



Central Valley Regional Water Quality Control Board

3 April 2019

WDID: 5A450NC00012

Joshua Welch
Cascade Corporate Management
P.O. Box 881
Anderson, CA 96007

**CERTIFIED MAIL:
7018 1130 0001 8555 8261**

NOTICE OF APPLICABILITY (NOA), WATER QUALITY ORDER 2014-0153-DWQ-R5302, BROOKSIDE MOBILE HOME PARK, SHASTA COUNTY

On 20 June 2018 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff inspected the wastewater facilities at Brookside Mobile Home Park (hereafter "Discharger") located on Harley Leighton Road in east Redding, Shasta County. Based on the site inspection and a case file review, the facility treats and disposes of less than 100,000 gallons of wastewater per day and is therefore eligible for coverage under the general and specific conditions of State Water Resources Control Board (State Water Board) Water Quality Order 2014-0153-DWQ *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order). This letter serves as formal notice that the General Order is applicable to your facility and the wastewater discharge described below. You are hereby assigned General Order 2014-0153-DWQ-R5302 for your facility.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which prescribes mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the *General Order* and the attached *Monitoring and Reporting Program* (MRP). This MRP was developed after consideration of your waste characterization and site conditions described in the attached *Technical Memorandum*.

REGULATORY BACKGROUND

The Central Valley Water Board enrolled this Facility under the State Water Resource Control Board's General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems Order 97-10-DWQ-R5041 (General WDRs) on 6 August 2004. The Monitoring and Reporting Program requires the following:

- Weekly effluent flow meter reading and weekly potable water supply flow meter reading
- Weekly visual monitoring of the collection system, valves, septic tank pumping, presence/absence of water in piezometers, leaks, saturated soils in leach field area, animal burrowing, vegetative cover, and signs of vandalism.
- Monthly piezometer readings, measure and report depths to water.

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

364 Knollcrest Drive, Suite 205, Redding, CA 96002 | www.waterboards.ca.gov/centralvalley

- Bi-monthly statement of use for water supplied by Bella Vista Water District.
- Annual septic tank maintenance inspections at least once every 3 years.

DISCHARGE DESCRIPTION

Brookside MHP is located on Harley-Leighton Road in east Redding in Section 34, T32N, R4W, MDB&M. Sewage disposal from the mobile homes is treated and disposed by means of a septic tank and mounded leach field system. A gravity-flow collection system flows to a 15,000-gallon septic tank. From the septic tank, flow is pumped to a pressurized, mounded leach field that contains 1,344 feet of leach line. According to a 2009 Initial Engineering Evaluation, the design capacity of the existing leach field is 8,500 gallons per day. A manual valve allows gravity flow to a secondary leach field with an additional 660 feet of leach line. The secondary leach field is not mounded. Use of the secondary leach field is restricted to late summer, between 15 July and 15 September, when groundwater is at least five feet below ground surface. The depth to shallow groundwater can be measured using a 10-foot deep piezometer located at the east property line.

This is an existing facility; therefore, enrollment under the General Order is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15301 which applies to ongoing or existing projects.

FACILITY SPECIFIC REQUIREMENTS

The Discharger will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA and the General Order 2014-0153-DWQ-R5302, with all attachments.

Additionally, the General Order states in Section B.1.L that the discharger shall comply with the setbacks as described in Table 3. This table summarizes different setback requirements for wastewater system equipment, activities, and storage and/or treatment ponds from sensitive receptors and property lines where applicable. The Discharger shall comply with the following applicable setback requirements as summarized in the following table.

Failure to comply with the requirements in the documents could result in an enforcement action as authorized by provisions of the California Water Code. Discharge of wastes other than those described in this NOA is prohibited. If the method of waste disposal changes from that described in this NOA, you must submit a new Report of Waste Discharge describing the new operation.

