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
CALIFORNIA AMERICAN WATER COMPANY – SAN MARINO
(New Patton Well Development Project)
(NPDES NO. CAG994004)
CI-9515

FACILITY LOCATION
1100 Arden Road
Pasadena, CA 91106

FACILITY MAILING ADDRESS
8657 Grand Avenue
Rosemead, CA 91770

PROJECT DESCRIPTION

California America Water Company – San Marino (CAWC) proposes to develop the new Patton Well located at 1100 Arden Road, Pasadena. (See Figure 1 for the site location). CAWC proposes to discharge up to 1.4 million gallons per day (MGD) of treated groundwater for approximately three weeks period. Pumped groundwater will first go into settling tanks to remove large particulates, then it will pass through sand filters and bag filters to remove suspended solids. The groundwater then will be polished by passing through the granular activated carbon (GAC) system to remove volatile organic compounds, if any. (See Figure 2 for treatment process). The treated groundwater from the well site will be discharged into Alhambra Wash which drains to the Rio Hondo, thence to the Los Angeles River.

VOLUME AND DESCRIPTION OF DISCHARGE

Up to 1.4 mgd of treated groundwater will be discharged at discharge point M-001 (Latitude 34°07'54", Longitude 118°07'37"). The discharge flows into the Alhambra Wash which drains to the Rio Hondo, thence to the Los Angeles River, a water of the United States.

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 discharge flows to the Rio Hondo (upstream of Whittier Narrows Flood Control Basin). Therefore, the discharge limitations specified in Attachment B.7.g. are applicable to this discharge.

June 16, 2009

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	750	---
Sulfate	mg/L	300	---
Chloride	mg/L	150	---
Nitrogen*	mg/L	8.0	---
Sulfides	mg/L	1.0	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Carbon Tetrachloride	µg/L	0.5	---
Trichloroethylene	µg/L	5.0	---
Tetrachloroethylene	µg/L	5.0	---
Perchlorate	µg/L	6.0	---

