
Los Angeles Regional Water Quality Control Board

June 27, 2014

CERTIFIED MAIL No. 7013 1090 0002 7172 5782
RETURN RECEIPT REQUESTED

Mr. K. Eric Leung
Long Beach Water Department
1800 E. Wardlow Road
Long Beach, CA 90807

Dear Mr. Leung:

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND WASTE DISCHARGE REQUIREMENTS—LONG BEACH WATER DEPARTMENT, NORTH LONG BEACH 12 WELL, 4505 CHEERY AVENUE, LONG BEACH, CALIFORNIA (NPDES NO. CAG994005, CI-10057)

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 discharge of groundwater 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-10057. The discharge limitations in Part E.1 of Order No. R4-2003-0108 are applicable to your discharge. Discharge from the project drains to the Los Angeles River between Figueroa Street and L. A. River Estuary; therefore, the discharge limitations in Attachment B.7.d. are applicable to your discharge. All other parts of the Order apply, 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, ATTN: Information Technology Unit. When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-10057 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.

Mr. K. Eric Leung
Long Beach Water Department

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June 27, 2014

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 Gensen Kai at (213) 576-6651.

Sincerely,



Samuel Unger, P.E.
Executive Officer

Enclosures:

Order No. R4-2003-0108
Monitoring and Reporting Program No. CI-10057
Fact Sheet

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
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
Los Angeles County, Department of Public Works, Environmental Programs Division
Los Angeles County, Department of Health Services
City Manager, City of Long Beach
Jae Kim, Tetrattech

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
LONG BEACH WATER DEPARTMENT
(NORTH LONG BEACH 12 WELL)**

**NPDES NO. CAG994005, SERIES NO. 139
CI-10057**

FACILITY ADDRESS

4505 Cheery Avenue
Long Beach, California

FACILITY MAILING ADDRESS

1800 E. Wardlow Road
Long Beach, CA 90807

PROJECT DESCRIPTION:

The Long Beach Water Department (Discharger) plans to rehabilitate its municipal water supply well designated as North Long Beach 12 Well located at 4505 Cheery Avenue in the City of Long Beach (see Figure 1). The Discharger will provide potable water from this well to its service area. The well will be redeveloped and pump tested as part of the rehabilitation. The Discharger proposes to discharge the groundwater generated from the testing and development phases of the project to surface water.

VOLUME AND DESCRIPTION OF DISCHARGE:

Up to 0.9 million gallons per day of groundwater will be discharged to a nearby storm water catch basin Discharge Point 001 (Latitude: 33° 50' 24", Longitude: 118° 12' 11") which flows to Los Angeles River between Figueroa Street and L. A. River Estuary, a water of the United States. The Discharger will complete the project within about 2 weeks from the commencement of the discharge activity.

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 are not applicable to your discharge. The discharge flows to Los Angeles River between Figueroa Street and L. A. River Estuary. Therefore, the discharge limitations in Attachment B.7.d. are applicable to the discharge.

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 | --- |
| TDS | mg/L | 1500 | |
| Sulfate | mg/L | 350 | |
| Chloride | mg/L | 190 | |
| Nitrate-nitrogen plus nitrite-nitrogen | mg/L | 8 | |

FREQUENCY OF DISCHARGE:

The discharge from the facility will be intermittent for about 2 weeks.

REUSE OF WATER:

The Discharger submitted a feasibility study to the Regional Board analyzing the water conservation, reuse, and/or alternative disposal options for the discharge. The Discharger found that transporting the groundwater off-site for disposal is not economically feasible. The Discharger also found that discharging the groundwater to the sanitary sewer system is not feasible. The project site is adjacent to Cherry Park. Staff at the City's Department of Parks, Recreation & Marine was consulted for the potential to use water for irrigating the part lawn. The park maintenance operation staff of the City has concerns on the potential interruption of the park service to the community. Since alternative disposal methods are not feasible, the Discharger proposes to discharge the groundwater to a nearby storm drain that discharges to the Los Angeles River between Figueroa Street and L. A. River Estuary in compliance with the requirements of the attached Order No. R4-2003-0108.

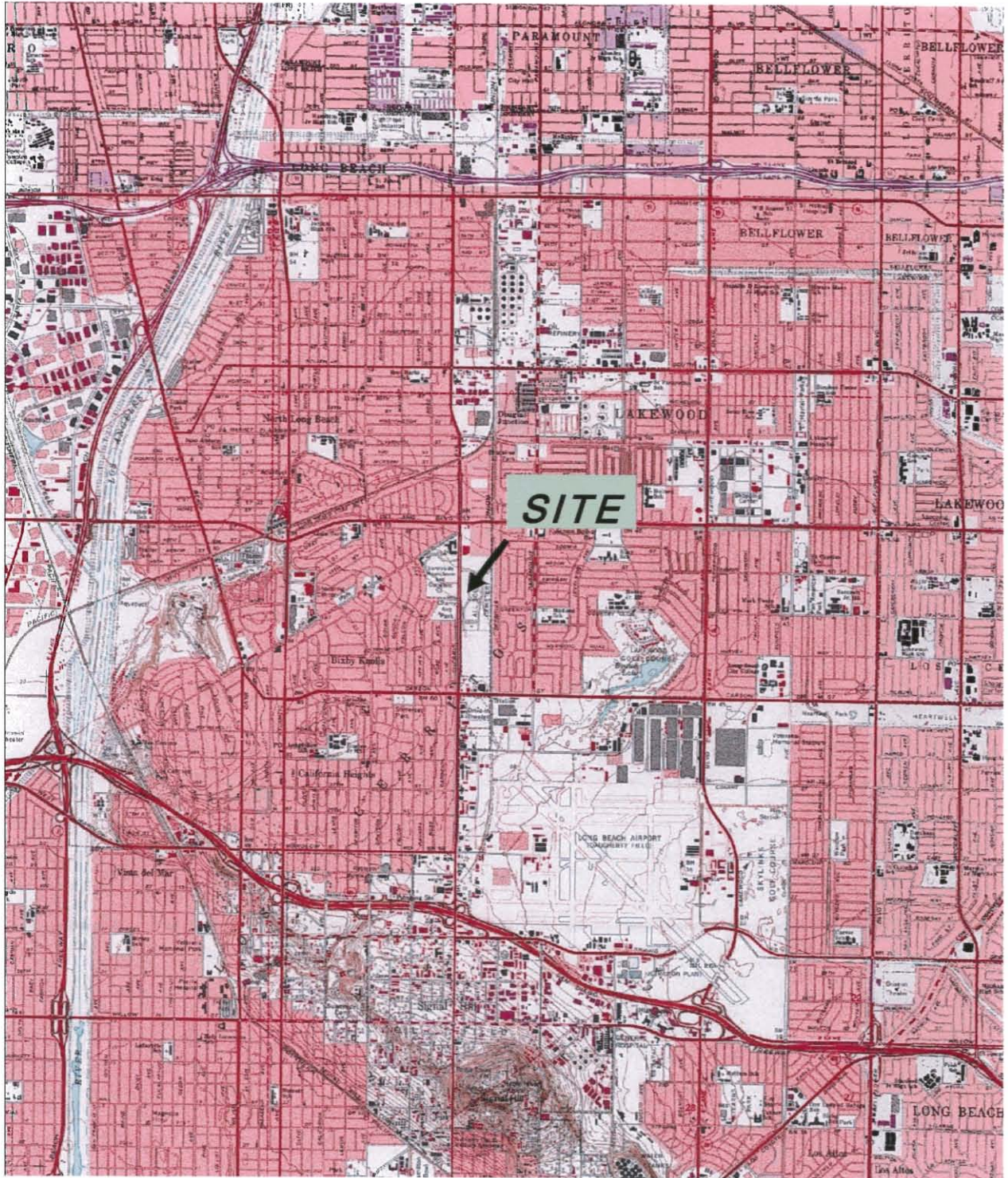


Figure 1. Site Location

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

**MONITORING AND REPORTING PROGRAM NO. CI-10057
FOR
LONG BEACH WATER DEPARTMENT
(NORTH LONG BEACH 12 WELL)
(NPDES NO. CAG994005, SERIES NO. 139)**

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 August 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 indicate 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 Discharger shall monitor the effluent at Discharge Point M-001 as specified in Table 2, below. *Representative effluent samples shall be collected after all treatment process (if any) while discharging and before contact or mixing with receiving water or other waters and/or dilution with any other water or waste.*

| Constituent | Unit | Sample Type | Minimum Frequency of Analysis |
|------------------------|------------|-------------|-------------------------------|
| Flow | gal/day | totalizer | Continuously* |
| pH | pH units | grab | once per discharge event** |
| Temperature | °F | grab | once per discharge event** |
| Total Suspended Solids | mg/L | grab | once per discharge event** |
| Turbidity | NTU | grab | once per discharge event** |
| BOD ₅ 20°C | mg/L | grab | once per discharge event** |
| Settleable Solids | ml/L | grab | once per discharge event** |
| Residual Chlorine | mg/L | grab | once per discharge event** |
| TDS | mg/L | grab | once per discharge event** |
| Sulfate | mg/L | grab | once per discharge event** |
| Chloride | mg/L | grab | once per discharge event** |
| Boron | mg/L | grab | once per discharge event** |
| Nitrogen | mg/L | grab | once per discharge event** |
| Acute Toxicity | % survival | grab | annually |

* Record the monthly total flow and report the calculated daily average flow and monthly flow in the quarterly and annual reports, as appropriate.

** If the discharge event for a well or site is continuous or intermittent for more than 30 days, 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 yields 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 Public Health 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 $= [X_{n/2} + X_{(n/2)+1}]$, 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 the Regional Board via telephone and/or fax within 24 hours of noticing an exceedance above the effluent limits in Order No. R4-2003-0108. The discharger shall provide to the Regional Board within 14 days of observing the exceedance a detailed statement of the actions undertaken or proposed that will bring the discharge into full compliance with the requirements and submit a timetable for correction.

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, P.E.
Executive Officer

Date:

June 27, 2014