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
LONG BEACH MEMORIAL MEDICAL CENTER
(Miller Children's Hospital Construction Project)
NPDES NO. CAG994004
CI-9203

FACILITY LOCATION
2801 Atlantic Avenue
Long Beach, CA 90806

FACILITY MAILING ADDRESS
2801 Atlantic Avenue
Long Beach, CA 90806

PROJECT DESCRIPTION

Long Beach Memorial Medical Center (LBMMC) is constructing Miller Children's Hospital at 2801 Atlantic Avenue, Long Beach. Dewatering is anticipated during the construction project. In addition, permanent dewatering may be required upon construction completion. Up to 0.46 million gallons per day (mgd) of treated groundwater will be discharged during the construction project. Sediment tube settler and sediment filtration systems will be installed to to settle and filter out sediments. The groundwater will be passed through ion exchange columns to remove metals. The groundwater will then be treated by passing it through a series of granular activated carbon units to remove total petroleum hydroccrbons (TPH) and volatile organic hydrocarbons. The treated groundwater will be tested prior to discharge to the storm drain.

VOLUME AND DESCRIPTION OF DISCHARGE

It is estimated that up to 0.46 mgd of treated groundwater will be discharged to a local storm drain at Latitude 33°48'30", Longitude 118°11'07", which flows to the Los Angeles River between Figueroa Street and L.A. River Estuary (Willow Street), a water of the United States. The site location map and the schematic of waste flow diagram are shown as Figures 1 and 2, respectively.

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided in the NPDES Application Supplemental Requirements, the following constituents in the Table below have been determined to show reasonable potential to exist in the discharge. The treated groundwater discharged from the project site flows into the Los Angeles River. Therefore, discharge limitations under "Other Water" column in Part E.1.a. and 1.b. of the Order applies. In addition, the limitations specified in Attachment B.7.d. of Order No. R4-2003-0111 are not applicable to the discharge.

November 14, 2006

This Table lists the specific constituents and effluent limitations applicable to the 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
Total Dissolved Solids	mg/L	1500	---
Sulfate	mg/L	350	---
Chloride	mg/L	190	---
Nitrogen*	mg/L	8.0	---
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	---
Benzene	µg/L	1.0	---
Ethylbenzene	µg/L	700	---
Naphthalene	µg/L	21	---
Copper	µg/L	44.4	22.1
Chromium III	µg/L	50	50
Lead	µg/L	25.6	12.8
Nickel	µg/L	100	100
Selenium	µg/L	8.0	4.0
Zinc	µg/L	350	170

FREQUENCY OF DISCHARGE

The discharge of groundwater will be continuous during construction project and possible through the building life time.

REUSE OF WATER

It is not economically feasible to haul all the groundwater for off-site disposal. Due to the large volume of groundwater that will be generated, it is not feasible to discharge the water to the sanitary sewer system. Small portion of the treated groundwater may be used for dust control at the project site. There are no other feasible reuse options for the discharge. Therefore, most of the treated groundwater will be discharged to the storm drain in compliance with the requirements of the attached order.

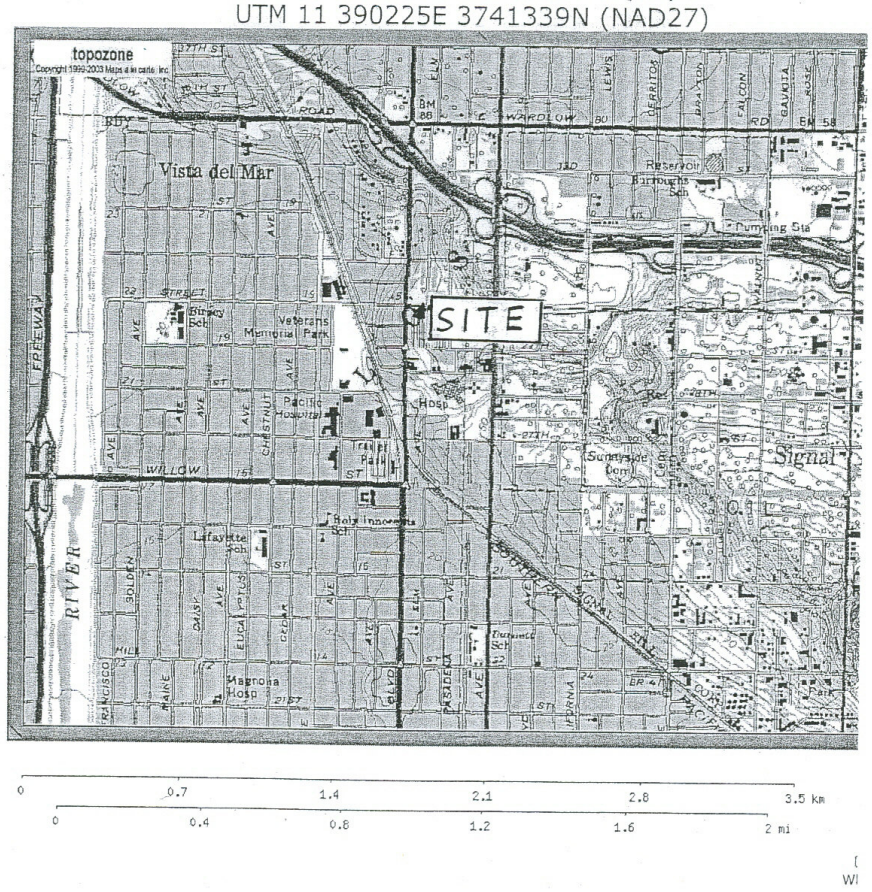
Long Beach Memorial Medical Center, USGS LONG BEACH (
Topo Map
View TopoZone Pro topographic maps, aerial photos, street map
coordinate and elevation display
UTM 11 390225E 3741339N (NAD27)
topozone
SITE
Vista del Mar
Veterans Memorial Park
Birney Sch
Lafayette Sch
Holy Innocents Sch
Magnolia Hosp
Sunnyside Cem
Signal
RIVER
FREEWAY
WILLOW
0 0.7 1.4 2.1 2.8 3.5 km
0 0.4 0.8 1.2 1.6 2 mi

