | 1 | mg/L | tons | -- | -- | NA |
| r. Cobalt, Total | 7440-48-4 | X | | <0.005 | 0.00 | | | <0.005 | | 1 | ug/L | lbs | -- | -- | NA |
| s. Iron, Total | 7439-89-6 | X | | 340 | 215.36 | | | 340 | | 1 | ug/L | lbs | -- | -- | NA |
| t. Magnesium, Total | 7439-95-4 | X | | 864 | 273.63 | | | 864 | | 1 | mg/L | tons | -- | -- | NA |
| u. Molybdenum, Total | 7439-98-7 | X | | 3.49 | 2.21 | | | 3.49 | | 1 | ug/L | lbs | -- | -- | NA |
| v. Manganese, Total | 7439-96-5 | X | | 681 | 431.35 | | | 681 | | 1 | ug/L | lbs | -- | -- | NA |
| w. Tin, Total | 7440-31-5 | X | | 0.024 | 0.02 | | | 0.024 | | 1 | ug/L | lbs | -- | -- | NA |
| x. Titanium, Total | 7440-32-6 | X | | 0.73 | 0.46 | | | 0.73 | | 1 | ug/L | lbs | -- | -- | NA |

Note:
1) "<" indicates that the pollutant concentration was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this table, the detection limit was utilized as the concentration where the poilutant was not detected. Such substitution should not be used for the purpose of determining compliance with effluent limits.

2) Mass emissions were calculated using the flow during the actual sampling period (i.e. grab samples - 0.830903 MGD)

**TABLE 3**
**DIRECT DISCHARGE OF LOW VOLUME WASTE STREAM**
**LONG BEACH GENERATING STATION**
**NPDES PERMIT (CA0001171) RENEWAL APPLICATION (10/12/05)**
**EPA NPDES Application Form 2C - Section V, Part C**

EPA ID No. CAR 000 037 705

| V. Intake and Effluent Characteristics | | | | | | | | | | | | | | | | | Outfall No. 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part C. | | | | | | | | | | | | | | | | | |
| Pollutant | CAS No. | Mark X | | | Effluent | | | | | | | | Units | | Intake | | |
| | | Testing Required | Believed Present | Believed Absent | Maximum Daily Value | | Maximum 30 Day Value | | Long Term Avrg Value | | | No. of Analyses | | | Long Term Avrg Value | | No. of Analyses |
| | | | | | Conc | Mass | Conc | Mass | Conc | Mass | Mass Calc | | Conc | Mass | Conc | Mass | |
| **Metals, Cyanide, and Total Phenols** | | | | | | | | | | | | | | | | | |
| Total Antimony | 7440-36-0 | X | | | 0.07 | 0.04 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Arsenic | 7440-38-2 | X | | | 5.12 | 3.24 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Beryllium | 7440-41-7 | X | | | <0.005 | 0.0032 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Cadmium | 7440-43-9 | X | | | 0.053 | 0.03 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Chromium | 7440-47-3 | X | | | 0.255 | 0.16 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Copper | 7440-50-8 | X | | | 2.66 | 1.68 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Lead | 7439-92-1 | X | | | 0.197 | 0.12 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Mercury | 7439-97-6 | X | | | 0.00868 | 0.01 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Nickel | 7440-02-0 | X | | | 0.73 | 0.46 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Selenium | 7782-49-2 | X | | | <0.01 | 0.01 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Silver | 7440-22-4 | X | | | <0.005 | 0.0032 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Thallium | 7440-28-0 | X | | | <0.005 | 0.0032 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Zinc | 7440-66-6 | X | | | 11.7 | 7.41 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| Total Cyanide | 57-12-5 | X | | | -- | -- | | | | | | 9 | ug/l | lbs | -- | -- | NA |
| Total Phenols | | X | | | -- | -- | | | | | | 9 | ug/l | lbs | -- | -- | NA |
| **Dioxin** | | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenso-P-Dioxin | 1746-01-6 | | | X | <2.5 | -- | | | | | | | pg/l | lbs | -- | -- | NA |
| | | | | | | | | | | | | | | | | | |
| **GS/MS Fraction - Volatile Compounds** | | | | | | | | | | | | | | | | | |
| 1V acrolein | 107-02-8 | X | | | <12 | 7.60 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 2V acrylonitrile | 107-13-1 | X | | | <10 | 6.33 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 3V benzene | 71-43-2 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 4V bis (Chloromethyl) Ether | 542-88-1 | N/A* | | | <1.0 | 0.63 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 5V bromoform | 75-25-2 | X | | | 0.72 | 0.46 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 6V carbon tetrachloride | 56-23-5 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 7V chlorobenzene | 108-90-7 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 8V chlorodibromomethane | 124-48-1 | X | | | <0.4 | 0.25 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 9V chloroethane | 75-00-3 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 10V 2-chloroethylvinyl ether | 110-75-8 | X | | | <2.0 | 1.27 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 11V chloroform | 67-66-3 | X | | | 0.71 | 0.45 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 12V dichlorobromomethane | 75-27-4 | X | | | 0.46 | 0.29 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 13V dichlorodifluoromethane | 75-71-8 | N/A* | | | <0.4 | 0.25 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 14V 1,1-dichloroethane | 75-34-3 | X | | | <0.2 | 0.13 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 15V 1,2-dichloroethane | 107-06-2 | X | | | <0.4 | 0.25 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 16V 1,1-dichloroethylene | 75-35-4 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 17V 1,2-dichloropropane | 78-87-5 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 18V 1,3-dichloropropylene | 542-75-6 | X | | | <0.5 | 0.32 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 19V ethylbenzene | 100-41-4 | X | | | <0.2 | 0.13 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 20V methyl bromide | 74-83-9 | X | | | <1.0 | 0.63 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 21V methyl chloride | 74-87-3 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 22V methylene chloride | 75-09-2 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 23V 1,1,2,2-tetrachloroethane | 79-34-5 | X | | | <0.4 | 0.25 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 24V tetrachloroethylene | 127-18-4 | X | | | <0.4 | 0.25 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 25V toluene | 108-88-3 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 26V 1,2-trans-dichloroethylene | 156-60-5 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 27V 1,1,1-trichloroethane | 71-55-6 | X | | | <0.2 | 0.13 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 28V 1,1,2-trichloroethane | 79-00-5 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 29V trichloroethylene | 79-01-6 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 30V trichlorofluoromethane | 75-69-4 | N/A* | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 31V vinyl chloride | 75-01-4 | X | | | <0.3 | 0.19 | | | | | | 5 | ug/l | lbs | -- | -- | NA |
| 32V tributyltin (Note 3) | | X | | | -- | -- | | | | | | 0 | ug/l | lbs | -- | -- | NA |
| | | | | | | | | | | | | | | | | | |
| **GS/MS Fraction - Acid Compounds** | | | | | | | | | | | | | | | | | |
| 1A 2-chlorophenol | 95-57-8 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 2A 2,4-dichlorophenol | 120-83-2 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 3A 2,4-dimethylphenol | 105-67-9 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 4A 4,6-dinitro-o-cresol | 534-52-1 | X | | | <10 | 6.33 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 5A 2,4-dinitrophenol | 51-28-5 | X | | | <15 | 9.50 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 6A 2-nitrophenol | 88-75-5 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 7A 4-nitrophenol | 100-02-7 | X | | | <10 | 6.33 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 8A p-chloro-m-cresol | 59-50-7 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |

TABLE 3
DIRECT DISCHARGE OF LOW VOLUME WASTE STREAM
LONG BEACH GENERATING STATION
NPDES PERMIT (CA0001171) RENEWAL APPLICATION (10/12/05)
EPA NPDES Application Form 2C - Section V, Part C

EPA ID No. CAR 000 037 705

| V. Intake and Effluent Characteristics | | | | | | | | | | | | | | | | | Outfall No. 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part C. | | | | | | | | | | | | | | | | | |
| Pollutant | CAS No. | Mark X | | | Effluent | | | | | | | | Units | | Intake | | |
| | | Testing Required | Believed Present | Believed Absent | Maximum Daily Value | | Maximum 30 Day Value | | Long Term Avrg Value | | | No. of Analyses | | | Long Term Avrg Value | | No. of Analyses |
| | | | | | Conc | Mass | Conc | Mass | Conc | Mass | Mass Calc | | Conc | Mass | Conc | Mass | |
| 9A pentachlorophenol | 87-86-5 | X | | | <10 | 6.33 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 10A phenol | 108-95-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 11A 2,4,6-trichlorophenol | 88-06-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| | | | | | | | | | | | | | | | | | |
| GS/MS Fraction - Base/Neutral Compounds | | | | | | | | | | | | | | | | | |
| 1B acenaphthene | 83-32-9 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 2B acenaphthylene | 208-96-8 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 3B anthracene | 120-12-7 | X | | | <10 | 6.33 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 4B benzidine | 92-87-5 | X | | | <13 | 8.23 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 5B benzo(a)anthracene | 56-55-3 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 6B benzo(a)pyrene | 50-32-8 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 7B 3,4-benzofluoranthene | 205-99-2 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 8B benzo(ghi)perylene | 191-24-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 9B benzo(k)fluoranthene | 207-08-9 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 10B bis(2-chloroethoxy)methane | 111-91-1 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 11B bis(2-chloroethyl)ether | 111-44-4 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 12B bis(2-chloroisopropyl)ether | 102-60-1 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 13B bis(2-ethylhexyl)phthalate | 117-81-7 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 14B 4-bromophenyl phenyl ether | 101-55-3 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 15B butylbenzyl phthalate | 85-68-7 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 16B 2-chloronaphthalene | 91-58-7 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 17B 4-chlorophenyl phenyl ether | 7005-72-3 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 18B chrysene | 218-01-9 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 19B dibenzo(a,h)anthracene | 53-70-3 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 20B 1,2-dichlorobenzene | 95-50-1 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 21B 1,3-dichlorobenzene | 541-73-1 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 22B 1,4-dichlorobenzene | 106-46-7 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 23B 3,3-dichlorobenzidine | 91-94-1 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 24B diethyl phthalate | 84-66-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 25B dimethyl phthalate | 131-11-3 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 26B di-n-butyl phthalate | 84-74-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 27B 2,4-dinitrotoluene | 121-14-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 28B 2,6-dinitrotoluene | 606-20-2 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 29B di-n-octyl phthalate | 117-84-0 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 30B 1,2-diphenylhydrazine (as azobenzene) | 122-66-7 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 31B fluoranthene | 206-44-0 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 32B fluorene | 86-73-7 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 33B hexachlorobenzene | 118-74-1 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 34B hexachlorobutadiene | 87-68-3 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 35B hexachlorocyclopentadiene | 77-47-4 | X | | | <6.0 | 3.80 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 36B hexachloroethane | 67-72-1 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 37B indeno(1,2,3-cd)pyrene | 193-39-5 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 38B isophorone | 78-59-1 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 39B naphthalene | 91-20-3 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 40B nitrobenzene | 98-95-3 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 41B N-nitrosodimethylamine | 62-75-9 | X | | | <7.0 | 4.43 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 42B N-nitrosodi-n-propylamine | 621-64-7 | X | | | <4.0 | 2.53 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 43B N-nitrosodiphenylamine | 86-30-6 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 44B phenanthrene | 85-01-8 | X | | | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 45B pyrene | 129-00-0 | X | | | <3.0 | 1.90 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 46B 1,2,4-trichlorobenzene | 120-82-1 | X | | | <5.0 | 3.17 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| | | | | | | | | | | | | | | | | | |
| GS/MS Fraction - Pesticide Compounds | | | | | | | | | | | | | | | | | |
| 1P aldrin | 309-00-2 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 2P alpha-BHC | 319-84-6 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 3P beta-BHC | 319-85-7 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 4P gamma-BHC | 58-89-9 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 5P delta-BHC | 319-86-8 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 6P chlordane | 57-74-9 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 7P 4,4-DDT | 50-29-3 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 8P 4,4-DDE | 72-55-9 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 9P 4,4-DDD | 72-54-8 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |

**TABLE 3**
**DIRECT DISCHARGE OF LOW VOLUME WASTE STREAM**
**LONG BEACH GENERATING STATION**
**NPDES PERMIT (CA0001171) RENEWAL APPLICATION (10/12/05)**
**EPA NPDES Application Form 2C - Section V, Part C**