* Nitrate-nitrogen + nitrite-nitrogen

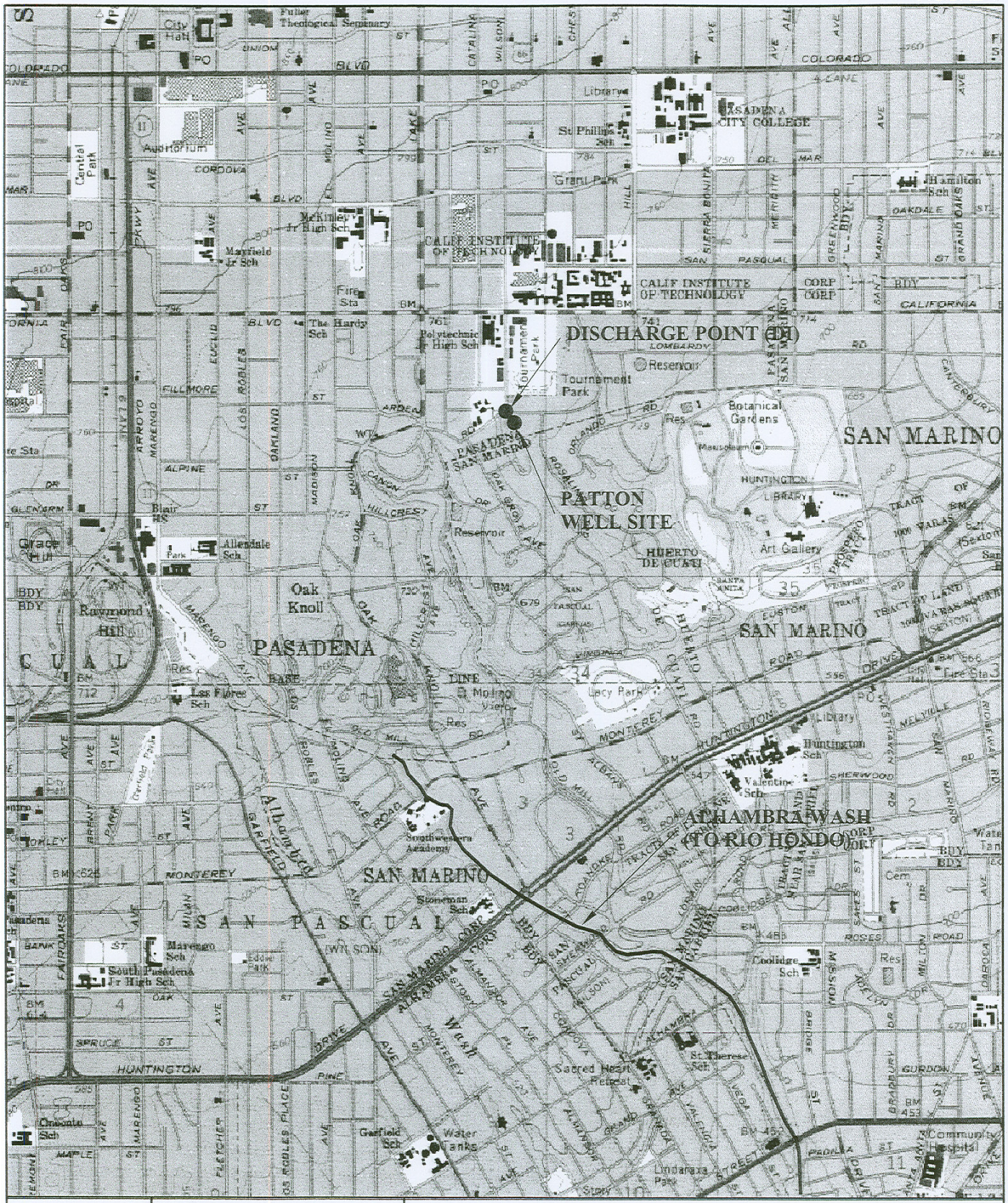
FREQUENCY OF DISCHARGE

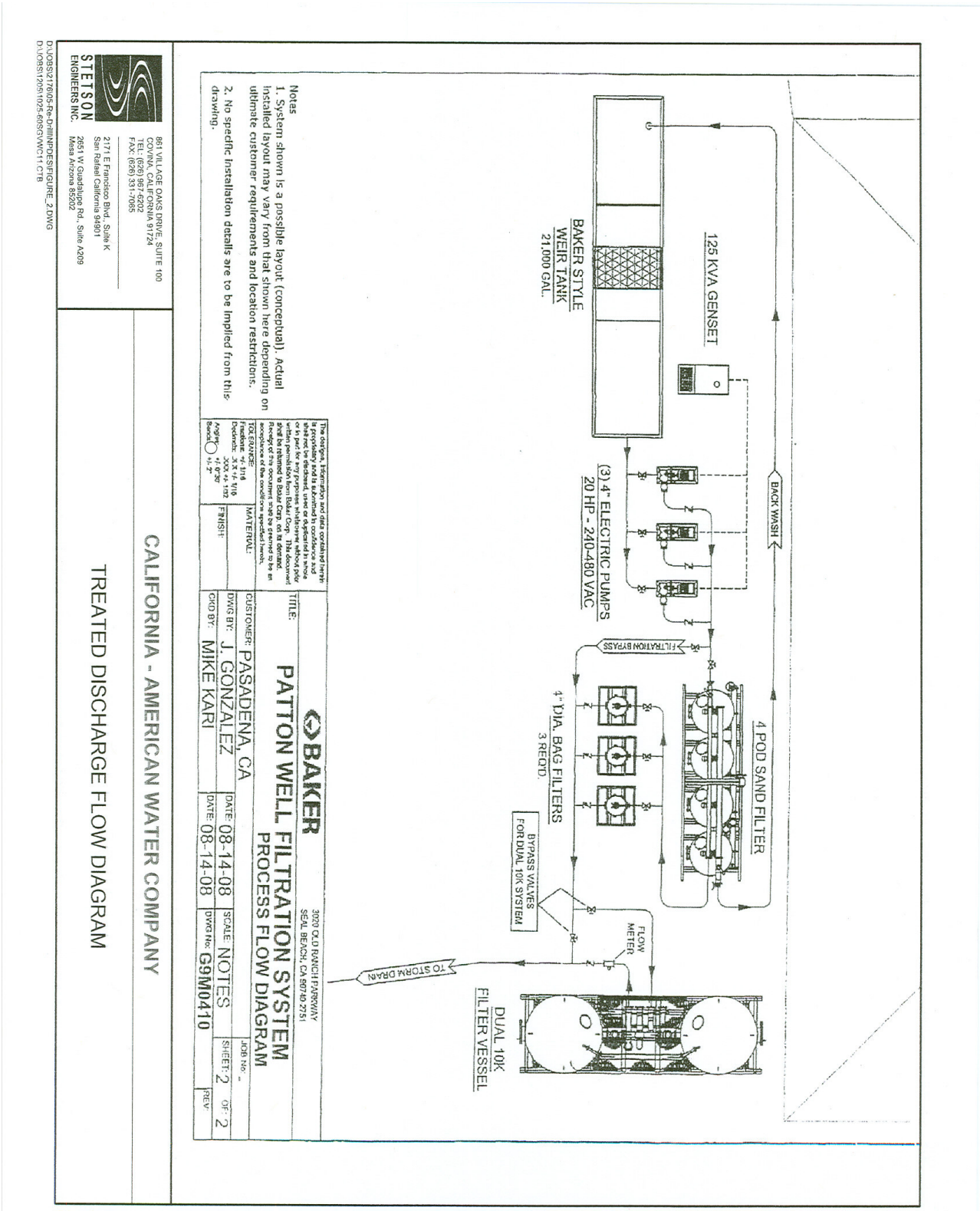
The discharge of treated groundwater is intermittent and will last within three weeks.

