



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. J. H. Larson, Public Health Engineer
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. Larson:

The annual update of the YMP public water system for 2004 is enclosed. This annual report identifies issues and occurrences relating to the potable water system from January 1 through December 31, 2004.

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

Sincerely,

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

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

Enclosure:
2004 Annual Update

Mr. J. H. Larson

-2-

FEB 01 2005

bcc w/encl:

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**YUCCA MOUNTAIN PROJECT (YMP)
PUBLIC WATER SYSTEM PERMIT NY-0867-12NCNT
2004 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 2004.

REPORTS AND DOCUMENTATION

- January Submitted annual update identifying issues and occurrences related to the public water system from January 1 through December 31, 2003.
- March Received letter from BHPS regarding new 2004 requirement for disinfectant/disinfection byproduct monitoring.
- May Received letter from BHPS regarding Source Water Assessment Program (SWAP) information summary.
- June Submitted SWAP information summary data.
- July Submitted reduced triennial lead and copper sampling results.
- September (1) Submitted letter regarding July 2004 incident report (i.e., loss of potable water pressure and potable water tank discovered empty). (2) Submitted letter regarding August 2004 incident report (i.e., routine daily chlorine measurements indicated 2.0 parts per million of chlorine at the Switchgear Building). (3) Submitted annual permit fee for public water system and received renewed permit.
- October (1) Submitted Total Trihalomethane and Haloacetic Acid Yearly Monitoring Report. (2) Received letter from BHPS regarding proposed temporary revisions to the Nevada Administrative Code relative to public water systems (i.e., water quality and treatment of water, and certification of operators).
- November (1) Submitted annual fluoride and nitrate sampling results. (2) Posted updated annual notice at the site regarding elevated fluoride concentrations. (3) Annual sanitary survey of public water system performed by BHPS.
- December Submitted annual backflow prevention device inspection reports.

SAMPLING AND REPORTING

- Daily Performed chlorine residual, pH, and temperature sampling and recording.
- Quarterly Performed coliform sampling and reporting. Performed disinfectant residual data sampling and reporting.
- Periodic Five non-compliance (i.e., not State-reportable) coliform samples were taken at the Booster Pump Station tanks in 2004, 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).
- 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 2004. 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 2004**

MONTH	J-13*
January	133,200 gallons
February	0 gallons
March	0 gallons
April	736,300 gallons
May	427,700 gallons
June	0 gallons
July	86,800 gallons
August	0 gallons
September	104,000 gallons
October	43,600 gallons
November	98,000 gallons
December	0 gallons
TOTAL	1,629,600 gallons (5.0 acre feet)

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