

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906**

**PRODUCER AND DISTRIBUTOR  
MONITORING AND REPORTING PROGRAM REQUIREMENTS  
ORDER NO. R3-2006-0041**

(Waste Discharger Identification No. 3 271026001)

FOR

**CALIFORNIA AMERICAN WATER (PRODUCER), LAS PALMAS RANCH WATER  
RECLAMATION PLANT; MONTEREY COUNTY (DISTRIBUTOR), CSA 72-LAS PALMAS  
RANCH IRRIGATION FIELDS;  
AND INDIRECT USERS;  
MONTEREY COUNTY**

**PRODUCER REQUIREMENTS**

**A. WATER SUPPLY MONITORING**

1. Representative samples of the water supply shall be collected and analyzed for the following:

Constituent	Units	Sample Type	Sampling Frequency
Total Dissolved Solids	mg/L	Grab	Annually - July
Sodium	mg/L	Grab	Annually - July
Chloride	mg/L	Grab	Annually - July
Sulfate	mg/L	Grab	Annually - July
Boron	mg/L	Grab	Annually - July
Nitrate (as N)	mg/L	Grab	Annually - July

**B. INFLUENT MONITORING**

1. Representative samples of the treatment facility influent shall be collected and analyzed for the constituents/parameters and at the frequencies specified in the following table:

Constituent/Parameter <sup>a</sup>	Units	Sample Type <sup>b</sup>	Sampling Frequency
Daily Flow Volume	gal/day	Metered	Continuous
Min Daily Flow	gal/day	Calculated	Monthly
Max Daily Flow	gal/day	Calculated	Monthly
Average Daily Flow	gal/day	Calculated	Monthly
pH	Units	Grab	Weekly
BOD <sub>5</sub>	mg/L	24-hour composite	Monthly
Total Suspended Solids	mg/L	24-hour composite	Monthly
Total Nitrogen (as N)	mg/L	24-hour composite	Monthly
Total Dissolved Solids	mg/L	24-hour composite	Semiannually <sup>c</sup>
Sodium	mg/L	24-hour composite	Semiannually <sup>c</sup>
Chloride	mg/L	24-hour composite	Semiannually <sup>c</sup>
Sulfate	mg/L	24-hour composite	Semiannually <sup>c</sup>
Boron	mg/L	24-hour composite	Semiannually <sup>c</sup>

## Notes:

- a) Sampling for specific analytes may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- b) Composite samples shall be flow weighted. 24-hour composite samples shall be collected on a Monday through Sunday rotating schedule and subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- c) Semi-annual monitoring shall be conducted in January and July.

**C. EFFLUENT MONITORING**

1. Representative samples of treatment facility effluent shall be collected and analyzed for the constituents/parameters and at the frequency specified below for each treatment facility until such time as the effluent streams from both facilities are combined with a common disinfection treatment unit:

Constituent/Parameter <sup>a</sup>	Units	Sample Type	Sampling Frequency
Daily Flow <sup>b</sup>	gal/day	Metered	Continuous
Turbidity	NTU	Metered	Continuous
Total Chlorine Residual <sup>c, g</sup>	mg/L	Metered	Continuous
Coliform	MPN/100 ml	Grab	Daily
BOD <sub>5</sub>	mg/L	Grab	Weekly <sup>c</sup>
Total Suspended Solids	mg/L	Grab	Weekly <sup>c</sup>
Total Nitrogen (as N)	mg/L	Grab	Monthly <sup>c</sup>
Nitrate (as N)	mg/L	Grab	Monthly <sup>c</sup>
Ammonia (as N)	mg/L	Grab	Monthly <sup>c</sup>
pH	Units	Grab	Weekly <sup>c</sup>
Total Dissolved Solids	mg/L	Grab <sup>d</sup>	Semiannually <sup>f</sup>
Sodium	mg/L	Grab <sup>d</sup>	Semiannually <sup>f</sup>
Chloride	mg/L	Grab <sup>d</sup>	Semiannually <sup>f</sup>
Sulfate	mg/L	Grab <sup>d</sup>	Semiannually <sup>f</sup>
Boron	mg/L	Grab <sup>d</sup>	Semiannually <sup>f</sup>

