

# **Cold Creek Mobile Home Park Public Water System** **(PWS NV0005057)**

## **Water Conservation Plan – October 2014**

### **Background / System Information**

The Cold Creek Mobile Home Park (CCMHP) consists of two sections of camp trailers. The CCMHP public water system (PWS NV0005057) is available to both full-time and temporary employees/contractors of Bald Mountain Mine (BMM). The water system serves an area of approximately 630,000 square feet. The population served varies widely due to BMM manpower needs and seasonal conditions. As of September 2014, the population at the Cold Creek Mobile Home Park is approximately 55 employees. The majority of residents are employees housed in the camp trailer section. System users are neither metered nor billed for their water use, and there are no commercial services utilizing the system.

The system is located in Newark Valley in White Pine County. Water is supplied from a permitted well using a Jacuzzi submersible pump equipped with a 5 horsepower motor. There are no above-ground storage systems. Water from the well flows to the distribution system via 2 pressure tanks and does not require disinfection or any form of treatment. From the distribution system, water flows to the mobile homes and camp trailers via service lines.

Potable water use at the CCMHP water supply system consists of water closets, lavatories, sinks and showers. A hose bib is installed at each mobile home or trailer. There is minimal use of potable water for irrigation purposes at the CCMHP due to the temporal nature of the housing.

Wastewater collected from the area is managed through a total of 3 septic tank systems that are hooked to the mobile homes and camp trailers at the park. There is no reclaim water system within the CCMHP service area.

This Conservation Plan is to be reviewed at five year intervals, to ensure applicable modifications are made to meet changing system conditions.

### **Plan Elements**

This plan describes the drinking water conservation and drought management efforts in the CCMHP water supply system, along with implementation schedules. The plan components conform to Nevada regulations as outlined by the Nevada Department of Conservation and Natural Resource, Division of Water Resources. Plan elements address the following areas:

- Increase public awareness of the need to conserve water.
- Encourage reduction in lawn sizes and use of arid and semiarid plants.
- Identify specific water conservation measures.

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- Propose plan to identify and reduce leakage.
- Increase reuse of effluent where applicable.
- Provide a drought contingency plan.
- Implementation schedule.
- Plan effectiveness metrics.
- Variable pricing analysis.
- Water savings in gallons/day.
- How will rate structure impact conservation.
- Incentives to encourage water conservation.
- Incentives to retrofit plumbing fixtures.
- Incentives for water conserving landscapes.

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### **Public Awareness**

The CCMHP water supply system is used only by employees or contractors of BMM who utilize the man-camp. Personnel utilizing the system are made aware of the need to use water conservatively.

### **Lawn sizes and use of arid and semiarid plants**

There is very minimal use of water for lawn maintenance activities, arid/semiarid plant gardening or potting at the man-camp which is served by CCMHP water supply system. BMM does not encourage the residents of the camp to have lawns, nor are lawns typical in a temporal setting such as a mancamp.

### **Specific water conservation measures**

Residents utilizing the water supply system at the CCMHP are not billed. Most tenants utilize camp trailers, which by design utilize lower-flow water equipment than typically found in constructed residences. One Water meter is installed within the CCMHP's water supply system so historical well production can be compared to estimated population each year to determine the gallons per capita per day (gpcpd) consumption.

### **Plan to identify and reduce leakage**

BMM carries out regular and periodic/preventive maintenance as necessary on the CCMHP water supply system to identify and reduce leakage potential in the system.

Activities carried out under the regular maintenance program are:

- Influent flow meter reading and recording to analyze gallons per capita per day (gpcpd) consumption.
- *Well Head Pressure*: The pressure at the well should not exceed 100 psi. Excessive pressures may be caused by pipe or valve restrictions. The Well Head pressure is checked on a monthly basis.
- *Pressure Tank Pressure*: The operating pressure of the pressure tanks are set at 85 psi. Pressure at the tanks should not exceed 100 psi. The tank pressures checked on a monthly basis.

- *Water Quality:* Water from the CCMHP water supply system is sampled and analyzed at a State registered laboratory in accordance with the permit NV0005057 and regulatory requirements. All compliance sampling are overseen by BMM's Certified Water Operator.

Activities carried out under the periodic/preventive maintenance program are:

- *Valve Exercise Program:* All distribution line valves associated with the potable water system are exercised at least one time a year. All stuck and/or seized valves are replaced or repaired.
- *Drain Lines:* Any drain line associated with the pressure tanks are opened and allowed to flow for at least 30 seconds annually. Any problems encountered are repaired.
- *Pressure Tank Pressure Control Equipment:* The pressure tank control equipment is checked on a quarterly basis to make sure it is in a proper working condition. The control equipment is either repaired or replaced when found to be malfunctioning.

### Reuse of effluent

Effluent emanating from the use of water from the CCMHP system is managed through 3 septic tank systems that are hooked to the mobile homes and trailers at the park.

### Drought contingency plan

Nevada is an arid state and White Pine County is continuing to grow and water requirements are increasing. The area is subject to drought cycles; therefore, it is necessary to have a drought contingency plan. The objective of this plan is to manage available resources to insure continued supply of potable water during periods of drought. Water levels are monitored and recorded.

If BMM has indications that a water scarcity condition exists or is likely to exist at the CCMHP water supply system, BMM will proclaim the existence of a drought or emergency condition to the current tenants. BMM will communicate the following expectations:

### Drought or Emergency

1. Water from the CCMHP's water system which is allowed to pool, pond, or run-off of applied areas is considered a waste of water and as such is not permitted.
2. Water leaks occurring within the CCMHP's water supply system are considered a waste and as such are not permitted.
3. Water from the CCMHP's water system which runs overland due to excessive watering or poorly maintained sprinklers is considered a waste and as such is not permitted. If a sprinkler system is broken, it has to be fixed or removed from the water supply system.
4. During a Drought or Emergency, lawn watering, including landscaping and the watering of a garden, will NOT be permitted.

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## **Implementation schedule**

All of the plan elements listed are currently in place. The plan is to be reviewed every five years, and updated as system needs change.

## **Plan effectiveness metrics**

One Water meter is installed within the CCMHP's water supply system so historical well production can be compared to estimated population each year to determine the gallons per capita per day (gpcpd) consumption.

## **Variable pricing analysis**

Since residents of the CCMHP who utilize the water supply system are not billed for water usage, variable pricing analyses are not carried out on the system.

## **Water savings in gallons/person/day**

The CCMHP's water supply system has one installed meter within the system to monitor resident's water usage. BMM however believes that the drought contingency plan mentioned in this conservation plan will effectively conserve and save water for the system.

## **How will rate structure impact conservation**

Residents of the CCMHP are not billed for their water usage so the impact of water rates on conservation is non-applicable.

## **Incentives to encourage water conservation**

The CCMHP serves as a man-camp for BMM employees/contractors and there are no water conservation incentives. As noted above, most tenants utilize camp trailers, which by design have low-flow water systems.

## **Incentives to retrofit plumbing fixtures**

Maintenance of the CCMHP's water supply system is the sole responsibility of BMM so there are not incentives for residents in retrofitting external fixtures. The temporal nature of the mancamp minimizes the opportunity to retrofit any fixtures within trailers or modular homes.

## **Incentives for water conserving landscaping**

The CCMHP is a generally temporal mancamp, therefore landscaping and related incentives for water conserving landscaping is very limited.

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