

# Black Rock Station Water System

## Water Conservation Plan

### Background / System Information

The Black Rock Station Water system (PWS ID# NV 0000381) is the storage and production facility for the Burning Man Project and subsidiary operations.

The Black Rock Station water system serves the (2) residences on site, irrigation for a .5 acre park, one restroom facility, one common sink and (6) yard hydrants. This is a Transient, Noncommunity water system. The system is used exclusively by employees of the Burning Man Project at the production facility for 90 days prior and 60 days after the month of August. The system is located in the Hualapai Flat north of Gerlach, Nevada.

Water is supplied from one drilled well using a submersible pump. Above-ground storage consists of three 50-gallon tanks. Full-time disinfection has not been necessary and is not practiced.

Wastewater collected from the area is managed through individual septic systems. There is no reclaimed water system within the Black Rock Station service area. This plan is to be reviewed at five-year intervals, with modifications to meet changing system conditions.

### Plan Elements

This plan describes the drinking water conservation and drought management efforts in the Black Rock Station water 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 employee awareness of the need to conserve water.
- Identify specific water conservation measures for the residences, park, and bathrooms such as on demand only shower valves.
- Goal for water loss
- Metering
- Propose plan to identify and reduce leakage
- Provide a drought contingency plan
- Implementation schedule
- Plan effectiveness metrics
  - Does not apply due to this being a Transient/Non-community water system.
- Variable pricing analysis
  - Does not apply due to this being a Transient/Non-community water system.

- Water savings in gallons/person/day
  - Does not apply due to this being a Transient/Non-community water system.
- How will rate structure impact conservation
  - Does not apply due to this being a Transient/Non-community water system.
- Incentives to encourage water conservation
- Incentives to retrofit plumbing fixtures
- Incentives for water conserving landscaping

## **Employee Awareness**

The Black Rock Station efforts to enhance employee awareness of the need to conserve water include the following:

- We participate in Earth Day activities or other employee outreach
- Each employee is daily made aware of the necessity of water conservation for consumption.
- Informational handouts, flyers will be posted and made available to employees and visitors.

## **Lawn Sizes and Use of Arid and Semi Arid Plants**

The Black Rock Station water system encourages the park management employees to practice scientific turf management, makes literature and resources such as the Turf Institute, available to users. System owned turf areas are scientifically managed.

## **Watering Schedule**

Watering is restricted to odd and even days depending on Park event schedule. No watering between the hours of 10:00 A.M. and 6:00 P.M. or when windy.

## **Specific Water Conservation Measures**

The plumbing code, which specifies low-flow fixtures, is mandatory.

## **Water Loss**

The goal for acceptable water loss at Black Rock Station water system is 1%.

## **Metering**

The well is equipped with a master meter that pumps to three bladder tanks. From the tanks it provides water to the restroom facility, one residence, ten yard hydrants, a dish sink and two eye wash stations..

## **Plan to Identify and Reduce Leakage**

The Black Rock Station water system has in place a capital improvement plan to replace distribution lines at the anticipated life-cycle end.

Monthly, we compare current to historical same-month production. When production increases unexpectedly, we initiate a leak survey. Weekly, physical inspection of the site for any leaks that may have developed.

It is our written policy to repair leaks in a timely manner. All large leaks are repaired immediately and small leaks (less than 1 gallon per minute) within 48 hours.

## **Reuse of Effluent**

Black Rock Station Water System does not have a water reuse program at this time due to individual septic systems.

## **Drought Contingency Plan**

Nevada is an arid state and Hualapai Flat 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 our plan is to manage the available resources to ensure continued supply of potable water during periods of drought. We monitor water levels at our Well Site and record the information. We work with other local water purveyors to ensure adequate supplies are available. When the Black Rock Station water system has found that a water scarcity condition exists or is likely to exist and has proclaimed the existence of a drought or emergency condition.

## **Drought or Emergency**

Circumstances under which moderate or strict conservation may be required.

- Water scarcity conditions exist or are likely to exist.
- Failure of water production storage or distribution system.
- Order of an agency of the federal, state or local government having Jurisdiction in such matters.
- Any other condition that may require such action.

## **Moderate Conservation**

- Limit irrigation to a more restrictive schedule such as no watering on Mondays or watering only twice a week.
- Prohibit wash down of vehicles where compressed air will suffice.

## **Strict Conservation**

- All items under moderate conservation.
- The purchase of bottled drinking water for residents and staff.
- No residence laundry use, reduced to subsistence all park irrigation.
- No washing of automobiles, trucks, vans, or any motorized equipment.

### **Implementation Schedule**

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

### **Plan Effectiveness Metrics**

Does not apply due to this being a Transient/Non-community water system.

### **Variable Pricing Analysis**

Does not apply due to this being a Transient/Non-community water system.

### **Water Savings in Gallons/Person/Day**

Does not apply due to this being a Transient/Non-community water system.

### **Rate Structure Impact on Water Conservation**

Does not apply due to this being a Transient/Non-community water system.

### **Incentives to Encourage Water Conservation**

Black Rock Station is a transient, non-community water system and these incentive programs are not applicable.

### **Incentives to Retrofit Plumbing Fixtures**

Black Rock Station is committed to conservation in all forms. It has a standing policy to replace all water use fixtures with low flow units

### **Incentives for Water Conserving Landscaping**

Black Rock Station is a transient, non-community water system and these incentive programs are not applicable.

