DOE/Navajo/Hopi Quarterly Meeting Tuba City Site

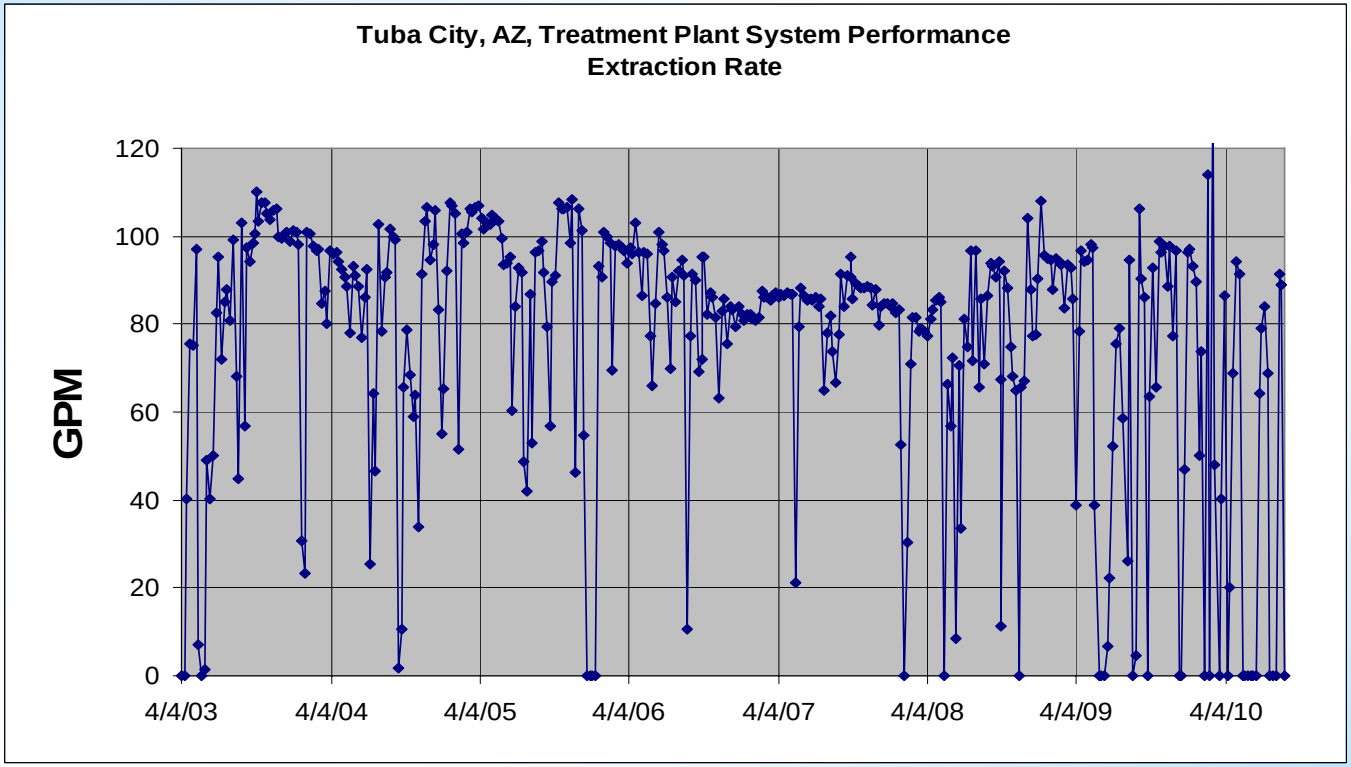
Tuba City, Arizona

September 13, 2010

U.S. DEPARTMENT OF ENERGY | Legacy Management

Remedial Action Performance Status

- 346 million gallons extracted
- 307 million gallons infiltrated

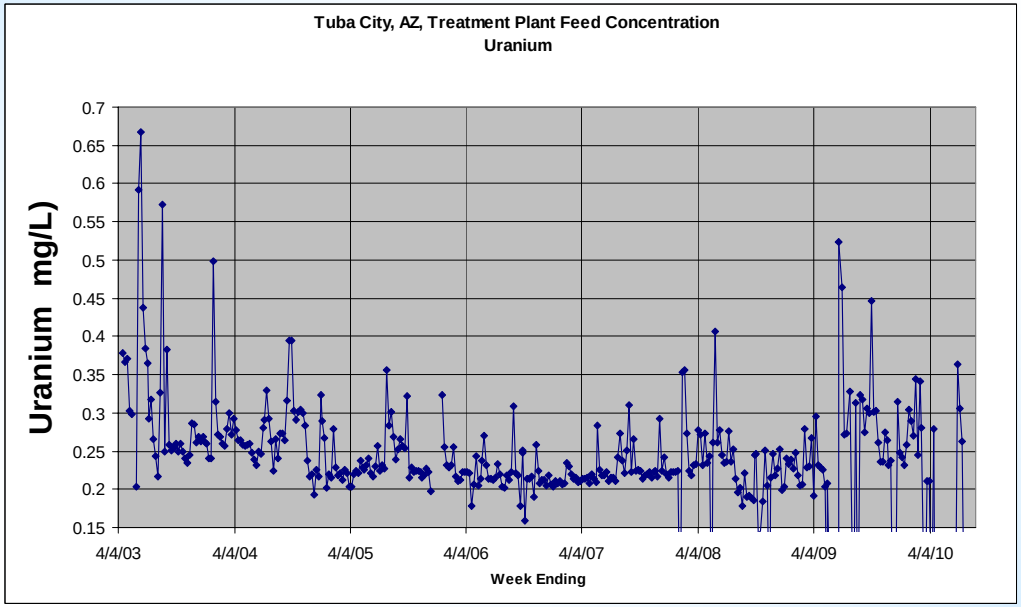


Data as of August 26, 2010

U.S. DEPARTMENT OF ENERGY | Legacy Management

Remedial Action Performance Status

- Mass extracted
  - 727 pounds of uranium
  - 1,145,000 pounds of nitrate
  - 2,891,000 pounds of sulfate



Data as of July 15, 2010

2010 Activities

- Started up solar photovoltaic (PV) system
- Continuing extraction/treatment/injection
- Operating reverse osmosis pilot plant
- Issued annual performance assessment report
- Conducted annual maintenance shutdown
  - Inspected equipment and performed routine maintenance
  - Replaced drain line to evaporation pond
  - Replaced heater elements in boiler
  - Replaced water softener resin

Operations and Maintenance Overview

- Site manager: Jason Kaufman
- Three operators: Joe Slim, Herman Nez, Deborah Martinez
- Extraction system
  - Operates 24 hours a day, 7 days a week
  - Currently producing about 90 gallons per minute
- Treatment system
  - Operates 24 hours a day, 7 days a week
  - Staffed 8 hours a day, 7 days a week
  - Capable of treating at least 110 gallons per minute
- Operational issues
  - Solar photovoltaic system was completed in March 2010
  - Solar hot-water heating system continues to operate as designed
  - Reverse osmosis pilot plant is treating about 0.3 gallons per minute

Tuba City Solar PV System

- 51 kW system
- Produced about 9 percent of site's needs since startup
- Connected to utility grid
- Provided power to grid when plant was down