

## Los Angeles Regional Water Quality Control Board

December 7, 2018

### Interested Parties

#### **TENTATIVE GENERAL WASTE DISCHARGE REQUIREMENTS (WDRs) AND A TENTATIVE RESOLUTION APPROVING CALIFORNIA ENVIRONMENTAL QUALITY ACT NEGATIVE DECLARATION FOR ADVANCED ONSITE WASTEWATER TREATMENT SYSTEMS**

Dear Interested parties:

The Regional Water Quality Control Board, Los Angeles Region (Regional Board) proposes to adopt General WDRs for advanced onsite wastewater treatment systems (Advanced OWTS). Pursuant to the California Water Code, the following documents are prepared:

1. Board Order No. R4-2019-XXXX General WDRs for advanced OWTS,
2. Attachment A – Report of Waste Discharge,
3. Attachment B – Information Sheet Recommended Report of Waste Discharge Format,
4. Attachment C – Maximum Contaminant Levels,
5. Attachment D – Monitoring and Reporting Program,
6. Attachment E – Standard Provisions Applicable to Waste Discharge Requirements,
7. Attachment F – Constituents of Emerging Concerns,
8. Attachment G – Priority Pollutants,
9. Resolution No. 19-XXX Approving California Environmental Quality Act (CEQA) Negative Declaration, and
10. Notice of Preparation of Negative Declaration – Initial Study Part 1 and Part 2.

These documents are also available at the Regional Board's website at [http://www.waterboards.ca.gov/losangeles/board\\_decisions/tentative\\_orders/index.shtml](http://www.waterboards.ca.gov/losangeles/board_decisions/tentative_orders/index.shtml).

In accordance with administrative procedures, the Regional Board (Board) will consider the enclosed tentative General WDRs and the associated attachments, the tentative resolution and the initial study at a public hearing to be held at 9:00 AM on February 14, 2019, at the Council Chambers of the City of Simi Valley located at 2929 Tapo Canyon Road, Simi Valley, California. The Regional Board will hear any testimony pertinent to this the tentative General WDRs, the attachments including a monitoring and reporting program, the Resolution approving the CEQA Negative Declaration, and the initial study. It is expected that the Regional Board will take action at the hearing; however, as testimony indicates, the Regional Board at its discretion may order further investigation.

Written comments or testimony regarding these documents listed above must be received at the Board's Office by 5:00 PM on January 7, 2019, in order to be evaluated by Regional Board staff and included in the Regional Board's agenda folder. Failure to comply with these requirements is grounds for the Regional Board to refuse to admit the proposed written comment or exhibit into evidence. Timely submittal of written comments is encouraged to ensure that all comments are

accurately and fully included in the administrative record, that Regional Board staff is able to provide timely review, and that Regional Board Members have sufficient time to give full consideration to the comments and issues raised. Comments received after the requested date may result in delay in consideration of your WDRs application.

The agenda for the meeting will be posted on the Regional Board's website ([http://www.waterboards.ca.gov/losangeles/board\\_info/agenda/index.shtml](http://www.waterboards.ca.gov/losangeles/board_info/agenda/index.shtml)) approximately one week prior to the meeting.

If you have any questions concerning this letter, please contact Dr. Don Tsai at (213) 620-2264 (or [Don.Tsai@waterboards.ca.gov](mailto:Don.Tsai@waterboards.ca.gov)) or me at (213) 576-6683 (or [Eric.Wu@waterboards.ca.gov](mailto:Eric.Wu@waterboards.ca.gov)).

Sincerely,



Eric Wu, Ph.D., P.E.  
Chief of Groundwater Permitting Unit

Enclosures:

1. Board Order No. R4-2019-XXXX General WDRs for advanced OWTS
2. Attachment A – Report of Waste Discharge
3. Attachment B – Information Sheet Recommended Report of Waste Discharge Format
4. Attachment C – Maximum Contaminant Levels
5. Attachment D – Monitoring and Reporting Program
6. Attachment E – Standard Provisions Applicable to Waste Discharge Requirements
7. Attachment F – Constituents of Emerging Concerns
8. Attachment G – Priority Pollutants
9. Resolution No. 19-XXX Approving California Environmental Quality Act (CEQA) Negative Declaration
10. Notice of Preparation of Negative Declaration – Initial Study Part 1 and Part 2

cc (via email): Please see the attached list for interested parties notified.

**Interested Parties**

<b>No.</b>	<b>Organization/Agency</b>	<b>Contact Person</b>
1	State Water Resource Control Board, Division of Drinking Water	Mr. Kurt Souza
2	Los Angeles County Public Health	Ms. Isabella Kwok
3	Los Angeles County Public Health	Mr. Scott Abbott
4	County of Ventura, Environmental Health Division	Mr. Charles Genkel
5	County of Ventura, Environmental Health Division	Mr. William Stratton
6	Ventura County	Mr. Damon Wing
7	City of Los Angeles	Mr. Hyginus Mmeje
8	City of Malibu	Mr. Andrew Sheldon
9	Heal the Bay	Ms. Sarah Sikich
10	Heal the Bay	Mr. Steven Johnson
11	Heal the Bay	Ms. Annelisa Moe
12	Natural Resources Defense Council	Ms. Joan Matthews
13	Natural Resources Defense Council	Ms. Corinne Bell
14	LA Water Keeper	Ms. Melissa Kelly
15	LA Water Keeper	Mr. Bruce Reznik
16	Environment Now	Ms. Jill Gravender

**Permittees**

<b>No.</b>	<b>Order No.</b>	<b>Facility</b>	<b>Contact Person</b>
17	01-005	Malibu Beach R.V. Park	Mr. Leslie London
18	R4-2002-0200	Duke's Malibu	Mr. Jimmy Chavez
19	R4-2003-0047	Malibu Beach Inn	Mr. Robert Segismundo
20	R4-2003-0085	Catalina Station at Hen Rock	Mr. David Robinson
21	R4-2005-0041	Point Dume Club WWRP	Ms. Deborah Miller
22	R4-2005-0073	Button Shell Beach/Fox Landing	Mr. Ralph Hoetger
23	R4-2007-0041	The Thacher School Wastewater Treatment Plant	Mr. Ed Bennett
24	R4-2008-0206	Thomas Aquinas College	Mr. Peter Deluca
25	R4-2010-0072	Malibu Cantina LLC	Mr. Mike Jones
26	R4-2010-0073	Wavebreak, LLC	Mr. Mike Jones
27	R4-2011-0193	Todd Road Jail WWTP	Mr. Eric Keller
28	R4-2012-0073	Malibu Bay Club WWTP	Mr. Richard Jones
29	R4-2012-0108	San Miguel Produce WWTP	Mr. Roy Nishimori
30	R4-2013-0079	Camp Hess Kramer	Mr. Rick Waters
31	R4-2017-0186	Fillmore WWTP And Wastewater Recycling Plant	Mr. David Rowlands
32	R4-2013-0179	Hollandia Produce, LLC	Ms. Jessica A'aitui
33	R4-2009-0027	New Piru WTF	Ms. Michaela Brown
34	R4-2014-0040	Limoneira WWTP	Ms. Rosie Castillo
35	R4-2014-0188	Trancas WPCP	Mr. Martin Moreno
36	R4-2009-0111	Los Angeles City Fire Dept Camp 14	Mr. John Adkins

<b>Permittees</b>			
<b>No.</b>	<b>Order No.</b>	<b>Facility</b>	<b>Contact Person</b>
37	R4-2015-0050	Camps Miller and Kilpatrick WWTP	Mr. Al Tizani
38	R4-2011-0177	Paradise Ranch Wastewater Treatment Plant	Mr. Robert Cole
39	R4-2004-0146	Residence At 3348 Mandeville Canyon Road	Ms. Kathryn Retzer
40	2014-0153-DWQ	Los Angeles Cnty Fire Dept Fire Camp 19	Mr. Tony Jimenez
41	2014-0153-DWQ	Malibu Sands	Mr. John Prabhu
42	2014-0153-DWQ	Santa Fe Dam Sports Park	Mr. Jim Smith
43	2014-0153-DWQ	Mandalay Generating Station (Advanced Onsite Sewage Treatment System)	Ms. Julie Babcock
44	2014-0153-DWQ	Crummer Site	Mr. Robert Gold
45	97-010-DWQ	Dan Blocker Beach General Improvements Project	Mr. Ismael Lopez
46	97-010-DWQ	Geoffreys Of Malibu	Mr. Jeffrey Peterson
47	2014-0153-DWQ	Julie Moses Residence	Ms. Julie Moses
48	97-010-DWQ	Portico at Malibu	Mr. Mike Dexter
49	97-010-DWQ	Surfrider (Septic Tank)	Mr. Alessandro Zampedri
50	97-010-DWQ	Surfrider County Beach, Lifeguard Station & Bathhouse	Ms. Ismael Lopez
51	2014-0153-DWQ	Towing Site	Mr. Robert Gold
52	97-010-DWQ	Trancas Country Market	Mr. Alberro Valner
53	2014-0153-DWQ	Villa Malibu Advanced OWTS	Ms. Joyce Yonce
54	2014-0153-DWQ	Villa Malibu Advanced OWTS	Mr. Mario Tija
55	97-010-DWQ	Zuma Beach Lifeguard HQ	Ms. Ismael Lopez

**Permittees**

<b>No.</b>	<b>Order No.</b>	<b>Facility</b>	<b>Contact Person</b>
56	97-010-DWQ	Zuma Beach Restroom #3 & 4, Food Stand 1	Ms. Ismael Lopez
57	97-010-DWQ	Zuma Beach Restroom #6, FD STD 2, ST YRD	Ms. Ismael Lopez
58	97-010-DWQ	Zuma Beach Restroom Station #1	Ms. Ismael Lopez
59	97-010-DWQ	Zuma Beach Restroom Station #7	Ms. Ismael Lopez
60	97-010-DWQ	Zuma Beach Restroom Station #8	Ms. Ismael Lopez
61	97-010-DWQ	Zuma Beach Restroom Station #9	Ms. Ismael Lopez
62	2014-0153-DWQ	Cesar Pena Residence	Mr. Cesar Pena
63	2014-0153-DWQ	Decca Development, Inc.	Mr. Karnig Dukmajian
64	2014-0153-DWQ	Jonathan Azal Residence	Mr. Jonathan Azal
65	2014-0153-DWQ	Margot Mandel Property	Ms. Margot Mandel
66	2014-0153-DWQ	Martin Bros. / Marcowall, Inc.	Mr. Robert Klugh
67	2014-0153-DWQ	Single Family Residence	Ms. Lucine Tataryan

# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

320 West 4<sup>th</sup> Street, Suite 200, Los Angeles, California 90013  
(213) 576-6660 • Fax (213) 576-6640  
<http://www.waterboards.ca.gov/losangeles/>

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**ORDER NO. R4-2019-XXXX**

## **GENERAL WASTE DISCHARGE REQUIREMENTS FOR ADVANCED ONSITE WASTEWATER TREATMENT SYSTEMS**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds:

### **BACKGROUND**

1. The California Water Code section 13260(a)(1) requires that any person discharging waste, or proposing to discharge waste, that could affect the quality of the waters of the state, other than into a community sewer system, must file a Report of Waste Discharge (ROWD) with the Regional Board. The Regional Board shall then prescribe requirements for the discharge or proposed discharge of waste pursuant to Water Code section 13263. "Waste" is defined in Water Code section 13050(d).
2. CWC section 13263(i) provides that the Regional Board may prescribe general waste discharge requirements for discharges produced by similar operations, involving similar types of waste, and requiring similar treatment standards. This General Order establishes general waste discharge requirements for certain Advanced Onsite Wastewater Treatment Systems (OWTSs). Discharges from Advanced OWTSs have common characteristics, such as similar constituents of concern and similar concentrations of constituents that can be regulated by the same or similar treatment standards. This General Order applies to discharges from Advanced OWTSs throughout the entire Los Angeles Region including inland and coastal areas of Los Angeles, Ventura, and small portion of Santa Barbara Counties. Only those Advanced OWTSs with a maximum wastewater discharge of 100,000 gallons per day are eligible for coverage under this General Order. An owner and/or operator of Advanced OWTSs is hereafter referred to as Permittee in this General Order. Owners and/or operators of Advanced OWTSs that exceed a maximum wastewater discharge of 100,000 gallons per day must obtain individual waste discharge requirements.
3. Advanced OWTSs may be used for individual residences, multifamily residences, rural parks, schools, campgrounds, mobile home parks, roadside rest stops, small commercial or residential subdivisions, apartments/condominiums, restaurants, resort hotels/lodges, small correctional facilities, temporary fire-fighting camps, recreational vehicle (RV) dump locations, and RV parks.
4. Advanced OWTSs exist within the entire Los Angeles Region, covering inland and coastal areas. The requirements of this General Order are for the purpose of protecting both the beneficial uses of groundwater basins and/or inland or coastal surface waters where groundwater and surface water are hydrologically connected.