## Notes:

- a) Sampling shall occur immediately following the final treatment process (i.e. disinfection or dechlorination as applicable) unless noted otherwise.
- b) Flow as measured leaving the effluent storage ponds.
- c) Weekly and monthly samples shall be collected on a Monday through Sunday rotating schedule. Subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- d) Samples shall be collected from the final effluent storage pond to determine as delivered salts concentrations.
- e) Shall be compared to the chlorine residual required to achieve a minimum CT value of 450 milligram-minutes per liter.
- f) Semi-annual monitoring shall be conducted in January and July.
- g) Chlorine residual monitoring is not required for ultraviolet (UV) disinfection. The Executive Officer may require alternative sampling and reporting requirements for UV disinfection based on manufacturer and DHS recommendations to achieve minimum disinfection per footnote 21 of paragraph C.6 of Master Reclamation Requirements Order R3-2006-0041.

**D. STORAGE FACILITY MONITORING**

1. Recycled water storage areas shall be inspected daily. Weekly visual inspections will be allowable for storage reservoirs fitted with reliable electronic remote depth gauging systems. Notes shall be kept of observations and shall be summarized in annual monitoring reports. In the event of impending freeboard violation, storage pond overflow, or backflow into the treatment plant, the Distributor (and Users as appropriate), Executive Officer, and the Department of Health Services shall be notified immediately.

2. The Producer shall provide weekly irrigation reports in an electronic format to the Distributor and Users documenting Facility influent flows, User irrigation flows (including Producer Facility irrigation flows reported separately), and the amount of recycled effluent in storage and remaining storage capacity.

#### **E. SOLIDS/BIOSOLIDS MONITORING**

1. The following information shall be submitted with the Annual Report required by Standard Provision C.16:
  - a. Annual biosolids removed in dry tons and percent solids.
  - b. If appropriate, a narrative description of biosolids dewatering and other treatment processes, including process parameters. For example, if drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration.
  - c. A description of disposal methods, including the following information as applicable related to the disposal methods used at the facility. If more than one method is used, include the percentage and tonnage of annual biosolids production disposed by each method.
    - i. For landfill disposal include: 1) the Regional Board WDR numbers that regulate the landfills used, 2) the present classifications of the landfills used, and 3) the names and locations of the facilities receiving biosolids.
    - ii. For land application include: 1) the location of the site(s), 2) the Regional Board's WDR numbers that regulate the site(s), 3) the application rate in lbs/acre/year (specify wet or dry), and 4) subsequent uses of the land.
    - iii. For offsite application by a licensed hauler and composter include: 1) the name, address and USEPA license number of the hauler and composter.
  - d. Copies of analytical data required by other agencies (i.e. USEPA or County Health Department) and licensed disposal facilities (i.e. landfill, land application, or composting facility) for the previous year.

#### **F. REPORTING**

1. The Producer shall immediately report any non-compliance potentially endangering public health or the environment or resulting in off specification effluent (effluent that does not meet the Title 22 criteria for "disinfected tertiary recycled water") to the Regional Board (805/549-3147), the California Department of Health Services (831/655-6939), the Distributor, and any other agencies as appropriate. Any information shall be provided orally within 24 hours from the time the Producer becomes aware of the non-compliance.

A written report shall also be submitted to the Executive Officer, the California Department of Health Services, and the Distributor within five (5) days of the time the Producer becomes aware of the circumstances. The written report shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.

