

Item 9: Consideration of the Adoption of General Waste Discharge Requirements for Landscape Irrigation Uses of Municipal Recycled Water (General Permit)^{1, 2} and a proposed Resolution approving certification of a Mitigated Negative Declaration for the General Permit.

The following changes (shown by strikethrough and underline in the text below) are proposed to be made to the 06/18/09 draft of the General Permit. The following changes presume all proposed changes to previous drafts (i.e., the “March” and “May” drafts) were accepted in full.

- 1.) P.3 of 19, Finding No. 12: revises the finding to clarify administration of cross-connection prevention programs: “Cross-connection programs shall be conducted in accordance with backflow prevention regulations adopted by CDPH and may require water users to comply with all orders, instructions, regulations, and notices from the local health officer with respect to the installation, testing, and maintenance of backflow prevention devices.”
- 2.) P.11 of 19, Specification B.4: “Application of recycled water ~~waste constituents~~ to the Use Area...”
- 3.) P.11 of 19, Specification B.6: Deletes unnecessary example as follows: “Use Areas that are spray irrigated and allow public access shall be irrigated during periods of minimal use (~~e.g., between 9 p.m. and 6 a.m.~~).”
- 4.) P.12 of 19, Specification B.7: “All newly installed or any accessible reclamation equipment, pumps, piping, valves, and outlets shall be appropriately marked to differentiate them from potable facilities. All newly installed or any accessible reclamation distribution system piping shall be purple or adequately identified with purple tape, tags, or stickers per Section 116815(a) of the California Health and Safety Code.”
- 5.) P.12 of 19, Specification B.9: “A 4-foot horizontal and 1-foot vertical separation³ shall be maintained between all new pipelines transporting recycled water and those transporting domestic water, unless approved by CDPH...”
- 6.) P.12 of 19, Specification B.11: “The main shutoff valve ~~downstream~~ of the recycled water meter shall be tagged with a recycled water warning sign.”

¹ 06/18/09 draft General Permit is available on-line

² http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/landscape_irrigation_general_permit.shtml

³ As measured from the nearest outside edge of the respective pipelines.

- 7.) P.12 of 19, Specification B.12: “Except where CDPH has approved alternative signage and wording or an educational program pursuant to Title 22 Requirements, (1) all use areas where recycled water is used that are accessible to the public shall be posted with signs that are visible to the public in Signs with proper wording (in English and Spanish) of a size no less than four inches high by eight inches wide that include the following wording “RECYCLED WATER-DO NOT DRINK”, and (2) shall be placed at all areas of public access and around the perimeter of all areas of recycled water use or conveyance to alert the public of the use of recycled water. All signs each sign shall display an international symbol similar to that shown in Attachment D. and present wording similar to the following:”
- ~~“RECYCLED WATER—DO NOT DRINK”~~
~~“AGUA RECICLADA—NO BEBER”~~
- 8.) p.13 of 19, Specification B.14: Deletes language duplicative of language in Specification B.13. as follows: “Recycled water shall be managed to minimize avoid contact with workers. Employees and eating areas shall be protected against any contact with recycled water spray, mist, and runoff.”
- 9.) P. 13 of 19, Specification B.16: “Recycled water shall not be allowed to escape from the Use Area by airborne overspray, mist or by surface flow except in minor amounts such as that associated with BMPs for good irrigation practices.
- 10.) P.15 of 19, Provision C.5.b.iii: “General Requirements of the major plant species being irrigated (e.g., seasonal demand, climate, nutrient requirements)”
- 11.) P.15 of 19, Provision C.5.b.v: “Other supplemental nutrient additions (e.g., chemical fertilizers) generally used within the operation of the Use Area; and”
- 12.) P.15 of 19, Provision C.5.f.i: “Documentation of or examples from a training program including periodic continuing education...”
- 13.) P.16 of 19, Provision C.7: modify as follows: “Amendments to the approved Title 22 Engineering Report (e.g., for “new use sites” not included in the approved Title 22 Engineering Report) as well as a description of new use sites shall be submitted to the appropriate public health authority for approved by CDPH approval in advance of connection. The Administrator shall include in the annual report submitted to the State Water Board copies of approval letter(s) prepared by CDPH regarding (1) such amendments to the Title 22 Engineering Report and (2) a description of new sites. in the annual report submitted to the State Water Board.”