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5. The design of OWTSSs can be categorized as “conventional” or “advanced.” Both types of OWTSSs consist of: (1) a septic tank system, (2) a disposal system such as leach line(s) or seepage pit(s), and (3) soil treatment. Advanced OWTSSs include additional treatment.
  - a. Conventional OWTSSs – The septic tank of Conventional OWTSSs provides minimal primary treatment, which separates liquids from solids. The liquids are dispersed in the leach line(s) or seepage pit(s). Percolation of this waste through the soil further treats the waste before reaching groundwater.
  - b. Advanced OWTSSs – Advanced OWTSSs include additional treatment consisting of secondary treatment (such as aerobic [for nitrification] and anaerobic [for denitrification] treatment systems or membrane bioreactors), tertiary treatment (such as sand/media filters), and disinfection (such as chlorination and/or ultraviolet irradiation).
    - i. Nitrification and denitrification involve the conversion of nitrogen compounds by bacteria. Under aerobic conditions, nitrifying bacteria oxidize ammonia or ammonium into nitrite, which is further oxidized into nitrate. Under anaerobic conditions, denitrifying bacteria convert nitrate to atmospheric nitrogen (N<sub>2</sub>). The additional nitrification and denitrification processes greatly reduce the concentrations of ammonium, nitrate, and nitrite in the effluent thus preventing these pollutants from contaminating the groundwater.
    - ii. Tertiary treatment treats harmful bacteria contained in fecal material before reaching groundwater. Wastewater, before disinfection, is filtered through sand/media to remove suspended solids. The reduction of suspended solids in wastewater minimizes bacteria attached on the surface area of solids and improves turbidity to allow for further treatment. Disinfection is mostly accomplished by chlorination and/or ultraviolet (UV) light. Both chlorine and UV light are effective in treating human pathogens in domestic wastewater provided proper dosage of chlorine and/or sufficient contact time for UV light.
6. In both conventional and advanced OWTSSs, the treated wastewater is discharged to a disposal system, followed by soil treatment. Soil provides additional treatment and attenuation of wastes existing in discharged wastewater through the following physical, chemical and biological processes:
  - a. Microorganisms in soil provide nitrification and denitrification to reduce the remaining nitrogen compounds as well as other organic compounds associated with biochemical oxygen demand (BOD).
  - b. The cation exchange capacity of the soil sorbs positively charged ammonium (NH<sub>4</sub><sup>+</sup>).
  - c. Soil functions as a filter to remove total suspended solids (TSS).
  - d. Bacteria including total coliforms (fecal coliform, E. coli) and enterococcus may die off in the dry soil column prior to reaching groundwater.

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Table 1 shows the removal rates of pollutants at 3- to 5-feet depth below ground surface (bgs) after percolating through soil.

<b>Table 1 – Removal Rates of Constituents via Soil Column [1]</b>				
<b>Pollutants</b>	<b>BOD</b>	<b>TSS</b>	<b>Total Nitrogen</b>	<b>Bacteria</b>
<b>Removal Rates</b>	> 90%	> 90%	10-20%	> 99.99%

**Table Note:**

[1] USEPA Onsite Wastewater Treatment System Manual, June 2005, EPA/625/R-00/008.

7. Minimum setbacks of wastewater treatment areas, dispersal areas, and/or land application areas (LAAs) from domestic wells, flowing and/or ephemeral streams, lakes/reservoirs, and property lines are usually required for dischargers using Conventional OWTSSs. Setbacks are included as a means of reducing pathogenic risks by coupling pathogen inactivation rates with groundwater travel time to a well or other potential exposure route (e.g. water contact activities). In general, a substantial unsaturated zone reduces pathogen survival compared to saturated soil conditions. Fine grained (silt or clay) soil particles reduce the rate of groundwater transport and therefore are generally less likely to transport pathogens; coarse grained soil particles or fracture flow groundwater conditions may be more likely to transport pathogens. Setbacks also provide attenuation of other wastewater constituents through physical, chemical, and biological processes. The setbacks are based on: (1) California Code of Regulations, title 22 Water Recycling Criteria, (2) California Well Standards, (3) the State Water Resources Control Board's (State Water Board's) Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems (OWTS Policy), (4) California Plumbing Code, and (5) commonly imposed setbacks by regulatory agencies.

Specific minimum setbacks requirements are not required in this General Order because this General Order regulates discharges from Advanced OWTSSs only. Advanced OWTSSs incorporate additional treatment including nitrification, denitrification and disinfection making such minimum setback requirements generally unnecessary.

8. This General Order allows for the use of treated wastewater as recycled water for non-human contact subsurface landscape irrigation only. Such recycled water use, is not subject to the Title 22 Water Recycling Criteria.
9. For the use of treated wastewater for other Title 22 non-potable recycled water applications, including, but not limited to surface landscape irrigation and/or dust control, a Title 22 Engineering Report shall be prepared by the Permittee, and shall be reviewed and approved by the Division of Drinking Water (DDW) of the State Water Board and the Regional Board. The additional recycled water requirements for other Title 22 non-potable recycled water applications are specified in Sections III, V, VI, and VII.

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## APPLICABLE LAWS, PLANS, POLICIES, AND REGULATIONS

10. Water Quality Control Plan for the Los Angeles Region for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan): The Basin Plan: (1) designates beneficial uses for surface and groundwater, (2) establishes narrative and numeric water quality objectives that must be attained or maintained to protect the designated beneficial uses, and (3) sets forth implementation programs to achieve those objectives for all waters addressed through the Basin Plan. The Basin Plan also incorporates applicable State Water Board plans and policies and other pertinent water quality policies and regulations, including State Water Board Resolution No. 68-16 (see finding below for detail). The requirements in this General Order implement the Basin Plan, including any prohibitions and/or water quality objectives, governing the discharge.

Designated beneficial uses of groundwater in the Los Angeles Region include municipal supply (MUN), industrial service supply (IND), industrial process supply (PROC), agricultural supply (AGR), and aquaculture (AQUA). Some beneficial uses only apply to certain geographic areas within the Los Angeles Region. The beneficial uses of any specifically identified water body, groundwater included, generally apply to all tributaries. Downgradient groundwater basins from the discharge location of the Advanced OWTs must be protected.

11. State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California", (also called the "Antidegradation Policy") requires the Regional Board, in regulating the discharges of waste, to maintain high quality waters of the state unless it is demonstrated that any change in quality is consistent with maximum benefit to the people of the State, will not unreasonably affect beneficial uses, and will not result in water quality less than that described in the State Water Board's policies. Further, any activity that produces waste must meet waste discharge requirements that will result in the best practicable treatment or control of the discharge necessary to ensure that (1) pollution or nuisance will not occur and (2) the highest water quality consistent with maximum benefit to the people of the State will be maintained.

This General Order is not expected to result in degradation of groundwater or surface water. To the extent any degradation occurs, it is consistent with the maximum benefit to the people of the state, will not impact beneficial uses, and will not result in water quality less than the Basin Plan standards. This General Order sets forth requirements that will result in best practicable treatment or control of the discharge. The General Order sets forth influent standards and numeric effluent and receiving water limitations based on the applicable Basin Plan or State Water Board plans and policies and using best professional judgement. This General Order includes prohibitions on discharges and operational requirements to protect the waters of the state and human health. Compliance with the requirements of the permit will protect and maintain existing and potential beneficial uses of both groundwater and surface waters in the Los Angeles Region. Numeric limitations that apply to Advanced OWTs in inland areas are protective of underlying groundwater. Numeric limitations that apply to Advanced OWTs in coastal areas are protective of surface water that may be hydrologically connected to underlying shallow groundwater.

12. In 2000, the California Legislature passed Assembly Bill 885 (CWC section 13290) that required the State Water Board to adopt regulations or standards for the permitting and operation of OWTs. On June 19, 2012, the State Water Board adopted the "Water Quality

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*Control Policy for Siting, Design, Operation and Maintenance of Onsite Wastewater Treatment Systems*” (OWTS Policy), Resolution No. 2012-0032. The OWTS Policy became effective on May 13, 2013 and was subsequently incorporated into the Regional Board’s Basin Plan through Resolution No. R14-007 on May 8, 2014. The OWTS Policy sets minimum standards for OWTSs and for OWTSs program administration by local agencies.

The OWTS Policy identified onsite wastewater disposal as a potential contributing source of pathogens or nitrogen to an impaired water body. In general, wastewater systems located within the geographic areas where total maximum daily loads (TMDLs) are developed for nutrient and/or pathogens, or areas that are within 600 feet from surface waters listed on the Clean Water Act Section 303(d) List of water quality limited segments shall include advanced treatment processes to protect groundwater and surface water quality and beneficial uses. This General Order implements the OWTS Policy for wastewater discharges from Advanced OWTSs. The State Water Board has adopted Water Quality Order 2014-0153-DWQ General Waste Discharge Requirements for Discharges to Land by Small Domestic Systems. That State Board General Order applies to conventional OWTSs throughout California, including the Los Angeles Region. Conventional OWTSs covered by the State Water Board General Order are not eligible to enroll in this Regional Board General Order for Advanced OWTSs.

13. Consistent with CWC section 13241, the Water Board, in establishing the requirements contained herein, considered factors including, but not limited to, the following:
  - a. Past, present, and probable future beneficial uses of water.
  - b. Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto.
  - c. Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area.
  - d. Economic considerations.
  - e. The need for developing housing within the region(s).
  - f. The need to develop and use recycled water.

This General Order implements the Regional Board’s Basin Plan and other applicable plans and policies to protect the beneficial uses of the ground and surface water that could be impacted by the discharges authorized by this General Order; takes into account the environmental characteristics of the receiving waters by including numeric effluent and receiving water limitations and other requirements to protect both inland and coastal areas; considers the water quality conditions by imposing requirements specifically to address Advanced OWTSs; takes into account economics by using general waste discharge requirements rather than individual requirements to regulated Advanced OWTSs; addresses housing by continuing to allow for the use of Advanced OWTSs; and allows for the use of recycled water for subsurface landscape irrigation.

14. Water Code section 13263(i) states the Regional Board may prescribe general waste discharge requirements for a category of discharges if the Regional Board finds or determines that all of the following criteria apply to the discharges in that category:
  - a. The discharges are produced by the same or similar operations.
  - b. The discharges involve the same or similar types of waste.
  - c. The discharges require the same or similar treatment standards.
  - d. The discharges are more appropriately regulated under general WDRs than individual WDRs.

These criteria apply to the Advanced OWTSSs regulated under this General Order and therefore a general order is appropriate. All discharges regulated under this General Order are from similar operations – all the systems subject to this order are Advanced OWTSSs; they all involve the treatment and discharge of domestic wastewater and such wastewater requires the same or similar treatment standards (e.g. screening, settling, biological treatment, clarification, and application to land). Individual WDRs are not necessary because the discharges are similar and discharge requirements would be similar. The adoption of new General WDRs for Advanced OWTSSs in the coastal and inland areas would: (1) simplify the application process for dischargers, (2) allow more efficient use of Regional Board staff time, (3) reduce Regional Board staff time by enabling the Executive Officer to notify the dischargers of the applicability of the General WDRs, (4) enhance the protection of surface water quality by eliminating the discharge of wastewater to surface waters, (5) promote the use of recycled water, if appropriate, and (6) provide a level of protection comparable to individual, site-specific WDRs.

15. This General Order does not preempt or supersede the authority of municipalities, flood control agencies, or other local agencies to prohibit, restrict, or control discharges of waste subject to their jurisdiction.
16. CWC 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.”

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The technical reports required by this General Order and the attached Monitoring and Reporting Program are necessary to assure compliance with this General Order. The burden and cost of preparing the reports is reasonable and consistent with the interest of the state in maintaining water quality. The types and frequency of reports is similar to what has been required in the previous permits issued to Advanced OWTS owners and operators and such reports are effective in determining compliance. The Permittees operate the facilities that discharge the waste subject to this General Order.

### CALIFORNIA ENVIRONMENTAL QUALITY ACT

17. This General Order is intended to cover both new and existing Advanced OWTSs.
18. The Regional Board is the lead agency for the adoption of this General Order pursuant to the California Environmental Quality Act (Public Resources Code section 21000 et seq.) and has conducted an Initial Study in accordance with section 15063 of the "State CEQA Guidelines" at California Code of Regulations, title 14, section 15000 et seq. Based upon the Initial Study, the Regional Board prepared a Mitigated Negative Declaration concluding that the project will not have a significant adverse effect on the environment and the Regional Board adopts Resolution No. R19-XXX approving the Mitigated Negative Declaration and the Environmental Checklist in this Order. The Mitigated Negative Declaration identifies environmental impacts that are less than significant impact regarding 1) *Air Quality* and 2) *Hydrology and Water Quality*. The Mitigated Negative Declaration identifies the possible mitigation measures and the actions to be taken to reduce the impacts, if necessary. The Permittee is required by this General Order to obtain and comply with applicable permits of other agencies. This General Order includes a monitoring and reporting program to assure protection of water quality.

### APPLICATION PROCESS

19. Dischargers seeking coverage under this General Order shall file an ROWD with the Regional Board. The application process is summarized in Attachment A. An ROWD consists of:
  - a. A completed Form 200, which is available at:  
<[http://www.waterboards.ca.gov/publications\\_forms/forms/docs/form200.pdf](http://www.waterboards.ca.gov/publications_forms/forms/docs/form200.pdf)>.
  - b. An application fee that serves as the first annual fee. Fees are based on threat and complexity ratings and the treatment technology employed. Threat and complexity ratings are defined in the fee schedule listed in California Code of Regulations, title 23, section 2200 and also available at:  
<[http://www.waterboards.ca.gov/resources/fees/docs/fy1112fee\\_schdl\\_wdr.pdf](http://www.waterboards.ca.gov/resources/fees/docs/fy1112fee_schdl_wdr.pdf)>. This Order regulates land discharges that have a threat to water quality of category 3 and complexity rating of B for a combined rating of 3-B.
  - c. A technical report that describes the wastewater generation, treatment, storage, and disposal. Submittal of the report in the recommended format provided in Attachment B will allow for an expedited review by Regional Board staff.

