



Central Valley Regional Water Quality Control Board

9 March 2022

Will Reyneveld
Hageman Properties LLC
2911 Landco Drive
Bakersfield, California 93308

CERTIFIED MAIL
7021 2720 0003 2727 4507

NOTICE OF APPLICABILITY (NOA); STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; HAGEMAN PROPERTIES LLC; CREEKSIDE R.V. PARK ONSITE WASTEWATER TREATMENT SYSTEM; KERN COUNTY

On 12 October 2010, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) issued Hageman Properties LLC (Discharger) a Notice of Applicability (NOA) enrolling the Creekside RV Park Onsite Wastewater Treatment System (OWTS) under Water Quality Order No. 97-10-DWQ, *General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems* for a proposed septic and leachfield system (enrollee number 97-10-DWQ-R5067). The NOA allows a flow of up to 16,400 gallons per day (gpd) (average daily flow). As the date of the NOA, the OWTS has still not been constructed.

As detailed in the enclosed memorandum, the Discharger submitted a Report of Waste Discharge (RWD) for the OWTS in 2021 for enrollment under State Water Resources Control Board's (State Water Board) Water Quality Order 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order) to revise the flow limit specified in the October 2010 NOA. The 2010 RWD stated the OWTS would have a total design capacity of 27,300 gpd (and average daily flow of 16,400 gpd) for 184 RV spaces. The 2021 RWD was submitted to revise the flow limit specified in the October 2010 NOA. The 2021 RWD states the OWTS will have a total design capacity of 24,250 gpd for 181 RV spaces. According to the Discharger, the request for change in flow limit in the 2021 RWD is not for increased operations at the RV part but rather to accurately reflect the design capacity of the proposed OWTS. Based on the information provided, the discharge from your OWTS is eligible for coverage under the General Order.

This letter serves a formal notice that the General Order is applicable to your system and the wastewater discharge described below, you are hereby assigned enrollee number **2014-0153-DWQ-R5376** and supersedes Notice of Applicability (NOA) issued on 12 October 2010.

MARK BRADFORD, CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

1685 E Street, Fresno, CA 93706 | www.waterboards.ca.gov/centralvalley

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which describe 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) No. **2014-0153-DWQ-R5376**. This MRP was developed after consideration of your waste characterization and site conditions described in the attached memorandum.

DISCHARGE DESCRIPTION

The Creekside RV Park is a new commercial development that will provide hook-up connections for 181 RV spaces on approximately 37 acres (APN 238-081-16). According to the RWD, the OWTS services the RV park, an office, kitchen, laundry room, showers, and other facilities. The OWTS will be located about 30 miles south of the City of Bakersfield (4949 Dennis McCarthy Drive) in Kern County (35°00'30" N and 118°57'21" W). A site map is shown on **Attachment A** of the Notice of Applicability (NOA).

The OWTS will consist of four parallel septic tanks with a nominal capacity of 5,250 gallons each. The wastewater will be discharged to a leachfield of approximately 11,088 square feet. The OWTS flow schematic is shown on **Attachment B** of the NOA. The OWTS is proposed to have a total design capacity of 24,250 gpd. The General Order states that domestic wastewater treatment systems discharging under 100,000 gpd are eligible for coverage.

FACILITY SPECIFIC REQUIREMENTS AND EFFLUENT LIMITATIONS

The Discharger will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA, General Order 2014-0153-DWQ, with all attachments, and MRP No. 2014-0153-DWQ-R5376.

In accordance with Section B.1 of the General Order, treated wastewater discharged from the treatment system to the leachfields, **shall not exceed a monthly average daily discharge of 24,250 gallons per day (gpd)**.

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

Table 1 - Site-Specific Applicable Setback Requirements

Equipment or Activity	Domestic Well	Ephemeral Stream Drainage	Property Line
Septic Tank, Aerobic Treatment Unit Treatment System, or Collection System	150 ft	50 ft	5 ft
Leach Field	100 ft	50 ft	5 ft

The Discharger shall comply with the applicable section of the General Order, including:

1. Septic Systems requirements specified in Section B.2 of the General Order;
2. Subsurface Disposal Systems requirements specified in Section B.6 of the General Order; and
3. Sludge/Solids/Biosolids Disposal requirements in Section B.8 of the General Order.

