

**Comparison of Recycled Water General Order Requirements
8/29/14**

Section	96-011	Section	2014-0090
Purpose and Applicability	<ul style="list-style-type: none"> • A separate NPDES permit must be obtained for projects that use ephemeral or year-round streams or other waters of the State for rw conveyance 	Background	None
State Reclamation Policies and Regulations	<ul style="list-style-type: none"> • RWQCB and CDPH must issue rw requirements for all projects via this Order 	Statutory and Regulatory Issues	<ul style="list-style-type: none"> • RWQCB may prescribe general Waste Discharge Requirements (WDRs) for a category of discharges if the discharges are produced from the same or similar operations; same or similar types of waste, same or similar treatment standards; more appropriately regulated under general WDRs than individual WDRs. • Technical and monitoring reports specified in this GO are required pursuant to Water Code Section 13267 - the NOI, and the Monitoring and Reporting Program (MRP) reports. Failure to submit or falsifying may result in assessment of civil liberties.
Reuse Water Quality Requirements and Limitations	<ul style="list-style-type: none"> • Reuse Water Quality Requirements and Limitations shall meet the most current Title 22 regulations • Producer/Distributor shall discontinue delivery of rw during any period in which it has reason to believe it doesn't meet requirements • Minimum Recycled Water Quality – Rw shall be adequately oxidized and disinfected that receives at least secondary level treatment and meets corresponding DO, DS and Total Coliform limits • Secondary – 23 Recycled Water (Restricted Use) – Shall meet the following total coliform limit prior to delivery: after adequate disinfection, does not exceed a median value of 23 MPN/100ml, etc., and a maximum value of 240 MPN/100ml, etc. • Secondary rw may be used where the public has restricted access or exposure • Secondary – 2.2 Recycled Water – Shall meet the following total coliform limit prior to delivery: after adequate disinfection, does not exceed a median value of 2.2 MPN/100ml, etc., and a maximum value of 23 MPN/100ml, etc. • Tertiary Recycled Water – Shall be coagulated and filtered and meet the following coliform, disinfection process and turbidity limits: after adequate contact with disinfectant, does not exceed a median value of 2.2 MPN/100ml, and a maximum value of 23 MPN/100ml, etc. No sample shall exceed a total coliform value of 240 MPN/100/ml • Disinfection Process – 1) a chlorine disinfection process that provides a CT value of not less than 300 milligram-minutes/liter at all times with a modal contact time of 90 minutes; or 2) A disinfection process that, when combined 	No Section – referred to in Specifications Section of 2014-0090	

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	<p>with the filtration process, has been demonstrated to reduce the concentration of F-specific bacteriophage MS-2, or polio virus, per unit volume of water in wastewater to 1/100,000 of initial concentration in the filter influent.</p> <ul style="list-style-type: none"> • Turbidity – Shall not exceed 2NTU daily average, 5 NTU more than 5 percent of the time, or 10 NTU at any time. • Recycled Water Storage Limitations – Any storage facility containing rw shall be managed in a manner to control odor or nuisance conditions • All storage ponds shall be protected from erosion, washout and flooding from a 24-hour rainfall event (100 yr) 		
Regional Board Basin Plan	<ul style="list-style-type: none"> • Water quality objectives included in the Basin Plan will be used in regulating water quality factors in this Order for reuse. 	Basin Plans and Beneficial Uses	<ul style="list-style-type: none"> • Basin Plan discharge requirements – This GO requires that users abide by those objectives in receiving water. Determination of applicable water quality objectives is part of the application process.
Prohibitions	<ul style="list-style-type: none"> • Treatment, storage, distribution, or reuse shall not create a nuisance • No application during periods when soils are saturated • No run-off from use areas (or runoff that would cause degradation to other water bodies) • No spray or runoff to enter a dwelling or food handling facility, or contact drinking fountains • Not be applied in groundwater recharge or wellhead protection areas • Use shall not cause rising groundwater discharging to surface water to impair surface water quality objectives or beneficial uses • Incidental discharge of rw to waters of the State shall not unreasonably affect present and anticipated beneficial uses, and not result in water quality less than that prescribed in water quality control plans or policies unless authorized • No rw discharges other than those permitted in this GO • Not for use as a domestic or animal water supply • No cross connections 	Prohibitions	<ul style="list-style-type: none"> • No run-off from use areas • No spray or runoff to enter a dwelling or food handling facility, or contact drinking fountains • Incidental runoff shall not result in water quality less than that prescribed in water quality control plans or policies unless authorized • No rw discharges other than those permitted in this GO • No cross connections • No groundwater replenishment • No disposal of treated wastewater through percolation ponds, excessive hydraulic loading, etc.
No Section – referred to in Reuse Water Quality Requirements and Limitations Section of 96-011		Specifications	<p>All rw production, distribution, and use permitted under this GO shall be in compliance with the following:</p> <ul style="list-style-type: none"> • All applicable Title 17 and 22 requirements • All requirements under this GO • A CDPH approved Title 22 Engineering Report • A NOA issued by the RWQCB • A Salt and Nutrient Management Plan adopted by the RWQCB as a Basin Plan Amendment • WDRs and NPDES permits for rw production facilities • Water Recycling Use Permit issued by the rw Administrator • Applicable water quality related CEQA mitigation measure • Water Code Section 1211 for facilities where the changes to the discharge are necessary to accomplish water