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Upon review of the ROWD, Regional Board staff will determine if the applicant is eligible for coverage under this General Order. The Regional Board's Executive Officer will issue a Notice of Applicability (NOA) when coverage under this General Order has been authorized. The NOA will contain the necessary site-specific monitoring and reporting requirements.

18. Although an applicant may be eligible for coverage under this General Order, the Regional Board may determine that the discharge would be better regulated by a waiver of waste discharge requirements, individual waste discharge requirements, a different general order, an enforcement order, or a National Pollutant Discharge Elimination System (NPDES) Permit.

## NOTIFICATION

20. The Regional Board has notified potential Permittees and interested agencies and persons of its intent to prescribe General WDRs for discharges from Advanced OWTSs and has provided them with an opportunity to submit their written comments and recommendations.
21. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.
22. Any person aggrieved by this action of the Regional Board may petition the State Water 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 Board must receive the petition by 5:00 p.m., 30 days after the Regional Board's action, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions will be provided upon request or may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality)

**IT IS HEREBY ORDERED** that, in order to meet the provisions contained in Division 7 of the CWC (commencing with section 13000) and regulations adopted thereunder, the Permittee shall comply with the following requirements, including all attachments, in all operations and activities pertaining to the Advanced OWTS at the Permittee's property:

### I. INFLUENT LIMITATIONS AND REQUIREMENTS

Influent to an Advanced OWTS shall be limited to domestic wastewater sources including, but not limited to, individual residences, multifamily residences, rural parks, schools, campgrounds, mobile home parks, roadside rest stops, small commercial or residential subdivisions, apartments/condominiums, restaurants, resort hotels/lodges, small correctional facilities, temporary fire-fighting camps, recreational vehicle (RV) dump locations, and RV parks.

### II. EFFLUENT QUANTITY LIMITATION

The maximum wastewater discharge from an Advanced OWTS shall not exceed its design volume or 100,000 gallons per day, whichever is less.

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### III. EFFLUENT QUALITY LIMITATIONS FOR DISCHARGE

The treated effluent quality shall not exceed the effluent limitations specified below for Advanced OWTs:

- A. Discharges from Advanced OWTs shall meet the following effluent limitations (Table 2).

Table 2 – Effluent Limitations <sup>[1]</sup> for Advanced OWTs				
Constituent	Unit <sup>[2]</sup>	Monthly Average	Weekly Average	Daily Maximum
BOD <sub>5@20°C</sub> <sup>[3][4]</sup>	mg/L	30	45	--
Oil and Grease <sup>[5]</sup>	mg/L	10	--	15
Nitrate-N <sup>[6]</sup>	mg/L	10	--	--
Nitrite-N <sup>[6]</sup>	mg/L	1	--	--
Nitrate + Nitrite-N <sup>[6]</sup>	mg/L	10	--	--
Total Dissolved Solids	mg/L	<sup>[7]</sup>	--	--
Sulfate	mg/L	<sup>[7]</sup>	--	--
Chloride	mg/L	<sup>[7]</sup>	--	--
Boron	mg/L	<sup>[7]</sup>	--	--
Total Residual Chlorine <sup>[8]</sup>	mg/L	--	--	0.1
Constituent	Unit	Instantaneous Minimum	Instantaneous Maximum	--
pH <sup>[5]</sup>	pH Unit	6	9	--
Constituent	Unit	Weekly Median	Monthly	Maximum
Total Coliform for Secondary Treatment System <sup>[9][10]</sup>	MPN/100 mL	23	240	--
Total Coliform for Tertiary Treatment System <sup>[9][11]</sup>	MPN/100 mL	2.2	23	240

**Table Notes:**

- [1] The effluent limitations set forth above with the exception of turbidity and total coliform are applicable for both secondary and tertiary treatment Advanced OWTs. The effluent limitations for total coliform for secondary and tertiary treatment Advanced OWTs are specified in Table Notes [9] and [10], respectively.
- [2] mg/L: milligrams per liter  
 NTU: nephelometric turbidity unit  
 MPN/100mL: most probable number per 100 milliliters
- [3] BOD: Biochemical Oxygen Demand
- [4] Limitations are based on secondary treatment requirements, 40 C.F.R. § 133.102.
- [5] Limitations are based on best professional judgment.

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- [6] Based on the Groundwater Quality Objective for nitrogen specified in the Basin Plan.
- [7] Based on the site-specific Groundwater Quality Objectives for the named groundwater basin in the Basin Plan or the Tributary Rule, which will be provided and specified in the **enrollment letter**. These objectives are applicable to inland discharges (where underlying groundwater basins underneath have designated beneficial uses and/or are tributary to groundwater basins with beneficial uses) and are not applicable to coastal discharges (where underlying groundwater basins may be under tidal influence or immediately hydrologically connected with the ocean).
- [8]. Applicable only if chlorination is used for disinfection.

**Inland discharge:** The limit for residual chlorine is based on the Basin Plan (Page 3-9) narrative, "Chlorine residual shall not be present in surface water discharges at concentrations that exceed 0.1 mg/L and shall not persist in receiving waters at any concentration that causes impairment of beneficial uses." Chlorine with 0.1 m/L and above in effluent is harmful to some aquatic life, this level of residual chlorine discharged via land to the receiving groundwater near river/coastal areas will be reduced by soil attenuation, diluted by groundwater, and further diluted by river/ocean water. Once reaching river/ocean, the residual chlorine in river/ocean should insignificantly affect aquatic life. It is impracticable to use a 7-day average or a 30-day average limitation, because chlorine is very toxic to aquatic life and short-term exposures of chlorine may cause aquatic life killed.

**Coastal discharge:** Chlorine with 0.1 m/L in effluent is harmful to some marine life. Residual chlorine discharged to land to will be attenuated by soil, diluted by groundwater, and further diluted by ocean water. Once reaching ocean, the remaining residual chlorine should be significantly less than 0.06 mg/L, which meets the Ocean Plan Water Quality Objective. The rationale above is based on Best Professional Judgment.

- [9]. To determine the effectiveness of treatment, the United States Environmental Protection Agency (USEPA) recommends testing for *Escherichia coli* (E. coli, a type of fecal coliform) and enterococci bacteria, which exist in fecal material from humans and other warm-blooded animals, as the best indicators of health risk from water contact. E. coli is one of the five general groups of total coliforms. The USEPA considers total coliforms a useful indicator for possible water contamination. The effectiveness of disinfection procedures for total coliforms are similar for E. coli and enterococci bacteria, therefore, there is no need to monitor them separately in wastewater effluent. The reliance on total coliforms, which can be analyzed using less expensive methods, is appropriate to determine if OWTS effluent is effectively disinfected.

- [10]. Based on Title 22 disinfected secondary recycled water criteria.

The median total coliform bacteria in the disinfected effluent shall not exceed 23 MPN/100 mL utilizing the bacteriological results of the last week for which analyses are completed.

Total coliform bacteria shall not exceed 240 MPN/100 mL in more than one sample in any month.

- [11]. Based on Title 22 disinfected tertiary recycled water criteria.

The median total coliform bacteria in the disinfected effluent shall not exceed 2.2 MPN/100 mL utilizing the bacteriological results of the last week for which analyses are completed.



The total coliform bacteria shall not exceed 23 MPN/100 mL in more than one sample in any month.

No sample shall exceed a 240 MPN/100 mL, any time.

- B. A filtered wastewater shall be an oxidized wastewater that has been passed through a filtration system so that the turbidity of the filtered wastewater does not exceed any of the following:
1. An average of 2 Nephelometric Turbidity Units (NTU) within a 24-hour period;
  2. 5 NTU more than 5 percent of the time within a 24-hour period; and
  3. 10 NTU at any time.
- C. Maximum Contaminant Levels: The effluent shall not contain trace, toxic and other constituents in concentrations that exceed the applicable maximum contaminant levels for drinking water established by the State Water Board's Division of Drinking Water (DDW) in sections 64431, 64442, 64443, 64444, 64449, and 64533 of CCR, Title 22, Division 4, or subsequent revisions, or at levels that adversely affect the beneficial uses of receiving groundwater. The effluent shall, at all times, not exceed the following MCLs (Attachment C). In the event of a violation of any primary or secondary MCL, the City shall notify and submit a report in accordance with Provision VI.F. of this Order.
1. Primary MCLs specified in CCR, Title 22, Division 4, Chapter 15 (Domestic Water Quality and Monitoring Regulations):
    - i. Inorganic chemicals in CCR, Title 22, Division 4, Chapter 15, Section 64431, Table 64431-A, except for nitrogen compounds (Attachment C-1 of this Order);
    - ii. Radionuclides in CCR, Title 22, Division 4, Chapter 15, Section 64442, Table 64442 (Attachment C-2 of this Order) and Section 64443, Table 64443 (Attachment C-3 of this Order); and
    - iii. Organic chemicals in CCR, Title 22, Division 4, Chapter 15, Section 64444, Table 64444-A (Attachment C-4 of this Order).
  2. Secondary MCLs specified in CCR, Title 22, Division 4, Chapter 15 (Domestic Water Quality and Monitoring Regulations), Section 64449, Table 64449-A (Attachment C-5 of this Order).
  3. Primary MCLs for disinfection byproducts specified in CCR, Title 22, Division 4, Chapter 15.5 (Disinfectant Residuals, Disinfection Byproducts, and Disinfection Byproduct Precursors) Article 2, Section 64533, Table 64533-A (Attachment C-6 of this Order).

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- D. Samples shall be collected at a time when wastewater flow and characteristics are most demanding (e.g., during normal peak loading conditions) on treatment facilities and disinfection processes.

#### IV. GROUNDWATER LIMITATIONS

The discharge is prohibited from degrading the quality or altering the elevation of the underlying groundwater. The discharge of treated wastewater from the Advanced OWTs shall not cause an exceedance of the following groundwater limitations in Tables 3 and 4 below. The specific monitoring well locations shall be determined through the Monitoring and Reporting Program (MRP) (Attachment D). Per Section III.B of the MRP, the Permittee may be required to submit a work plan proposing a groundwater monitoring network, if necessary.

- A. Advanced OWTs within inland areas

Discharges from Advanced OWTs shall not cause the underlying groundwater designated with beneficial uses, or tributary to a groundwater basin, to exceed the groundwater quality objectives set forth in the table below.

Table 3 – Groundwater Limitations for Advanced OWTs located in Inland Areas		
Constituents	Units	Monthly Average
Nitrate-N + Nitrite-N	mg/L	10 [1]
Nitrate-N	mg/L	10 [1]
Nitrite-N	mg/L	1 [1]
Total Dissolved Solids	mg/L	[2]
Sulfate	mg/L	[2]
Chloride	mg/L	[2]
Boron	mg/L	[2]
Total coliform	MPN/100mL	1.1 [1]
Total Residual Chlorine	mg/L	0.1 [3, 4]

**Table Notes:**

- [1] Based on Basin Plan Groundwater Quality Objective.
- [2]. Based on site-specific Groundwater Quality Objective for named groundwater basins in the Basin Plan or Tributary Rule, which will be provided and specified in the **enrollment letter**.
- [3]. Based on Basin Plan Inland Surface Water Quality Objective.
- [4]. Applicable only if chlorination is used for disinfection.

- B. Advanced OWTs in coastal areas

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Discharges from Advanced OWTs shall not cause underlying groundwater basins that may be under tidal influence or immediately hydrologically connected with the ocean to exceed the Ocean Plan water quality objectives set forth in the table below:

Table 4 – Groundwater Limitations for Advanced OWTs in Coastal Areas		
Constituents	Units	Monthly Average
Nitrate-N + Nitrite-N	mg/L	10 [1]
Nitrate-N	mg/L	10 [1]
Nitrite-N	mg/L	1 [1]
Total Residual Chlorine	mg/L	0.1 [2, 3]
Total coliform	MPN/100mL	10,000 [4]
Fecal coliform	MPN/100mL	400 [4]
Enterococcus	MPN/100mL	104 [4]

**Table Notes:**

- [1] Based on Basin Plan Groundwater Quality Objective.
- [2]. Limit based on the Basin Plan. Chlorine with 0.1 m/L in effluent is harmful to some marine life, residual chlorine discharged to land to will be attenuated by soil, diluted by groundwater, and further diluted by ocean water. Once reaching ocean, the remaining residual chlorine should be significantly less than 0.06 mg/L, which meets the Ocean Plan Water Quality Objective. The rationale above is based on Best Professional Judgment.
- [3]. Applicable only if chlorination is used for disinfection.
- [4]. Based on Ocean Plan Bacteria Objectives.

**V. SPECIFICATIONS FOR USE OF RECYCLED WATER**

- A. The Permittee is the distributor of the recycled water and responsible for recycled water uses for non-human contact **subsurface landscape irrigation**.
- B. Recycled water shall not be used for direct human consumption or for the processing of food or drink intended for human consumption.
- C. The Executive Officer of the Regional Board is delegated with authority to approve the recycled water used for non-human contact **subsurface landscape irrigation**. The Permittee must furnish an application for the Executive Officer’s approval prior to the treated effluent as recycled water used for the non-human contact **subsurface landscape irrigation**.
- D. The Permittee shall submit a Title 22 Engineering Report to DDW and the Regional Board for review and approval, if additional Title 22 non-potable recycled water application(s) are proposed, including dust control and surface irrigation.