The proposed discharge has a flow rate that exceeds 20,000 gpd and a nitrogen evaluation was conducted as described in Attachment 1 of the General Order to determine if nitrogen effluent limits are required. The attached memorandum includes a nitrogen effluent limit evaluation. Based on the evaluation, nitrogen limits are not necessary at this time. The Discharger is required to conduct effluent nitrogen monitoring to evaluate its discharge and the potential impacts of nitrogen to groundwater.

Provision E.1 of the General Order requires discharges enrolled under the General Order to prepare and implement the following reports within **90 days** of the issuance of the NOA (**7 June 2022**):

- Spill Prevention and Emergency Response Plan (Provision E.1.a).-
- Sampling and Analysis Plan (Provision E.1.b).
- Sludge Management Plan (Provision E.1.c).

A copy of the Spill Prevention and Emergency Response Plan, the Sampling and Analysis Plan, and Sludge Management Plan shall be maintained at the OWTS and shall be presented to the Regional Water Board staff upon request. The Sludge Management Plan shall be submitted to the Central Valley Water Board **within 90 days** of the issuance of the NOA.

On 27 September 2019, Senate Bill 317 was signed by the Governor adding Section 25210.2 to the California Health and Safety Code, which contains chemical sale, use, and discharge prohibitions for recreational vehicle (RV) chemical wastes to land, as of 1 January 2022.

The Discharger shall post, in a conspicuous location, a notice stating the following:

“The State of California prohibits the use of products in RV holding tanks, including deodorizers, that contain bronopol, dowicil, formalin, formaldehyde, glutaraldehyde, paraformaldehyde, para-dichlorobenzene, benzene, toluene, xylene, ethylene glycol, 1,1,1-trichloroethane, trichloroethylene, or perchloroethylene. These chemicals can inhibit biological activity in onsite wastewater treatment systems and threaten groundwater and drinking water wells, and are strictly forbidden. Please use bacteria- or enzyme-based products.”

The Discharger shall **certify compliance with the above notification posting** in the first annual report submitted to the Water Board once the OWTS is constructed.

On 31 May 2018, the Central Valley Water Board adopted Basin Plan amendments incorporating new strategies for addressing ongoing salt and nitrate accumulation in the Central Valley as part of the Central Valley Salinity Alternatives for Long-Term Sustainability (**CV-SALTS**) initiative. Further details of these strategies are discussed in the enclosed memorandum. As these strategies are implemented, the Central Valley Water Board may find it necessary to modify the requirements of this NOA to ensure the goals of the Salt and Nitrate Control Program are met.

As stated in Section E.2.w of the General Order, in the event any change in control or ownership of the OWTS or wastewater disposal areas, the Discharger must notify the succeeding owner or operator of the existence of this General Order by letter, a copy of which shall be immediately forwarded to the Central Valley Water Board Executive Officer.

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.

Failure to comply with the requirements in this NOA, General Order **2014-0153-DWQ-R5376**, with all attachments, and MRP No. **2014-0153-DWQ-R5376** 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.

All monitoring reports and other correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to the Central Valley Water Board office at 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,
Place ID: 744627,
Facility Name: Creekside RV Park OWTS,
Order: 2014-0153-DWQ-R5376

All document, including responses to inspection and written notification, submitted to comply with this General Order shall be directed, via the paperless office system, to the Compliance and Enforcement Unit, attention to Russell Walls. Mr. Walls can be reached at (559) 488-4392 or russell.walls@waterboards.ca.gov. Questions regarding the permitting aspects of the General Order and notification for termination of coverage under the General Order, shall be directed, via the paperless office system, to the WDR Permitting Unit, attention to Denise Soria. Ms. Soria can be reached at (559) 444-2488 or by email at denise.soria@waterboards.ca.gov.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this NOA falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. [Copies of the law and regulations applicable to filing petitions](#) may be found on the internet (https://www.waterboards.ca.gov/public_notices/petitions/water_quality/) or will be provided upon request.