Site Specific Applicable Setback Requirements					
Equipment or Activity	Domestic Well	Flowing Stream ^a	Ephemeral Stream Drainage ^b	Property Line	Lake or Reservoir ^d
Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System ^e	150 ft. ^y 100 ft. ^o 50 ft. ^c	50 ft. ^c	50 ft.	5 ft. ^{c, z}	200 ft. ^w 50 ft. ^c
Leach Field ^f	100 ft. ^{o, c}	100 ft. ^c	50 ft.	5 ft. ^c	200 ft. ^w 100 ft. ^c

LAA denotes Land Application Area. Sec denotes secondary.

- a A flowing stream shall be measured from the ordinary high-water mark established by fluctuations of water elevation and indicated by characteristics such as shelving, changes in soil character, vegetation type, presence of litter or debris, or other appropriate means.
- b Ephemeral Stream Drainage denotes a surface water drainage feature that flows only after rain or snow-melt and does not have sufficient groundwater seepage (baseflow) to maintain a condition of flowing surface water. The drainage shall be measured from a line that defines the limit of the ordinary high-water mark (described in "a" above). Irrigation canals are not considered ephemeral streams drainage features. The ephemeral stream shall be a "losing stream" (discharging surface water to groundwater) at the proposed wastewater system site.
- c Setback established by California Plumbing Code, Table K-1.
- d Lake or reservoir boundary measured from the high-water line.
- e Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System addresses equipment located below ground or that impedes leak detection by routine visual inspection.
- f Leach Field includes all subsurface dispersal systems, including mound systems except seepage pits.
 - o California Well Standards, part II, section 8. Site-specific conditions may allow reduced setback or require an increased setback. See discussion in Well Standards.
- w Setback established by the Onsite Wastewater Treatment System Policy, section 7.5.5.
- y Setback established by Onsite Wastewater Treatment System Policy, section 7.5.6.
- z Collection system to property line setback is not applicable.

The required annual fee specified in the annual billing from the State Water Board shall be paid until this NOA is officially terminated. You must notify this office in writing if the discharge regulated by the General Order ceases, so that we may terminate coverage and avoid unnecessary billing.

Facility Information	
Facility Name	Brookside Mobile Home Park
Program	WDR
Order Number	2014-0153-DWQ-R5302
WDID	5A45NC00012
Design Flow	8,500 gpd
Threat and Complexity	3B
Monitoring Requirements	Daily flow, monthly depth to water in piezometers, quarterly visual inspection of leach field area, annual septic tank evaluation

Billing Information	
Name	Cascade Management Corporation, Inc.
Contact	Rey Rangel
Email	ccmproperties@avidbill.com
Address	3511 Del Paso Rd., Ste 160, Rm 240, Sacramento, CA 95835
Phone	(916) 419-5002

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, MRPs, 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 50MB should be emailed to: centralvalleyredding@waterboards.ca.gov. Documents that are 50MB or larger should be

transferred to a disc and mailed to the appropriate regional water board office, in this case 364 Knollcrest Drive, Suite 205, Redding, CA 96002. 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: WDR
Facility Name: Brookside Mobile Home Park

WDID: 5A45NC00012
Order: 2014-0153-DWQ-R5302

Please note that the facility's current enrollment under WDRs 97-10-DWQ-R5041 has been terminated as of the date of this letter. Your facility is now covered under General Order 2014-0153-DWQ and is subject to the requirements of this Notice of Applicability.

If you have any questions regarding submitting an updated report of waste discharge, making changes to your permitted operations, compliance or enforcement please contact Monique Gaido at (530) 224-4205, monique.gaido@waterboards.ca.gov, or the footer address.

