27 September 2018

Drew Lessard, Area Manager
U.S. Dept. of the Interior Bureau of Reclamation
Mid Pacific Region, Central California Office
7794 Folsom Dam Road
Folsom, California 95814

CERTIFIED MAIL
7017 3040 0000 4342 4694

REVISED NOTICE OF APPLICABILITY 2014-0153-DWQ-R5254 AND MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-R5254; UNITED STATES DEPARTMENT OF THE INTERIOR (USDI), BUREAU OF RECLAMATION; NEW MELONES LAKE TUTTLETOWN RECREATION AREA WASTEWATER TREATMENT SYSTEM; TUOLUMNE COUNTY

On 21 June 2018, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) issued Notice of Applicability 2014-0153-DWQ-R5254 with Monitoring and Reporting Program (MRP) No. 2014-0153-DWQ-R5254 for the USDI, Bureau of Reclamation (Discharger), New Melones Lake Tuttletown Recreation Area (Facility), which enrolled the Facility under State Water Resources Control Board Order WQ-2014-0153-DWQ *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order). Certain monitoring requirements were not included in MRP 2014-0153-DWQ-R5254 that are necessary to characterize the Facility's operation and discharge to determine compliance with the General Order and the Notice of Applicability. A revised MRP for the Facility is enclosed. The following revisions were made to MRP 2014-0153-DWQ-R5254:

- Adding annual influent wastewater monitoring for biochemical oxygen demand (BOD), total nitrogen, and electrical conductivity;
- Adding monthly electrical conductivity pond monitoring; and
- Adding monthly effluent monitoring for electrical conductivity, pH, BOD, total suspended solids, and total nitrogen (when effluent is sent to the sprayfield for any one day in a month).

Furthermore, Notice of Applicability 2014-0153-DWQ-R5254 includes a BOD effluent limit of 90 milligrams per liter (mg/L) without specifying an averaging period. The BOD limit of 90 mg/L is a monthly average effluent limitation. Future self-monitoring reports must calculate the monthly average BOD concentration each month when wastewater is discharged to the sprayfield to determine compliance with this limit.

MRP 2014-0153-DWQ-R5254 will become effective once Order 87-084 is rescinded by the Central Valley Water Board. Order 87-084 is scheduled to be rescinded at the Central Valley Water Board 4/5 October 2018 Board Meeting.

If you have any questions regarding this matter, please contact Jeff Robins by phone at (559) 445-5976, or by email at jeff.robins@waterboards.ca.gov.

ORIGINAL SIGNED BY

Patrick Pulupa
Executive Officer

Attachment: Revised Monitoring and Reporting Program No. 2014-0153-DWQ-R5254

cc (w/ attachment): Michael Biever, USDI, Bureau of Reclamation

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM NO. 2014-0153-DWQ-R5254

FOR
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION
NEW MELONES LAKE TUTTLETOWN RECREATION AREA
TUOLUMNE COUNTY

This Monitoring and Reporting Program (MRP) supersedes the MRP issued on 21 June 2018.

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system. This MRP is issued pursuant to Water Code section 13267. The United States Department of the Interior, Bureau of Reclamation (Discharger) shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

Water Code section 13267 states, in part:

> "In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports."

Water Code section 13268 states, in part:

> "(a)(1) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).
>
> (b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars ($1,000) for each day in which the violation occurs."

The Discharger owns and operates the New Melones Lake Tuttletown Recreation Area Wastewater Treatment System (Facility) that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ-R5254. The reports are necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to Water Code section 13267, the Discharger shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom

samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

SEPTIC TANK MONITORING

The "holding tanks" located at each restroom or restroom/shower location, where water collects in the tank and then overflows to a lift station, shall be considered "septic tanks" for the purposes of this Order.

Septic tanks shall be inspected and/or pumped at least as frequently as described below. Inspections of sludge and scum depth are not required if the tanks are pumped at least annually.

Parameter	Units	Measurement Type	Inspection/Reporting Frequency
Sludge depth and scum thickness in each compartment of each tank	Feet	Staff Gauge	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually
Effluent filter condition (if equipped, clean as needed)	NA[a]	NA	Annually

a NA denotes not applicable.