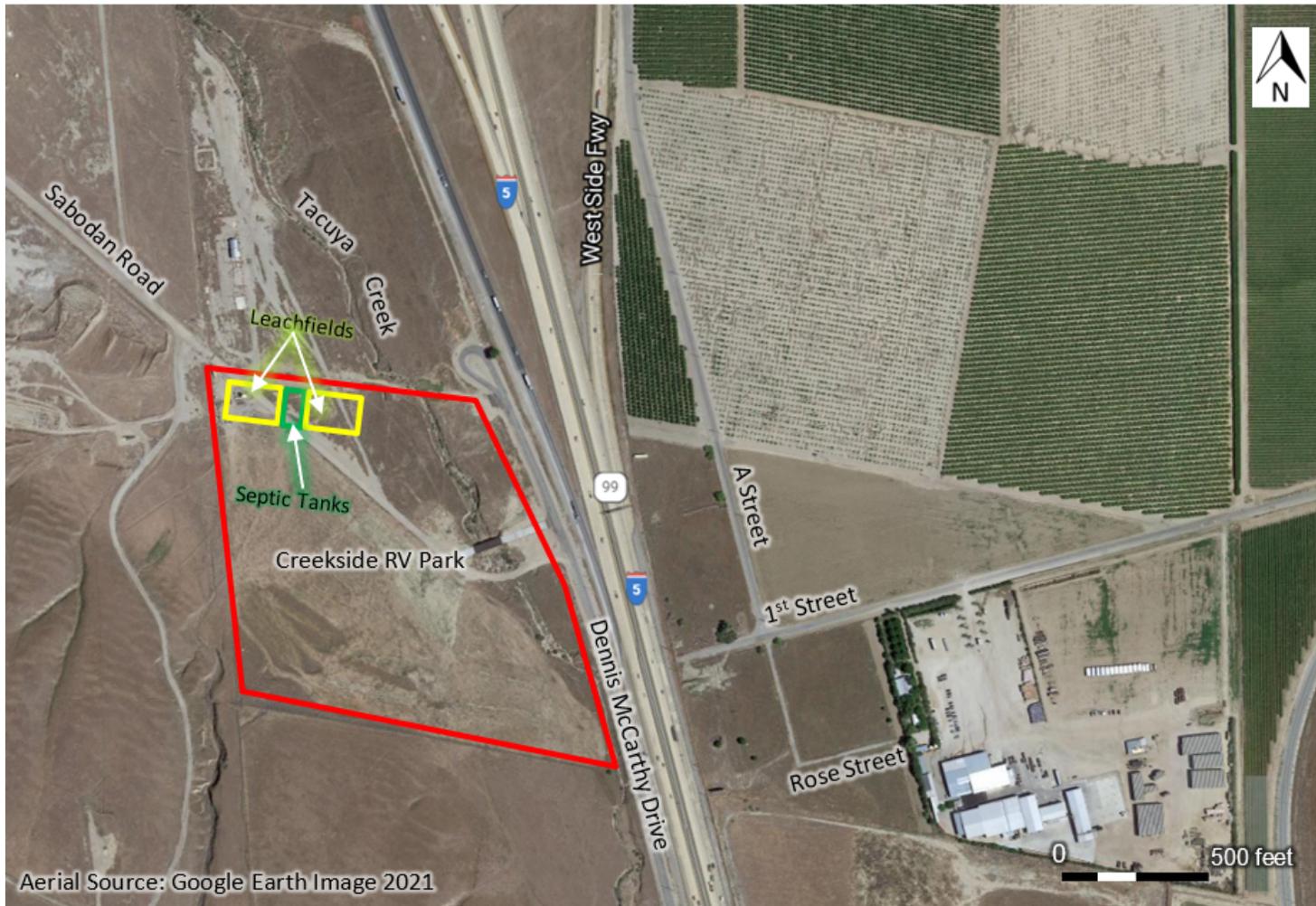
In order to conserve paper and reduce mailing costs, a paper copy of the General Order has been sent only to the Discharger. Others are advised that the [General Order](#) is available on the State Water Board's website at: (http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0153_dwq.pdf).

If you have any questions regarding this matter, please contact Denise Soria by phone at (559) 444-2488 or by email at dsoria@waterboards.ca.gov.

