



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

December 11, 2013

**CERTIFIED MAIL NO. 7012 3460 0000 2166 0125
RETURN RECEIPT REQUESTED**

Mr. Benjamin Lewis
Golden State Water Company
401 South San Dimas Canyon Road
San Dimas, CA 91773

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND WASTE DISCHARGE REQUIREMENTS, GOLDEN STATE WATER COMPANY, DREHER WELL NO. 1, 600 NORTH MOUNTAIN AVENUE, CLAREMONT, CALIFORNIA (NPDES NO. CAG994005, CI 10010)

Dear Mr. Lewis:

We have completed our review of your application for a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES). Based on the information provided, the proposed groundwater discharge meets the conditions to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by this Board on August 7, 2003.

Enclosed are your Waste Discharge Requirements, which also serve as your NPDES permit, consisting of Order No. R4-2003-0108 and Monitoring and Reporting Program No. CI-10010. The discharge limitations in Part E.I. of the Effluent Limitations Order No. R4-2003-0108 for the specific constituents listed in Table 1 with the enclosed Fact Sheet are applicable to your discharge. The groundwater discharge from the project flows into Thompson Creek a tributary to San Jose Creek therefore, the mineral limitations in Attachment B of the Order are applicable to your discharge. All parts of the Order applies, including but not limited to narrative effluent and receiving water limitations. Prior to starting discharge, a representative sample of the effluent shall be obtained and analyzed to determine compliance with the discharge limitations.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of coverage under this permit. All monitoring reports should be sent to the Regional Board, electronically by e-mail to losangeles@waterboards.ca.gov. When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-10010 and NPDES No. CAG994005", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

MARIA MEHRANIAN, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

320 West 4th St., Suite 200, Los Angeles, CA 90013 | www.waterboards.ca.gov/losangeles

Mr. Benjamin Lewis
Golden State Water Company
Dreher Well No. 1

December 11, 2013

- 2 -

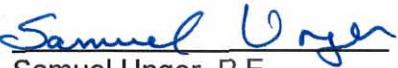
The Regional Board is implementing a paperless office system to reduce paper use, increase efficiency and provide a more effective way for our staff, the public and interested parties to view water quality documents. Therefore, please convert all regulatory documents, submissions, data and correspondence that you would normally submit to us as hard copies to a searchable Portable Document Format (PDF). Documents that are less than 10 MB should be emailed to losangeles@waterboards.ca.gov. Documents that are 10 MB or larger should be transferred to a disk and mailed to the address listed above. If you need additional information regarding electronic submittal of documents please visit the Regional Board's website listed above and navigate to Paperless Office.

To avoid future annual fees, please submit written request for termination of your enrollment under the general permit in a separate letter, when the project has been completed and the permit is no longer needed.

We are sending a copy of Order No. R4-2003-0108 only to the applicant. For those on the mailing list, please refer to the Board Order previously sent to you. A copy of the Order will be furnished to anyone who requests it, or it can be obtained at our web site address: http://www.waterboards.ca.gov/losangeles/board_decisions/adopted_orders/.

If you have any questions, please contact Alex Carlos at (213) 576-6726 or acarlos@waterboards.ca.gov.

Sincerely,


Samuel Unger, P.E.
Executive Officer

Enclosures:

Order No. R4-2003-0108
Monitoring and Reporting Program No. CI- 10010
Fact Sheet

Mr. Benjamin Lewis
Golden State Water Company
Dreher Well No. 1

December 11, 2013

- 3 -

cc: Environmental Protection Agency, Region 9, Permit Section (WTR-5)
State Water Resources Control Board, NPDES_Wastewater@waterboards.ca.gov
U.S. Army Corps of Engineers
Department of Interior, U.S. Fish and Wildlife Services, Division of Ecological Services
NOAA, National Marine Fisheries Service
California Department of Fish and Game, Marine Resources, Region 5
Gary Yamamoto, CA Dept of Public Health, Office of Drinking Water, Environmental
Branch
Los Angeles County, Dept. of Public Works, Environmental Programs Division
Los Angeles County, Dept. of Public Works, Flood Maintenance Division
Jae Kim, Tetrattech
Heather Kilgannon, Golden State Water Company