FIGURE 1

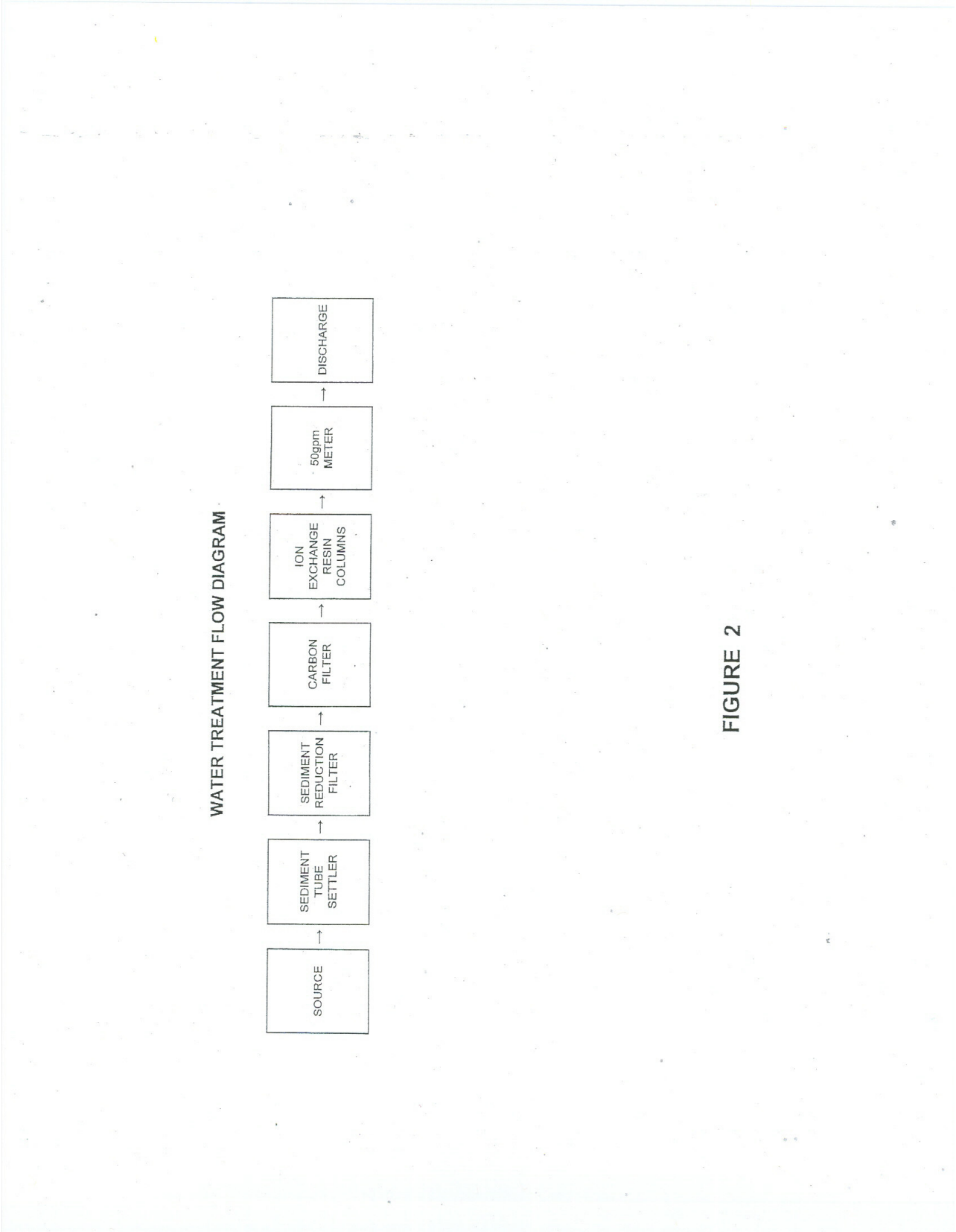
WATER TREATMENT FLOW DIAGRAM
SOURCE
SEDIMENT TUBE SETTLER
SEDIMENT REDUCTION FILTER
CARBON FILTER
ION EXCHANGE RESIN COLUMNS
50gpm METER
DISCHARGE

FIGURE 2