

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2009-0037

For

CITY OF SANTA ROSA
NORTH VILLAGE TEST WELL DEVELOPMENT DISCHARGE
WDID NO. 1B09018NSON

Sonoma County

This monitoring and reporting program is issued to determine compliance with Waste Discharge Requirements Order No. 93-61 (NPDES Permit No. CA0024902), General National Pollutant Discharge Elimination System Permit/Waste Discharge Requirements for Discharges of Groundwater to Surface water Related to Construction and Subsurface Seepage Dewatering Activities in the North Coast Region and the Application/Report of Waste Discharge submitted by the City of Santa Rosa on February 13, 2009 and supplemental information submitted on March 19, 2009.

A. MONITORING

1. Monitoring Locations

The Permittee shall establish the following monitoring locations to demonstrate compliance with the requirements of Order No. 93-61:

Monitoring Location Name	Monitoring Location Description
M-1	Holding tank effluent at point of discharge and prior to mixing with the receiving water
M-2	Upstream receiving water
M-3	Downstream receiving water

2. Flow Monitoring

The Permittee shall monitor the discharge and receiving water flow rate continuously and calculate the average daily flow rate of the discharge during the entire period of the discharge. A log of all startup and shutdown times shall also be maintained. The flow rate, average daily discharge volume, duration, and total volume shall be monitored and reported.

3. Discharge Monitoring

The Permittee shall monitor the effluent from the second holding tank, at Monitoring Location M-1, for the following:

Parameter	Units	Type of Sample	Sampling Frequency
Turbidity	NTU	Grab or meter	Twice daily (minimum) after startup period. See “Sampling Frequency” below
Conductivity	micromhos/cm	Meter	
pH	pH Units	Meter	
Dissolved Oxygen	mg/L	Meter	
Temperature	°C or °F	Meter	
Hardness	mg/L	Grab	Once, shortly after initiation of discharge to storm drain
Chloroform	µg/L	Grab	Daily
Toluene	µg/L	Grab	Daily
Visual Monitoring	See “Visual Monitoring” in section 5 below.		

Sampling Frequency

Effluent monitoring shall begin within the first hour of each daily discharge and continue throughout the period of discharge. Effluent shall be monitored for turbidity, conductivity, pH, dissolved oxygen, and temperature twice hourly until such time to demonstrate that the quality of the water discharged is stable and in compliance with Order No. 93-61. When a steady state compliance condition is reached, the sample frequency may be reduced to hourly for the next two hours, thence to twice daily for the remainder of the discharge, if steady-state conditions are definitively established.

4. Receiving Water Monitoring

The Permittee shall monitor the upstream and downstream receiving water at Monitoring Locations M-2 and M-3, as follows:

Parameter	Units	Type of Sample	Sampling Frequency
Turbidity	NTU	Grab or meter	Twice daily (minimum) after startup period ¹
Conductivity	micromhos/cm	Meter	
pH	pH Units	Meter	
Dissolved Oxygen	mg/L	Meter	
Temperature	°C or °F	Meter	
Hardness ²	mg/L	Grab	Once, shortly after initiation of discharge to storm drain ¹
Visual Monitoring	See “Visual Monitoring” in section 5 below.		

¹ Additional receiving water samples shall be collected after the initiation of discharge if receiving water conditions change in response to weather (rainfall) conditions.

² Receiving water hardness samples shall be collected concurrently with effluent samples.

5. Visual Monitoring

- a. The Permittee shall conduct visual monitoring of the discharge and receiving water, and maintain a log of the visual observations by recording the presence or absence of:
 - i. Erosion, scour
 - ii. Sedimentation
 - iii. Turbidity
 - iv. Floating or suspended matter
 - v. Coloration
 - vi. Visible films, sheens, or coatings
 - vii. Odors
 - viii. Algae, fungi, slimes or other aquatic vegetation
 - ix. Aquatic life (insects, fish, etc)
 - x. Vectors (e.g., mosquito breeding)
 - xi. Localized flooding (for a distance of ¼ mile downstream of the discharge)
 - xii. Other factors affecting water quality not noted above.
- b. Photographs of the discharge at the temporary outfall, the drainage ditch and Wendell Creek shall be taken prior to the commencement of discharge, during each day of discharge and once after removal of the temporary outfall. The photographs shall be labeled with a date and time and included in the written monitoring report.

B. Reporting

1. The Permittee shall notify the Regional Water Board at least 48 hours prior to the initiation of discharge, by email (cgoodwin@waterboards.ca.gov) or by calling Cathy Goodwin at 707-576-2687.
2. Noncompliance Reporting. The Permittee shall report by telephone, any noncompliance with Order No. 93-61, including any violation of discharge limitations or receiving water limitations, or evidence that the discharge has adversely impacted any beneficial use of the receiving water. The telephone report must be made directly to Cathy Goodwin (707-576-2687), or an available Regional Water Board staff member (707-576-2220), as soon as possible, but no later than 24 hours from the time the Permittee becomes aware of the circumstances.
3. A written monitoring report shall be submitted such that it is received in the Regional Water Board office no later than 30 days after the completion of the project's well development activities. Monitoring reports shall contain all monitoring results that were obtained during the project duration. In reporting the monitoring data, the Permittee shall arrange the data in tabular form so that the date and monitoring information are readily discernible. The data shall be summarized in such a manner

as to illustrate clearly the compliance with Waste Discharge Requirements. The monitoring report shall also document proper disposal of any solid wastes generated during the treatment of the water discharged.

The monitoring report shall be submitted with a letter of transmittal. This letter shall include the following:

- a. Identification of facility: Name, address, WDID number;
- b. Date of report and monitoring period;
- c. A summary of the effectiveness of all treatment methods and/or management measures implemented;
- d. Identification of any violations of discharge requirements that occurred during the discharge;
- e. Details of the violations: parameters, magnitude, test results, frequency, and dates;
- f. The cause of the violation(s);
- g. Discussion of corrective actions taken to resolve violations and prevent recurrence, and dates or time schedule of action implementation;
- h. Authorized signature; and
- i. Certification statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 for knowing violations."

Ordered by:

Catherine Kuhlman
Executive Officer

April 2, 2009