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
GOLDEN STATE WATER COMPANY
(DREHER WELL NO. 1)**

**NPDES NO. CAG994005
CI- 10010**

FACILITY ADDRESS

600 N. Mountain Avenue
Claremont, CA 91711

FACILITY MAILING ADDRESS

401 South San Dimas Canyon Rd.
San Dimas, CA 91773

PROJECT DESCRIPTION:

Golden State Water Company (Discharger) proposes to discharge groundwater generated from the pumping of Dreher Well No. 1, which is located at 600 North Mountain Avenue, Claremont, California (see Figure 1). Dreher Well No. 1 has been off-line since 1999, so there is no current water quality date. Up to 100,000 gallons per day of groundwater will be discharged from Dreher Well No. 1 to collect water quality samples. Discharge at this high rate of flow is necessary to properly test the well. The discharge flows to Thompson Creek, a tributary to San Jose Creek.

VOLUME AND DESCRIPTION OF DISCHARGE:

Up to 100,000 gallons per day of groundwater will be discharged to a nearby storm water catch basin located at Discharge Point M-001 (Latitude: N34° 5' 58", Longitude: W117° 43' 44"), which flows to Thompson Creek, thence to San Jose Creek, a water of the United States. The site location is shown in Figure 1.

APPLICABLE EFFLUENT LIMITATIONS:

Based on the information provided, the analytical data does not show 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 of Order No. R4-2003-0108 are not applicable to your discharge. Effluent limitations contained in Section E.1. are applicable to the discharge, as listed in Table 1 below. The discharge flows to Thompson Creek, a tributary to San Jose Creek therefore, the mineral effluent limitations in Attachment B 8.e. of Order No. R4-2003-0108 are applicable to the discharge. The Discharger must comply with all other parts of the Order, including, but not limited, to narrative effluent and receiving water limitations.

Table 1: The Discharger is required to comply with these effluent limitations during its enrollment under Order No. R4-2003-0108.

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	---
Total Dissolved Solids	mg/L	750	---
Sulfate	mg/L	300	---
Chloride	mg/L	150	---
Boron	mg/L	1.0	---
Nitrogen (nitrate-nitrogen + nitrite-nitrogen)	mg/L	8	---

FREQUENCY OF DISCHARGE:

The discharge from Dreher Well No. 1 will last one day.

REUSE OF WATER:

The discharger submitted a feasibility study to the Regional Board analyzing the water conservation re-use, and/or alternative disposal options for the discharge. The project area and the immediate vicinity have landscaped areas that may require irrigation using the groundwater discharge. However, the City of Claremont (landowner) will not permit this type of discharge onto their grounds. Discharge to the sanitary sewer system is not feasible due to high rate of discharge. Since there are no feasible reuse options, the groundwater will be discharged to a storm drain that discharges to Thompson Creek in compliance with the requirements of the attached Order R4-2003-0108