Original signed by Bryan Smith

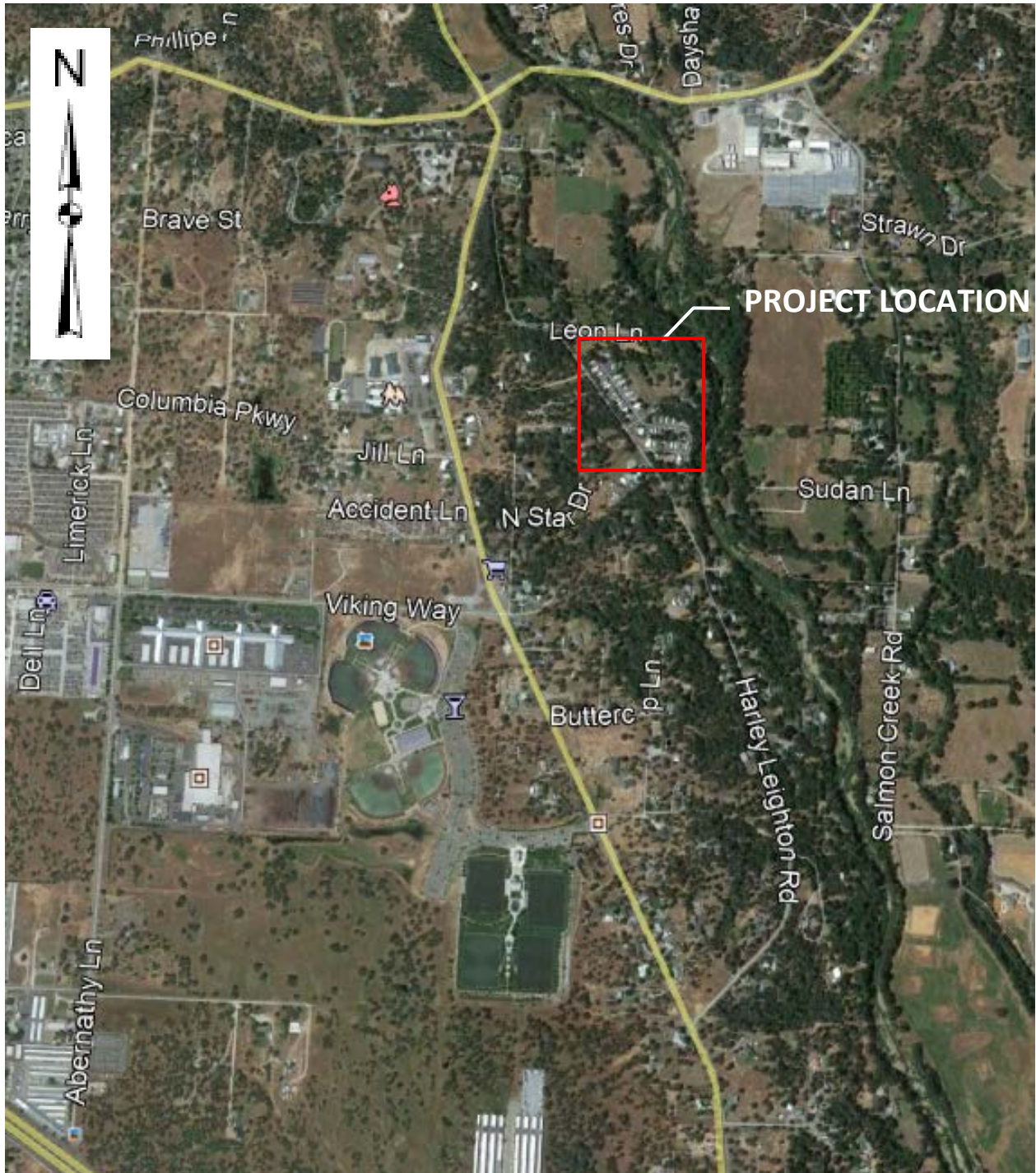
(for) Patrick Pulupa,
Executive Officer

MEG: ck

Attachments: Technical Memorandum
Monitoring and Reporting Program
Brookside MHP Location Map
Brookside MHP Facility Map
General Order 2014-0153-DWQ

cc w/o encls: Shasta County Environmental Health Division, Redding
Tim O'Brien, State Water Board, Sacramento
David Lancaster, SWRCB, Office of Chief Counsel, Sacramento

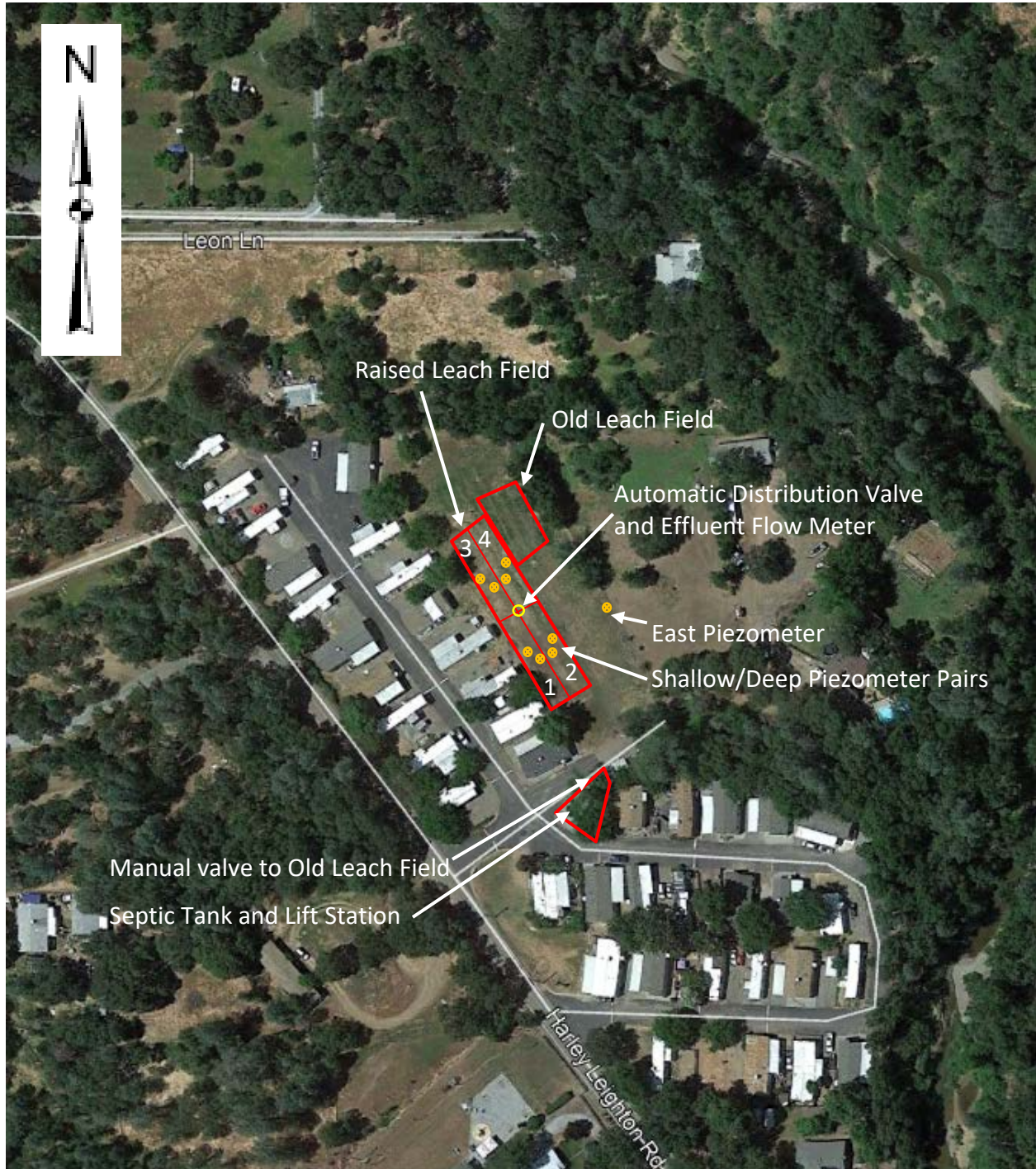
LOCATION MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2018 GOOGLE
NO SCALE

LOCATION MAP
BROOKSIDE MOBILE HOME PARK
SHASTA COUNTY

FACILITY MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2018 GOOGLE
NO SCALE

FACILITY MAP
BROOKSIDE MOBILE HOME PARK
SHASTA COUNTY

Central Valley Regional Water Quality Control Board

TECHNICAL MEMORANDUM

TO: George Low, P.G.
Senior Engineering Geologist

FROM: Monique Gaido, P.G.
Engineering Geologist

DATE: 3 April 2019

SIGNATURE: Original signed by Monique Gaido

SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR BROOKSIDE MOBILE HOME PARK, SHASTA COUNTY GENERAL ORDER WQ 2014-0153-DWQ ENROLLMENT

Staff has reviewed the case file and the 20 June 2018 Inspection Report for the Brookside Mobile Home Park (Facility). The Report assesses the general condition of the wastewater treatment and disposal system. The eastern portion of the site has seasonal high groundwater conditions and the old leach field had a history of surfacing effluent. The Facility changed ownership in 2015 and the Discharger has not kept adequate maintenance documentation. However, the Discharger has improved documentation and reporting since the inspection to meet requirements. All treatment and collection infrastructure appears in good order with the exception of a broken effluent flow meter.

The facility is located just outside the City of Redding on its eastern boundary. The wastewater system includes a 15,000-gallon septic tank, a 1,500-gallon lift station, a pressurized, mounded leach field divided into four zones with 1,344 linear feet of leach line. An automatic distribution valve rotates flow with each cycle. There are two piezometers located in each of the four leach field zones, one shallow (approximately 24 inches deep) and one deep (approximately 48 inches deep). The old leach field has approximately 660 feet of leach line and can be used as a secondary system between 15 July and 15 September when groundwater is at least five feet below ground surface. Flow to the secondary leach field is by gravity and is controlled by a manual valve located near the lift station. A 10-foot deep piezometer located at the eastern property line, approximately 130 feet southeast of the old leach field, provides a monitoring location to determine the depth to shallow groundwater.

The design capacity of the mounded leach field is 8,500 gallons per day (gpd). The Bella Vista Water District provides water to the Facility and conducts meter readings and billing every two months. Billing records show average daily influent water use for 2018 was approximately 8,900 gpd. Although the Central Valley Water Board does allow influent water flow reporting in some cases, the seasonal high groundwater conditions, number of private domestic wells in the area, and history of discharges warrant the requirement of an effluent

flow meter for monitoring discharges to this disposal system. The Discharger plans to repair the effluent flow meter to operate in compliance with this permit.

Potential Threats to Water Quality

Seasonal local shallow groundwater conditions result in saturated ground along the eastern portion of the site. The raised leach field is equipped with eight piezometers to monitor drainage in the disposal area. Additionally, one 10-foot-deep piezometer is located approximately 130 feet southeast of the old leach field to monitor the depth to shallow groundwater. According to Google Earth, both the primary and secondary leach fields are set back from Stillwater Creek by more than 450 feet.

Department of Water Resources online well survey results show that potable water wells are common on nearby properties and may be as close as 300 feet to the east and 400 feet to the south and southwest. The majority of potable wells in the area are 200 feet or deeper with screened intervals deeper than 200 feet, however, a few older potable wells are shallower, ranging in depth from 70 to 100 feet deep with screened intervals between 60 and 80 feet below ground surface (bgs); some older wells have no recorded screened interval.

Completion of the Nitrate Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? No. Average influent flows for 2019 were 8,900 gallons per day. 60-day averages fluctuated from approximately 6,800 gpd to 12,700 gpd.