EPA ID No. CAR 000 037 705

| V. Intake and Effluent Characteristics | | | | | | | | | | | | | | | | | Outfall No. 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part C. | | | | | | | | | | | | | | | | | |
| Pollutant | CAS No. | Mark X | | | Effluent | | | | | | | | Units | | Intake | | |
| | | Testing Required | Believed Present | Believed Absent | Maximum Daily Value | | Maximum 30 Day Value | | Long Term Avrg Value | | | No. of Analyses | | | Long Term Avrg Value | | No. of Analyses |
| | | | | | Conc | Mass | Conc | Mass | Conc | Mass | Mass Calc | | Conc | Mass | Conc | Mass | |
| 10P dieldrin | 60-57-1 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 11P alpha-endosulfan | 115-29-7 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 12P beta-endosulfan | 115-29-7 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 13P endosulfan sulfate | 1031-07-8 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 14P endrin | 72-20-8 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 15P endrin aldehyde | 7421-93-4 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 16P heptachlor | 76-44-8 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 17P heptachlor epoxide | 1024-57-3 | | | X | <0.10 | 0.06 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 18P PCB-1242 | 53469-21-9 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 19P PCB-1254 | 11097-69-1 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 20P PCB-1221 | 11104-28-2 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 21P PCB-1232 | 11141-16-5 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 22P PCB-1248 | 12672-29-6 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 23P PCB-1260 | 11096-82-5 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 24P PCB-1016 | 12674-11-2 | | | X | <1.0 | 0.63 | | | | | | 1 | ug/l | lbs | -- | -- | NA |
| 25P toxaphene | 8001-35-2 | | | X | <2.0 | 1.27 | | | | | | 1 | ug/l | lbs | -- | -- | NA |

N/A* - This pollutant has been deleted from Table II in 40 CFR 122.21, therefore testing is not required.

1) "<" indicates that the pollutant concentration was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this table, the detection limit was utilized as the concentration where the pollutant was not detected. Such substitution should not be used for the purpose of determining compliance with effluent limits.

2) Mass emissions were calculated using the flow during the actual sampling period:
   * grab samples - 0.830903 MGD

3) This chemical is being tested for per Table B of the 2001 California Ocean Plan.

# Table 4

## Low Volume Waste Stream Sampling Summary
## General NPDES Permit CAG994004
## Attachment A Screening Limits
## Long Beach Generating Station

| | Units | NPDES General Permit Attachment A | Retention Basin | Plant 2 Wellpoint System | Tank Farm Wellpoint System | Plant 2 Wellpoint System | Plant 2 After Treatment | Tank Farm Wellpoint System |
|---|---|---|---|---|---|---|---|---|
| | Conc | | 07/22/2005 8:10 | 07/22/2005 7:55 | 07/22/2005 7:15 | 09/26/2005 10:00 | 09/26/2005 10:15 | 09/26/2005 10:25 |
| **POLLUTANT** | | | | | | | | |
| Biochemical Oxygen Demand (BOD) | mg/L | -- | 2.0 | -- | -- | -- | -- | -- |
| Chemical Oxygen Demand (COD) | mg/L | -- | -- | <1.4 | <1.4 | -- | -- | -- |
| Total Organic Carbon (TOC) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Total Suspended Solids (TSS) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Ammonia (as N) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Flow | MGD | -- | -- | -- | -- | -- | -- | -- |
| Temperature | °C | -- | -- | -- | -- | -- | -- | -- |
| pH | pH unit | -- | -- | -- | -- | -- | -- | -- |
| **METALS CYANIDE AND TOTAL PHENOLS** | | | | | | | | |
| Antimony, Total | µg/L | 4300 | -- | 0.17 | 0.195 | -- | -- | -- |
| Arsenic, Total | µg/L | 36 | -- | 2.87 | 7.09 | -- | -- | -- |
| Beryllium, Total | µg/L | — | -- | <0.005 | <0.005 | -- | -- | -- |
| Cadmium, Total | µg/L | 9.4 | -- | 0.032 | 0.008 | -- | -- | -- |
| Chromium, Total | µg/L | — | -- | 0.570 | 0.375 | -- | -- | -- |
| Copper, Total | µg/L | 3.7 | -- | 1.17 | 0.346 | -- | -- | -- |
| Lead, Total | µg/L | 8.5 | -- | 0.541 | 0.141 | -- | -- | -- |
| Mercury, Total | µg/L | 0.051 | -- | 0.0016 | <0.00005 | -- | -- | -- |
| Nickel, Total | µg/L | 8.3 | -- | 0.378 | 0.386 | -- | -- | -- |
| Selenium, Total | µg/L | 71 | -- | 0.069 | <0.01 | -- | -- | -- |
| Silver, Total | µg/L | 2.2 | -- | <0.005 | <0.005 | -- | -- | -- |
| Thallium, Total | µg/L | 6.3 | -- | <0.005 | <0.005 | -- | -- | -- |
| Vanadium, Total | µg/L | — | | | | | | |
| Zinc, Total | µg/L | 86 | -- | 78.9 | 3.08 | -- | -- | -- |
| Cyanide, Total | µg/L | — | <0.05 | -- | -- | -- | -- | -- |
| Cyanide, Amenable | µg/L | — | <0.05 | -- | -- | -- | -- | -- |
| Phenols, Total | µg/L | — | -- | -- | -- | -- | -- | -- |
| **DIOXIN** | | | | | | | | |
| 2,3,7,8-TCDD | µg/L | $1.3 \times 10^{-8}$ | -- | -- | -- | -- | -- | -- |
| **VOLATILE COMPOUNDS** | | | | | | | | |
| 1,1 Dichloroethane | µg/L | 5 | -- | <0.2 | <0.2 | -- | -- | -- |
| 1,1_Dichloroethene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,1 Dichloroethylene | µg/L | 3.2 | -- | <0.3 | <0.3 | -- | -- | -- |
| 1,1,1 Trichloroethane | µg/L | 200 | -- | <0.2 | <0.2 | -- | -- | -- |
| 1,1,1,2-Tetrachloroethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,1,2 Trichloroethane | µg/L | 42 | -- | <0.3 | <0.3 | -- | -- | -- |
| 1,1,2,2 Tetrachloroethane | µg/L | 1 | — | 0.4 | <0.4 | -- | -- | -- |
| 1,2-Dibromoethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,2 Dichloroethane | µg/L | 99 | -- | <0.4 | <0.4 | -- | -- | -- |
| 1,2 Dichloropropane | µg/L | 39 | -- | <0.3 | <0.3 | -- | -- | -- |
| 1,2-Trans Dichloroethylene | µg/L | 10 | -- | <0.3 | <0.3 | -- | -- | -- |