2. The Producer shall submit **Quarterly** monitoring reports by the first of the second month following the end of each quarter as follows:

Monitoring Period	Report Submittal Date
January 1 – March 31	May 1 <sup>st</sup>
April 1 – June 30	August 1 <sup>st</sup>
July 1 – September 30	November 1 <sup>st</sup>
October 1 – December 31	February 1 <sup>st</sup>

3. The monitoring reports shall contain all data collected or calculated over the previous quarterly monitoring period. All monitoring data shall be tabulated in a logical and coherent format and be accompanied by copies of laboratory analytical data sheets as applicable. The data shall be summarized in a manner that clearly illustrates compliance with the Order and Title 22 requirements for disinfected tertiary recycled water.
4. **By January 30<sup>th</sup> of each year** the Producer shall submit an annual monitoring report Pursuant to Standard Provisions and Reporting Requirements, General Reporting Requirement C.16 which states:

“By January 30 of each year, the discharger shall submit an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. The Discharger shall discuss the compliance record and corrective actions taken, or which may be needed, to bring the discharger into full compliance. The report shall address operator certification and provide a list of current operating personnel and their grade of certification. The report shall inform the Board of the date of the Facility’s Operation and Maintenance Manual (including contingency plans as described in Provision A.24), of the date the manual was last reviewed, and whether the manual is complete and valid for the current facility. The report shall restate, for the record, the laboratories used by the discharger to monitor compliance with effluent limits and provide a summary of performance relative to Section B, General Monitoring Requirements.”

The annual reports shall also include the following:

- a. A complete electronic copy of the previous years data in a Microsoft Excel <sup>TM</sup> spreadsheet format;
  - b. Biosolids data as specified above; and,
  - c. A copy of the most recent Off-Specification Contingency Plan or a statement certifying the plan has been reviewed but not updated during the previous year with reference to the date of the current plan.
5. If the Producer monitors any pollutant more frequently than is required by this Monitoring and Reporting Program, the results of such monitoring shall be included in the monitoring reports.

### DISTRIBUTOR REQUIREMENTS

#### G. RECYCLED WATER USE AREA MONITORING

1. The quantity of reclaimed water distributed to each reuse site shall be recorded on a weekly basis. Total flows shall be metered or estimated based on irrigation run times and distribution system design flow rates. Total as applied flows shall be compared to Producer effluent flow rates.
2. During periods of recycled water application the Distributor or Users, as applicable, shall inspect the irrigation use areas no less frequently than weekly to verify and document compliance with Order No R3-2006-0041. The visual inspections shall be noted in a bound inspection logbook(s) and at a minimum shall document proper sprinkler operation, runoff, erosion, saturated surface conditions, and

odors. The logbook(s) shall be made available to the Regional Board and California Department of Health Services upon request. A summary of observations made during water recycling area inspections and a brief discussion of any corrective actions taken or planned shall be included with each annual monitoring report.

3. The Distributor and Users shall coordinate with the California Department of Health Services to ensure and document that backflow devices are present, tested annually by a certified individual, and repaired or replaced if found defective.
4. The Distributor shall inspect and document the operation of the reuse site irrigation systems at least quarterly to verify that the Users are operating the reuse sites in compliance with the uniform statewide reclamation criteria established pursuant to California Water Code Section 13521 and Order No. R3-2006-0041<sup>1</sup>.
5. The Distributor in coordination with the Users, water purveyor, and California Department of Health Services shall perform and document a cross-connection test by an appropriately certified individual on an annual basis at each reuse site where both recycled water and potable water piping systems are utilized for irrigation or are otherwise present in proximity to each other.<sup>2</sup>
6. Each individual User Reclaimed Water Site Supervisor shall provide quarterly updates to the Distributor regarding irrigation frequency and flow rates, proposed system modifications, system peculiarities, and to verify employee training. The Distributor shall keep a record of all system modifications and document that all work is conducted in accordance with the Cross Connection Control Plan and applicable regulations.
7. The Distributor shall compile and conduct quarterly reviews of the applied recycled water flows to identify unusual usage behavior or significant changes. The Distributor shall conduct and document follow-up investigations if patterns change dramatically.

