

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

**MONITORING AND REPORTING PROGRAM CI. No. 7020
FOR
BMIF/BSLF RANCHO MALIBU LTD. PARTNERS
(ENCINAL CANYON WATER RECYCLING PLANT)
(File No. 90-069)**

This Monitoring and Reporting Program (MRP) No. CI 7020 is issued pursuant to California Water Code section 13267, which authorizes the Regional Water Quality Control Board, Los Angeles Region, (Regional Board) to require a person who discharges waste that could affect the quality of the waters of the state to furnish technical or monitoring reports. The reports required herein are necessary to assure compliance with Waste Discharge Requirements and Water Recycling Requirements Order No. R4-2013-xxxx (WDR/WRRs) and to protect the waters of the state and their beneficial uses. The evidence that supports the need for the reports is set forth in the WDR/WRRs and the Regional Board record.

I. REPORTING REQUIREMENTS

BMIF/BSLF II RANCHO MALIBU LTD. PARTNERS (hereinafter Discharger) shall implement this monitoring program on the effective date of WDR/WRR Order No. R4-2013-xxxx. The first monitoring report under this program, from February to March 2013, shall be submitted by May 15, 2013. If there is no discharge, during any reporting period, the report shall so state.

- A. The first quarterly monitoring report under this MRP is due May 15, 2013. Weekly and monthly sampling results shall be submitted quarterly by the dates below.

<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. If there is no discharge during any reporting period, the report shall so state.
- C. By March 1st of each year, beginning in the year of Plant startup, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge/water recycling requirements.
- D. The required reports shall be submitted to the Regional Board electronically, and to the California Department of Public Health, Drinking Water Field Operations, Los Angeles Region (CDPH).
- E. The Discharger shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, including electronic data format (EDF) groundwater monitoring data, discharge location

BMIF/BSLF II Rancho Malibu Ltd.
Monitoring and Reporting Program No. CI 7020

data, and pdf monitoring reports to the State Water Resources Control Board GeoTracker database under Global ID WDR100001505. The monitoring data shall be submitted to the CDPH according to their requirements.

- F. Laboratory analyses – all chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the Department of California Public Health Services Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time a new and/or renewal certification is obtained from ELAP.
- G. The method limits (MLs) employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. The Discharger shall submit a list of the analytical methods employed for each test and the associated laboratory quality assurance/quality control (QA/QC) procedures upon request by the Executive Officer.
- H. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136. All QA/QC samples must be run on the same dates when samples were actually analyzed. At least once a year, the Discharger shall maintain and update a list of the analytical methods employed for each test and the associated laboratory QA/QC procedures. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff.
- I. Each monitoring report must affirm in writing that “All analyses were conducted at a laboratory certified for such analyses by the California Department of Public Health, and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program.” Proper chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report.
- J. Each monitoring report shall contain a separate section titled “Summary of Non-Compliance” which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.
- K. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of those actions.
- L. The Discharger shall maintain all records of sampling and analytical results which include date, exact place, time of sampling, dates analyses performed, analyst's name, analytical techniques used, and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be

Rancho Malibu
Monitoring and Reporting Program No. CI 7020

extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

- M. If the Discharger performs analyses on any effluent more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the report. Those results shall also be reflected in the calculation of the average values used in demonstrating compliance with average effluent limitations.
- N. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.
- O. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report. In addition, if effluent or any necessary groundwater monitoring programs have not yet been implemented, a short description of the status of both shall also be included.
- P. The annual report shall also include any updates or changes to documents submitted during the first year after approval of Order R4-2013-xxxx.

II. WATER QUALITY MONITORING REQUIREMENTS

A. Influent Monitoring

- 1. Monitoring Point: The flow influent to the treatment system shall be measured daily and reported quarterly.
- 2. Potable water: The potable flow used for irrigation at reclaimed water spray areas shall be measured daily and reported quarterly.