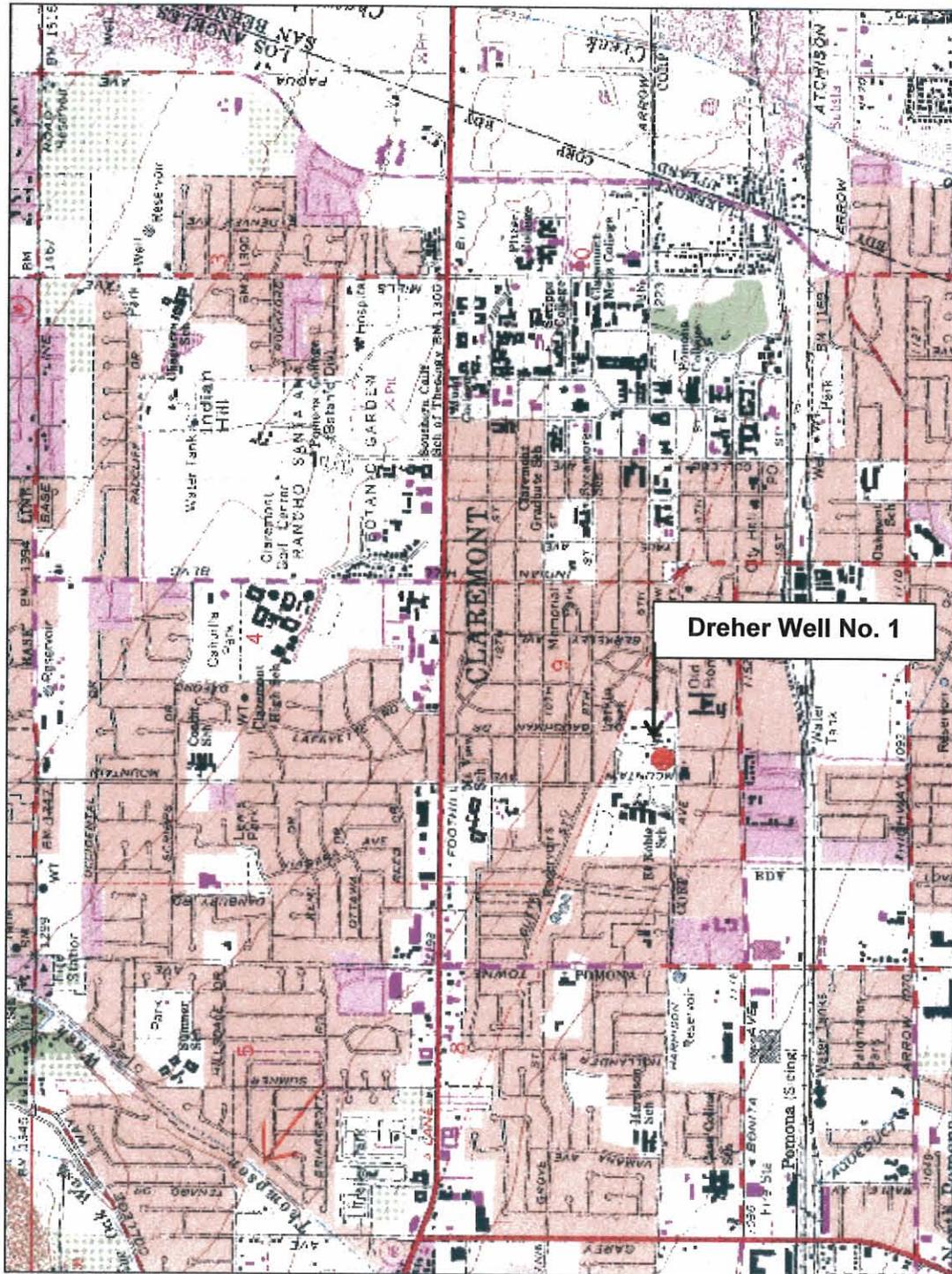


Figure 1. Site Location Map

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

**MONITORING AND REPORTING PROGRAM NO. CI-10010
FOR
GOLDEN STATE WATER COMPANY
DREHER WELL NO. 1**

(NPDES NO. CAG994005 SERIES NO. 137)

I. REPORTING REQUIREMENTS

- A. The discharger shall implement this monitoring program on the effective date of this permit. The discharger shall submit monitoring reports to the Regional Board by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January - March	May 15
April - June	August 15
July - September	November 15
October - December	February 15

- B. The first monitoring report under this Program is due by May 15, 2014. If there is no discharge during any reporting period, the report shall so state.
- C. All monitoring reports shall include the discharge limitations in the Order, tabulated analytical data, the chain of custody form, and the laboratory report (including but not limited to date and time of sampling, date of analyses, method of analysis and detection limits).
- D. Each monitoring report shall contain a separate section titled "Summary of Non-compliance" which discusses the compliance record and corrective action taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
- E. Before commencing a new discharge, a representative sample of the effluent shall be collected and analyzed for all the constituents listed in the Fact Sheet and the test results must meet all applicable limitations of Order No. R4-2003-0108.