**VI. USE AREA REQUIREMENTS**

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“Use area” means an area with defined boundaries. The Permittee shall be responsible to ensure that all users of recycled water comply with the following:

- A. No irrigation with, or impoundment of, disinfected recycled water shall take place within 900 feet of any domestic water supply well.
- B. Recycled water shall be applied at agronomic rates and when soil is not saturated, such that volume does not exceed vegetative demand and soil moisture conditions. Pipelines shall be maintained so as to prevent leakage.
- C. Any incidental runoff from recycled water projects shall be handled as follows:
  - 1. The discharge of recycled water to surface water is prohibited.
  - 2. Discharges of recycled water to surface waters may only occur where regulated under a separate NPDES permit issued by the Regional Board.
- D. Recycled water shall not be used for irrigation during periods of rainfall and/or runoff.
- E. Recycled water shall be retained on the designated area and shall not be allowed to escape as surface flow.
- F. No physical connection shall be made or allowed to exist between any recycled water piping and any piping conveying potable water, except as allowed under Section 7604 of Title 17, CCR.
- G. The portions of the recycled water piping system that are in areas subject to access by the general public shall not include any hose bibs (a faucet or similar device to which a common garden hose can be readily attached). Only quick couplers that differ from those used on the potable water system shall be used on the portions of the recycled water piping system in areas subject to public access.
- H. Recycled water used for non-human contact subsurface landscape irrigation or other Title 22 non-potable recycled water applications shall not result in earth movement in geologically unstable areas.
- I. All above ground irrigation appurtenances need to be marked appropriately.
- J. Spray, mist, or runoff shall not enter dwellings, designated outdoor eating areas, or food handling facilities, and shall not contact any drinking water fountain.
- K. All recycled water use areas that are accessible to the public shall be posted with signs that are visible to the public, in a size no less than 4 inches high by 8 inches wide, that include the following wording: “RECYCLED WATER – DO NOT DRINK” as shown in Figure 1. Each sign shall display an international symbol similar to that shown in Figure 1. An alternative signage and wording may be used upon approval by the Executive Officer of the Regional Board.
- L. Any additional use area requirement is subject to DDW approval.

## VII. REQUIREMENTS FOR DUAL-PLUMBED SYSTEM

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- A. "Dual plumbed" means a system that utilizes separated piping systems for recycled water and potable water within the Permittee's property and where the recycled water is used for a subsurface landscape irrigation and surface irrigation.
- B. The public water supply shall not be used as a backup or supplemental source of water for a dual-plumbed recycled water system.
- C. Any additional requirement for dual-plumbed system is subject to DDW approval.

**VIII. GENERAL REQUIREMENTS**

- A. The siting, design, construction, operation, maintenance, and monitoring of the Advanced OWTs covered by this General Order must comply with all applicable provisions of the Basin Plan and applicable statewide plans and policies.
- B. Adequate facilities shall be provided to protect the Advanced OWTs from damage by storm flows and run-off or run-on generated by a 100-year return storm/24-hour duration. Adequate facilities shall also be provided to divert surface and storm water away from the Advanced OWTs.
- C. The cleaning or maintenance of the Advanced OWTs shall be performed solely by a duly authorized service.
- D. Wastewater must be adequately treated prior to disinfection in order for any disinfectant to be effective. Reduction of TSS and BOD is necessary prior to disinfection. TSS may absorb UV radiation, shield microorganisms, and increase chlorine demand. Removing TSS also reduces the number of microorganisms present. Organic compounds associated with BOD also consume added chlorine.
- E. Other dispersal options for the treated effluent may include pressure dosing, drip irrigation, land applications, mound/at grade systems, or evapotranspiration systems. The discussion of treatment and disposal alternatives is not intended to limit the selection of alternatives available to the wastewater system designer. The level of treatment required shall be based upon the wastewater quality and quantity, the receiving water quality at the wastewater disposal location, and the end use of the treated effluent.
- F. The Permittee shall maintain logs of all Advanced OWTs cleaning/maintenance for a period of no less than five (5) years. At a minimum the logs shall include the date of the cleaning/maintenance, nature of cleaning/maintenance work (including volume of waste pumped out), and information on the cleaner including the name, address, phone number, and license number.
- G. The Permittee who accepts wastewater from RVs or other mobile waste systems must ensure that such wastewater does not deleteriously affect the Advanced OWTs.
- H. The Permittee shall ensure that the contents of the Advanced OWTs are disposed of in accordance with all applicable laws and ordinances.

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- I. The Advanced OWTS shall be maintained so that at no time will sewage surface at any location.
- J. A minimal separation between the bottom of the leach line(s) or seepage pit(s) and the groundwater table may be required to prevent surfacing. The separation requirement will be determined based on the site-specific conditions and will be addressed in the enrollment letter issued by the Executive Officer.
- K. The Permittee shall comply with a groundwater monitoring program established by the Executive Officer, where required by the Executive Officer in the enrollment letter, to determine if discharges from the Advanced OWTS may impact or have impacted the receiving groundwater quality.
- L. Any sewage or sludge handling shall be in such a manner as to prevent its reaching surface or watercourses.
- M. Wastewater discharged from the Advanced OWTS may be disposed of by different methods such as through a leach field or seepage pit. The choice of disposal method depends upon the amount of wastewater generated, the wastewater quality, the value of the wastewater for irrigation, and the receiving groundwater.
  - 1. When wastewater discharge via a leach field or seepage pit is selected as a disposal method, adequate acreage must be available to allow application rates that will not create nuisance conditions (e.g. vectors, nuisance odors, off-site discharge) or degrade groundwater quality.
  - 2. If conditions are not favorable for traditional leach field construction, an at-grade, or an above grade (mound) system may be used. Typically, at-grade and above grade systems are dosed using a dosing pump and pump controller. Dosed systems use relatively small diameter pipe to distribute the wastewater to zones within the dispersal area. Even in well operated systems, some suspended solids will be pumped into the distribution piping. Cleanouts or a flushing system on the distribution piping are required to remove the solids that will accumulate if the emitters are small in diameter to prevent suspended solids from passing through the distribution equipment. Gravel-less trench systems which do not use gravel, typically use distribution piping and a dosing system, and should be constructed with cleanouts or a flushing system similar to at-grade and/or above grade systems when needed.
  - 3. Subsurface disposal areas may be planted with shallow rooted plants to prevent erosion and provide for uptake of wastewater nutrients; trees and shrubs should be removed to prevent roots from damaging the leach field. Similarly, burrowing animals can damage an at-grade or above grade (mound) disposal system and result in leakage. Burrowing animals shall be promptly controlled and repairs to the disposal system completed as soon as possible.
- N. The Permittee must notify the Executive Officer, in writing, at least thirty (30) days in advance of any proposed transfer of this General Order's responsibility and coverage to a new Permittee. The notice must include a written agreement between the existing and new Permittee containing a specific date for the transfer of responsibility under

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this General Order and compliance between the current Permittee and the new Permittee. Such agreement shall include an acknowledgement that the existing Permittee is liable for violations up to the transfer date, and that the new Permittee is liable from the transfer date on.

## IX. PROHIBITIONS

- A. Any additional hookups to the Advanced OWTS without prior to written approval from the Regional Board Executive Officer are prohibited.
- B. The surfacing or overflow of sewage from the Advanced OWTS at any time and at any location and the direct or indirect discharge of wastes to waters of the State (including storm drains, groundwater or surface water drainage courses) is prohibited.
- C. The onsite disposal of sludge is prohibited.
- D. Any offsite disposal of sewage or sludge other than to a legal point of disposal is prohibited.
- E. The discharge of treated wastewater that causes or contributes to the following is prohibited:
  - 1. Affects human, animal, or plant life;
  - 2. Causes nuisance or adversely affects any beneficial uses and quality of the receiving groundwater;
  - 3. Impacts the waterbody and watercourse that may be in hydraulic connection with groundwater;
  - 4. Causes earth movement; or
  - 5. Emerges from ground surface.
- F. Odor originating at the Advanced OWTS perceivable any time outside the boundary of the Permittee's property is prohibited.
- G. Bypass or overflow of untreated and treated wastewater is prohibited.
- H. The discharge of waste to land not owned or controlled by the Permittee is prohibited.
- I. The discharge of waste to the Advanced OWTS in excess of its maximum design and disposal capacity is prohibited.
- J. The discharge of wastes from the Advanced OWTS, which is not authorized by this General Order, is prohibited.
- K. Human contact with untreated and treated wastewater is prohibited, unless otherwise approved by the DDW and Water Board.

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## X. PROVISIONS

- A. This Order includes "Attachment E - Standard Provisions Applicable to Waste Discharge Requirements" (Standard Provisions). If there is any conflict between provisions stated herein and the Standard Provisions, the provisions stated herein prevail.
- B. The Permittee shall operate and maintain facilities, treatment operations, associated collection systems and outfalls in ways that preclude adverse impacts to surface or groundwater from impacts predicted to occur due to climate change.
- C. The Permittee shall comply with all provisions and requirement of the MRP (Attachment D), which is part of this Order, and any revisions thereto as ordered by the Executive Officer. The submittal dates of Permittee self-monitoring reports shall be no later than the submittal date specified in the MRP. If there is any conflict between the provisions stated herein and the MRP, the provisions stated herein prevail.
- D. The Permittee shall file with the Regional Board, under penalty of perjury, annual and quarterly reports on self-monitoring work performed according to the detailed specifications contained in the MRP attached hereto and incorporated herein by reference, as directed by the Executive Officer. The results of any monitoring done in addition to what is required or done more frequently than required at the location and/or times specified in the MRP shall be reported to the Regional Board.
- E. The Permittee shall notify this Regional Board by telephone or electronic means within 24 hours of knowledge of any discharge exceeding the effluent limits prescribed in this Order from the Advanced OWTs; written confirmation shall follow within 5 working days from date of notification, unless otherwise specified in this Order. The report shall include, but is not limited to, the following information, as appropriate:
1. Nature and extent of the violation;
  2. Date and time: when the violation started, when compliance was achieved, and when treatment and/or discharge were suspended and restored, as applicable;
  3. Duration of violation;
  4. Cause(s) of violation;
  5. Corrective and/or remedial actions taken and/or will be taken with a time schedule for implementation to prevent future violations; and
  6. Impact of the violation.
- F. This Order does not exempt the Permittee from compliance with any other laws, regulations, or ordinances that may be applicable; it does not legalize the recycling and use facilities; and it does not affect any further constraint on the use of recycled water at certain site(s) that may be contained in other statutes or required by other agencies.

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- G. This Order does not alleviate the responsibility of the Permittee to obtain other necessary local, state, and federal permits to construct facilities necessary for compliance with this Order; nor does this Order prevent imposition of additional standards, requirements, or conditions by any other regulatory agency. Expansion of the recycled water distribution facility shall be contingent upon issuance of all necessary requirements and permits, including a conditional use permit.
- H. After notice and opportunity for a hearing, this Order may be modified, revoked and reissued, or terminated for cause, that includes, but is not limited to: failure to comply with any condition in this Order, endangerment of human health, adverse impacts on water quality and/or beneficial uses of the receiving water resulting from the permitted activities in this Order, obtaining this Order by misrepresentation or failure to disclose all relevant facts, and acquisition of new information that could have justified the application of different conditions if known at the time of Order adoption.
- I. The filing of a request by the Permittee for modification, revocation and reissuance, or termination of this Order; or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

#### **XI. REOPENER**

The Regional Board will review this Order periodically and will revise requirements when necessary. The waste discharge requirements and monitoring and reporting requirements in this Order were developed based on currently available technical information and applicable water quality laws, regulations, policies, and plans, and are intended to assure compliance with them. If applicable laws and regulations change, including but not limited to, establishment of TMDLs, or once new information is obtained that will change the overall discharge and its potential to impact waters of the state, it may be appropriate to reopen this Order. This Order may also specifically be reopened to make revisions consistent with an approved salt and nutrient management plan.

#### **XII. EFFECTIVE DATE**

This Order becomes effective immediately upon its adoption.

I, Deborah J. Smith, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on February 14, 2019.

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Deborah J. Smith  
Executive Officer

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# Attachment A – Report of Waste Discharge (RoWD) - Form 200

## INTRODUCTION

This application package constitutes a Report of Waste Discharge (ROWD) pursuant to California Water Code Section 13260. Section 13260 states that persons discharging or proposing to discharge waste that could affect the quality of the waters of the State, other than into a community sewer system, shall file a ROWD containing information which may be required by the appropriate Regional Water Quality Control Board (RWQCB).

This package is to be used to start the application process for all waste discharge requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permits\* issued by a RWQCB except:

- a) Those landfill facilities that must use a joint Solid Waste Facility Permit Application Form, California Integrated Waste Management Board Form E-1-77; and
- b) General WDRs or general NPDES permits that use a Notice of Intent to comply or specify the use of an alternative application form designed for that permit.

### **This application package contains:**

1. Application/General Information Form for WDRs and NPDES Permits [Form 200 (10/97)].
2. Application/General Information Instructions.

