

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

FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS
(ALAMITOS BARRIER PROJECT)
NPDES NO. CAG994005
CI-8066

PROJECT LOCATION

San Gabriel River Estuary
Long Beach, CA

FACILITY MAILING ADDRESS

900 South Fremont Avenue
Alhambra, CA 91803-1331
Contact: Mr. James A. Noyes

PROJECT DESCRIPTION

County of Los Angeles, Department of Public Works (DPW) maintains injection and extraction wells as part of the Alamitos Barrier Project to control seawater intrusion into the groundwater basins in the Long Beach area. DPW redevelops the water injection wells every two to four years in order to remove accumulated fine material from the well casing, perforations, gravel pack and surrounding aquifer. DPW intermittently discharges up to 0.144 million gallons per day of groundwater generated from the redevelopment of the existing wells and/or from the construction of new wells. The groundwater pumped from the wells flows through a primary settling tank, a secondary clarifying tank, and then into the storm drains.

VOLUME AND DESCRIPTION OF DISCHARGE

A maximum of 144,000 gallons per day of groundwater is discharged from the wells into Los Alamitos Channel, an unlined watercourse that drains to Orange County Flood Control District retention basin, from where it is pumped via a drain to the San Gabriel River Estuary (at a point 650 feet south of Westminster Avenue), a water of the United States. Discharge locations from the project are listed below. See Figure 1 for the well locations.

<u>Outfall No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Descriptions</u>
001	33° 46' 27"	118° 05' 50"	33Z
002	33° 46' 26"	118° 05' 45"	34D
003	33° 46' 01"	118° 05' 50"	34H'18P (Extraction well)
004	33° 46' 00"	118° 05' 50"	34H'17P (Extraction well)
005	33° 45' 44"	118° 05' 50"	34S'22P (Extraction well)
006	33° 46' 21"	118° 05' 38"	34G
007	33° 46' 14"	118° 05' 38"	34J
008	33° 46' 07"	118° 05' 33"	34L

<u>Outfall No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Descriptions</u>
009	34° 46' 03"	118° 05' 32"	34S
010	34° 45' 59"	118° 05' 29"	34V
011	34° 46' 21"	118° 05' 41"	34F
012	34° 46' 19"	118° 05' 38"	34H
013	34° 45' 40"	118° 05' 30"	34Z
014	34° 45' 34"	118° 05' 26"	35G
015	34° 46' 24"	118° 05' 46"	34E
016	34° 46' 20"	118° 05' 43"	34G2
017	34° 45' 36"	118° 05' 29"	35F
018	34° 45' 34"	118° 05' 22"	35H1
019	34° 45' 34"	118° 05' 15"	35H2

Since the injection wells are redeveloped once every two years, and sampling of each well for all constituents listed in Attachment E.2 of the Order No. R4-2003-0108 would have a significant impact on the County of Los Angeles' well redevelopment program, a selective subset of injection wells (34V, 34G2, and 35H1) that are representative of the aquifers (which the injection wells tap into) will be monitored for the constituents listed in Attachment E.2.

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided, the analytical data showed reasonable potential for toxics to exist in the groundwater above the "Screening Levels for Potential Pollutants of Concern in Potable Groundwater" in Attachment A. Therefore, the effluent limits for toxic compounds in Section E.2. are applicable to your discharge. The discharge flows to San Gabriel River Estuary and into Miscellaneous Los Angeles County Coastal Streams; therefore, discharge limitations in Attachment B are not applicable to your discharge.

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
Settleable Solids	ml/L	0.3	0.1
Residual Chlorine	mg/L	0.1	---
Copper	µg/L	1000	---
Lead	µg/L	50	---
Total Chromium	µg/L	50	---
1,1-Dichloroethane	µg/L	5	---
1,1-Dichloroethylene	µg/L	6	---
1,1,1-Trichloroethane	µg/L	200	---

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
1,1,2-Trichloroethane	µg/L	5	---
1,1,2,2-Tetrachloroethane	µg/L	1	---
1,2-Dichloroethane	µg/L	0.5	---
1,2-Trans Dichloroethylene	µg/L	10	---
Tetrachloroethylene	µg/L	5	---
Trichloroethylene	µg/L	5	---
Carbon Tetrachloride	µg/L	0.5	---
Vinyl Chloride	µg/L	0.5	---
Total Trihalomethanes	µg/L	80	---
Benzene	µg/L	1	---
Methyl tertiary butyl ether	µg/L	5	---

FREQUENCY OF DISCHARGE

Discharges from the extraction wells are continuous. Discharges from the injection wells are intermittent.

REUSE OF WATER

Due to the locations of the wells and nature of the project, there are no feasible reuse alternatives. Therefore, the wastewater will be discharged to the storm drains.