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- 14.) p. 17 of 19, Provision C.9: “The Administrator shall ensure that periodic inspections are conducted ~~at least quarterly~~ of the Use Areas they supply at a frequency approved by CDPH (but no less than annually), including an adaptive approach to address Use Areas with a record of compliance concerns. The Administrator shall also ~~and~~ establish procedures to monitor and assure compliance with conditions of this General Permit. The Administrator shall also ensure that regular inspections occur to assure cross-connections with potable water systems are not made and air-gap devices are installed and operable.”
- 15.) p. 18 of 19, Provision C.16: modify as follows: “The Administrator shall ensure the Producer or Distributor reports any noncompliance that may endanger human health or the environment... to the appropriate ~~R~~regional ~~W~~water ~~B~~board office....”
- 16.) P. 19 of 19, Provision C.17: “The unauthorized discharge of 50,000 gallons or more of “disinfected tertiary recycled water” shall be reported as described in Provision C.16. The unauthorized discharge of 1,000 gallons or more of “disinfected tertiary recycled water” shall be reported to the appropriate Regional Water Board office as soon as possible, but no later than seventy-two (72) hours after becoming aware of the unauthorized discharge.”
- 17.) p. 19 of 19, Provision C.19: modify as follows: “Upon enrollment in this General Permit, if the ~~enrollee is~~ Producers or Distributors are subject to general or individual waste discharge requirements or water reclamation requirements, the provisions of such requirements are null and void to the extent that the ~~discharge recycled water use~~ is regulated by this ~~order~~ General Permit.”
- 18.) P. 19 of 19, Provision C.20: “...The Executive Director may also terminate coverage under this General Permit for cause. The Executive Director is hereby authorized to revise the Monitoring and Reporting Program and Attachments B, C, D, E, and F (MRP) of this General Permit. Causes for modification or termination of coverage include, but are not limited to, changes to statutes, the promulgation of new regulations, adoption of new policy, modification to water quality control plans, Regional Water Board finding of “unusual circumstances” per the Recycled Water Policy, or other changes determined necessary to protect beneficial uses of waters of the state.”
- 19.) P. 1 of 4, Monitoring and Reporting Program: deleted the word “monthly” as follows: “For basins where a Regional Water Quality Control Board has not adopted a Salt and Nutrient Management Plan, the Administrator shall monitor recycled water production, distribution, and use within its service area for each respective basin / sub-basin ~~monthly~~ (Attachment F) for the following parameters:”

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- 20.) p. 1 of 4, [Monitoring and Reporting Program](#): added the following footnote to monitoring schedule for “Volume of Recycled Water” as follows: “Estimation of the volume of recycled water shall not include other potable or non-potable “make-up” water also used to irrigate landscape, if any.”
- 21.) p. 1 of 4, [Monitoring and Reporting Program](#): deleted the requirement to monitor for “Volume of Additional Water” and its associated footnotes “May be estimated based on available data (e.g., meters read every other month or quarterly) and ”Estimations shall account for precipitation, on-site irrigation water (e.g., impounded water, groundwater wells, cisterns), and other water supplied by the Distributor or User.”
- 22.) p. 1 of 4, [Monitoring and Reporting Program](#): added the following footnote to monitoring schedule for “Total number of use areas / basin” as follows: “⁴ This parameter represents the total number of use areas within the Administrator’s service area with each respective basin / sub-basin.”
- 23.) p. 1 of 4, [Monitoring and Reporting Program](#): Revised the required monitoring sampling frequency for “Total number of use areas / basin” from monthly to annual.
- 24.) p. 2 of 4, [Monitoring and Reporting Program](#): Revised footnote no. 4 as follows: ~~“⁴⁵ Total nNitrogen application rate shall consider nutrients contained in the recycled water, based on monthly analytical data provided by the Producer to the Regional Water Board as well as any other chemical or organic fertilizers used in the operation of the Recycled Water Use Area.~~
- 25.) p. 2 of 4, [Monitoring and Reporting Program](#): Revised footnote no. 6 to correct punctuation error as follows: ~~“⁶⁷ Salinity application rate shall be calculated using the applied volume of recycled, actual application area, the most recent results for the concentration of total dissolved solids in the recycled water, and the salinity characteristics of any additional sources of salinity.~~
- 26.) p. 2 of 4, [Monitoring and Reporting Program](#): deleted requirement for Administrator to collect information by March 15, as follows: ~~“**By the 15 of March of each year,** the Administrator shall obtain an annual report for each respective Use Area of the information as required in the above monitoring schedule for the previous calendar year. If any parameter or constituent is monitored more frequently than is required by this General Permit, the results of such monitoring shall be included in the monitoring report.”~~

27.) P. 3 of 4, Monitoring and Reporting Program:

- “ 2. A description of the measures employed by the Administrator during the reporting period to conduct periodic inspections of the Use Areas. The description shall include the following elements: date of inspections, description of any violations identified during the reporting period including any indications of unauthorized cross-connections, and all actions taken or planned for correcting violations, such as operation or facility modifications.