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<p>No Section – referred to in Reuse Program Provisions and General Provision Sections of 96-011</p>		<p>Water Recycling Administration Requirements</p>	<p>recycling and will result in changes in flow in a watercourse</p> <ul style="list-style-type: none"> • File and NOI indicating the intention to be regulated under this General Order • Enforce rules or regulations governing the design and use of recycled water facilities and use of recycled water • No cross connections • Ensure recycled water quality standards of this GO are met, and responsible for O&M of all associated facilities and appurtenances • Must conduct periodic inspections of the user's facilities and operations to determine compliance with this GO • Comply with Standard Provisions and Reporting Requirements • Comply with use area conditions • If recycled water will be transported by truck for Title 22 approved uses, the Administrator shall provide notification and control measures for users consistent with Engineering Report • Copy of Water Recycling Permit must be provided to users • Comply with monitoring and reporting program. The program must be consistent with Salt Nutrient Management Plan for the basin/sub-basin • Assure facilities and control systems in proper working order • Proper personnel training • Assure that all above ground equipment, pumps, piping, reservoirs, valves, etc. are appropriately identified.
<p>General Provisions</p>	<ul style="list-style-type: none"> • Producer will document User compliance with all conditions of this Order • Producer shall conduct periodic random inspections of selected Users to ensure compliance to be done when irrigation is in progress • RWQCB will conduct annual inspection/audit of each Producer's rw program and conduct periodic spot field inspections • Producer, User/Distributor shall permit the RWQCB • Access to records • Inspection of facilities, equipment, practices, or operations • Sample or monitor for compliance with Order • Order may be terminated for violations of conditions contained in the Order 	<p>General Provisions</p>	<ul style="list-style-type: none"> • Document compliance with all conditions of this GO and of rw criteria specified in Titles 17 and 22 • Submit a Salt Nutrient Management Plan • RWQCB will conduct inspections/audits of projects, and review project records, facilities, monitoring data, or perform sampling