REUSE OF WATER

It is not economically feasible to haul the treated groundwater for off-site disposal. Due to the large volume of groundwater that will be generated within short duration, it is not feasible to discharge the water to the sanitary sewer system. There are no other feasible reuse options for the discharge. Therefore, the treated groundwater will be discharged to the storm drain in compliance with the requirements of the attached order.

FIGURE 1


DISCHARGE POINT (DP)
PATTON WELL SITE
PASADENA
SAN MARINO
SAN PASCUAL
ALHAMBRA WASH (TO RIO HONDO)
Tournament Park
Reservoir
Botanical Gardens
Art Gallery
Huntington Library
Oak Knoll
Raymond Hill
Grace Hill
Lacy Park
Pasadena City College
Caltech
Fuller Theological Seminary
Mayfield Jr Sch
McKinley Jr High Sch
Polytechnic Jr High Sch
The Hardy Sch
Allendale Sch
Blair HS
Las Flores Sch
Marengo Sch
South Pasadena Jr High Sch
Stoneman Sch
Southwestern Academy
Huntington Sch
Valentine Sch
Coolidge Sch
St. Therese Sch
Sacred Heart Retreat
Garfield Sch
Community Hospital
Water Tanks
APPROXIMATE SCALE
1" = 2000'
STETSON ENGINEERS INC.
861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
FAX: (626) 331-7065
2171 E Francisco Blvd., Suite K
San Rafael California 94901
2651 W Guadalupe Rd., Suite A209
Mesa Arizona 85202
CALIFORNIA-AMERICAN WATER COMPANY
PATTON WELL SITE AND DISCHARGE LOCATION


BACK WASH
4 POD SAND FILTER
125 KVA GENSET
BAKER STYLE
WEIR TANK
21,000 GAL.
(3) 4" ELECTRIC PUMPS
20 HP - 240-480 VAC
FILTRATION BYPASS
4" DIA. BAG FILTERS
3 REQ'D.
BYPASS VALVES
FOR DUAL 10K SYSTEM
FLOW
METER
TO STORM DRAIN
DUAL 10K
FILTER VESSEL
Notes
1. System shown is a possible layout (conceptual). Actual installed layout may vary from that shown here depending on ultimate customer requirements and location restrictions.
2. No specific installation details are to be implied from this drawing.
BAKER
3020 OLD RANCH PARKWAY
SEAL BEACH, CA 90740-2751
TITLE:
PATTON WELL FILTRATION SYSTEM
PROCESS FLOW DIAGRAM
CUSTOMER: PASADENA, CA
DWG BY: J. GONZALEZ
DATE: 08-14-08
CHD BY: MIKE KARI
DATE: 08-14-08
SCALE: NOTES
DWG No: G9M0410
JOB No: -
SHEET 2 OF 2
REV
STETSON
ENGINEERS INC.
861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
FAX: (626) 331-7065
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San Rafael California 94901
2651 W Guadalupe Rd., Suite A209
Mesa Arizona 85202
CALIFORNIA - AMERICAN WATER COMPANY
TREATED DISCHARGE FLOW DIAGRAM
D:\JOBS\217605-Re-Drill\NPDES\FIGURE_2.DWG
D:\JOBS\1205\1025-60\SGVWC11.CTB

FIGURE 2