Septic tanks shall be pumped when any one of the following conditions exists:

1. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment.
2. The scum layer is within 3 inches of the outlet device.
3. The sludge layer is within 8 inches of the outlet device.

If a septic tank is pumped during the year, the pumping report shall be submitted with the annual report. All pumping reports shall be submitted with the next regularly scheduled monitoring report. At a minimum, the record shall include the date, nature of service, service company name, and service company license number.

POND SYSTEM MONITORING

Influent Monitoring

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Flow Rate[a]	gpd	Meter	Continuous	Annually
BOD_5	mg/L	Grab	Annually	Annually
Total Nitrogen	mg/L	Grab	Annually	Annually
Electrical Conductivity	µmhos/cm	Grab	Annually	Annually

gpd denotes gallons per day; µmhos/cm denotes micromhos per cm

[a] At a minimum, the total flow shall be measured monthly to calculate the average daily flow for the month.

Pond Monitoring

All wastewater and treated wastewater storage ponds shall be monitored as specified below.

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Dissolved Oxygen	mg/L	Grab	Monthly	Quarterly
Freeboard	0.1 feet	Measurement	Monthly	Quarterly
Electrical Conductivity	µmhos/cm	Grab	Monthly	Quarterly
Odors	--	Observation	Monthly	Quarterly
Berm Condition	--	Observation	Monthly	Quarterly
Liner Condition		Observation	Monthly	Quarterly

mg/L denotes milligrams per liter; µmhos/cm denotes micromhos per cm

Effluent Monitoring

Effluent monitoring is only required when wastewater is discharged from the ponds to the sprayfield area at least one day in a calendar month. When monitoring is required, effluent shall be monitored as specified below.

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Electrical Conductivity	µmhos/cm	Grab	Monthly	Quarterly
pH	Std. Units	Grab	Monthly	Quarterly
BOD_5	mg/L	Grab	Monthly	Quarterly
Total Suspended Solids	mg/L	Grab	Monthly	Quarterly
Total Nitrogen	mg/L	Grab	Monthly	Quarterly

mg/L denotes milligrams per liter; µmhos/cm denotes micromhos per cm

RECREATIONAL VEHICLE DISCHARGE MONITORING

If the wastewater system has accepted recreational vehicle, portable toilet, or similar waste in the previous 12 months, the Discharger shall perform the following additional monitoring in the evaporation ponds. Samples shall be collected to characterize effluent that is stored in wastewater ponds or that will be applied to the sprayfield. Wastewater shall be monitored as specified below:

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Zinc	mg/L	Grab	Quarterly	Quarterly
Phenol	mg/L	Grab	Quarterly	Quarterly
Formaldehyde	mg/L	Grab	Quarterly	Quarterly

LAND APPLICATION AREA MONITORING

The Discharger shall monitor the sprayfields when wastewater is applied. If wastewater is not applied during a reporting period, the monitoring report shall state so. Sprayfield monitoring shall include the following:

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
Wastewater Flow[a]	gpd	Meter[a]	Monthly	Quarterly
Local Rainfall	inches	Weather Station[b]	Monthly	Quarterly
Acreage Applied[c]	acres	Calculated	Monthly	Quarterly
Application Rate[d]	gal/acre/mo	Calculated	Monthly	Quarterly
Soil Erosion Evidence	- -	Observation	Monthly	Quarterly
Containment Berm Condition	- -	Observation	Monthly	Quarterly
Soil Saturation/Ponding	- -	Observation	Monthly	Quarterly
Nuisance Odors/Vectors	- -	Observation	Monthly	Quarterly
Discharge Off-Site	- -	Observation	Monthly	Quarterly

[a] Meter requires meter reading, a pump run time meter, or other approved method.

[b] Weather station may be site-specific station or nearby governmental weather reporting station.

[c] Acreage applied denotes the acreage to which wastewater is applied.

[d] Application rate may also be reported as inch/acre/month.

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. These records shall be submitted as part of the annual monitoring report.