## H. GROUNDWATER MONITORING

1. Representative samples of groundwater shall be collected from monitoring wells MW-1, MW-2, MW-3, and all newly installed monitoring wells. Samples of groundwater shall be collected and analyzed for the constituents and at the frequencies specified in the following table:

Constituent/Parameter <sup>a, b, c</sup>	Units	Sample Type	Sampling Frequency
Depth to Water	Feet	Measured	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly
Nitrate (as N)	mg/L	Grab	Quarterly
pH	Units	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Sodium	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Boron	mg/L	Grab	Quarterly

Notes: (see following page)

<sup>1</sup> Required pursuant to California Water Code Section 13523.1(b)(5)

<sup>2</sup> Cross-connection tests will not be required for portions of the distribution system or reuse site areas for which no distribution system or potable water system maintenance, modifications, or additions have occurred since the last cross-connection test. The Distributor shall provide a certified statement as such for portions of the distribution system or reuse sites not tested for potential cross-connection.

- a) Sampling for specific analytes or from specific monitoring wells may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- b) Provide well construction details for each monitoring well indicating total well depth and screen interval in depth below ground surface and elevations referenced to MSL along with the top-of well casing elevation
- c) Based on review of available groundwater data the Executive Officer may request geologic and hydrogeologic documentation to ascertain whether the existing monitoring well network is sufficient to verify compliance with waste discharge requirements and whether additional monitoring wells are required.

## I. REPORTING

1. The Distributor shall submit **Quarterly** monitoring reports summarizing reclaimed water use at each reuse site and shall including a list of the reuse sites with the name, location and brief description of each reuse site, the total amount of reclaimed water supplied to each reuse site, and the name of the hydrologic areas underlying each reuse site<sup>3</sup>. The Quarterly monitoring reports shall be submitted by the first of the second month following the end of each quarter as follows:

Monitoring Period	Report Submittal Date
January 1 – March 31	May 1 <sup>st</sup>
April 1 – June 30	August 1 <sup>st</sup>
July 1 – September 30	November 1 <sup>st</sup>
October 1 – December 31	February 1 <sup>st</sup>

2. The Distributor shall submit annual reports by March 1<sup>st</sup> of each year summarizing reclaimed water use, including the total volume of reclaimed water supplied, and the total number of reclaimed use sites and their locations. Reports shall include records of the Distributor's or User's reuse site inspections and results of the annual cross-connection tests. Annual monitoring reports shall contain at a minimum:
  - a. Documentation of the use area and groundwater monitoring requirements listed above;
  - b. A list of Users accompanied by a scaled map of the Las Palmas development and vicinity showing the recycled water use areas;
  - c. A table summarizing monthly recycled water application rates in acre-feet and gallons for each recycled water use area in a format consistent with Exhibit B – Water Balance Study, of the August 2005, RMC, Engineering Report, provided as part of the Distributor's November 17, 2005, ROWD application;
  - d. The Nutrient Management Plan report as specified in Distributor/User Requirements paragraphs D.21 through D.26 of Order No. R3-2006-0041;
  - e. The Salt Management Program report as specified in Distributor/User Requirements paragraphs D.27 through D.29 of Order No. R3-2006-0041; and,
  - f. An up-to-date copy of the Rules and Regulations for Recycled Water Users and a standard copy of the Recycled Water Use Permit issued to the Users as specified in Individual Recycled Water Use Permits paragraphs D.30 and D.32, respectively, of Order No. R3-2006-0041.
3. The monitoring reports shall contain all data collected or calculated over the previous annual monitoring period. All monitoring data shall be tabulated in a logical and coherent format and be accompanied by copies of laboratory analytical data sheets as applicable. The data shall be summarized in a manner that clearly illustrates compliance with the Order. The User list, use area map, and recycled water application summary table shall be cross-referenced for easy evaluation.

