California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2003-0077

FOR

JEROLD AND CONNIE RUZICKA
WILLITS KOA KAMPGROUND, WILLITS

Mendocino County

MONITORING

A. Wastewater Volume

Parameter	Units	Type of Sample	Sampling Frequency
Flow (new system)	gals/week	pump cycles	weekly
Occupancy	number of sites occupied in each of the three areas	----	daily

Flow volume shall be determined by reading the pump cycle counter on the pump control panel for the new system and multiplying number of cycles by the volume pumped per cycle.

Daily occupancy records shall distinguish between occupancies at campsites served by each of the three on-site systems.

B. Wastewater Monitoring

Effluent shall be monitored for the following constituents at the on-site system that receives dump station waste (1972 system):

Constituent	Units	Type of Sample	Sampling Frequency
Formaldehyde	mg/L	grab	semiannually
Zinc	mg/L	grab	semiannually
Phenol	mg/L	grab	semiannually
N as Ammonium	mg/L	grab	semiannually

Samples shall be collected from an accessible location after exiting the septic tank and before distribution to the disposal trenches (i.e. a distribution box).

C. Groundwater Monitoring

Water quality samples shall be collected from two down-gradient monitoring wells semiannually. Samples shall be collected during the high occupancy season and the low occupancy season each year. If any well is dry, this finding shall be indicated in the monitoring report. Approximate location of the wells is shown in Attachments "A" and "B".

Constituent	Units	Type of Sample	Sampling Frequency
Nitrate-Nitrogen	mg/L	grab	semiannually
Total Kjeldahl Nitrogen	mg/L	grab	semiannually
Total Phosphorous	mg/L	grab	semiannually
Ortho-Phosphorous	mg/L	grab	semiannually
Total Organic Carbon	mg/L	grab	semiannually
Ammonia as Nitrogen	mg/L	grab	semiannually

D. Groundwater and Leachfield Monitoring

The discharger shall monitor the performance of the new leachfield area and the 1972 leachfield area by observing and recording the elevation of the free water surface, once per month, in monitoring wells located in the leachfield system. Monitoring wells shall be installed as follows:

M1 and M2 shall be installed to a total depth of seven feet below ground surface and shall not be installed within a leachfield trench. (M1 in new system and M2 in 1972 system)

M3 and M4 shall be installed within leachfield trenches to a depth equal to the bottom of the trenches. (new system only)

All monitoring wells shall be constructed of three- or four-inch plastic perforated pipe (or equivalent), equipped with a locking removable cap and sealed at ground surface to prevent infiltration of surface water. A screw cap that requires wrenches for removal will suffice as a locking cap. All wells shall be perforated beginning at a depth of twelve inches below ground surface and extending to the bottom of the well.

E. Septic Tank Inspections

Septic tanks shall be inspected and pumped as described below. An inspection is not required during the year a septic tank is pumped.

Parameter	Units	Type of Measurement	Minimum Inspection Frequency
Sludge depth and scum thickness in each compartment of each septic tank	inches	staff Gauge	annually (by April of each year)
Distance between bottom of scum layer and bottom of outlet device	inches	staff Gauge	annually (by April of each year)
Distance between top of sludge layer and bottom of outlet device	inches	staff Gauge	annually (by April of each year)

Septic tanks shall be pumped when any one of the following conditions exist or may occur before the next inspection:

a) The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or
b) The scum layer is within three inches of the outlet device; or
c) The sludge layer is within inches of the outlet device.

In lieu of septic tank measuring, the septic tank may be pumped annually.

F. Disposal Field Inspections

The discharger shall inspect each disposal field once per month and shall note and record any odors, evidence of surfacing wastewater, or other signs of malfunction.

G. Maintenance and Operation of the New System

An inspection and observation of the pumping system shall be conducted annually. The inspection will verify pump, float, and alarm performance.

The screened pump vault within the pump chamber shall be cleaned as needed.

The pressurized laterals shall be flushed to remove any accumulation within the laterals.

Effluent filters within the septic tanks shall be inspected yearly and cleaned or replaced when necessary.

H. Reporting

Quarterly monitoring reports shall be submitted to the Regional Water Board such that they are received by the first day of the second month following the reporting period (due February 1, May 1, August 1 and November 1). Monitoring reports shall contain all monitoring results that were obtained during the quarter for which the report is prepared. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the date, monitoring, and inspections are readily discernible. The data shall be summarized in such a manner as to illustrate clearly the compliance with Waste Discharge Requirements. Narrative reporting should be in a letter form and signed by the responsible representative.

Ordered by _____ for
Susan A. Warner
Executive Officer

June 20, 2003

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