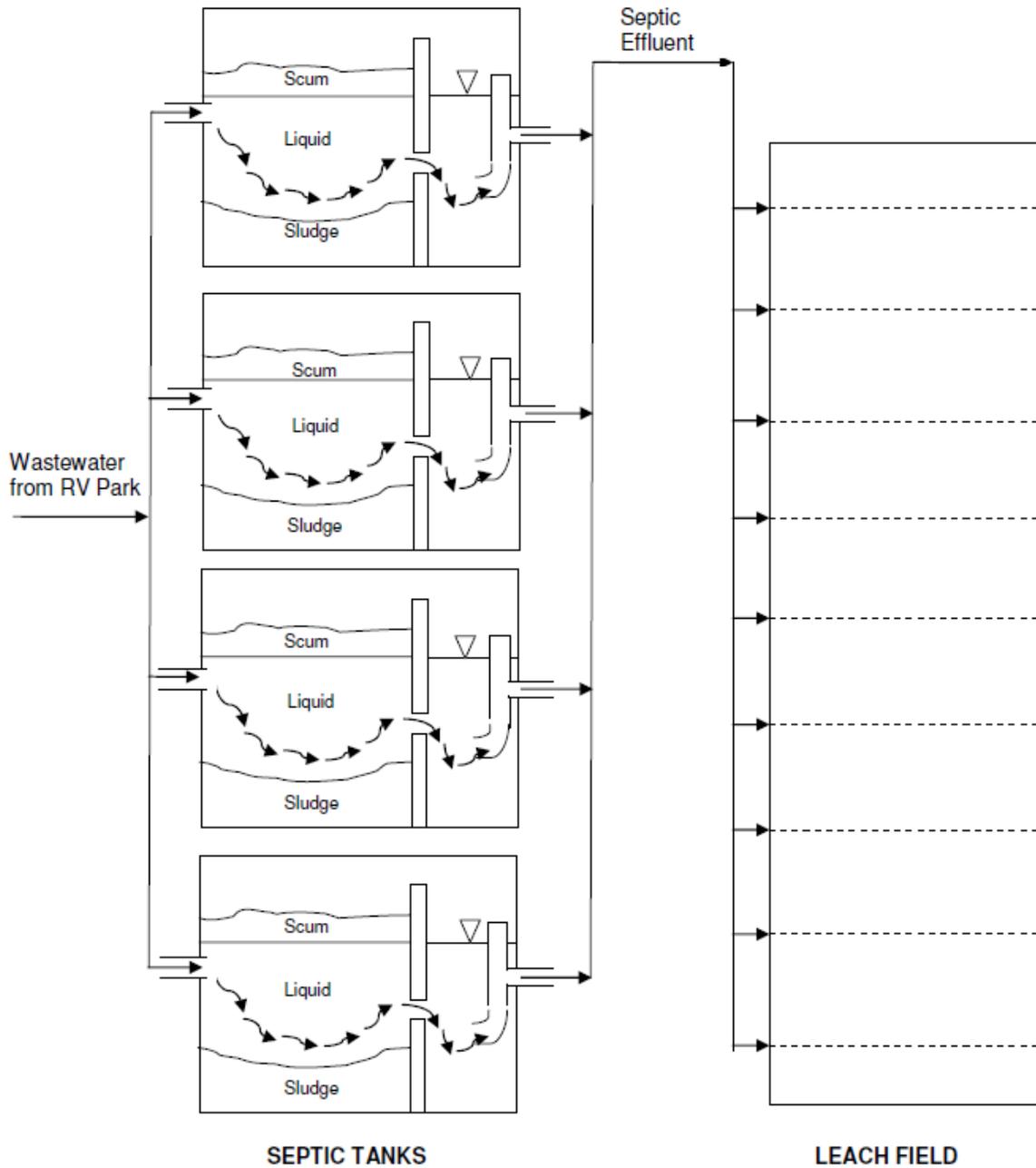
Original Signed by Clay L. Rodgers for:
Patrick Pulupa
Executive Officer

(See next page for attachments, enclosures, and cc's)

- Attachments:
- Attachment A – Site Map
 - Attachment B – Flow Schematic
- Enclosures:
- Monitoring and Reporting Program 2014-0153-DWQ-R5376
 - 9 March 2022 Regional Water Board Staff Memorandum
 - State Water Resources Control Board Order WQ 2014-0153-DWQ (Discharger Only)
- cc:
- David Lancaster, State Water Resources Control Board, OCC, Sacramento (via email)
 - Laurel Warddrip, Senior Scientist, State Water Resources Control Board, Division of Water Quality, Sacramento (via email)
 - Russell Walls, Senior Engineer, Central Valley Water Board, Fresno (via email)
 - Jesse Dhaliwal, State Water Resources Control Board, Division of Drinking Water, Bakersfield (via email)
 - RB5S-cvsalts@waterboards.ca.gov
 - Anna Mancillas, Central Valley Water board (via email)
 - Kern County, Public Health Services Department, Bakersfield
 - James Delmarter, McIntosh & Associates, Bakersfield (via email)