B. Effluent Monitoring

- 1. Monitoring Points: The effluent shall be monitored at Monitoring Points (1) after treatment and before disinfection, (2) as the effluent leaves the disinfection system, and (3) before discharge to the recycled/reclaimed distribution system.
 - a) Turbidity shall be measured at Monitoring Point 1.
 - b) All effluent limits shown on Table 1 in WDR/WRR Order No. R4-2013-xxxx and MRP Table 1 shall be measured at Monitoring Point 2.
 - c) Total coliform, as described in WDR/WRR Order No. R4-2013-xxxx, shall also be sampled at Monitoring Point 3, before discharge from the irrigation storage tanks, to provide evidence of compliance when effluent is stored.

BMIF/BSLF II Rancho Malibu Ltd.
Monitoring and Reporting Program No. CI 7020

2. Effluent flows at Monitoring Point 2 shall be measured daily and reported quarterly, except that coliform is sampled weekly and reported quarterly.
3. The effluent produced, stored and recycled shall be recorded daily and reported quarterly.
4. The following shall constitute the effluent monitoring program:

Table 1

Constituent	Units¹	Type of Sample⁴	Minimum Frequency of Analysis
Total Flow	gal/day	continuous	daily
pH	pH units	grab	monthly
BOD ₅ 20° C	mg/L	24-Hour Composite	weekly/monthly ⁸
Total Suspended Solids	mg/L	24-Hour Composite	weekly/monthly ⁸
Turbidity ⁴	NTU	continuous	daily/weekly ⁵
Total Coliform	MPN/100mL	grab	daily/weekly ⁵
Fecal Coliform	MPN/100mL	grab	daily/weekly ⁵
Ecoli	MPN/100mL	grab	daily/weekly ⁵
Oil and Grease	mg/L	grab	monthly
Total Dissolved Solids	mg/L	grab	monthly/quarterly ⁷
Chloride	mg/L	grab	monthly/quarterly ⁷
Residual Chlorine	mg/L	continuous	weekly
Boron	mg/L	grab	monthly/quarterly ⁷
Sulfate	mg/L	grab	monthly/quarterly ⁷
Nitrate-N plus Nitrite-N	mg/L	grab	weekly/monthly ⁶
Nitrate-N	mg/L	grab	weekly/monthly ⁶
Nitrite-N	mg/L	grab	weekly/monthly ⁶
MBAS	mg/L	grab	weekly/monthly ⁶
Constituents listed in A-1 to A-7 ²	various	grab	annually
CECs ²	various	grab	annually

1) mg/L is milligrams per liter, gal/day is gallons per day, NTU is nephelometric units are turbidity units, µg/L is micrograms per liter and MPN/100 mL is most probable number per 100 milliliters.

2) See Constituents listed in attachment A-1 through A-7. See A7 for Priority Pollutants and Attachment B for CECs in WDR/WRR R4-2013-XXXX. Monitoring for these constituents is a way of addressing issues of public perception about the safety of recycled water.

3) Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. When an automatic composite sampler is not used, composite sampling shall be done as follows: If the duration of the discharge is equal to or less than 24 hours but greater than eight (8) hours, at least eight (8) flow-weighted samples shall be obtained during the discharge period and composited. For discharge duration of less than eight (8) hours, individual 'grab' sample may be substituted.

4) Turbidity is the only constituent to be measured at both Monitoring Point 1, before disinfection and Monitoring Point 2, after treatment.

5) Daily for 12 weeks after start-up; then weekly.

6) Weekly for 12 weeks after start-up; then monthly.

7) Monthly for 3 months after start-up; then quarterly.

Rancho Malibu
Monitoring and Reporting Program No. CI 7020

8) Weekly for 1 month after start-up; then monthly.

C. Receiving Water Monitoring

1. In the event that the effluent from the treatment plant exceeds the effluent limits specified in Table 1 of WDR/WRR Order No. R4-2013-xxxx, a groundwater monitoring plan shall be submitted. The groundwater monitoring plan shall be designed to evaluate impacts of wastewater.
2. After the groundwater monitoring plan is approved by the Executive Officer and installation of upgradient and downgradient monitoring wells, lysimeters or piezometers in the spray disposal area has been completed, the following requirements shall apply;
 - i. Within 30 days after installation of the monitoring points, an installation report including a scaled plot plan, boring logs, water quality data, and as built construction diagrams shall be submitted to the Regional Board.
 - ii. The report must be prepared by, or under the direction of, a California Registered Geologist, or Certified Engineering Geologist, or a California Registered Civil Engineer with appropriate experience in hydrogeology.
 - iii. The Discharger shall establish baseline water quality from all monitoring points. The Discharger shall demonstrate that the discharge from the wastewater treatment plant does not contribute to the deterioration of groundwater quality.
3. The following shall constitute the groundwater monitoring program:

Table 2

Constituents	Units	Type	Minimum Frequency
Total Dissolved Solids	mg/L	grab	quarterly
Sulfate	mg/L	grab	quarterly
Chloride	mg/L	grab	quarterly
Boron	mg/L	grab	quarterly
Nitrate-N	mg/L	grab	quarterly
Nitrite-N	mg/L	grab	quarterly
Nitrate Nitrogen plus Nitrite Nitrogen	mg/L	grab	quarterly
Total Coliform	MPN/mL	grab	quarterly

D. Provisions Reporting

1. Bypass Events: Each pumping event must be documented in the quarterly monitoring report, accompanied by the date, time, volume and documentation of written notification of the Executive Officer.
2. Odors: Odor complaints shall be reported along with documentation of the operator response. Multiple odor complaints during a quarter are considered indicative of a preventable nuisance, and should be documented in the quarterly report with the specific technical measures taken by the Discharger to prevent a reoccurrence.

III. GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

All chemical, bacteriological, and toxicity analysis shall be conducted at a laboratory certified for such analysis by the California Department of Public Health Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analysis must follow methods approved by the United States Environmental Protection Agency (USEPA), and the laboratory must meet USEPA Quality Assurance/Quality Control criteria. Analytical data reported as "less than" or below the detection limit for the purpose of reporting compliance with limitations, shall be reported as "less than" a numerical value or "below the detection limit" for that particular analytical method (also giving the numerical detection limit).

IV. GENERAL PROVISIONS FOR REPORTING

The Discharger shall identify all instances of non-compliance and shall submit a statement of the actions undertaken, or proposed, that will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction. The quarterly reports shall contain the following information:

- A. A statement relative to compliance with discharge specifications during the reporting period; and
- B. Results of daily observations in the disposal area for any overflow or surfacing of waste, and/or other visible effects of the waste discharge.

V. MONITORING AND REPORTING REQUIREMENTS

- A. Monitoring shall be used to determine compliance with the requirements of Order R4-2013-xxxx. The Discharger must include a map, at a scale of 1 inch equals 1,200 feet or less, that clearly identifies sample locations.
- B. Monitoring Requirements: Monitoring for water quality parameters in the effluent shall take place according to the following:
 1. Sampling protocols (specified in 40 CFR part 136 or AWWA standards where appropriate) and chain of custody procedures.

Rancho Malibu
Monitoring and Reporting Program No. CI 7020

2. The names and addresses of the laboratory or laboratories which conducted the analyses. Include copy or copies of laboratory certifications by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) every year or when the Discharger change the laboratory.
3. Analytical test methods used and the corresponding detection limits for reporting purposes. Please see the CDPH's website at <http://www.DPH.ca.gov/certlic/drinkingwater/Pages/UCMR.aspx> and <http://www.DPH.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.aspx> for unregulated and regulated chemicals, respectively.
4. Quality assurance and control measures for the monitoring program shall include the following.
 - a. The samples shall be analyzed using analytical methods described in 40 CFR part 136; or where no methods are specified for a given pollutant, by commercially available methods approved by the USEPA. The Discharger shall select the analytical methods that provide Detection Levels for the Purpose of Reporting (DLRs) lower than the limits prescribed in this Order. For those constituents that have drinking water notification levels (NLs) and/or public health goals (PHGs), the DLRs shall be equal to or lower than either the NLs or the PHGs (note this is not always feasible). Every effort should be made to analyze chemicals with NLs in Attachment A-6 using the least DLR possible.
 - b. The Discharger shall instruct their laboratories to establish calibration standards so that the DLRs (or its equivalent if there is a different treatment of samples relative to calibration standards) are the lowest calibration standard. At no time shall the Discharger use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
5. Upon request by the Discharger, the Regional Board, in consultation with the USEPA and the State Board Quality Assurance Program, may establish DLRs, in any of the following situations:
 - a. When the pollutant has no established method under 40 CFR 136 (revised May14, 1999, or subsequent revision);
 - b. When the method under 40 CFR 136 for a pollutant has a DLR higher than the limit specified in this Order; or
 - c. When the Discharger agrees to use a test method that is more sensitive than those specified in 40 CFR part 136 and is commercially available.
6. Samples of final effluent must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All QA/QC analyses must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by the Executive Officer. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the quarterly report.

BMIF/BSLF II Rancho Malibu Ltd.
Monitoring and Reporting Program No. CI 7020

7. For all bacterial analyses, sample dilutions should be performed so the range of values extends from 1 to 800. The detection methods used for each analysis shall be reported with the results of the analyses.
8. For unregulated chemical analyses, the Discharger shall select methods according to the following approach:
 - a. Use drinking water methods, if available
 - b. Use CDPH-recommended methods for unregulated chemicals, if available;
 - c. If there is no CDPH-recommended drinking water method for a chemical, and more than a single EPA-approved method is available, use the most sensitive of the EPA-approved methods;
 - d. If there is no EPA-approved method for a chemical, and more than one method is available from the scientific literature and commercial laboratory, after consultation with CDPH, use the most sensitive method;
 - e. If no approved method is available for a specific chemical, the Discharger's laboratory may develop or use its own methods and should provide the analytical methods to CDPH for review. Those methods may be used until CDPH-recommended or EPA-approved methods are available.
 - f. If the only method available for a chemical is for wastewater analysis (e.g., a chemical listed as a priority pollutant only), sample and analyze for that chemical in the tertiary treated and disinfected effluent immediately to increase the likelihood of detection. Use this approach until the Discharger's laboratory develops a method for the chemical in drinking water, or until a CDPH-recommended or EPA-approved drinking water method is available.
 - g. The Discharger is required to inform the Regional Board, in event that (d), (e), or (f) is occurring.

VI. WASTE HAULING REPORTING

In the event that waste sludge, septage, or other wastes are hauled offsite, the name and address of the hauler shall be reported, along with types and quantities hauled during the reporting period and the location of final point of disposal. In the event that no wastes are hauled during the reporting period, a statement to that effect shall be submitted in the quarterly monitoring report.

VII. OPERATION AND MAINTENANCE REPORTING

The Discharger shall file a technical report for approval by the Executive Officer of this

Rancho Malibu
Monitoring and Reporting Program No. CI 7020

Regional Board before discharge, relative to the operation and maintenance program for this facility and annually thereafter. The information to be contained in the report shall include, at a minimum, the following:

- A. The name and address of the person or company responsible for the operation and maintenance of the facility;
- B. Type of maintenance (preventive or corrective action performed);
- C. Frequency of maintenance, if preventive;
- D. Planned maintenance pumping out of all tanks; and
- E. Other material as specified in this WDR/WRR such as Operation and Maintenance reports.

VIII. CERTIFICATION STATEMENT

Monitoring reports shall be signed by either the principal Executive Officer or ranking elected official. A duly authorized representative of the aforementioned signatories may sign documents if:

- A. The authorization is made in writing by the signatory;
- B. The authorization specifies the representative as either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the ___ day of _____, 20___,

at _____.

_____(Signature)

_____(Title)"

IX. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted to a less frequent basis or parameters dropped by the Executive Officer if the Discharger makes a request and the Executive Officer determines that the request is adequately supported by statistical trends in the monitoring data submitted.

BMIF/BSLF II Rancho Malibu Ltd.
Monitoring and Reporting Program No. CI 7020

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by _____
Samuel Unger, P.E.
Executive Officer

Date: February 7, 2013