## Table 4

### Low Volume Waste Stream Sampling Summary
### General NPDES Permit CAG994004
### Attachment A Screening Limits

| | Units Conc | NPDES General Permit Attachment A | Retention Basin 07/22/2005 8:10 | Plant 2 Wellpoint System 07/22/2005 7:55 | Tank Farm Wellpoint System 07/22/2005 7:15 | Plant 2 Wellpoint System 09/26/2005 10:00 | Plant 2 After Treatment 09/26/2005 10:15 | Tank Farm Wellpoint System 09/26/2005 10:25 |
|---|---|---|---|---|---|---|---|---|
| 1,3 Dichloropropylene | µg/L | 0.5 | -- | <0.5 | <0.5 | -- | -- | -- |
| 2-Chloroethyl vinyl ether | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Acrolein | µg/L | 100 | -- | <12 | <12 | -- | -- | -- |
| Acrylonitrile | µg/L | 0.66 | -- | <10 | <10 | -- | -- | -- |
| Benzene | µg/L | 1 | -- | <0.3 | <0.3 | -- | -- | -- |
| Bis (Chloromethyl) Ether | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bromoform | µg/L | 360 | -- | <0.3 | <0.3 | -- | -- | -- |
| Bromochloromethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bromodichloromethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bromomethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Carbon Tetrachloride | µg/L | 0.5 | -- | <0.3 | <0.3 | -- | -- | -- |
| Chlorobenzene | µg/L | 21000 | -- | <0.3 | <0.3 | -- | -- | -- |
| Chlorodibromo-methane | µg/L | 34 | -- | <0.4 | <0.4 | -- | -- | -- |
| Chloroethane | µg/L | 100 | -- | <0.3 | <0.3 | -- | -- | -- |
| Chloroform | µg/L | 100 | -- | <0.3 | <0.3 | -- | -- | -- |
| Chloromethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| c-1,2-Dichloroethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| c-1,3-Dichloropropene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Dibromochloromethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Dichlorobromomethane | µg/L | 46 | -- | <0.3 | <0.3 | -- | -- | -- |
| Dichlorodifluoromethane | µg/L | — | -- | <0.4 | <0.4 | -- | -- | -- |
| Dichlorotrifloroethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Ethylbenzene | µg/L | 700 | -- | <0.2 | <0.2 | -- | -- | -- |
| Methyl Bromide | µg/L | 4000 | -- | <1.0 | <1.0 | -- | -- | -- |
| Methyl Chloride | µg/L | 3 | -- | <0.3 | <0.3 | -- | -- | -- |
| Methylene Chloride | µg/L | 1600 | -- | <0.3 | <0.3 | -- | -- | -- |
| Methyl-tert-Butyl Ether | µg/L | — | -- | -- | -- | -- | -- | -- |
| Napthalene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Tetrachloroethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Trichloroethene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Tetrachloroethylene | µg/L | 8.85 | -- | <0.4 | <0.4 | -- | -- | -- |
| Toluene | µg/L | 150 | -- | <0.3 | <0.3 | -- | -- | -- |
| Trichloroethylene | µg/L | 5 | -- | <0.3 | <0.3 | -- | -- | -- |
| Trichlorofluoromethane | µg/L | — | -- | <0.3 | <0.3 | -- | -- | -- |
| Trichlorotrifluoromethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| t-1,2-Dichloroethene | µg/L | — | -- | -- | -- | -- | -- | -- |
| t-1,3-Dichloropropene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Vinyl Chloride | µg/L | 0.5 | -- | <0.3 | <0.3 | -- | -- | -- |
| Xylenes | µg/L | — | -- | -- | -- | -- | -- | -- |
| GC/MS FRACTION - ACID COMPOUNDS | | | | | | | | |
| 2 Chlorophenol | µg/L | 400 | -- | <3.0 | <3.0 | -- | -- | -- |
| 2,4 Dichlorophenol | µg/L | 790 | -- | <5.0 | <5.0 | -- | -- | -- |
| 2,4 Dimethylphenol | µg/L | 2300 | -- | <5.0 | <5.0 | -- | -- | -- |

## Table 4

### Low Volume Waste Stream Sampling Summary
### General NPDES Permit CAG994004
### Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin 07/22/2005 8:10 | Plant 2 Wellpoint System 07/22/2005 7:55 | Tank Farm Wellpoint System 07/22/2005 7:15 | Plant 2 Wellpoint System 09/26/2005 10:00 | Plant 2 After Treatment 09/26/2005 10:15 | Tank Farm Wellpoint System 09/26/2005 10:25 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| 2,4 Dinitrophenol | µg/L | 14000 | -- | <15 | <15 | -- | -- | -- |
| 2,4,6 Trichlorophenol | µg/L | 6.5 | -- | <2.0 | <2.0 | -- | -- | -- |
| 2-Nitrophenol | µg/L | — | -- | <4.0 | <4.0 | -- | -- | -- |
| 4,6-Dinitro-O-cresol | µg/L | 765 | -- | <10 | <10 | -- | -- | -- |
| 4-Nitrophenol | µg/L | — | -- | <10 | <10 | -- | -- | -- |
| P-Chloro-M-Cresol | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Penta-chlorophenol | µg/L | 7.9 | -- | <10 | <10 | -- | -- | -- |
| Phenol | µg/L | 4600000 | -- | <2.0 | <2.0 | -- | -- | -- |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS | | | | | | | | |
| 1,2 Dichlorobenzene | µg/L | 600 | -- | <3.0 | <3.0 | -- | -- | -- |
| 1,2 Diphenylhydrazine | µg/L | 0.54 | -- | <2.0 | <2.0 | -- | -- | -- |
| 1,2,4 Trichlorobenzene | µg/L | — | -- | <5.0 | <5.0 | -- | -- | -- |
| 1,3 Dichlorobenzene | µg/L | 2600 | -- | <2.0 | <2.0 | -- | -- | -- |
| 1,4 Dichlorobenzene | µg/L | 0.5 | -- | <3.0 | <3.0 | -- | -- | -- |
| 2,4 Dinitrotoluene | µg/L | 9.1 | -- | <2.0 | <2.0 | -- | -- | -- |
| 2,4,5-Trichlorophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,6 Dinitrotoluene | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| 2-Chloronaphthalene | µg/L | 4300 | -- | <3.0 | <3.0 | -- | -- | -- |
| 2-Methyl-4.6-dinitrephenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Methylnaphtalene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Nitroaniline | µg/L | — | -- | -- | -- | -- | -- | -- |
| 3-Nitroaniline | µg/L | — | -- | -- | -- | -- | -- | -- |
| 3,3' Dichlorobenzidine | µg/L | 0.077 | -- | <5.0 | <5.0 | -- | -- | -- |
| 3,4-Benzo (b) fluoranthene | µg/L | 0.049 | -- | <5.0 | <5.0 | -- | -- | -- |
| 3,4-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4-Bromophenyl phenyl ether | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| 4-Chloroaniline | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4-Chlorophenyl phenyl ether | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| 4-Chloro-3-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4,6-Dinitiro-2-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Acenaphthene | µg/L | 2700 | -- | <3.0 | <3.0 | -- | -- | -- |
| Acenaphthylene | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Anthracene | µg/L | 10000 | -- | <10 | <10 | -- | -- | -- |
| Azobenzene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzidine | µg/L | 0.00054 | -- | <13 | <13 | -- | -- | -- |
| Benzo (a) Anthracene | µg/L | 0.049 | -- | <2.0 | <2.0 | -- | -- | -- |
| Benzo (a) Pyrene | µg/L | 0.049 | -- | <2.0 | <2.0 | -- | -- | -- |
| Benzo (e) Pyrene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzo (g,h,i) Perylene | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Benz (b) Fluoranthene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzo (k) Fluoranthene | µg/L | 0.049 | -- | <5.0 | <5.0 | -- | -- | -- |
| Benzonic Acid | µg/L | — | -- | -- | -- | -- | -- | -- |