ATTACHMENT A – SITE MAP
NOTICE OF APPLICABILITY 2014-0153-DWQ-R5376
FOR
HAGEMAN PROPERTIES LLC
CREEKSIDE RV PARK ONSITE WASTEWATER TREATMENT SYSTEM
KERN COUNTY



ATTACHMENT B – FLOW SCHEMATIC
 NOTICE OF APPLICABILITY 2014-0153-DWQ-R5376
 FOR
 HAGEMAN PROPERTIES LLC
 CREEKSIDE RV PARK ONSITE WASTEWATER TREATMENT SYSTEM
 KERN COUNTY

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION**

**MONITORING AND REPORTING PROGRAM NO. 2014-0153-DWQ-R5376
FOR
HAGEMAN PROPERTIES LLC
CREEKSIDE RV PARK ONSITE WASTEWATER TREATMENT SYSTEM
KERN 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. Hageman Properties LLC (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.

Section 13267 of the California Water Code 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.”

Section 13268 of the California Water Code 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 the Creekside RV Park Onsite Wastewater Treatment System (OWTS) that is subject to the Notice of Applicability (NOA) 2014-0153-DWQ-R5376. The NOA enrolls the OWTS under State Water Resources Control Board Order WQ 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic*

Treatment Systems (General Order) and supersedes enrollment under Water Quality Order No. 97-10-DWQ, *General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems* (enrollee number 97-10-DWQ-R5067). The reports required in this MRP 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 (ELAP) 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 EFFLUENT MONITORING AND INSPECTION

Septic Tank Effluent Monitoring

Septic tank effluent samples shall be taken from a location that represents the effluent to the leachfield. Septic tank effluent monitoring is only required when wastewater is discharged to the leachfield system. At a minimum, effluent monitoring shall include the following:

Table 1 – Septic Tank Effluent Monitoring Requirements

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow	gpd	Metered (See 1 below)	Continuous	Quarterly
EC	µmhos/cm	Grab	Monthly	Quarterly

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Total Nitrogen	mg/L	Grab	Quarterly	Annually

1. Flow rate may be metered or estimated based on potable water supply meter reading or other approved method. Flow rates may be measured as influent or effluent flow.

Septic Tank Inspections

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

Table 2 – Septic Tank Observation Requirements

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)	N/A (See 1 below)	N/A (See 1 below)	Annually

1. N/A 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 monitoring report. At a minimum, the report shall include the date, nature of service, service company name, and service company license number.

RECREATIONAL VEHICLE DISCHARGE MONITORING

Samples shall be collected to characterize effluent that is stored in the septic tanks and that will be applied to the disposal area. Wastewater shall be monitored as specified below:

Table 3 – Recreational Vehicle Discharge Monitoring Requirements

Parameter	Units	Measurement Type	Sampling Frequency	Reporting Frequency
Zinc	mg/L	Grab	Quarterly	Quarterly
Phenol	mg/L	Grab	Quarterly	Quarterly
Formaldehyde	mg/L	Grab	Quarterly	Quarterly

SUBSURFACE DISPOSAL AREA MONITORING

In general, subsurface disposal 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 disposal area. Monitoring shall at a minimum, include the monitoring specified in Table 4.

Table 4 – Subsurface Disposal Area Monitoring Requirements

Parameter	Sampling Frequency	Reporting Frequency
Pump Controllers, Automatic Valves, etc. (see 1 below)	Quarterly	Quarterly
Nuisance Odor Condition	Quarterly	Quarterly
Saturated Soil Conditions (see 2 below)	Quarterly	Quarterly
Plant Growth (see 3 below)	Quarterly	Quarterly
Vectors or Animal Burrowing (see 4 below)	Quarterly	Quarterly

1. All pump controllers and automatic distribution valves shall be inspected for proper operation as recommended by the manufacturer.
2. 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.
3. Shallow-rooted plants are generally desirable, deep-rooted plants such as trees shall be removed as necessary.
4. 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 OWTS. 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 discernable. 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.

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence shall be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB 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,
Place ID: 744627,
Facility Name: Creekside RV Park OWTS,
Order: 2014-0153-DWQ-R5376

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 the minimum, the semi-annual 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. 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. A copy of the Septic Tank Pumping Report(s) for the calendar year.
3. An evaluation of the performance of the OWTS, including discussion of the 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.
4. Copies of laboratory analytical report(s) and chain of custody form(s).
5. 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.
6. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
7. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.
8. Once the OWTS is constructed, the Discharger shall certify in the following annual report that the RV chemical prohibition notification (discussed in the NOA) has been posted.