### **Instructions**

Instructions are provided to assist you with completion of the application. If you are unable to find the answers to your questions or need assistance with the completion of the application package, please contact your RWQCB representative. *The RWQCBs strongly recommend that you make initial telephone or personal contact with RWQCB regulatory staff to discuss a proposed new discharge before submitting your application.* The RWQCB representative will be able to answer procedural and annual fee related questions that you may have. (See map and telephone numbers inside of application cover.)

All dischargers regulated under WDRs and NPDES permits must pay an annual fee, except dairies, which pay a filing fee only. The RWQCB will notify you of your annual fee based on an evaluation of your proposed discharge. Please do NOT submit a check for your first annual fee or filing fee until requested to do so by a RWQCB representative. Dischargers applying for reissuance (renewal) of an existing NPDES permit or update of an existing WDR will be billed through the annual fee billing system and are therefore requested NOT to submit a check with their application. Checks should be made payable to the State Water Resources Control Board.

### **Additional Information Requirements**

A RWQCB representative will notify you within 30 days of receipt of the application form and any supplemental documents whether your application is complete. If your application is incomplete, the RWQCB representative will send you a detailed list of discharge specific information necessary to complete the application process. The completion date of your application is normally the date when all required information, including the correct fee, is received by the RWQCB.

**\* NPDES PERMITS:** If you are applying for a permit to discharge to surface water, you will need an NPDES permit which is issued under both State and Federal law and may be required to complete one or more of the following Federal NPDES permit application forms: Short Form A, Standard Form A, Forms 1, 2B, 2C, 2D, 2E, and 2F. These forms may be obtained at a RWQCB office or can be ordered from the National Center for Environmental Publications and Information at (513) 891-6561.

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State of California  
 Regional Water Quality Control Board  
**APPLICATION/REPORT OF WASTE DISCHARGE  
 GENERAL INFORMATION FORM FOR  
 WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



**INSTRUCTIONS**

**FOR COMPLETING THE APPLICATION/REPORT OF WASTE DISCHARGE  
 GENERAL INFORMATION FORM FOR:  
 WASTE DISCHARGE REQUIREMENTS/NPDES PERMIT**

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If you have any questions on the completion of any part of the application, please contact your RWQCB representative. A map of RWQCB locations, addresses, and telephone numbers is located on the reverse side of the application cover.

**I. FACILITY INFORMATION**

You must provide the factual information listed below for ALL owners, operators, and locations and, where appropriate, for ALL general partners and lease holders.

**A. FACILITY:**

Legal name, physical address including the county, person to contact, and phone number at the facility. (NO P.O. Box numbers! If no address exists, use street and nearest cross street.)

**B. FACILITY OWNER:**

Legal owner, address, person to contact, and phone number. Also include the owner's Federal Tax Identification Number.

**OWNER TYPE:**

Check the appropriate Owner Type. The legal owner will be named in the WDRs/NPDES permit.

**C. FACILITY OPERATOR (The agency or business, not the person):**

If applicable, the name, address, person to contact, and telephone number for the facility operator. Check the appropriate Operator Type. If identical to B. above, enter "same as owner".

**D. OWNER OF THE LAND:**

Legal owner of the land(s) where the facility is located, address, person to contact, and phone number. Check the appropriate Owner Type. If identical to B. above, enter "same as owner".

**E. ADDRESS WHERE LEGAL NOTICE MAY BE SERVED:**

Address where legal notice may be served, person to contact, and phone number. If identical to B. above, enter "same as owner".

**F. BILLING ADDRESS**

Address where annual fee invoices should be sent, person to contact, and phone number. If identical to B. above, enter "same as owner".



**APPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**

**II. TYPE OF DISCHARGE**

Check the appropriate box to describe whether the waste will be discharged to: A. Land, or B. Surface Water.

Check the appropriate box(es) which best describe the activities at your facility.

**Hazardous Waste - If you check the Hazardous Waste box, STOP and contact a representative of the RWQCB for further instructions.**

**Landfills - A separate form, APPLICATION FOR SOLID WASTE FACILITY PERMIT/WASTE DISCHARGE REQUIREMENTS, California Integrated Waste Management Board Form E-1-77, may be required. Contact a RWQCB representative to help determine the appropriate form for your discharge.**

**III. LOCATION OF THE FACILITY**

1. Enter the Assessor's Parcel Number(s) (APN), which is located on the property tax bill. The number can also be obtained from the County Assessor's Office. Indicate the APN for both the facility and the discharge point.
2. Enter the Latitude of the entrance to the proposed/existing facility and of the discharge point. Latitude and longitude information can be obtained from a U.S. Geological Survey quadrangle topographic map. Other maps may also contain this information.
3. Enter the Longitude of the entrance to the proposed/existing facility and of the discharge point.

**IV. REASON FOR FILING****NEW DISCHARGE OR FACILITY:**

A discharge or facility that is proposed but does not now exist, or that does not yet have WDRs or an NPDES permit.

**CHANGE IN DESIGN OR OPERATION:**

A material change in design or operation from existing discharge requirements. Final determination of whether the reported change is material will be made by the RWQCB.

**CHANGE IN QUANTITY/TYPE OF DISCHARGE:**

A material change in characteristics of the waste from existing discharge requirements. Final determination of whether the reported change would have a significant effect will be made by the RWQCB.

**CHANGE IN OWNERSHIP/OPERATOR:**

Change of legal owner of the facility. Complete Parts I, III, and IV only and contact the RWQCB to determine if additional information is required.

**WASTE DISCHARGE REQUIREMENTS UPDATE OR NPDES PERMIT REISSUANCE:**

WDRs must be updated periodically to reflect changing technology standards and conditions. A new application is required to reissue an NPDES permit which has expired.

**OTHER:**

If there is a reason other than the ones listed, please describe the reason on the space provided. (If more space is needed, attach a separate sheet.)

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APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



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V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

It should be emphasized that communication with the appropriate RWQCB staff is vital before starting the CEQA documentation, and is recommended before completing this application. There are Basin Plan issues which may complicate the CEQA effort, and RWQCB staff may be able to help in providing the needed information to complete the CEQA documentation.

Name the Lead Agency responsible for completion of CEQA requirements for the project, i.e., completion and certification of CEQA documentation.

Check YES or NO. Has a public agency determined that the proposed project is exempt from CEQA? If the answer is YES, state the basis for the exemption and the name of the agency supplying the exemption on the space provided. (Remember that, if extra space is needed, use an extra sheet of paper, but be sure to indicate the attached sheet under Section VII. Other.)

Check YES or NO. Has the "Notice of Determination" been filed under CEQA? If YES, give the date the notice was filed and enclose a copy of the Notice of Determination and the Initial Study, Environmental Impact Report, or Negative Declaration. If NO, check the box of the expected type of CEQA document for this project, and include the expected date of completion using the timelines given under CEQA. The date of completion should be taken as the date that the Notice of Determination will be submitted. (If not known, write "Unknown")

VI. OTHER REQUIRED INFORMATION

To be approved, your application MUST include a COMPLETE characterization of the discharge. If the characterization is found to be incomplete, RWQCB staff will contact you and request that additional specific information be submitted.

This application MUST be accompanied by a site map. A USGS 7.5' Quadrangle map or a street map, if more appropriate, is sufficient for most applications.

VII. OTHER

If any of the answers on your application form need further explanation, attach a separate sheet. Please list any attachments with the titles and dates on the space provided.

VIII. CERTIFICATION

Certification by the owner of the facility or the operator of the facility, if the operator is different from the owner, is required. The appropriate person must sign the application form.

Acceptable signatures are:

- 1. for a corporation, a principal executive officer of at least the level of senior vice-president;
2. for a partnership or individual (sole proprietorship), a general partner or the proprietor;
3. for a governmental or public agency, either a principal executive officer or ranking elected/appointed official.

DISCHARGE SPECIFIC INFORMATION

In most cases, a request to supply additional discharge specific information will be sent to you by a representative of the RWQCB. If the RWQCB determines that additional discharge specific information is not needed to process your application, you will be so notified.



**APPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



**I. FACILITY INFORMATION**

**A. Facility:**

Name:			
Address:			
City:	County:	State:	Zip Code:
Contact Person:		Telephone Number:	

**B. Facility Owner:**

Name:		Owner Type (Check One)	
Address:		1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:	State:	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Zip Code:	5. <input type="checkbox"/> Other: _____		
Contact Person:		Telephone Number:	Federal Tax ID:

**C. Facility Operator (The agency or business, not the person):**

Name:		Operator Type (Check One)	
Address:		1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:	State:	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Zip Code:	5. <input type="checkbox"/> Other: _____		
Contact Person:		Telephone Number:	

**D. Owner of the Land:**

Name:		Owner Type (Check One)	
Address:		1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:	State:	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Zip Code:	5. <input type="checkbox"/> Other: _____		
Contact Person:		Telephone Number:	

**E. Address Where Legal Notice May Be Served:**

Address:		
City:	State:	Zip Code:
Contact Person:		Telephone Number:

**F. Billing Address:**

Address:		
City:	State:	Zip Code:
Contact Person:		Telephone Number:

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APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

[ ] A. WASTE DISCHARGE TO LAND

[ ] B. WASTE DISCHARGE TO SURFACE WATER

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Check all that apply:

- Domestic/Municipal Wastewater Treatment and Disposal
- Cooling Water
- Mining
- Waste Pile
- Wastewater Reclamation
- Other, please describe: \_\_\_\_\_

- Animal Waste Solids
- Land Treatment Unit
- Dredge Material Disposal
- Surface Impoundment
- Industrial Process Wastewater

- Animal or Aquacultural Wastewater
- Biosolids/Residual
- Hazardous Waste (see instructions)
- Landfill (see instructions)
- Storm Water

III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)  
Facility:  
Discharge Point:

2. Latitude  
Facility:  
Discharge Point:

3. Longitude  
Facility:  
Discharge Point:

IV. REASON FOR FILING

New Discharge or Facility       Changes in Ownership/Operator (see instructions)

Change in Design or Operation       Waste Discharge Requirements Update or NPDES Permit Reissuance

Change in Quantity/Type of Discharge       Other: \_\_\_\_\_

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: \_\_\_\_\_

Has a public agency determined that the proposed project is exempt from CEQA?       Yes       No

If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below.  
Basis for Exemption/Agency: \_\_\_\_\_

Has a "Notice of Determination" been filed under CEQA?       Yes       No

If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.

Expected CEQA Documents:

EIR       Negative Declaration

Expected CEQA Completion Date: \_\_\_\_\_



**APPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



**VI. OTHER REQUIRED INFORMATION**

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

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**VII. OTHER**

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

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You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

**VIII. CERTIFICATION**

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and 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 fine and imprisonment."

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**FOR OFFICE USE ONLY**

Date Form 200 Received:	Letter to Discharger:	Fee Amount Received:	Check #:



**California Environmental Protection Agency  
Bill of Rights for Environmental  
Permit Applicants**

California Environmental Protection Agency (Cal/EPA) recognizes that many complex issues must be addressed when pursuing reforms of environmental permits and that significant challenges remain. We have initiated reforms and intend to continue the effort to make environmental permitting more efficient, less costly, and to ensure that those seeking permits receive timely responses from the boards and departments of the Cal/EPA. To further this goal, Cal/EPA endorses the following precepts that form the basis of a permit applicant's "Bill of Rights."

1. Permit applicants have the right to assistance in understanding regulatory and permit requirements. All Cal/EPA programs maintain an Ombudsman to work directly with applicants. Permit Assistance Centers located throughout California have permit specialists from all the State, regional, and local agencies to identify permit requirements and assist in permit processing.
2. Permit applicants have the right to know the projected fees for review of applications, how any costs will be determined and billed, and procedures for resolving any disputes over fee billings.
3. Permit applicants have the right of access to complete and clearly written guidance documents that explain the regulatory requirements. Agencies must publish a list of all information required in a permit application and of criteria used to determine whether the submitted information is adequate.
4. Permit applicants have the right of timely completeness determinations for their applications. In general, agencies notify the applicant within 30 days of any deficiencies or determine that the application is complete. California Environmental Quality Act (CEQA) and public hearing requests may require additional information.
5. Permit applicants have the right to know exactly how their applications are deficient and what further information is needed to make their applications complete. Pursuant to California Government code Section 65944, after an application is accepted as complete, an agency may not request any new or additional information that was not specified in the original application.
6. Permit applicants have the right of a timely decision on their permit application. The agencies are required to establish time limits for permit reviews.
7. Permit applicants have the right to appeal permit review time limits by statute or administratively that have been violated without good cause. For state environmental agencies, appeals are made directly to the Cal/EPA Secretary or to a specific board. For local environmental agencies, appeals are generally made to the local governing board or, under certain circumstances, to Cal/EPA. Through this appeal, applicants may obtain a set date for a decision on their permit and, in some cases, a refund of all application fees (ask boards and departments for details).
8. Permit applicants have the right to work with a single lead agency where multiple environmental approvals are needed. For multiple permits, all agency actions can be consolidated under a lead agency. For site remediation, all applicable laws can be administered through a single agency.
9. Permit applicants have the right to know who will be reviewing their application and the time required to complete the full review process.