GROUNDWATER MONITORING

When sprayfield irrigation is in use for wastewater disposal during any day of a quarter, the Discharger shall monitor groundwater quality and comply with the quarterly groundwater monitoring requirements. If sprayfield irrigation is not utilized during any day of a quarter, the Discharger is not required to conduct groundwater monitoring for that quarter.

The data from routine groundwater monitoring events shall be submitted quarterly. Analysis of the data and groundwater flow directions shall be performed at least annually and shall be performed under the supervision of a California licensed professional. The Discharger may request a reduced monitoring and reporting schedule once adequate data has been collected to characterize the site. (Typically two years of quarterly sampling is required for adequate characterization.)

When sprayfield irrigation is in use, the Discharger shall monitor each of the groundwater monitoring wells identified in Attachment B of the NOA. Prior to sampling, groundwater elevations shall be measured and the wells shall be purged of at least three well volumes and until pH and electrical conductivity have stabilized. No-purge, low-flow, or other sampling techniques are acceptable if they are described in an approved Sampling and Analysis Plan. Depth to groundwater shall be measured to the nearest 0.01 feet. Groundwater elevations shall be calculated. Samples shall be collected using approved USEPA methods. Groundwater monitoring shall include, at a minimum, the following:

Constituent	Units	Sample Type	Sampling/Reporting Frequency[b,c]
Groundwater Elevation[a]	0.01 Feet	Calculated	Quarterly
Depth to Groundwater	0.01 Feet	Measurement	Quarterly
Gradient	Feet/Feet	Calculated	Quarterly
Gradient Direction	degrees	Calculated	Quarterly
pH	Std. Units	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Quarterly
Sodium	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Total Coliform Organisms	MPN/100 mL	Grab	Quarterly
Zinc[b]	mg/L	Grab	Quarterly
Phenol[b]	mg/L	Grab	Quarterly
Formaldehyde[b]	mg/L	Grab	Quarterly

[a] Groundwater elevation shall be based on depth to water using a surveyed measuring point elevation on the well and a surveyed reference elevation.

[b] Monitoring of the constituents zinc, phenol, and formaldehyde are required only when recreational vehicles were allowed to discharge to the wastewater system in the previous 12 months.

[c] Analysis of data by a California licensed professional is required at least annually.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50 MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50 MB or larger should be transferred to a disk and mailed to the appropriate Regional Water Board office, in this case 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office: Program: Non-15, WDID: 5C550705001, Facility Name: New Melones Lake Tuttletown Recreation Area, Order: 2014-0153-DWQ-R5254.

A. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Central Valley Water Board on the **first day of the second month after the quarter ends** (e.g., the January-March Quarterly Report is due by May 1st). The

reports shall bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports shall include:

1. Results of all required monitoring.
2. A comparison of monitoring data to the discharge specifications, biochemical oxygen demand effluent limit, disclosure of any violations of the NOA and/or General Order, and an explanation of any violation of those requirements. (Data shall be presented in tabular format.)
3. If requested by staff, copies of laboratory analytical report(s) and chain of custody form(s).

B. Annual Report

Annual Reports shall be submitted to the Central Valley Water Board by **March 1st following the monitoring year**. The Annual Report shall include the following:

1. Tabular and graphical summaries of all monitoring data collected during the year.
2. An evaluation of the performance of the wastewater treatment system, including discussion of capacity issues, nuisance conditions, system problems, and a forecast of the flows anticipated in the next year. A flow rate evaluation, as described in the General Order (Provision E.2.c), shall also be submitted.
3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order.
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
5. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.
6. For groundwater monitoring data, concentration versus time graphs for each monitored constituent using all historic groundwater monitoring data. Each graph shall show the background groundwater concentration range and the groundwater limitation as horizontal lines at the applicable concentration.
7. For groundwater monitoring data, an evaluation of the groundwater quality beneath the site, a determination of whether any groundwater limitations were exceeded in any well at any time during the calendar year, an assessment of why groundwater limitations were exceeded, and recommendations for further testing and corrective action to address the exceedances.

A letter transmitting the monitoring reports shall accompany each report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

The Discharger shall implement the above monitoring program upon the rescission of Order 87-084.

Ordered by: *ORIGINAL SIGNED BY*

PATRICK PULUPA, Executive Officer

27 September 2018
DATE