# Table 4

## Low Volume Waste Stream Sampling Summary
## General NPDES Permit CAG994004
## Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin 07/22/2005 8:10 | Plant 2 Wellpoint System 07/22/2005 7:55 | Tank Farm Wellpoint System 07/22/2005 7:15 | Plant 2 Wellpoint System 09/26/2005 10:00 | Plant 2 After Treatment 09/26/2005 10:15 | Tank Farm Wellpoint System 09/26/2005 10:25 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| Benzyl Alchol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bis (2-Chloroethoxyl) methane | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Bis(2-Chloroethyl) ether | µg/L | 1.4 | -- | <3.0 | <3.0 | -- | -- | -- |
| Bis(2-Chloroisopropyl) ether | µg/L | 170000 | -- | <4.0 | <4.0 | -- | -- | -- |
| Bis(2-Ethylhexyl) phthalate | µg/L | 5.9 | -- | <4.0 | <4.0 | -- | -- | -- |
| Butyl benzyl phthalate | µg/L | 5200 | -- | <4.0 | <4.0 | -- | -- | -- |
| Carbazole | µg/L | — | -- | -- | -- | -- | -- | -- |
| Chrysene | µg/L | 0.049 | -- | <2.0 | <2.0 | -- | -- | -- |
| Dibenzo(a,h)-anthracene | µg/L | 0.049 | -- | <5.0 | <5.0 | -- | -- | -- |
| Dibenzofuran | µg/L | — | -- | -- | -- | -- | -- | -- |
| Diethyl phthalate | µg/L | 120000 | -- | <2.0 | <2.0 | -- | -- | -- |
| Dimethyl phthalate | µg/L | 2900000 | -- | <2.0 | <2.0 | -- | -- | -- |
| di-n-Butyl phthalate | µg/L | 12000 | -- | <2.0 | <2.0 | -- | -- | -- |
| di-n-Octyl phthalate | µg/L | — | -- | <4.0 | <4.0 | -- | -- | -- |
| Fluoranthene | µg/L | 370 | -- | <2.0 | <2.0 | -- | -- | -- |
| Fluorene | µg/L | 14000 | -- | <2.0 | <2.0 | -- | -- | -- |
| Hexachlorobenzene | µg/L | 0.00077 | -- | <5.0 | <5.0 | -- | -- | -- |
| Hexachlorobutadiene | µg/L | 50 | -- | <2.0 | <2.0 | -- | -- | -- |
| Hexachloro-cyclopentadiene | µg/L | 17000 | -- | <6.0 | <6.0 | -- | -- | -- |
| Hexachloroethane | µg/L | 8.9 | -- | <3.0 | <3.0 | -- | -- | -- |
| Indeno(1,2,3,cd)-pyrene | µg/L | 0.049 | -- | <2.0 | <2.0 | -- | -- | -- |
| Isophorone | µg/L | 600 | -- | <3.0 | <3.0 | -- | -- | -- |
| Methoxychlor | µg/L | — | -- | -- | -- | -- | -- | -- |
| Naphthalene | µg/L | — | -- | <3.0 | <3.0 | -- | -- | -- |
| Nitrate Nitrogen | µg/L | — | -- | -- | -- | -- | -- | -- |
| Nitrobenzene | µg/L | 1900 | -- | <5.0 | <5.0 | -- | -- | -- |
| N-Nitrosodimethyl amine | µg/L | 8.1 | -- | <7.0 | <7.0 | -- | -- | -- |
| N-Nitroso-di-N-propyl amine | µg/L | 1.4 | -- | <4.0 | <4.0 | -- | -- | -- |
| N-Nitrosodiphenyl amine | µg/L | 16 | -- | <2.0 | <2.0 | -- | -- | -- |
| Pentachlorophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Phenanthrene | µg/L | — | -- | <2.0 | <2.0 | -- | -- | -- |
| Phenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Pyrene | µg/L | 11000 | -- | <3.0 | <3.0 | -- | -- | -- |
| Total Detectable PAHs | µg/L | — | -- | -- | -- | -- | -- | -- |
| GC-MS FRACTION - PESTICIDES | | | | | | | | |
| 2,4'-DDD | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,4'-DDE | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,4'-DDT | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4,4'-DDD | µg/L | 0.00084 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDE | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDT | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| Aldrin | µg/L | 0.00014 | -- | -- | -- | -- | -- | -- |
| alpha-BHC | µg/L | 0.013 | -- | -- | -- | -- | -- | -- |

## Table 4

### Low Volume Waste Stream Sampling Summary
### General NPDES Permit CAG994004
### Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin | Plant 2 Wellpoint System | Tank Farm Wellpoint System | Plant 2 Wellpoint System | Plant 2 After Treatment | Tank Farm Wellpoint System |
|---|---|---|---|---|---|---|---|---|
| | Conc | | 07/22/2005 8:10 | 07/22/2005 7:55 | 07/22/2005 7:15 | 09/26/2005 10:00 | 09/26/2005 10:15 | 09/26/2005 10:25 |
| Alpha-Endosulfan | µg/L | 0.0087 | -- | -- | -- | -- | -- | -- |
| beta-BHC | µg/L | 0.046 | -- | -- | -- | -- | -- | -- |
| Beta-Endosulfan | µg/L | 0.0087 | -- | -- | -- | -- | -- | -- |
| Chlordane | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| Chlordane alpha | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Chlordane gamma | µg/L | --- | -- | -- | -- | -- | -- | -- |
| delta-BHC | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Dieldrin | µg/L | 0.00014 | -- | -- | -- | -- | -- | -- |
| Endosulfan I | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Endosulfan II | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Endosulfan Sulfate | µg/L | 240 | -- | -- | -- | -- | -- | -- |
| Endrin | µg/L | 0.0023 | -- | -- | -- | -- | -- | -- |
| Endrin Aldehyde | µg/L | 0.81 | -- | -- | -- | -- | -- | -- |
| Endrin Ketone | µg/L | --- | -- | -- | -- | -- | -- | -- |
| gamma-BHC | µg/L | 0.063 | -- | -- | -- | -- | -- | -- |
| Heptachlor | µg/L | 0.00021 | -- | -- | -- | -- | -- | -- |
| Heptachlor Epoxide | µg/L | 0.00011 | -- | -- | -- | -- | -- | -- |
| PCB 1016 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1221 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1232 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1242 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1248 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1254 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1260 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| Toxaphene | µg/L | 0.00075 | -- | -- | -- | -- | -- | -- |
| **PERCHLORATE** | | | | | | | | |
| Perchlorate | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| **ASBESTOS FIBERS** | | | | | | | | |
| Fibers > or = 0.5 micron | MF/L | --- | -- | <1.1 | <1.1 | -- | -- | -- |
| **TOTAL PETROLEUM HYDROCARBONS (TPH)** | | | | | | | | |
| TPH as Gasoline | µg/L | 100 | -- | <100 | <100 | -- | -- | -- |
| TPH as Diesel | µg/L | 100 | -- | **420** | **670** | **210** | **190** | **280** |
| **ALCOHOLS** | | | | | | | | |
| 2-Butanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| Ethanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| Isobutanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| Isopropanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| Methanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |
| n-Butanol | µg/L | --- | -- | <0.1 | <0.1 | -- | -- | -- |

# Table 4

## Low Volume Waste Stream Sampling Summary
## General NPDES Permit CAG994004
## Attachment A Screening Limits
## Long Beach Generating Station

| | Units | NPDES General Permit Attachment A | Retention Basin Discharge 09/26/2005 10:30 | Circ. System Intake 10/05/2005 9:15 | Outfall 001 10/03/2005 9:25 | Circ. System Intake 10/05/2005 11:25 | Outfall 001 10/05/2005 11:47 | Retention Basin Discharge 10/05/2005 11:20 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| **POLLUTANT** | | | | | | | | |
| Biochemical Oxygen Demand (BOD) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Chemical Oxygen Demand (COD) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Total Organic Carbon (TOC) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Total Suspended Solids (TSS) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Ammonia (as N) | mg/L | -- | -- | -- | -- | -- | -- | -- |
| Flow | MGD | -- | -- | -- | -- | -- | -- | -- |
| Temperature | °C | -- | -- | -- | -- | -- | -- | -- |
| pH | pH unit | -- | -- | -- | -- | -- | -- | -- |
| **METALS CYANIDE AND TOTAL PHENOLS** | | | | | | | | |
| Antimony, Total | µg/L | 4300 | -- | -- | -- | -- | -- | -- |
| Arsenic, Total | µg/L | 36 | -- | -- | -- | -- | -- | -- |
| Beryllium, Total | µg/L | — | -- | -- | -- | -- | -- | -- |
| Cadmium, Total | µg/L | 9.4 | -- | -- | -- | -- | -- | -- |
| Chromium, Total | µg/L | — | -- | -- | -- | -- | -- | -- |
| Copper, Total | µg/L | 3.7 | -- | -- | -- | -- | -- | -- |
| Lead, Total | µg/L | 8.5 | -- | -- | -- | -- | -- | -- |
| Mercury, Total | µg/L | 0.051 | -- | -- | -- | -- | -- | -- |
| Nickel, Total | µg/L | 8.3 | -- | -- | -- | -- | -- | -- |
| Selenium, Total | µg/L | 71 | -- | -- | -- | -- | -- | -- |
| Silver, Total | µg/L | 2.2 | -- | -- | -- | -- | -- | -- |
| Thallium, Total | µg/L | 6.3 | -- | -- | -- | -- | -- | -- |
| Vanadium, Total | µg/L | — | | | | | -- | -- |
| Zinc, Total | µg/L | 86 | -- | -- | -- | -- | -- | -- |
| Cyanide, Total | µg/L | — | -- | -- | -- | -- | -- | -- |
| Cyanide, Amenable | µg/L | — | -- | -- | -- | -- | -- | -- |
| Phenols, Total | µg/L | — | -- | -- | -- | -- | -- | -- |
| **DIOXIN** | | | | | | | | |
| 2,3,7,8-TCDD | µg/L | $1.3 \times 10^{-8}$ | -- | -- | -- | -- | -- | -- |
| **VOLATILE COMPOUNDS** | | | | | | | | |
| 1,1 Dichloroethane | µg/L | 5 | -- | -- | -- | -- | -- | -- |
| 1,1_Dichloroethene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,1 Dichloroethylene | µg/L | 3.2 | -- | -- | -- | -- | -- | -- |
| 1,1,1 Trichloroethane | µg/L | 200 | -- | -- | -- | -- | -- | -- |
| 1,1,1,2-Tetrachloroethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,1,2 Trichloroethane | µg/L | 42 | -- | -- | -- | -- | -- | -- |
| 1,1,2,2 Tetrachloroethane | µg/L | 1 | -- | -- | -- | -- | -- | -- |
| 1,2-Dibromoethane | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,2 Dichloroethane | µg/L | 99 | -- | -- | -- | -- | -- | -- |
| 1,2 Dichloropropane | µg/L | 39 | -- | -- | -- | -- | -- | -- |
| 1,2-Trans Dichloroethylene | µg/L | 10 | -- | -- | -- | -- | -- | -- |

# Table 4

## Low Volume Waste Stream Sampling Summary
## General NPDES Permit CAG994004
## Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin Discharge 09/26/2005 10:30 | Circ. System Intake 10/05/2005 9:15 | Outfall 001 10/03/2005 9:25 | Circ. System Intake 10/05/2005 11:25 | Outfall 001 10/05/2005 11:47 | Retention Basin Discharge 10/05/2005 11:20 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| 1,3 Dichloropropylene | µg/L | 0.5 | -- | -- | -- | -- | -- | -- |
| 2-Chloroethyl vinyl ether | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Acroiein | µg/L | 100 | -- | -- | -- | -- | -- | -- |
| Acrylonitrile | µg/L | 0.66 | -- | -- | -- | -- | -- | -- |
| Benzene | µg/L | 1 | -- | -- | -- | -- | -- | -- |
| Bis (Chloromethyl) Ether | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Bromoform | µg/L | 360 | -- | -- | -- | -- | -- | -- |
| Bromochloromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Bromodichloromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Bromomethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Carbon Tetrachloride | µg/L | 0.5 | -- | -- | -- | -- | -- | -- |
| Chlorobenzene | µg/L | 21000 | -- | -- | -- | -- | -- | -- |
| Chlorodibromo-methane | µg/L | 34 | -- | -- | -- | -- | -- | -- |
| Chloroethane | µg/L | 100 | -- | -- | -- | -- | -- | -- |
| Chloroform | µg/L | 100 | -- | -- | -- | -- | -- | -- |
| Chloromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| c-1,2-Dichloroethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| c-1,3-Dichloropropene | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Dibromochloromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Dichlorobromomethane | µg/L | 46 | -- | -- | -- | -- | -- | -- |
| Dichlorodifluoromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Dichlorotrifloroethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Ethylbenzene | µg/L | 700 | -- | -- | -- | -- | -- | -- |
| Methyl Bromide | µg/L | 4000 | -- | -- | -- | -- | -- | -- |
| Methyl Chloride | µg/L | 3 | -- | -- | -- | -- | -- | -- |
| Methylene Chloride | µg/L | 1600 | -- | -- | -- | -- | -- | -- |
| Methyl-tert-Butyl Ether | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Napthalene | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Tetrachloroethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Trichloroethene | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Tetrachloroethylene | µg/L | 8.85 | -- | -- | -- | -- | -- | -- |
| Toluene | µg/L | 150 | -- | -- | -- | -- | -- | -- |
| Trichloroethylene | µg/L | 5 | -- | -- | -- | -- | -- | -- |
| Trichlorofluoromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Trichlorotrifluoromethane | µg/L | --- | -- | -- | -- | -- | -- | -- |
| t-1,2-Dichloroethene | µg/L | --- | -- | -- | -- | -- | -- | -- |
| t-1,3-Dichloropropene | µg/L | --- | -- | -- | -- | -- | -- | -- |
| Vinyl Chloride | µg/L | 0.5 | -- | -- | -- | -- | -- | -- |
| Xylenes | µg/L | --- | -- | -- | -- | -- | -- | -- |
| GC/MS FRACTION - ACID COMPOUNDS | | | | | | | | |
| 2 Chlorophenol | µg/L | 400 | -- | -- | -- | -- | -- | -- |
| 2,4 Dichlorophenol | µg/L | 790 | -- | -- | -- | -- | -- | -- |
| 2,4 Dimethylphenol | µg/L | 2300 | -- | -- | -- | -- | -- | -- |

# Table 4

## Low Volume Waste Stream Sampling Summary
## General NPDES Permit CAG994004
## Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin Discharge 09/26/2005 10:30 | Circ. System Intake 10/05/2005 9:15 | Outfall 001 10/03/2005 9:25 | Circ. System Intake 10/05/2005 11:25 | Outfall 001 10/05/2005 11:47 | Retention Basin Discharge 10/05/2005 11:20 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| 2,4 Dinitrophenol | µg/L | 14000 | -- | -- | -- | -- | -- | -- |
| 2,4,6 Trichlorophenol | µg/L | 6.5 | -- | -- | -- | -- | -- | -- |
| 2-Nitrophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4,6-Dinitro-O-cresol | µg/L | 765 | -- | -- | -- | -- | -- | -- |
| 4-Nitrophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| P-Chloro-M-Cresol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Penta-chlorophenol | µg/L | 7.9 | -- | -- | -- | -- | -- | -- |
| Phenol | µg/L | 4600000 | -- | -- | -- | -- | -- | -- |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS | | | | | | | | |
| 1,2 Dichlorobenzene | µg/L | 600 | -- | -- | -- | -- | -- | -- |
| 1,2 Diphenylhydrazine | µg/L | 0.54 | -- | -- | -- | -- | -- | -- |
| 1,2,4 Trichlorobenzene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 1,3 Dichlorobenzene | µg/L | 2600 | -- | -- | -- | -- | -- | -- |
| 1,4 Dichlorobenzene | µg/L | 0.5 | -- | -- | -- | -- | -- | -- |
| 2,4 Dinitrotoluene | µg/L | 9.1 | -- | -- | -- | -- | -- | -- |
| 2,4,5-Trichlorophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,6 Dinitrotoluene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Chloronaphthalene | µg/L | 4300 | -- | -- | -- | -- | -- | -- |
| 2-Methyl-4.6-dinitrephenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Methylnaphtalene | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2-Nitroaniline | µg/L | — | -- | -- | -- | -- | -- | -- |
| 3-Nitroaniline | µg/L | — | -- | -- | -- | -- | -- | -- |
| 3,3' Dichlorobenzidine | µg/L | 0.077 | -- | -- | -- | -- | -- | -- |
| 3,4-Benzo (b) fluoranthene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| 3,4-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4-Bromophenyl phenyl ether | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4-Chloroaniline | µg/L | | -- | -- | -- | -- | -- | -- |
| 4-Chlorophenyl phenyl ether | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4-Chloro-3-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4,6-Dinitiro-2-Methylphenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Acenaphthene | µg/L | 2700 | -- | -- | -- | -- | -- | -- |
| Acenaphthylene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Anthracene | µg/L | 10000 | -- | -- | -- | -- | -- | -- |
| Azobenzene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzidine | µg/L | 0.00054 | -- | -- | -- | -- | -- | -- |
| Benzo (a) Anthracene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Benzo (a) Pyrene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Benzo (e) Pyrene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzo (g,h,i) Perylene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benz (b) Fluoranthene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Benzo (k) Fluoranthene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Benzonic Acid | µg/L | — | -- | -- | -- | -- | -- | -- |