II. SAMPLE COLLECTION REQUIREMENTS (AS APPROPRIATE)

- A. Daily samples shall be collected each day.
- B. Weekly samples shall be collected on a representative day of each week.
- C. Monthly samples shall be collected on a representative day of each month.
- D. Quarterly samples shall be collected in February, May, August, and November.
- E. Semi-annual samples shall be collected in May and November.
- F. Annual samples shall be collected in November.

III. EFFLUENT MONITORING REQUIREMENTS

- A. Sampling station(s) shall be established at the discharge point and shall be located where representative samples of the effluent can be obtained. Provisions shall be made to enable visual inspections before discharge. In the event of presence of oil sheen, debris, and/or other objectionable materials or odors, discharge shall not commence until compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.
- B. If monitoring result indicates an exceedance of a limit contained in Order R4-2003-0108, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented and full compliance with the requirements has been ascertained.
- C. In addition, as applicable, following an effluent limit exceedance, the discharger shall implement the following accelerated monitoring program:
1. Monthly monitoring shall be increased to weekly monitoring,
 2. Quarterly monitoring shall be increased to monthly monitoring,
 3. Semi-annually monitoring shall be increased to quarterly, and
 4. Annual monitoring shall be increased to semi-annually.

If three consecutive accelerated monitoring events demonstrate full compliance with effluent limits, the discharger may return to the regular monitoring frequency, with the approval of the Executive Officer of the Regional Board.

- D. The following shall constitute the discharge monitoring program:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total Waste Flow	gal/day	recorder	continuously ¹
pH	pH unit	grab	once per discharge event ²
Temperature	°F	grab	once per discharge event ²
Turbidity	NTU	grab	once per discharge event ²
Total Suspended Solids	mg/L	grab	once per discharge event ²
BOD ₅ @ 20 °C	mg/L	grab	once per discharge event ²
Settleable Solids	mg/L	grab	once per discharge event ²
Residual chlorine	mg/L	grab	once per discharge event ²
Total Dissolved Solids	mg/L	grab	once per discharge event ²
Sulfate	mg/L	grab	once per discharge event ²
Chloride	mg/L	grab	once per discharge event ²
Boron	mg/L	grab	once per discharge event ²

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Nitrogen	mg/L	grab	once per discharge event ²
Acute Toxicity	% survival	grab	annually

- ¹ Record the monthly total flow and report the calculated daily average flow and monthly flow in the quarterly reports.
- ² If discharge is continuous for more than one month, then the minimum frequency of analysis becomes monthly.

IV. EFFLUENT TOXICITY TESTING

- A. The discharger shall conduct acute toxicity testing tests on 100% effluent grab samples by methods specified in 40 CFR Part 136 which cites USEPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms*, October 2002, (EPA/821-R-02-012) or a more recent edition. Submission of bioassay results should include the information noted on pages 109-113 of the EPA/821-R-02-012 document.
- B. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for brackish discharges. The method for topsmelt is found in USEPA's *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, First Edition*, August 1995, (EPA/600-R-95/136).
- C. If the results of the toxicity test yield a survival of less than 90%, then the frequency of analyses shall increase to monthly until at least three test results have been obtained and full compliance with effluent limitations has been demonstrated, after which the frequency of analyses shall revert to annually. Results of toxicity tests shall be included in the first monitoring report following sampling.

V. GENERAL PROVISIONS FOR REPORTING

- A. The discharger shall inform this Regional Board 24 hours before the start of the discharge.
- B. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be provided with the first monitoring report and each time a new and/or renewal is obtained from ELAP.

- C. Samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. Proper chain of custody procedures must be followed and a copy shall be submitted with the report.
- D. As required in part H of Order No. R4-2003-0108, the monitoring report shall specify the USEPA analytical method used, the Method Detection Limit and the Minimum Level for each pollutant.

VI. COMPLIANCE DETERMINATION (AS APPLICABLE)

- A. Compliance with single constituent effluent limitation - If the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (see Monitoring and Reporting Requirements Section H.4. of Order R4-2003-0108), then the Discharger is out of compliance.
- B. Compliance with monthly average limitations - In determining compliance with monthly average limitations, the following provisions shall apply to all constituents:

- a. If the analytical result of a single sample, monitored monthly, quarterly, semi-annually, or annually, does not exceed the monthly average limit for that constituent, the Discharger has demonstrated compliance with the monthly average limit for that month.
- b. If the analytical result of a single sample, monitored monthly, quarterly, semi-annually, or annually, exceeds the monthly average limit for any constituent, the Discharger shall collect four additional samples at approximately equal intervals during the month. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later.

When all sample results are greater than or equal to the reported Minimum Level (see Monitoring and Reporting Requirements Section H.4. of Order R4-2003-0108), the numerical average of the analytical results of these five samples will be used for compliance determination.

When one or more sample results are reported as "Not-Detected (ND)" or "Detected, but Not Quantified (DNQ)" (see Monitoring and Reporting Requirements Section H.4. of Order R4-2003-0108), the median value of these four samples shall be used for compliance determination. If one or both of the middle values is ND or DNQ, the median shall be the lower of the two middle values.

- c. In the event of noncompliance with a monthly average effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the monthly average effluent limitation has been demonstrated:

- d. If only one sample was obtained for the month or more than a monthly period and the result exceed the monthly average, then the Discharger is in violation of the monthly average limit.
- C. Compliance with effluent limitations expressed as a sum of several constituents - If the sum of the individual pollutant concentrations is greater than the effluent limitation, then the Discharger is out of compliance. In calculating the sum of the concentrations of a group of pollutants, consider constituents reported as ND or DNQ to have concentrations equal to zero, provided that the applicable ML is used.
- D. Compliance with effluent limitations expressed as a median – in determining compliance with a median limitation, the analytical results in a set of data will be arranged in order of magnitude (either increasing or decreasing order); and
 - a. If the number of measurements (n) is odd, then the median will be calculated as $= X_{(n+1)/2}$ or
 - b. If the number of measurements (n) is even, then the median will be calculated as $= [X_{n/2} + X_{(n/2)+1}] / 2$, i.e. the midpoint between the n/2 and n/2+1 data points. ,
- E. In calculating mass emission rates from the monthly average concentrations, use one half of the method detection limit for "Not Detected" (ND) and the estimated concentration for "Detected, but Not Quantified" (DNQ) for the calculation of the monthly average concentration. To be consistent with section VI.C., if all pollutants belonging to the same group are reported as ND or DNQ, the sum of the individual pollutant concentrations should be considered as zero for the calculation of the monthly average concentration.

VII. NOTIFICATION

- A. The discharger shall notify the Executive Officer in writing prior to discharge of any chemical which may be toxic to aquatic life. Such notification shall include:
 - 1. Name and general composition of the chemical,
 - 2. Frequency of use,
 - 3. Quantities to be used,
 - 4. Proposed discharge concentrations and,
 - 5. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

- B. The Discharger shall notify this Regional Water Board by calling Alex Carlos at (213) 576-6726 and by email to acarlos@waterboards.ca.gov of any toxicity exceedance of the limit or trigger within 24 hours of receipt of the results followed by a written report within 14 calendar days of receipt of the results. The verbal or electronic notification shall include the exceedance and the plan the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

VIII. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted by the Executive Officer to a less frequent basis if the discharger makes a request and the request is justified by statistical trends of monitoring data submitted. However, monitoring frequency may also increase based on site-specific conditions.

Ordered by:


Samuel Unger
Executive Officer

Date: December 11, 2013