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ATTACHMENT B – INFORMATION SHEET  
 RECOMMENDED REPORT OF WASTE DISCHARGE FORMAT  
 LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD  
 ORDER NO. R4-2019-XXXX  
 GENERAL WASTE DISCHARGE REQUIREMENTS FOR ADVANCED ONSITE  
 WASTEWATER TREATMENT SYSTEMS  
 GENERAL INFORMATION FOR DISCHARGER

*The information presented in the Report of Waste Discharge (ROWD) is relied upon by staff to prepare the Notice of Applicability (NOA) for coverage by this General Waste Discharge Requirements for Order (General Order). The Discharger shall ensure that the information presented in the ROWD is accurate. Misstatements, errors, or omissions that exist in the ROWD may be included in the NOA and become enforceable.*

*Waste Discharge Requirements (WDRs) are generally updated at 10 or 15 year intervals depending on the waste's potential to impact water quality. The ROWD shall state realistic growth projections. Underestimating growth may result in additional or more frequent permitting requirements. Overestimating growth will result in the need for the Discharger to prepare more treatment, storage, and disposal capacity than might otherwise be immediately required.*

*The ROWD outline presented below is intended to provide general guidance for Dischargers and consultants. Submitting an ROWD consistent with the format will help the Discharger include all of the information that Regional Water Quality Control Board (Regional Water Board) staff need and will expedite review of the document and speed the permitting process. Contacting your Regional Water Board representative to discuss the project before preparing the ROWD is recommended.*

## 1. BACKGROUND

### 1.1. Wastewater system description

- 1.1.1. Briefly, describe what the wastewater system is and how wastewater is generated.
- 1.1.2. Provide a site location map and a site plan.
- 1.1.3. Provide information on the location of wastewater system buildings, wastewater treatment system components, groundwater wells, and surface water bodies.
- 1.1.4. Provide the Assessor's Parcel Number(s), section number(s), and Township and Range.
- 1.1.5. Describe the water supply to the residence(s), business(es), and/or other facilities being served by the wastewater system.

### 1.2. Service area description

- 1.2.1. Describe the proximity of the wastewater system to an existing regional collection system; if nearby, discuss why connection to the regional system cannot be accomplished. If located within a regional system service area, or in close proximity to a collection system, provide written documentation that a good faith effort to connect to the regional system was made and that the request was not approved.

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- 1.2.2. Wastewater collection system (describe the following).
  - 1.2.2.1. Age and condition of collection system.
  - 1.2.2.2. Piping construction and layout (show on map).
  - 1.2.2.3. Lift stations and backup pumping systems.
  - 1.2.2.4. Failure warning system.
  - 1.2.2.5. Inflow and infiltration (I/I) estimates (and any control that is necessary).
  - 1.2.2.6. Maintenance of collection system and spill response.
2. WASTEWATER CHARACTERIZATION AND TREATMENT
  - 2.1. Domestic wastewater characterization (untreated wastewater).
    - 2.1.1. Describe the generation of wastewater (retirees, families, recreational vehicle [RV], institution, etc.).<sup>9</sup> If RV waste is allowed, describe educational and institutional controls in place to minimize the potential for deleterious RV waste constituents to be discharged to the wastewater system.
    - 2.1.2. Domestic wastewater flow rate (describe how determined). Describe any special events or seasonal variations that cause high wastewater flow rates or other sources of wastewater (e.g. swimming pool filter, potable water treatment backwash water, well attended festivals, etc.).
    - 2.1.3. Characterize domestic wastewater for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), electrical conductivity, nitrogen, sodium, chloride, and specific constituents of concern as needed based on site activities. Characterize wastewater for holding tank chemicals identified in the General Order (and others as appropriate) if RV waste is discharged to the system.
  - 2.2. Wastewater treatment system
    - 2.2.1. Provide a wastewater treatment schematic.
    - 2.2.2. Describe wastewater pretreatment components.
      - 2.2.2.1. Domestic wastewater pretreatment systems (e.g. septic tank effluent pump system, grease traps, etc.).
      - 2.2.2.2. Describe storage, treatment, and disposal of pretreatment residuals.
    - 2.2.3. Describe preliminary treatment activities (e.g., screening, comminution, grit removal).

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<sup>9</sup> Recreational vehicle (RV) holding tank connections, RV waste dump stations, etc. create special conditions for treatment and monitoring. Please refer to the General Order for more information.

- 2.2.3.1. Describe storage, treatment, and disposal of preliminary treatment residuals.
- 2.2.4. Describe primary treatment activities (remove settleable/flotable matter)
  - 2.2.4.1. Describe storage, treatment, and disposal of primary treatment residuals.
- 2.2.5. Describe treatment technology (e.g., activated sludge, membrane biological reactor, aerated lagoon, oxidation ditch, Imhoff tank, septic tank, etc.) include engineered design capacity in description.
  - 2.2.5.1. Describe storage, treatment, and disposal of treatment residuals (e.g. sludge, septage, etc.).
- 2.2.6. Size and location of treatment equipment (e.g. septic tank volume, package treatment plant, membrane biological reactor, pond size include acreage and storage capacity, pond liners, and number and horsepower of aerators, etc.).
- 2.2.7. Disinfection system equipment
- 2.2.8. Storage facilities
  - 2.2.8.1. If wastewater will be stored prior to disposal, describe the size and location of wastewater storage ponds, include a map showing all the ponds and describe them as lined or not. Describe the materials, age, and condition of any liners.
- 2.2.9. Predicted wastewater effluent quality
  - 2.2.9.1. Characterize the wastewater for TSS, BOD, total coliform organisms (if needed), and specific constituents of concern as needed. If RV waste is discharged to the system, characterize for holding tank chemicals identified in the General Order (and others as appropriate).
- 2.2.10. Treated effluent disposal method
  - 2.2.10.1. Describe how treated wastewater will be dispersed (land application area, leach field, percolation pond).
  - 2.2.10.2. Describe the proposed disposal area (and the 100-percent replacement area when needed, such as for a leach field disposal system) include acreage, surrounding land use, depth to groundwater, and the proximity of drainage ways, surface waters, and municipal, industrial, or agricultural wells.
    - 2.2.10.2.1. If land application is proposed, describe how storm water that falls on the land application area (LAA) is handled. If storm water is allowed to run off the LAA, contact your Regional Water Board representative to discuss wastewater disinfection requirements.

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2.2.10.2.2. Provide a water balance that demonstrates adequate storage/disposal capacity. Identify the safety factors used in the calculations. Please contact your Regional Water Board representative to determine the precipitation values to be included in the water balance. Typically, the 100-year return annual total precipitation value, distributed monthly in accordance with average (mean) precipitation values monthly is required. Some exemptions for existing ponds or sites that develop an acceptable *Spill Prevention and Emergency Response Plan* may apply. Rainfall depth duration frequency data is available on the Department of Water Resources Internet web page at:

<<http://www.water.ca.gov/floodmgmt/hafoo/hb/csm/engineering/>>

2.2.10.2.3. Support the assumptions and calculations in the water balance with adequate information. Information may include published infiltration values, site-specific percolation tests, application rates, or other sources. Cite the information source used; if a site-specific investigation, provide a copy of the report.

2.2.10.2.4. The use of subsurface disposal including leach fields and/or seepage pits serving more than 20 people, or systems that accept non-sanitary waste (generated by manufacturing, contains biocidal agents such as RV or portable toilets, etc.) must comply with the United States Environmental Protection Agency Underground Injection Control requirements. Please refer to General Order Requirement B.6.g and <http://www.epa.gov/region9/water/groundwater/uic.html> to determine if federal requirements apply to the proposed project. If registration is required, documentation of registration shall be provided in the ROWD.

### 2.3. Recycled Water Projects

2.3.1. If treated wastewater will be applied for beneficial uses (such as those described in title 22 water recycling criteria), provide a title 22 Engineering Report and the State Water Board Division of Drinking Water (DDW) (formerly the California Department of Public Health (CDPH) review/approval letter. Guidance for preparation of a title 22 Engineering Report is available on the Internet at:

<http://www.cdph.ca.gov/certlic/drinkingwater/Documents/Recharge/ERGUIDE2001.PDF>

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- 2.3.1.1. Describe how any DDW requirements will be implemented in the project.
      - 2.3.1.2. If needed, describe the disinfection requirements for the planned reuse.
    - 2.4. Operation and Maintenance
      - 2.4.1. Describe routine operation and maintenance procedures
      - 2.4.2. Treatment operator training and qualifications requirements
      - 2.4.3. Contingency plans for repairs/spills/treatment issues
3. GROUNDWATER QUALITY
  - 3.1. Depending upon the threat to groundwater quality, groundwater monitoring may be required. Please contact your Regional Water Board representative to determine if groundwater monitoring is required.
4. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)
  - 4.1. Some existing Small Domestic Systems will be determined to be categorically exempt from the California Environmental Quality Act (CEQA) under Title 14, section 15301 (ongoing or existing projects), section 15302 (replacement or reconstruction of existing utility systems), and section 15303 (new construction or conversion of small structures). The potential for categorical exemptions shall be examined and discussed with the Regional Water Board representative prior to submitting an ROWD.
  - 4.2. New or expanding Small Domestic Systems will likely require CEQA evaluation that should be performed by local agencies. The CEQA evaluation shall be submitted with the ROWD. At a minimum, the evaluation shall include the Initial Study, a list of any adopted mitigation measures related to water quality, and the Notice of Determination.
    - 4.2.1. The ROWD must include a description of how any water quality related mitigation measures will be implemented.
5. ADDITIONAL TECHNICAL REPORTS
  - 5.1. If required by the General Order, a *Sludge Management Plan* shall be submitted with the ROWD.
    - 5.1.1. Estimate the amount of sludge and scum that will be generated.
      - 5.1.1.1. Describe how sludge, scum, and supernatant will be stored and disposed of to protect groundwater quality.
      - 5.1.1.2. If sludge will be subject to further treatment, describe the treatment and storage requirements.
      - 5.1.1.3. Describe cleaning of digesters or storage vessels and the treatment and disposal of the residuals. If drying of residuals is planned, describe how that will be performed to prevent nuisance odors, prevent vectors, and protect groundwater quality.

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## Attachment C – Maximum Contaminant Levels

### Attachment C-1 Inorganic Chemicals

Table 64431-A <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (mg/L <sup>[2]</sup> )	Reporting Detection Limit (mg/L <sup>[2]</sup> )
Aluminum	1	0.05
Antimony	0.006	0.006
Arsenic	0.01	0.002
Asbestos	7 MFL <sup>[3]</sup>	0.2 MFL > 10 µm
Barium	1	0.1
Beryllium	0.004	0.001
Cadmium	0.005	0.001
Chromium	0.05	0.01
Cyanide	0.15	0.1
Fluoride	2.0	0.1
Chromium (VI)	0.010	0.001
Mercury	0.002	0.001
Nickel	0.1	0.01
Selenium	0.05	0.005
Thallium	0.002	0.001
Perchlorate	0.006	0.004

**Table Notes:**

- [1]. California Code of Regulation (CCR), Title 22, Section 64431, last updated July 16, 2015.
- [2]. mg/L = milligrams/liter.
- [3]. MFL = million fibers per liter; MCL for fibers exceeding 10µm in length.

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### Attachment C-2 Radionuclides

Table 64442 <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (pCi/L <sup>[2]</sup> )	Reporting Detection Limit (pCi/L <sup>[2]</sup> )
Radium-226	5 pCi/L (combined radium-226 and radium-228)	1
Radium-228		1
Gross Alpha particle activity (excluding radon and uranium)	15	3
Uranium	20	1

**Table Notes:**

[1]. CCR, Title 22, Section 64442, last updated July 16, 2015.

[2]. pCi/L = picocuries/liter.

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### Attachment C-3 Radionuclides

Table 64443 <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (pCi/L <sup>[2]</sup> )	Reporting Detection Limit (pCi/L <sup>[2]</sup> )
Beta/photon Emitters	4 millirem/year dose equivalent to the total body or any internal organ	Gross Beta particle activity: 4
Strontium-90	8 (=4 millirem/year dose to bone marrow)	2
Tritium	20,000 (=4 millirem/year dose to total body)	1,000

**Table Notes:**

[1]. CCR, Title 22, Section 64443, last updated July 16, 2015.

[2]. pCi/L = picocuries/liter.