Conclusion: No nitrogen removal is required at this time. In the future, if nitrogen becomes a concern, effluent monitoring for nitrogen may be required. Additional measures such as nitrogen removal and installation of a groundwater monitoring well network may also be required.

Monitoring Requirements

To protect water quality, General Order monitoring requirements will be sufficient. In summary, Staff recommends quarterly reporting of the average daily flow rate to the leach field; monthly water-level checks for the raised leach field piezometers and the 10-foot piezometer at the east boundary; quarterly visual monitoring of the leach field for saturated soils, odors, insects, animal burrows and excessive vegetation; and annual inspections of the septic tank. Quarterly monitoring will be reported by the first day of the second month after the quarter ends (e.g. January-March report is due by May 1st). Annual monitoring should include a brief summary of the reporting for the past year, including any significant repairs or maintenance work required. The annual report may be included with the fourth quarter monitoring.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-R5302

FOR

BROOKSIDE MOBILE HOME PARK

SHASTA COUNTY

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 Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The State Water Resources Control Board (State Water Board) and Regional Water Boards are transitioning to the paperless office system. In some regions, Dischargers will be directed to submit reports (both technical and monitoring reports) to the State Water Board's Electronic Content Management (ECM) database via email in portable document format (pdf). The email address for the ECM submittal is: centralvalleyredding@waterboards.ca.gov

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) 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 wastewater system that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ. 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 Regional 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 Board California 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

Monitoring of septic tank shall include the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow Rate	gpd	Metered ^a	Continuous	Annually

gpd denotes gallons per day.

^a. Flow rate may be metered or estimated based on potable water supply meter readings or other approved method.

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.

<u>Parameter</u>	<u>Units</u>	<u>Measurement Type</u>	<u>Inspection/Reporting Frequency</u>
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	NA	Annually

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.

SUBSURFACE DISPOSAL AREA

Subsurface disposal areas may be configured many different ways (e.g. traditional leach field, pressure-dosed, drip system, mound/at grade, gravel less, etc.). In general, monitoring shall be sufficient to determine if wastewater is evenly applied, the disposal area is not saturated, burrowing animals and/or deep-rooted plants are not present, and odors are not present. Inspection of dosing pump controllers, automatic distribution valves, etc. is required to maintain optimum treatment in the disposal area (and any sand or media filter if present). Monitoring shall include, at a minimum, the following:

<u>Constituent</u>	<u>Inspection Frequency</u>	<u>Reporting Frequency</u>
Piezometers, depth of standing water	Monthly	Quarterly
Pump Controllers, Automatic Valves, etc. ^a	Quarterly	Quarterly
Nuisance Odor Condition	Quarterly	Quarterly
Saturated Soil Conditions ^b	Quarterly	Quarterly
Plant Growth ^c	Quarterly	Quarterly
Vectors or Animal Burrowing ^d	Quarterly	Quarterly

- a. All pump controllers and automatic distribution valves shall be inspected for proper operation as recommended by the manufacturer.
- b. Inspect a disposal area for saturated conditions. If a mound system is used, inspect perimeter base for signs of wastewater seepage or saturated soil conditions.
- c. Shallow-rooted plants are generally desirable, deep-rooted plants such as trees shall be removed as necessary.
- d. Evidence of animals burrowing shall be immediately investigated and burrowing animal populations controlled as necessary.

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.

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.

During the life of this General Order, the State Water Board or Regional Water Board may require the Discharger to electronically submit monitoring reports using the State Water Board's California Integrated Water Quality System (CIWQS) program Internet web site or alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit monitoring reports, the Discharger shall submit hard copy monitoring reports.

A. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Regional 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, applicable effluent limits, 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 Regional 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 facility, 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.

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 as of the date of this MRP.

Ordered by:

Original signed by Bryan Smith

PATRICK PULUPA, Executive Officer

3 April 2019

DATE