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Self-Monitoring Program	<ul style="list-style-type: none"> • Producer shall develop and implement a rw monitoring program • Program shall include observations, sampling, measurements, and analyses • Producer will set individual user monitoring requirements based on the size, volume used, complexity, etc. of each use area • All rw use areas shall be inspected at a frequency specified in the User's Water Reuse Permit, and will include standard observations (runoff, odor, ponding, leaks, erosion, etc.), and appropriate signage 	Monitoring and Reporting Program	<p>All samples must be representative of the volume and nature of the discharge or matrix of material sampled. Program must be consistent with SNMP for the basin/sub-basin.</p> <ul style="list-style-type: none"> • Recycled Water Monitoring – if rw is used for irrigation of landscaped areas, priority pollutant monitoring is required at the production facility (Frequency of monitoring corresponds to the flow rate of the recycle water use) • Disinfection System Monitoring – If disinfection is performed, samples shall be collected form immediately downstream of the disinfection system (Monitoring shall be customized to the site-specific conditions) • Pond System Monitoring – Ponds containing rw shall be monitored for the freeboard, odors, and berm condition quarterly • Use Area Monitoring – Monitoring will be performed at a frequency appropriate to determine compliance with this GO. The frequency of the use area inspections shall be based on the complexity and risk of each use area. • Cooling/Industrial/Other Uses of Recycled Water – Monitoring required for cross connections (four years), backflow incidents (continuous), and backflow device testing and maintenance (annually)
Reporting Requirements	<ul style="list-style-type: none"> • Significant Violation – Producer shall report to the RWQCB violations that threaten public health or water quality within 24 hours, followed by a written report within 15 days • Annual Report – Shall be submitted by March 15 of each year, summarizing rw use by User, list of authorized Users, daily volume delivered, effluent violations, and a discussion of the progress and results of the program 	Reporting	<ul style="list-style-type: none"> • Annual Reports – Summary table of all users and use areas; inspections and enforcement activities; evaluation of performance of treatment facility; tabular and graphical summaries of monitoring data collected; and name and contact info for O&M and system monitoring
No Section – referred to in Reuse Program Provisions of 96-011		No Section – referred to in Water Recycling Administration Requirements of 2014-0900	
Reuse Program Provisions	<u>Producer Responsibilities</u> <ul style="list-style-type: none"> • Producers shall submit and NOI to be covered under this Order • Producer may authorize specific rw projects on a case-by-case basis in accordance with a designed permit-based program for Users • Producer shall establish and enforce rules and regs for the design and construction of rw use facilities and the use of rw in accordance with CDPH criteria • Producer or Distributor shall submit to CDPH documentation for proper installation of backflow devices 	No Section – referenced in Water Recycling Administration Requirements Section of 2014-0900	

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	<p>and absence of cross connections prior to commencing use of rw at sites</p> <ul style="list-style-type: none"> • Producer will be responsible for ensuring rw quality, and O&M of facilities and appurtenances • Producer shall conduct periodic inspections of User's facilities and operations to assure compliance • Producer shall comply with the Standard Provision and Reporting Requirements <p><u>Joint Responsibilities</u></p> <ul style="list-style-type: none"> • Each User shall demonstrate to the Producer all applicable use area requirements • If anyone other than the User is responsible for applying rw, the User shall inform the Producer • Copy of the Water Reuse Permit must be provided to the Users by the Producer • Producer shall comply with self-monitoring program • Producer shall assure no cross connections • Producer and Users shall maintain in good working order and operation any facility or control system installed by the Producer or User • Producer, Distributors and Users should receive appropriate employee training • Producer and Users shall assure that all above ground equipment including pumps, piping, storage reservoirs, valves, etc. are clearly identified with appropriate tags and signage 		
No Section – referred to in General Provisions Section of 96-011		No Section – referred to in General Provisions Section of 2014-0900	
No Section – no references		Antidegradation Analysis	<p>Requires additional monitoring and anti-degradation analysis</p> <ul style="list-style-type: none"> • Monitoring of priority pollutants - Annual monitoring for priority pollutants is required for design production flows greater than 1 million gpd; a five year monitoring frequency is required for flows less than one million gallons per day • Requires Best Practicable Treatment of Control (BPTC) – A combination of treatment, storage, and application methods that implement the requirements of Title 22 and the Regional Water Board Water Quality Control Plans (Basin Plans) <ul style="list-style-type: none"> • Rw use shall not cause unacceptable groundwater and/or surface water degradation <ul style="list-style-type: none"> • Discretion regarding permitting storage in unlined ponds (GGP lakes?) • Application of rw limited to agronomic rates to minimize nutrient loading – considering soil, climate, and plant demand • Use controlled to prevent runoff from application areas • Rw shall not create nuisance conditions – soil saturation, control spray, etc. • Use is consistent with Title 22 specifications –

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			acceptable uses of rw water, signage, monitoring frequency, backflow prevention, cross-connection tests, setback requirements, etc. (Titles 22 and 17)