A letter transmitting the monitoring reports, excluding the State Water Board Volumetric Report, 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 begin implementing the above monitoring program effective immediately.

Ordered by:

Original Signed by Clay L. Rodgers for:
PATRICK PALUPA, Executive Officer

3/9/2022
(Date)

GLOSSARY

BOD ₅	Five-day biochemical oxygen demand
CaCO ₃	Calcium carbonate
DO	Dissolved oxygen
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite	Samples shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Every day except weekends or holidays.
Twice Weekly	Twice per week on non-consecutive days.
Weekly	Once per week.
Twice Monthly	Twice per month during non-consecutive weeks.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mL/L	Milliliters [of solids] per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
MPN/100 mL	Most probable number [of organisms] per 100 milliliter



GAVIN NEWSOM
GOVERNOR



JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

TO: Scott J. Hatton
Supervising Water Resource Control Engineer

FROM: Alexander S. Mushegan
Senior Water Resource Control Engineer
RCE 84208

Denise Soria
Water Resource Control Engineer



DATE: 9 March 2022

APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; HAGEMAN PROPERTIES LLC; CREEKSIDE RV PARK ONSITE WASTEWATER TREATMENT SYSTEM; KERN COUNTY

BACKGROUND INFORMATION

On 12 October 2010, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) issued Hageman Properties LLC (Discharger) a Notice of Applicability (NOA) enrolling the Creekside RV Park Onsite Wastewater Treatment System (OWTS) under Water Quality Order No. 97-10-DWQ, *General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems* for a proposed septic and leachfield system (enrollee number 97-10-DWQ-R5067). The NOA authorizes a flow of up to 16,400 gallons per day (gpd) (average daily flow). The OWTS has not yet been built. In 2014, the State Water Resources Control Board (State Water Board) adopted Water Quality Order 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order), which supersedes 97-10-DWQ

To revise the flow limitation for the OWTS, the Discharger submitted a Report of Waste Discharge (RWD) requesting coverage under the General Order. The RWD included the following:

- Septic Tank Design Calculations signed and stamped by Mr. James K. Delmarter, a California registered civil engineer (RCE 17564), submitted on 21 September 2021;

- A *Nitrogen Effluent Limit Evaluation Report* signed and stamped by Mr. Kenneth D. Schmidt, a California registered geologists (RG 1578) and certified hydrogeologist (CHG 176) submitted on 5 October 2021; and
- A Form 200 signed by Mr. Willy Reyneveld, Manager with Hageman Properties LLC, submitted on 8 October 2021.

This memorandum provides a summary of Central Valley Water Board staff's review of the RWD and the applicability of the discharge to be covered under the General Order.

DESCRIPTION OF DISCHARGE

The OWTS will be located about 30 miles south of the City of Bakersfield at 4949 Dennis McCarthy Drive in Kern County (section 30, Township 11 North, Range 19 West, San Bernardino Base and Meridian [SBB&M]). A site map is included in **Attachment A** of the Notice of Applicability (NOA).

The Creekside RV Park is a new commercial development that will provide hook-up connections for 181 RV spaces on approximately 37 acres (APN 238-081-16). According to the RWD, the OWTS services the RV park, an office, kitchen, laundry room, showers, and other facilities.

The OWTS will consist of four parallel septic tanks with a nominal capacity of 5,250 gallons each. According to the engineering drawings in the 2021 Septic Tank Design Calculations document, the depth to leachfield will range from approximately, 3.7 to 7.3 feet bgs. The wastewater will be discharged to a leachfield of approximately 11,088 square feet. Native grass will reportedly be grown in the disposal field but will not be harvested. **Attachment B** of the NOA includes a flow schematic of the proposed OWTS.

The 2010 RWD stated the OWTS would have a total design capacity of 27,300 gpd (and average daily flow of 16,400 gpd) for 184 RV spaces. The 2021 RWD was submitted to revise the flow limit specified in the October 2010 NOA. The 2021 RWD states the OWTS will have a total design capacity of 24,250 gpd for 181 RV spaces. According to the Discharger, the request for change in flow limit in the 2021 RWD is not for increased operations at the RV park but rather to accurately reflect the design capacity of the proposed OWTS.