<sup>3</sup> Required by California Water Code Section 13523.1(a)(4)

4. The Distributor shall report any adverse conditions or non-compliance with Order No. R3-2006-0041 potentially endangering public health or the environment to the Regional Board (805/549-3147), California Department of Health Services (831/655-6939), and any other agencies as appropriate within 24 hours of knowing of such conditions. A summary record of all adverse conditions or non-compliance along with corrective actions taken shall be included in each annual monitoring report.

Depending on the severity of the adverse condition or non-compliance being reported, a written report may also be required by the Regional Board. The written report shall be required within five days of the initial informal reporting date and shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.

### PRODUCER AND DISTRIBUTOR REQUIREMENTS

#### J. PROVISIONS

1. All quarterly monitoring shall be performed any time during the monitoring quarter (calendar quarter), but samples representative of two consecutive quarterly periods must be separated by at least one month. Monthly sampling shall be conducted at regularly scheduled times during each month and consecutive events should be approximately four weeks apart and no less than two weeks apart. Unless otherwise specified by the Monitoring and Reporting Program, annual sampling shall be performed any time during the calendar year, but samples representative of two consecutive annual periods must be obtained at least six months apart.
2. All monitoring must be conducted according to test procedures established by 40 Code of Federal Regulations Part 136, entitled, "Guidelines Establishing Test Procedures for Analysis of Pollutants." All sampling analyses shall be conducted at the lowest practical quantitation limits achievable under U.S. EPA specified methodology. In cases where effluent limits are set below the lowest achievable practical quantitation limits, constituents not detected at the practical quantitation limit will be considered in compliance with effluent limitations.
3. All samples collected shall be tracked and submitted under chain of custody and analyzed by a laboratory certified by California Department of Health Services for the specified analysis.
4. This Monitoring and Reporting Program may be revised at any time during the Permit term, as necessary, under the authority of the Executive Officer.
5. The Producer and Distributor shall submit a copy of each monitoring report along with a completed copy of the attached monitoring and reporting program transmittal sheet to:

California Regional Water Quality Control Board  
Central Coast Region  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401

**K. IMPLEMENTATION**

1. This monitoring and reporting program shall be implemented immediately. However the Producer and Distributor will be allowed a two-month grace period to procure equipment and establish new sampling protocols and sampling locations as necessary for new monitoring requirements contained within this Monitoring and Reporting Program.

Ordered By: \_\_\_\_\_  
Executive Officer



Date \_\_\_\_\_

California Regional Water Quality Control Board  
Central Coast Region  
Attn: Monitoring and Reporting Review Section  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906

Mr. Briggs:

Facility Name: \_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact Person: \_\_\_\_\_

Job Title: \_\_\_\_\_

Phone Number: \_\_\_\_\_

WDR/NPDES Order Number: \_\_\_\_\_

Type of Report (circle one):

Monthly      Quarterly      Semi-Annual      Annual

Month(s) (circle applicable months\*):

JAN    FEB    MAR    APR    MAY    JUN  
JUL    AUG    SEP    OCT    NOV    DEC

\* Annual Reports (Circle the first month of the reporting period)

Year: \_\_\_\_\_

Violation(s) (Place an X by the appropriate response):

\_\_\_\_\_ **No** (there are no violations to report)      \_\_\_\_\_ **Yes**

If 'Yes' is marked, complete a-g:

a) Parameter(s) in Violation: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b) Section(s) of WDR/NPDES Violated: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c) Reported Value(s): \_\_\_\_\_  
\_\_\_\_\_

**d) WDR/NPDES Limit or Condition:**

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**e) Dates of Violation(s):**

(reference page of report/data sheet)

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**f) Explanation of Cause(s):**

(attach additional information as needed)

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**g) Corrective Action(s):**

(attach additional information as needed)

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In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, 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.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,

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Name:

Title: