

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles, California 90013

**FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR**

**NRG EL SEGUNDO OPERATIONS INC.
(LONG BEACH GENERATING STATION)**

**NPDES NO. CAG994004
CI-9055**

FACILITY ADDRESS

2665 W. Seaside Boulevard
Long Beach, CA 90802

FACILITY MAILING ADDRESS

301 Vista Del Mar
El Segundo, CA 90245

PROJECT DESCRIPTION:

The NRG El Segundo Operations Inc. proposes to discharge seepage groundwater generated from facility located at 2665 West Seaside Boulevard, Long Beach. The groundwater will be discharge into the back channel of Long Beach Harbor. The groundwater beneath the facility is impacted with total petroleum hydrocarbons and heavy metals. Prior to discharge, the extracted groundwater will be treated by passing it through two 20,000-lbs granular activated carbon (GAC) absorption vessels. Metals removal will be achieved through chemical coagulation, settlement and clarification. The treated water will then be passed through polishing filters before discharge.

VOLUME AND DESCRIPTION OF DISCHARGE:

Up to 1.0 million gallons per day (mgd) of wastewater will be discharged into the back channel of Long Beach Harbor at into San Pedro Bay, a water of the United States (Latitude: 33° 45' 53", Longitude: 118° 13' 17"). The site location map and process flow diagrams are shown in Figures 1 and 2, respectively.

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided in NPDES Application Supplemental Requirements, the following constituents listed in the Table below have been determined to show reasonable potential to exist in the discharge. Therefore, the discharge limitations for these constituents in Part E.1.a and c. of Order No. R4-2003-0111 are applicable to your discharge. The discharge flows into the back channel of Long Beach Harbor. The discharge limitations in Attachment B of the Order No. R4-2003-0111 are not applicable to your discharge.

March 27, 2006

This Table lists the specific constituents and effluent limitations applicable to your discharge.

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD ₅ 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	
Phenols	mg/L	1.0	
Residual Chlorine	mg/L	0.1	
Methylene Blue Active Substances (MBAS)	mg/L	0.5	
Total Petroleum Hydrocarbons	µg/L	100	
Chromium III	µg/L	50	
Chromium VI	µg/L	82	41
Copper	µg/L	5.8	2.9
Nickel	µg/L	14	6.7
Silver	µg/L	2.2	1.1
Zinc	µg/L	95	47

FREQUENCY OF DISCHARGE:

The discharge of wastewater will be continuous.

REUSE OF WATER:

Offsite disposal of wastewater is not feasible due to high cost of disposal. The vicinity has no landscaped areas that require irrigation. Since there are no feasible reuse options, the wastewater will be discharged to the Long Beach Harbor.

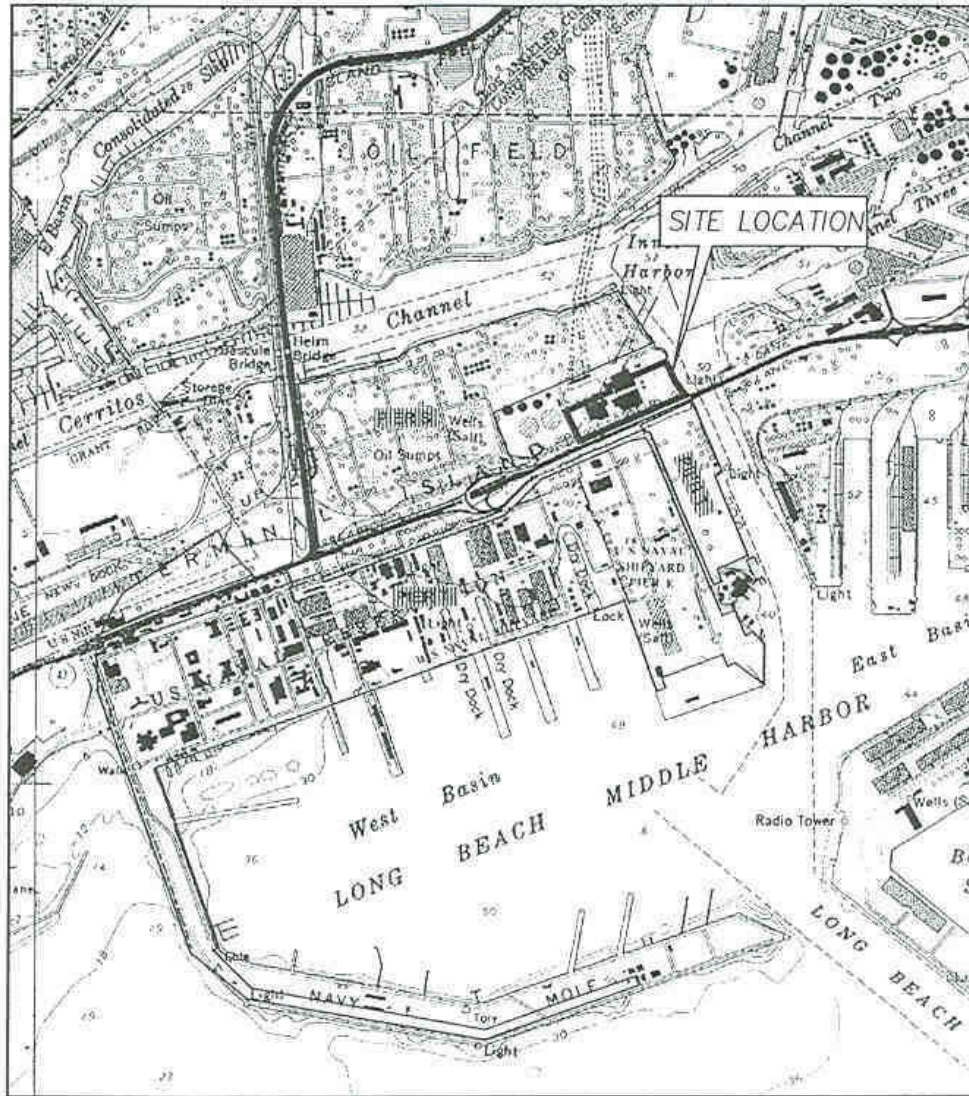


FIGURE 1

NRG EL SEGUNDO OPERATIONS INC.
(LONG BEACH GENERATING STATION)

CI-9055

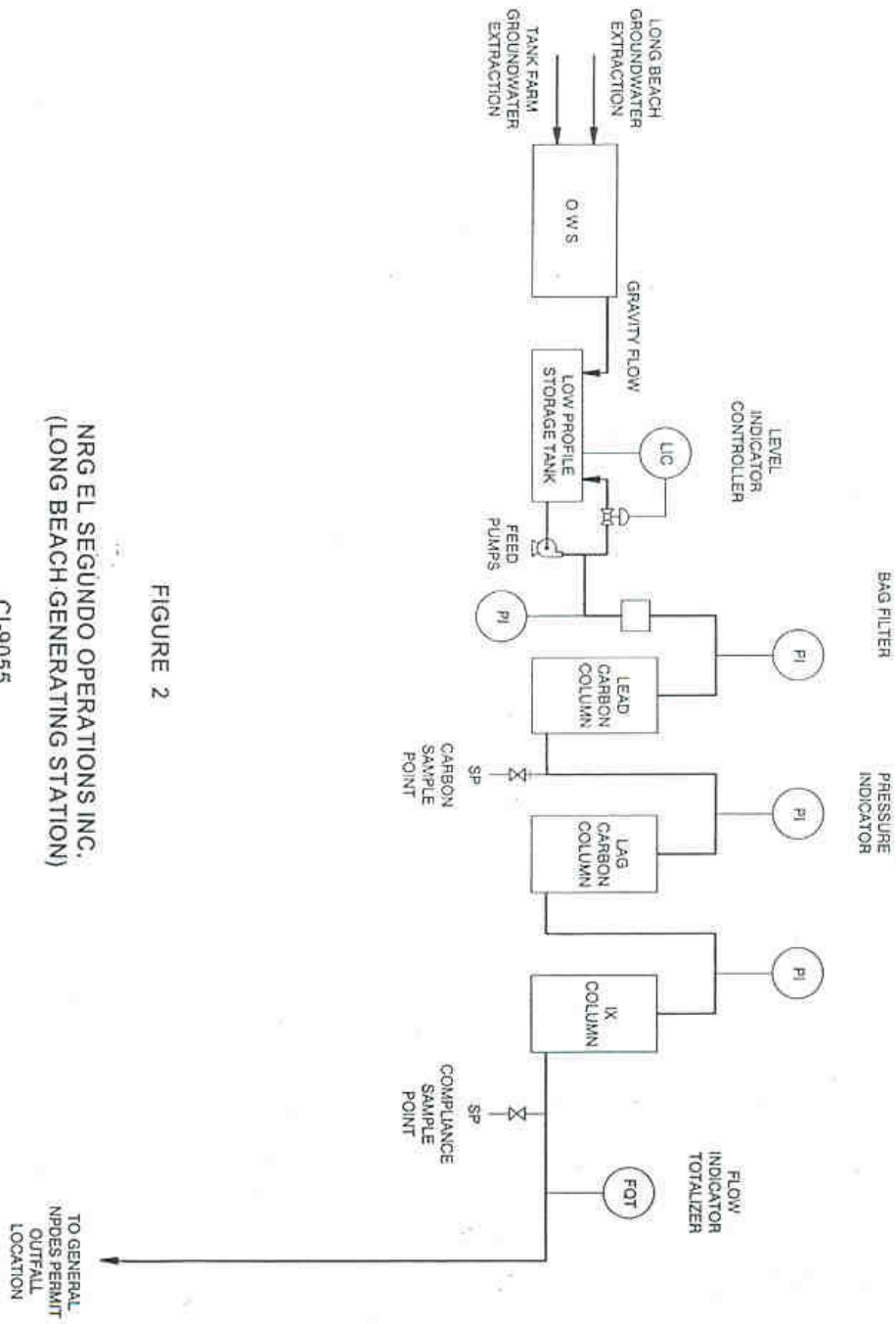


FIGURE 2

NRG EL SEGUNDO OPERATIONS INC.
(LONG BEACH GENERATING STATION)

CI-9055