The projected effluent quality will have electrical conductivity of 1,720 $\mu\text{mhos/cm}$, total dissolved solids of 1,330 mg/L, total nitrogen of 48 mg/L, biochemical oxygen demand of 330 mg/L, and total suspended solids of 160 mg/L.

Sludge accumulated in the septic tanks will be removed by Valley Pumping and hauled off-site to the City of Bakersfield Wastewater Treatment Facility #3, currently regulated under WDRs Order R5-2009-0087. At a minimum, the Discharger is proposing to pump the septic tank annually.

POTENTIAL THREAT TO WATER QUALITY

The 2007 Well Completion Report for the on-site well shows first encountered groundwater at 525 feet below ground surface (bgs). According to the Arvin – Edison Water Storage District, Spring 2019, *Elevation of Water in Wells* map groundwater flows in the northeast direction.

The Tecuya Creek is located about 220 feet from the eastern edge of the proposed leachfields. This distance meets the minimum setback requirements for treatment and disposal as described in Table 3: *Summary of Wastewater System Setbacks* of the General Order.

In 2009, Krazan & Associates, Inc. prepared an *Exploratory Boring with Percolation Testing Report* (Krazan Report), signed and stamped by Mr. David R. Jarosz, II, a California registered civil engineer and geotechnical engineer (RCE 60185 and RGE 2698). Two test pits were excavated near the location of the proposed OWTS at a depth of 4 feet bgs (Test Pit-1) and 9.5 feet bgs (Test Pit-2) as shown in the Test Pit Logs of the Krazan Report. The test pits showed shallow soils (six to twelve inches) in the area consisting of very loose silty sand intermixed with traces of gravel followed by medium dense silty sand and gravelly silty sand. In addition, two percolation tests were completed at the location of the proposed leachfield area and at a depth of four and nine feet bgs. The percolation tests showed percolation rates ranging from 4 to 6 minutes per inch (MPI).

With depth to groundwater at about 525 feet bgs, the discharge meets the minimum depth to groundwater requirements described in Table 5: *Minimum Depth to Groundwater and Minimum Soil Depth from the Bottom of Dispersal System*, of the General Order.

NITROGEN LIMIT EVALUATION

Attachment 1 of the General Order includes five site-specific considerations (Step A) that shall be considered when evaluating a discharge and the need for nitrogen effluent limits. These five site-specific considerations include: flow, groundwater depth, percolation rate, wastewater strength, and if nitrogen is of concern in the area. The proposed flow is greater than 20,000 gpd and, therefore, a nitrogen effluent limit evaluation is required for the OWTS.

As previously mentioned, groundwater depth in the area of the OWTS is approximately 525 feet bgs. The septic tank and leachfield system have not yet been constructed and monitoring of the effluent has not commenced. It appears that the projected wastewater quality for total nitrogen (48 mg/L) will not exceed the typical domestic wastewater strength with respect to total nitrogen presented in Table 1 of the General Order (Finding 8) for septic tanks (40 mg/L to 100 mg/L). The Monitoring and Reporting (MRP) for the NOA will include nitrogen monitoring to characterize the wastewater effluent quality.

Based on the following site-specific information a nitrogen limit is not needed at this time: 1) the site does not have excessive percolation rates nor shallow groundwater,

2) the projected effluent domestic wastewater strength with respect to total nitrogen is not expected to exceed typical domestic wastewater strength; 3) the discharge is within a Priority 3 Management Zone for the Nitrate Control Program ; and 4) the MRP will require effluent monitoring for nitrogen to evaluate the discharge and its potential impacts to groundwater.

MONITORING REQUIREMENTS

Monitoring requirements included in the following sections from Attachment C of the General Order are appropriate for this discharge:

- Septic Tank Monitoring
- Recreational Vehicle Discharge Monitoring
- Subsurface Disposal Area Monitoring
- Solids Disposal Monitoring

SALT AND NITRATE CONTROL PROGRAMS

For the Nitrate Control Program, the OWTS (CV-SALTS ID: 2847) is within Groundwater Basin 5-22.14 (San Joaquin Valley – Southeastern Kern County), a Priority 3 basin/sub-basin. Implementation within a Priority 3 basin/sub-basin will occur as directed by the Central Valley Water Board Executive Officer.

On 5 January 2021, the Central Valley Water Board issued the Discharger a Notice to Comply under the Salt Control Program. On 21 September 2021, the Discharger submitted a Salt Control Program Notice of Intent selecting to participate in the Prioritization and Optimization Study and a copy of the Certificate of Participation for the OWTS.