



Department of Energy
Office of Civilian Radioactive Waste Management
Office of Repository Development
1551 Hillshire Drive
Las Vegas, NV 89134-6321

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Mr. H. A. Asgarian
Bureau of Health Protection Services
Health Division
State of Nevada
620 Belrose Street, Suite 101
Las Vegas, NV 89107

Subject: Yucca Mountain Project (YMP) Public Water System Permit
Number NY-0867-12NCNT Annual Update

Dear Mr. Asgarian:

The annual update of the YMP public water system for 2003 is enclosed. This annual report identifies issues and occurrences relating to the potable water system from January 1 through December 31, 2003.

If you have any questions or require additional information, please contact either me at (702) 794-5459 or Thomas H. Pysto of Bechtel SAIC Company, LLC at (702) 295-5082.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott A. Wade".

Scott A. Wade, Division Director
Environment, Safety, and Health Division
Office of Facility Operations

OFO:MJC-0551

Enclosure:
As stated

Mr. H. A. Asgarian

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JAN 30 2004

bcc w/encl:

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**YUCCA MOUNTAIN PROJECT (YMP)
PUBLIC WATER SYSTEM PERMIT NY-0867-12NCNT
2003 ANNUAL UPDATE**

The following is an annual summary of activities and issues pertaining to the YMP public water system and the Nevada Health Division, Bureau of Health Protection Services (BHPS), during 2003.

REPORTS AND DOCUMENTATION

- | | |
|-----------|---|
| January | Submitted annual update identifying issues and occurrences related to the public water system from January 1 through December 31, 2002. |
| February | (1) Submitted letter on additional coliform sampling results per BHPS request. (2) Received letter from BHPS approving addition of one water pump to YMP's public water system. |
| March | (1) Submitted letter to put on hold any further consideration of YMP's previous correspondence on a proposed system for treating source water in the 1,000,000-gallon water tank. (2) Submitted completed "Disinfection Practices Questionnaire" from BHPS. |
| April | Annual sanitary survey of YMP's public water system performed by BHPS personnel Jim Larson and Andy Asgarian. |
| May | Received sanitary survey inspection comments from BHPS. |
| June | (1) Submitted annual fluoride and nitrate sampling results. (2) Submitted letter regarding sanitary survey inspection. |
| August | Received letter confirming receipt of coliform sample for the first quarter of 2001. This letter formally rejects the incorrect monitoring violation that was attributed to the YMP for that quarter. |
| September | Submitted annual permit fee for public water system. |
| October | Received "Small Business Impact Questionnaire" from BHPS. Jim Larson indicated this is not applicable to the YMP, so no action is required. |
| November | Received BHPS letter on "Required Monitoring for Disinfection Byproducts." |

December (1) Submitted triennial sampling results. (2) Submitted letter with completed "Disinfection Byproducts Sample Plan Questionnaire," "Multiple Wells Questionnaire," and "Disinfection Byproducts Sample Plan." (3) Submitted annual backflow prevention device inspection reports.

SAMPLING AND REPORTING

Daily Performed chlorine residual, pH, and temperature sampling and recording.

Quarterly Performed required coliform sampling and reporting. To assure and monitor the safety and quality of the water in our public water system, several non-compliance coliform samples (i.e., for YMP information only) were taken from various locations at the Exploratory Studies Facility north portal pad in 2003. Non-compliance coliform samples were also taken at the Booster Pump Station tanks prior to chlorination of water at Exile Hill.

MISCELLANEOUS

Continuous Throughout the year, numerous phone conversations took place between YMP and BHPS representatives to ask questions and provide clarification regarding the correspondence sent back and forth (see Reports and Documentation section above).

Bi-monthly Attended DOE/NV water meetings with Bechtel Nevada to track issues and summarize public water system activities on the Nevada Test Site.

As required Performed pressure relief valve checks and backflow prevention device inspections.

Table 1 Table 1 (attached) provides the amount of water pumped from water wells J-12 and J-13 during 2003. Beginning with the 2001 annual update, the BHPS requested inclusion of this information in annual updates.

**TABLE 1
AMOUNT OF WATER PUMPED FROM WELL J-13 DURING 2003**

MONTH	J-13*
January	253,900 gallons
February	0 gallons
March	0 gallons
April	134,000 gallons
May	0 gallons
June	0 gallons
July	332,000 gallons
August	529,000 gallons
September	0 gallons
October	104,200 gallons
November	203,800 gallons
December	0 gallons
TOTAL	1,556,900 gallons

* J-12 water withdrawal included in J-13 amount

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