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### Attachment C-4 Organic Chemicals

Table 64444-A <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (mg/L <sup>[2]</sup> )	Reporting Detection Limit (mg/L <sup>[2]</sup> )
<b>(a) Volatile Organic Chemicals</b>		
Benzene	0.001	0.0005
Carbon Tetrachloride (CTC)	0.0005	0.0005
1,2-Dichlorobenzene	0.6	0.0005
1,4-Dichlorobenzene	0.005	0.0005
1,1-Dichloroethane	0.005	0.0005
1,2-Dichloroethane (1,2-DCA)	0.0005	0.0005
1,1-Dichloroethene (1,1-DCE)	0.006	0.0005
Cis-1,2-Dichloroethylene	0.006	0.0005
Trans-1,2-Dichloroethylene	0.01	0.0005
Dichloromethane	0.005	0.0005
1,2-Dichloropropane	0.005	0.0005
1,3-Dichloropropene	0.0005	0.0005
Ethylbenzene	0.3	0.0005
Methyl-tert-butyl-ether (MTBE)	0.013	0.003
Monochlorobenzene	0.07	0.0005
Styrene	0.1	0.0005
1,1,2,2-Tetrachloroethane	0.001	0.0005
Tetrachloroethylene (PCE)	0.005	0.0005
Toluene	0.15	0.0005
1,2,4-Trichlorobenzene	0.005	0.0005
1,1,1-Trichloroethane	0.2	0.0005
1,1,2-Trichloroethane	0.005	0.0005
Trichloroethylene (TCE)	0.005	0.0005

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Table 64444-A <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (mg/L <sup>[2]</sup> )	Reporting Detection Limit (mg/L <sup>[2]</sup> )
Trichlorofluoromethane	0.15	0.005
<b>(a) Volatile Organic Chemicals</b>		
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	0.01
Vinyl Chloride	0.0005	0.0005
Xylenes (m,p)	1.75	0.0005
<b>(b) Non-Volatile Synthetic Organic Chemicals</b>		
Alachlor	0.002	0.001
Atrazine	0.001	0.0005
Bentazon	0.018	0.002
Benzo(a)pyrene	0.0002	0.0001
Carbofuran	0.018	0.005
Chlordane	0.0001	0.0001
2,4-D	0.07	0.01
Dalapon	0.2	0.01
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	0.00001
Di(2-ethylhexyl)adipate	0.4	0.005
Di(2-ethylhexyl)phthalate	0.004	0.003
Dinoseb	0.007	0.002
Diquat	0.02	0.004
Endothall	0.1	0.045
Endrin	0.002	0.0001
Ethylene Dibromide (EDB)	0.00005	0.00002
Glyphosate	0.7	0.025
Heptachlor	0.00001	0.00001
Heptachlor Epoxide	0.00001	0.00001
Hexachlorobenzene	0.001	0.0005

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Table 64444-A <sup>[1]</sup>		
Chemical	Maximum Contaminant Levels (mg/L <sup>[2]</sup> )	Reporting Detection Limit (mg/L <sup>[2]</sup> )
Hexachlorocyclopentadiene	0.05	0.001
Lindane	0.0002	0.0002
(b) Non-Volatile Synthetic Organic Chemicals		
Methoxychlor	0.03	0.01
Molinate	0.02	0.002
Oxamyl	0.05	0.02
Pentachlorophenol	0.001	0.0002
Picloram	0.5	0.001
Polychlorinated Biphenyls	0.0005	0.0005
Simazine	0.004	0.001
Thiobencarb	0.07	0.001
Toxaphene	0.003	0.001
2,3,7,8-TCDD (Dioxin)	$3 \times 10^{-8}$	$5 \times 10^{-9}$
2,4,5-TP (Silvex)	0.05	0.001

**Table Notes:**

[1]. CCR, Title 22, Section 64444-A, last updated July 15, 2015.

[2]. mg/L = milligrams/liter.

### Attachment C-5 Secondary Maximum Contaminant Levels

Table 64449-A <sup>[1]</sup>	
Chemical	Units
Aluminum	0.2 mg/L
Color	150 Units
Copper	1.0 mg/L
Foam Agents (MBAS)	0.5 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Methyl-tert-butyl-ether (MTBE)	0.005 mg/L
Odor – Threshold	3 units
Silver	0.1 mg/L
Thiobencarb	0.001 mg/L
Turbidity	5 Units
Zinc	5 mg/L

**Table Note:**

[1]. CCR, Title 22, Section 64449, last updated July 16, 2015.

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### Attachment C-6 Disinfection Byproducts

Table 64533-A <sup>[1]</sup>		
Constituent	Maximum Contaminant Levels (mg/L <sup>[2]</sup> )	Reporting Detection Limit (mg/L <sup>[2]</sup> )
Total Trihalomethanes (TTHM)	0.08	
Bromodichloromethane		0.001
Bromoform		0.001
Chloroform		0.001
Dibromochloromethane		0.001
Haloacetic acid (five) (HAA5)	0.06	
Monochloroacetic acid		0.002
Dichloroacetic acid		0.001
Trichloroacetic acid		0.001
Monobromoacetic acid		0.001
Dibromoacetic acid		0.001

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**Table Notes:**

[1]. CCR, Title 22, Section 64533, Chapter 15.5, last updated July 16, 2015.

[2]. mg/L = milligrams/liter.

**ATTACHMENT D**

**MONITORING AND REPORTING PROGRAM NO. CI-XXXXX  
FOR  
ADVANCED ONSITE WASTEWATER TREATMENT SYSTEMS  
ORDER NO. R4-2019-XXXX (SERIES NO. XXX)  
FILE NO. XX-XXX**

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**I. REPORTING REQUIREMENTS**

- A. The effective date of this Monitoring and Reporting Program (MRP) No. CI-XXXXX is **DATE**. The **PERMITTEE'S NAME** (hereinafter Permittee) shall implement this MRP immediately for the discharge from the Permittee's Advanced Onsite Wastewater Treatment System (Advanced OWTS). The first quarterly monitoring report is due **DATE**.

Quarterly monitoring reports shall be received by the dates specified in Table 1.

<b>Table 1. Quarterly Monitoring Reporting Period and Due Date</b>	
<b>Reporting Period</b>	<b>Report Due</b>
<b>January - March</b>	April 30
<b>April - June</b>	July 30
<b>July - September</b>	October 30
<b>October - December</b>	January 30

- B. In reporting the monitoring data, the Permittee 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.
- C. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.
- D. If there is no discharge during any reporting period, the report shall so state.
- E. Each quarterly monitoring report shall contain a separate section titled "Summary of Non-Compliance" located at the front of the report. This section shall clearly list all non-compliance with the WDRs, including any excursion(s) of effluent and receiving water limitations. For every item where the requirements were not met, the Permittee shall include a statement of the cause(s) of non-compliance and the corrective actions undertaken or proposed that will bring the discharge into full compliance with WDRs at the earliest possible time, including a timetable for implementation of those actions.
- F. By January 30<sup>th</sup> of each year, beginning January 30, **YEAR**, the Permittee shall submit

an annual summary report to the Regional Water Quality Control Board (Regional Board). The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Permittee shall explain 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 Requirements (WDRs). Laboratory analyses – all chemical, bacteriological, and/or toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Water Resources Control Board, Division of Drinking Water (SWRCB-DDW) Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certifications shall be provided each time a new analysis is used and/or renewal 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. At least once a year, 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.
- H. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC samples 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 Regional Board staff. Proper chain of custody procedures must be followed and a copy of the chain of custody documentation shall be submitted with the report.
- I. Each monitoring report must affirm in writing that "All analyses were conducted at a laboratory certified for such analyses by the SWRCB-DDW ELAP, 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. 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.
- K. The Discharger shall maintain all sampling and analytical results, including strip charts, date, exact place, and time of sampling, dates analyses were 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 extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- L. All monitoring reports must include, at minimum, the following:
  - 1. Well or location identification, date and time of sampling; and
  - 2. Sampler identification, laboratory identification; and chain of custody.



Table 2 – Effluent Monitoring Requirements for the Advanced OWTS			
Constituent	Units <sup>[1]</sup>	Type of Sample	Minimum Frequency of Analysis
Total Nitrogen	mg/ L	Grab <sup>[2]</sup>	Quarterly
Total Coliform	MPN/100mL	Grab <sup>[2]</sup>	Quarterly
Fecal Coliform	MPN/100mL	Grab	Quarterly
Enterococcus <sup>[6]</sup>	MPN/100mL	Grab <sup>[2]</sup>	Quarterly
Constituents listed in Attachments C-1 to C-5	various	Grab <sup>[2]</sup>	Annually
Constituents listed in Attachment C-6 <sup>[7]</sup>	mg/L	Grab <sup>[2]</sup>	Quarterly
CECs in Attachment F	various	Grab <sup>[2]</sup>	Annually
Remaining Priority Pollutants in Attachment G	µg/L	Grab <sup>[2]</sup>	Annually

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**Table Notes:**

- [1]. gal/day: gallons/day;  
mg/L: milligram/liter;  
NTU: nephelometric turbidity unit;  
MPN/100mL: Most Probable Number/100 milliliter
- [2]. A 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.
- [3]. BOD: Biological Oxygen Demand
- [4]. If the groundwater quality objective (GWQO) for this constituent is specified in the Basin Plan, monitoring is required; if the GWQO is not specified, monitoring is not required.
- [5]. If disinfection other than chlorination is used, such as ultraviolet light, monitoring is not required.
- [6]. Applicable only if the discharge location is in a coastal area.
- [7]. Applicable only if chlorination is used for disinfection.

**III. GROUNDWATER MONITORING PROGRAM**

The requirement for groundwater monitoring shall be determined on a case-by-case basis and shall be prescribed in the enrollment letter issued by the Regional Board. The letter shall specify whether the Permittee is subject to section A or section B, below.

**II. ADVANCED ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEM MONITORING REQUIREMENTS**

- A. Maintenance reporting: The Permittee shall annually submit an operation and maintenance report for the Advanced OWTS. The information to be contained in the report shall include, at a minimum, the following:
1. The name and address of the person or company responsible for the operation and maintenance of the Advanced OWTS;
  2. Type of maintenance (preventive or corrective action performed);
  3. Frequency of maintenance, if preventive;
  4. Any pumping required for the Advanced OWTS, including date(s) and volume(s); and,
  5. Maintenance records for the Advanced OWTS.
- B. Influent monitoring reports shall measure the monthly average and daily maximum wastewater flow from the collection system to the Advanced OWTS.
- C. An effluent sampling station shall be established at a location where representative samples of treated effluent can be obtained prior to discharge to the seepage pit and/or leach field disposal/subsurface drip irrigation system. Monitoring shall be conducted as described in the table below. The following shall constitute the effluent monitoring program, as specified in Table 2.

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<b>Table 2 – Effluent Monitoring Requirements for the Advanced OWTS</b>			
<b>Constituent</b>	<b>Units <sup>[1]</sup></b>	<b>Type of Sample</b>	<b>Minimum Frequency of Analysis</b>
<b>Total Flow</b>	gal/day	Recorder	Continuous
<b>Turbidity</b>	NTU	Recorder	Continuous
<b>pH</b>	pH units	Grab <sup>[2]</sup>	Quarterly
<b>BOD<sub>5@20°C</sub> <sup>[3]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Oil and Grease</b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Total Dissolved Solids <sup>[4]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Sulfate <sup>[4]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Chloride <sup>[4]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Boron <sup>[4]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Total Residual Chlorine <sup>[5]</sup></b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Ammonia as Nitrogen</b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Nitrate as Nitrogen</b>	mg/L	Grab <sup>[2]</sup>	Quarterly
<b>Nitrite as Nitrogen</b>	mg/ L	Grab <sup>[2]</sup>	Quarterly

A. No Groundwater Monitoring Required

A groundwater monitoring program will not be required at this time. In the future, the Executive Officer may determine that a groundwater monitoring program is needed to fully evaluate the impact from the Advanced OWTS discharge to groundwater.

B. Groundwater Monitoring Required

1. Groundwater Monitoring Design: Representative samples of groundwater and measures of the water table elevation shall be obtained quarterly from a minimum of three (3) wells located laterally, upgradient, and downgradient of the Advanced OWTS.
2. Groundwater well installation shall include submission of a well installation report including a scaled plot plan, soil boring logs, water quality data, and as-built well construction diagrams. The report must be prepared under the direction of a California Professional Geologist, or Engineering Geologist, or a California Civil Engineer with appropriate experience in hydrogeology.
3. The following parameters shall constitute the groundwater monitoring program:

Table 3 – Groundwater Monitoring Requirements			
Constituent	Units	Type of Sample	Frequency
Water level	Feet	Vertical Measure	Quarterly
Total Dissolved Solids <sup>[1]</sup>	mg/L	Grab	Quarterly
Sulfate <sup>[1]</sup>	mg/L	Grab	Quarterly
Chloride <sup>[1]</sup>	mg/L	Grab	Quarterly
Boron <sup>[1]</sup>	mg/L	Grab	Quarterly
Total Residual Chlorine <sup>[2]</sup>	mg/L	Grab	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Quarterly
Nitrite as Nitrogen	mg/ L	Grab	Quarterly
Total Nitrogen	mg/ L	Grab	Quarterly
Total Coliform	MPN/100mL	Grab	Quarterly
Fecal Coliform	MPN/100mL	Grab	Quarterly
Enterococcus <sup>[3]</sup>	MPN/100mL	Grab	Quarterly
Constituents listed in Attachments C-1 to C-5 <sup>[4]</sup>	Various	Grab	Annually
Constituents listed in Attachment C-6 <sup>[4, 5]</sup>	mg/L	Grab	Quarterly
CECs in Attachment F <sup>[6]</sup>	various	Grab	Annually
Remaining Priority Pollutants in Attachment G <sup>[6]</sup>	µg/L	Grab	Annually

**Table Notes:**

- [1]. If the GWQO for this constituent is specified in the Basin Plan, monitoring is required; if the GWQO is not specified, monitoring is not required.
- [2]. If disinfection other than chlorination is used, such as ultraviolet light, monitoring is not required.
- [3]. Applicable only if the discharge location is in a coastal area.
- [4]. Required only if the constituent is detected in the effluent monitoring required in Table 2 above the specified effluent limitation in the General Order.
- [5]. Applicable only if chlorination is used for disinfection.
- [6]. Applicable only if the concentration detected in the effluent is greater than the detection limit.

**IV. 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 the final point of disposal. In the event that no wastes are hauled during the reporting period, a statement to that effect shall be submitted.

**V. MONITORING FREQUENCIES**

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this MRP. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Permittee makes a request and the request is backed by statistical trends of monitoring data submitted.

**VI. ELECTRONIC SUBMITTAL OF INFORMATION**

The Permittee shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, discharge location data, and pdf monitoring reports to the State Water Resources Control Board GeoTracker database under Global ID WDRXXXXXXXXX.