## Table 4

### Low Volume Waste Stream Sampling Summary
### General NPDES Permit CAG994004
### Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin Discharge 09/26/2005 10:30 | Circ. System Intake 10/05/2005 9:15 | Outfall 001 10/03/2005 9:25 | Circ. System Intake 10/05/2005 11:25 | Outfall 001 10/05/2005 11:47 | Retention Basin Discharge 10/05/2005 11:20 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| Benzyl Alchol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bis (2-Chloroethoxyl) methane | µg/L | — | -- | -- | -- | -- | -- | -- |
| Bis(2-Chloroethyl) ether | µg/L | 1.4 | -- | -- | -- | -- | -- | -- |
| Bis(2-Chloroisopropyl) ether | µg/L | 170000 | -- | -- | -- | -- | -- | -- |
| Bis(2-Ethylhexyl) phthalate | µg/L | 5.9 | -- | -- | -- | -- | -- | -- |
| Butyl benzyl phthalate | µg/L | 5200 | -- | -- | -- | -- | -- | -- |
| Carbazole | µg/L | — | -- | -- | -- | -- | -- | -- |
| Chrysene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)-anthracene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Dibenzofuran | µg/L | — | -- | -- | -- | -- | -- | -- |
| Diethyl phthalate | µg/L | 120000 | -- | -- | -- | -- | -- | -- |
| Dimethyl phthalate | µg/L | 2900000 | -- | -- | -- | -- | -- | -- |
| di-n-Butyl phthalate | µg/L | 12000 | -- | -- | -- | -- | -- | -- |
| di-n-Octyl phthalate | µg/L | — | -- | -- | -- | -- | -- | -- |
| Fluoranthene | µg/L | 370 | -- | -- | -- | -- | -- | -- |
| Fluorene | µg/L | 14000 | -- | -- | -- | -- | -- | -- |
| Hexachlorobenzene | µg/L | 0.00077 | -- | -- | -- | -- | -- | -- |
| Hexachlorobutadiene | µg/L | 50 | -- | -- | -- | -- | -- | -- |
| Hexachloro-cyclopentadiene | µg/L | 17000 | -- | -- | -- | -- | -- | -- |
| Hexachloroethane | µg/L | 8.9 | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3,cd)-pyrene | µg/L | 0.049 | -- | -- | -- | -- | -- | -- |
| Isophorone | µg/L | 600 | -- | -- | -- | -- | -- | -- |
| Methoxychlor | µg/L | — | -- | -- | -- | -- | -- | -- |
| Naphthalene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Nitrate Nitrogen | µg/L | — | -- | -- | -- | -- | -- | -- |
| Nitrobenzene | µg/L | 1900 | -- | -- | -- | -- | -- | -- |
| N-Nitrosodimethyl amine | µg/L | 8.1 | -- | -- | -- | -- | -- | -- |
| N-Nitroso-di-N-propyl amine | µg/L | 1.4 | -- | -- | -- | -- | -- | -- |
| N-Nitrosodiphenyl amine | µg/L | 16 | -- | -- | -- | -- | -- | -- |
| Pentachlorophenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Phenanthrene | µg/L | — | -- | -- | -- | -- | -- | -- |
| Phenol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Pyrene | µg/L | 11000 | -- | -- | -- | -- | -- | -- |
| Total Detectable PAHs | µg/L | — | -- | -- | -- | -- | -- | -- |
| GC-MS FRACTION - PESTICIDES | | | | | | | | |
| 2,4'-DDD | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,4'-DDE | µg/L | — | -- | -- | -- | -- | -- | -- |
| 2,4'-DDT | µg/L | — | -- | -- | -- | -- | -- | -- |
| 4,4'-DDD | µg/L | 0.00084 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDE | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDT | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| Aldrin | µg/L | 0.00014 | -- | -- | -- | -- | -- | -- |
| alpha-BHC | µg/L | 0.013 | -- | -- | -- | -- | -- | -- |

## Table 4

### Low Volume Waste Stream Sampling Summary
### General NPDES Permit CAG994004
### Attachment A Screening Limits

| | Units | NPDES General Permit Attachment A | Retention Basin Discharge 09/26/2005 10:30 | Circ. System Intake 10/05/2005 9:15 | Outfall 001 10/03/2005 9:25 | Circ. System Intake 10/05/2005 11:25 | Outfall 001 10/05/2005 11:47 | Retention Basin Discharge 10/05/2005 11:20 |
|---|---|---|---|---|---|---|---|---|
| | Conc | | | | | | | |
| Alpha-Endosulfan | µg/L | 0.0087 | -- | -- | -- | -- | -- | -- |
| beta-BHC | µg/L | 0.046 | -- | -- | -- | -- | -- | -- |
| Beta-Endosulfan | µg/L | 0.0087 | -- | -- | -- | -- | -- | -- |
| Chlordane | µg/L | 0.00059 | -- | -- | -- | -- | -- | -- |
| Chlordane alpha | µg/L | — | -- | -- | -- | -- | -- | -- |
| Chlordane gamma | µg/L | — | -- | -- | -- | -- | -- | -- |
| delta-BHC | µg/L | — | -- | -- | -- | -- | -- | -- |
| Dieldrin | µg/L | 0.00014 | -- | -- | -- | -- | -- | -- |
| Endosulfan I | µg/L | — | -- | -- | -- | -- | -- | -- |
| Endosulfan II | µg/L | — | -- | -- | -- | -- | -- | -- |
| Endosulfan Sulfate | µg/L | 240 | -- | -- | -- | -- | -- | -- |
| Endrin | µg/L | 0.0023 | -- | -- | -- | -- | -- | -- |
| Endrin Aldehyde | µg/L | 0.81 | -- | -- | -- | -- | -- | -- |
| Endrin Ketone | µg/L | — | -- | -- | -- | -- | -- | -- |
| gamma-BHC | µg/L | 0.063 | -- | -- | -- | -- | -- | -- |
| Heptachlor | µg/L | 0.00021 | -- | -- | -- | -- | -- | -- |
| Heptachlor Epoxide | µg/L | 0.00011 | -- | -- | -- | -- | -- | -- |
| PCB 1016 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1221 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1232 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1242 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1248 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1254 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| PCB 1260 | µg/L | 0.00017 | -- | -- | -- | -- | -- | -- |
| Toxaphene | µg/L | 0.00075 | -- | -- | -- | -- | -- | -- |
| **PERCHLORATE** | | | | | | | | |
| Perchlorate | µg/L | — | -- | -- | -- | -- | -- | -- |
| **ASBESTOS FIBERS** | | | | | | | | |
| Fibers > or = 0.5 micron | MF/L | — | -- | -- | -- | -- | -- | -- |
| **TOTAL PETROLEUM HYDROCARBONS (TPH)** | | | | | | | | |
| TPH as Gasoline | µg/L | 100 | -- | -- | -- | -- | -- | -- |
| TPH as Diesel | µg/L | 100 | **230** | **<100** | **180** | **140** | **110** | **180** |
| **ALCOHOLS** | | | | | | | | |
| 2-Butanol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Ethanol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Isobutanol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Isopropanol | µg/L | — | -- | -- | -- | -- | -- | -- |
| Methanol | µg/L | — | -- | -- | -- | -- | -- | -- |
| n-Butanol | µg/L | — | -- | -- | -- | -- | -- | -- |