The periodic inspection shall also include an evaluation verifying that the application of recycled water to the Use Area occurs at reasonable agronomic rates. The agronomic rate evaluation shall consider all applied nutrients from all sources (directly applied and as contained in the recycled water) the seasonal nutrient demand for the specific plants being grown; soil; and climate. If the agronomic rate evaluation determines that exceedances of the agronomic rate may be occurring, the Administrator shall implement corrective actions to ensure recycled water use occurs at reasonable agronomic rates.

If the Administrator has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory.”

28.) P. 3 of 4, Monitoring and Reporting Program: Per revisions to Provision C.7 (Change No. 13), added requirement for Administrator to provide description of new use sites as follows:

“A description of new use sites approved by CDPH. The description shall include information necessary for the CDPH to evaluate new use sites pursuant to the Title 22 Requirements. Examples of necessary information may include location of backflow prevention devices, drinking fountains, groundwater wells, et cetera.”

29.) p. A-3 of A-3, Attachment A-Definitions: corrected a typographical error as follows: “Recycled Water Use Area (Use Area): An area where recycled water is to be used pursuant to this General Permit which is defined by its boundaries or project area (e.g. a golf course, residential neighborhood, school yard, park, etc.) so as to be consistent with Title 22 section 60301.920.”

30.) [Attachment F](#): Made numerous changes to the standard reporting format, Attachment F, consistent with changes to the Monitoring and Reporting Program.

REVISED MONITORING AND REPORTING SCHEDULE

The following represents a ‘clean version’ (i.e., all changes as discussed herein accepted) of the proposed changes to the Monitoring and Reporting Schedule:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Frequency</u>	
			Sampling	Reporting
Volume of recycled water ^{1, 2}	acre-feet	Varies	Monthly ³	Annual
Total number of use areas / basin ⁴	--	Observation	Annual	Annual
Total area of application	Acres	Observation	Monthly	Annual
Nitrogen application rate ^{5, 6}	lbs/acre/month	Calculated	Monthly	Annual
Salinity application rate ⁷	lbs/acre/month	Varies ¹	Monthly	Annual

¹ Estimation of the volume of recycled water shall not include other potable or non-potable “make-up” water also used to irrigate landscape, if any.

² May be estimated based on daily percentage of recycled water supplied via a non-potable water supply system.

³ May be estimated based on available data (e.g., meters read every other month or quarterly)

⁴ This parameter represents the total number of use areas within the Administrator’s service area with each respective basin / sub-basin.

⁵ Nitrogen application rate shall consider nutrients contained in the recycled water, based on monthly analytical data provided by the Producer to the Regional Water Board.

⁶ Nitrogen concentrations shall be calculated and reported “as N.” For example, nitrate-nitrogen = 27 mg/L of (as NO₃) shall be converted and reported as nitrate-nitrogen = 6 mg/L (as N).

⁷ Salinity application rate shall be calculated using the applied volume of recycled, actual application area, the most recent results for the concentration of total dissolved solids in the recycled water.

REVISED ATTACHMENT F

The following represents a ‘clean version’ (i.e., all changes as discussed herein accepted) of the proposed changes to Attachment F of the draft General Permit:

V. Annual Recycled Water Report for the Basin / Sub-basin

Month	Volume of Recycled Water (Ac-ft.)	Total Number of Use Areas / basin	Area of Application (Acres)	Nitrogen Application Rate (lbs/Acre/Month)	Salinity Application Rate (lbs/Acre/Month)
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Annual Average¹:					
Total:					

¹ Mean average value for the calendar year.

OTHER DOCUMENTATION

<p>Describe approved amendments to the approved Title 22 Engineering Report. Include copies of approval letter(s) prepared by CDPH regarding such amendments to the Title 22 Engineering Report if any.</p>			
<p>Provide a description of new use sites approved by CDPH. The description shall include information necessary for the CDPH to evaluate new use sites pursuant to the Title 22 Requirements. Examples of necessary information may include location of backflow prevention devices, drinking fountains, groundwater wells, et cetera.</p>			
<p>Describe the nature, extent, and cause of any exceedances of turbidity or disinfection standards, if any. Discuss corrective actions taken or planned to resolve the exceedances of turbidity or disinfection standards</p>			
<p>PERIODIC INSPECTION OF RECYCLED WATER USE AREA</p>			
<p>Cross-connection Prevention</p>			
<p>Recycled Water Use Area Name</p>	<p>Date of Inspection(s) for cross-connection prevention:</p>	<p>Description of violations identified, if any:</p>	<p>Actions taken or planned for correcting violations:</p>
<p>Agronomic Rate Evaluation</p>			
<p>Average Agronomic Demand (lbs/acre/year)</p>		<p>Average Nitrogen application (lbs/acre/year)</p>	
<p>Corrective actions taken to ensure recycled water use occurs at reasonable agronomic rates</p>			