**VII. CERTIFICATION STATEMENT**

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 \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_ (Signature)

\_\_\_\_\_ (Title)"

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: \_\_\_\_\_  
Deborah J. Smith  
Executive Officer

Date: \_\_\_\_\_

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## Attachment E – Standard Provisions Applicable to Waste Discharge Requirements

### 1. DUTY TO COMPLY

The discharger must comply with all conditions of these waste discharge requirements. A responsible party has been designated in the Order for this project, and is legally bound to maintain the monitoring program and permit. Violations may result in enforcement actions, including Regional Board orders or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board. (California Water Code, Sections 13261, 13263, 13265, 13268, 13300, 13301, 13304, 13340, and 13350). Failure to comply with any waste discharge requirement, monitoring and reporting requirement, or other order or prohibition issued, reissued or amended by the Los Angeles Water Board or State Water Resources Control Board is a violation of these waste discharge requirements and the California Water Code, which can result in the imposition of civil liability. (California Water Code, Section 13350, subdivision (a).)

### 2. GENERAL PROHIBITION

Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by California Water Code section 13050. In addition, the discharge of waste classified as hazardous, as defined in California Code of Regulations, Title 23, Section 2521, subdivision (a) is also prohibited.

### 3. AVAILABILITY

A copy of these waste discharge requirements shall be maintained at the discharge facility and be available at all times to operating personnel. (California Water Code, Section 13263).

### 4. CHANGE IN OWNERSHIP

The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date forward. (California Water Code, Sections 13267 and 13263)

### 5. CHANGE IN DISCHARGE

In the event of a material change or proposed change in the character, location, or volume of the discharge, the discharger shall file with this Regional Board a new Report of Waste Discharge. (California Water Code, Section 13260, subdivision (c)). A material change includes, but is not limited to, the following:

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- (a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the waste.
- (b) Significant change in disposal method, e.g., change from a land disposal to a direct discharge to water, or change in the method of treatment which would significantly alter the characteristics of the waste.
- (c) Significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems.
- (d) Increase in flow beyond that specified in the waste discharge requirements.
- (e) Increase in the area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. (California Code of Regulations, Title 23, Section 2210)

6. **REVISION**

These waste discharge requirements are subject to review and revision by the Regional Board. (California Water Code, Section 13263)

7. **NOTIFICATION**

Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information. (California Water Code, Sections 13260 and 13267)

8. **VESTED RIGHTS**

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the discharger from his liability under Federal, State or local laws, nor do they create a vested right for the discharger to continue the waste discharge. All discharges of waste into waters of the state are privileges, not rights. (California Water Code, Section 13263, subdivision (g).)

9. **SEVERABILITY**

Provisions of these waste discharge requirements are severable. If any provisions of these requirements are found invalid, the remainder of the requirements shall not be affected.

10. **OPERATION AND MAINTENANCE**

The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing

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and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order. (California Water Code, Section 13263, subdivision (f).)

#### 11. NOTIFICATION REQUIREMENT

Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the California Water Code unless the discharger is in violation of a prohibition in the applicable Water Quality Control plan. (California Water Code, Section 13271, subdivision (a).)

#### 12. OIL OR PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This provision does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan. (California Water Code, Section 13272)

#### 13. INVESTIGATIONS AND INSPECTIONS

The discharger shall allow the Regional Board, or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;

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- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
- (d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order, or as otherwise authorized by the California Water Code, any substances or parameters at any location. (California Water Code, Section 13267)
- (e) Except for material determined to be confidential in accordance with applicable law, all reports prepared in accordance with the terms of this Order shall be available for public inspection at the office of the Los Angeles Water Board. Data on waste discharges, water quality, geology, and hydrogeology shall not be considered confidential.

**14. MONITORING PROGRAM AND DEVICES**

The discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted. (California Water Code, Section 13267)

All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year, or more frequently, to ensure continued accuracy of the devices. Annually, the discharger shall submit to the Executive Office a written statement, signed by a registered professional engineer, certifying that all flow measurement devices have been calibrated and will reliably achieve the accuracy required.

The analysis of any material required pursuant to Division 7 of the California Water Code shall be performed by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 of the Health and Safety Code. However, this requirement does not apply to field tests, such as test for color, odor, turbidity, pH, temperature, dissolved oxygen, conductivity, and disinfectant residual chlorine. (California Water Code, Section 13176). Unless otherwise permitted by the Regional Board Executive officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Water Resources Control Board's Division of Drinking Water. All analyses shall be required to be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40CFR Part 136) promulgated by the United States, Environmental Protection Agency (USEPA). (California Code of Regulation, Title 23, Section 2230)

The Quality Assurance-Quality Control Program must conform to the USEPA Guidelines "Laboratory Documentation Requirements for Data Validation", January 1990, USEPA Region 9) or procedures approved by the Los Angeles Regional Water Quality Control Board.

All quality assurance and quality control (QA/QC) analyses must be run on the same dates when samples were actually analyzed. All QA/QC data shall be reported, along with the sample results to which they apply, including the method, equipment, analytical detection

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and quantitation limits, the percent recovery, and explanation for any recovery that falls outside the QC limits, the results of equipment and method blanks, the results of spiked and surrogate samples, the frequency of quality control analysis, and the name and qualifications of the person(s) performing the analyses. Sample results shall be reported unadjusted for lank results or spike recoveries. In cases where contaminants are detected in QA/QC samples (e.g., field, trip, or lab blanks); the accompanying sample results shall be appropriately flagged.

The Discharger shall make all QA/QC data available for inspection by Regional Board staff and submit the QA/QC documentation with its respective quarterly report. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the quarterly report.

**15. TREATMENT FAILURE**

In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or to reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies, for example, when the primary source of power of the treatment facility fails, is reduced, or is lost. (California Water Code, Section 13263, subdivision (f).)

**16. DISCHARGE TO NAVIGABLE WATERS**

A person who discharges pollutants or proposes to discharge pollutants or proposes to discharge pollutants to the navigable waters of the United States within the jurisdiction of this state or a person who discharges dredged or fill material or proposes to discharge dredged or fill material into the navigable waters of the United States within the jurisdiction of this state shall file a report of waste discharge in compliance with the procedures set forth in California Water Code section 13260. (California Water Code, Section 13376)

**17. ENDANGERMENT TO HEALTH AND ENVIRONMENT**

The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Office within 24 hours:

- (a) Any bypass from any portion of the treatment facility.

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- (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.
- (c) Any treatment plan upset which causes the effluent limitation of this Order to be exceeded. (California Water Code, Sections 13263 and 13267)

**18. MAINTENANCE OF RECORDS**

The discharger shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies off all reports required by this Order, and record of all data used to complete the application for this Order. Records shall be maintained for a minimum of three years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

Records of monitoring information shall include:

- (a) The date, exact place, and time of sampling or measurement;
  - (b) The individual(s) who performed the sampling or measurement;
  - (c) The date(s) analyses were performed;
  - (d) The individual(s) who performed the analyses;
  - (e) The analytical techniques or method used; and
  - (f) The results of such analyses.
- 19. (a)** All application reports or information to be submitted to the Executive Office shall be signed and certified as follows:
- (1) For a corporation – by a principal executive officer or at least the level of vice president.
  - (2) For a partnership or sole proprietorship – by a general partner or the proprietor, respectively.
  - (3) For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official.
- (b) A duly authorized representative of a person designated in paragraph (a) of this provision may sign documents if:
- (1) The authorization is made in writing by a person described in paragraph (a) of this provision.
  - (2) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and,

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- (3) The written authorization is submitted to the Executive Officer.

Any person signing a document under this Section shall make the following certification:

"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. [California Water Code Sections 13263, 13267, and 13268]"

**20. OPERATOR CERTIFICATION**

Supervisors and operators of municipal wastewater treatment plants and privately owned facilities regulated by the Public Utilities Commission, used in the treatment or reclamation of sewage and industrial waste shall possess a certificate of appropriate grade in accordance with California Code of Regulations, title 23, section 3680. State Board may accept experience in lieu of qualification training. (California Code of Regulations, Title, 23, Sections 3680 and 3680.2.) In lieu of a properly certified wastewater treatment plant operator, the State Board may approve use of a water treatment plant operator of appropriate grade certified by the State Department of Public Health where reclamation is involved. (California Code of Regulations, Title, 23, Section 3670.1, subdivision (b).)

**ADDITIONAL PROVISIONS APPLICABLE TO  
PUBLICLY OWNED TREATMENT WORKS' ADEQUATE CAPACITY**

21. Whenever a regional board finds that a publicly owned wastewater treatment plant will reach capacity within four years, the board shall notify the discharger. Such notification shall inform the discharger that the regional board will consider adopting a time schedule order pursuant to Section 13300 of the California Water Code or other enforcement order unless the discharger can demonstrate that adequate steps are being taken to address the capacity problem. The notification shall require the discharger to submit a technical report to the regional board within 120 days showing how flow volumes will be prevented from exceeding existing capacity or how capacity will be increased. A copy of such notification shall be sent to appropriate local elected officials, local permitting agencies and the press. The time for filing the required technical report may be extended by the regional board. An extension of 30 days may be granted by the executive officer. Longer extensions may be granted by the regional board itself. (California Code of Regulations, Title, 23, Section 2232.)

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## Attachment F – Monitoring for Constituents of Emerging Concern (CECs) <sup>[1]</sup>

Constituent	Reporting Limit (µg/L <sup>[2]</sup> )
17β-Estradiol	0.001
Caffeine	0.05
NDMA	0.002
Triclosan	0.05
DEET	0.05
Sucralose	0.1

Table Note:

[1]. CECs are based on Table 1 Groundwater Recharge Reuse – Subsurface Application of State Water Board Resolution 2013-003.

[2]. µg/L = micrograms/liter.

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### Attachment G – Monitoring for Priority Pollutants

Antimony	Trichloroethylene	Fluoranthene
Arsenic	Vinyl Chloride	Fluorene
Beryllium	2-Chlorophenol	Hexachlorobenzene
Cadmium	2,4-Dichlorophenol	Hexachlorobutadiene
Chromium (III)	2,4-Dimethylphenol	Hexachlorocyclopentadiene
Chromium (VI)	4,6-Dinitro-2-Methylphenol	Hexachloroethane
Copper	2,4-Dinitrophenol	Indeno[1,2,3-cd]pyrene
Lead	2-Nitrophenol	Isophorone
Mercury	4-Nitrophenol	Naphthalene
Nickel	4-Chloro-3-Methylphenol	Nitrobenzene
Selenium	Pentachlorophenol	N-nitrosodimethylamine
Silver	Phenol	N-Nitrosodi-N-propylamine
Thallium	2,4,6-Trichlorophenol	N-Nitrosodiphenylamine
Zinc	Acenaphthene	Phenanthrene
Cyanide	Acenaphthylene	Pyrene
Asbestos	Anthracene	1,2,4-Trichlorobenzene
2,3,7,8-TCDD	Benzidine	Aldrin
Acrolein	Benzo[a]anthracene	alpha-BHC
Acrylonitrile	Benzo[a]pyrene	beta-BHC
Benzene	Benzo[b]fluoranthene	gamma-BHC
Bromoform	Benzo[ghi]perylene	delta-BHC
Carbon tetrachloride	Benzo[k]fluoranthene	Chlordane
Chlorobenzene	Bis(2-chloroethoxy) Methane	4,4'-DDT
Chlorodibromomethane	Bis(2-chloroethyl) Ether	4,4'-DDE
Chloroethane	Bis(2-chloroisopropyl) Ether	4,4'-DDD
2-Chloroethylvinyl Ether	Bis(2-ethylhexyl) Phthalate	Dieldrin
Chloroform	4-Bromophenyl Phenyl Ether	alpha-Endosulfan
Dichlorobromomethane	Butylbenzyl Phthalate	beta-Endosulfan

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Los Angeles Regional Water Quality Control Board  
 Order No. R4-2019-XXXX  
 General Waste Discharge Requirements for  
 Advanced Onsite Wastewater Treatment Systems

1,1-Dichloroethane	2-Chloronaphthalene	Endosulfan Sulfate
1,2-Dichloroethane	4-Chlorophenyl Phenyl Ether	Endrin
1,1-Dichloroethylene	Chrysene	Endrin Aldehyde
1,2-Dichloropropane	Dibenzo[ah]anthracene	Heptachlor
1,3-dichloropropylene	1,2-Dichlorobenzene	Heptachlor Epoxide
Ethylbenzene	1,3-Dichlorobenzene	PCB (Aroclor-1016)
Methyl Bromide	1,4-Dichlorobenzene	PCB (Aroclor-1221)
Methyl Chloride	3,3'-Dichlorobenzidine	PCB (Aroclor-1232)
Methylene Chloride	Diethyl Phthalate	PCB (Aroclor-1242)
1,1,2,2-Tetrachloroethane	Dimethyl Phthalate	PCB (Aroclor-1248)
Tetrachloroethylene	Di-n-butyl Phthalate	PCB (Aroclor-1254)
Toluene	2,4-Dinitrotoluene	PCB (Aroclor-1260)
1,2-Trans-Dichloroethylene	2,6-Dinitrotoluene	Toxaphene
1,1,1-Trichloroethane	Di-n-octyl Phthalate	---
1,1,2-Trichloroethane	1,2-Diphenylhydrazine	---

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