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## Groundwater

February 2013

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### Introduction

Groundwater has always been the source of Republic's municipal water supply system. In June 1982, the department collected water samples for volatile organic compound, or VOC, analysis from Republic's three municipal wells as part of EPA's National Synthetic Organic Chemistry Survey. Trichloroethylene, or TCE, was found in Republic's Municipal Well #1. Well #1 is the only Republic municipal well contaminated with VOCs. Due to contamination, Republic discontinued using Well #1 in 1983. Republic's Municipal Well #2 was closed in fall of 1997 due to other issues not related to VOCs. Currently, Republic uses Wells #3, #4 and #5 as their primary water source for the municipal water supply system. In July 2007, Well #6 went online in the consolidated area of Republic-Brookline.

Municipal Well #1 is located about 500 feet south of the Solid State Circuits site. This site was identified as the source of contamination in this well. On Aug. 26, 1983, the department notified the property owner their site was proposed for the *Registry*<sup>(1)</sup>. An agreement was reached placing this site on the *Registry* on Feb. 22, 1985. The EPA proposed the site for listing on the National Priorities List, or NPL, on Oct. 15, 1984 and placed the site on the NPL on June 10, 1986.

In December 1992, the department approved and EPA concurred with the 100 percent remedial design document package<sup>(2)</sup> for the groundwater cleanup alternative. The approval formally initiated the long-term operation and maintenance, or O&M, phase of the Remedial Action<sup>(3)</sup>. O&M activities include chemical quality and hydraulic performance monitoring programs. Part of O&M activities include continued collection of water samples from Republic's Municipal Wells #3, #4, #5 and #6 and the distribution system. Joint annual site inspections and groundwater sampling events for the site have occurred and will continue between the responsible party and department personnel.

- In September 1996, the department completed and the EPA concurred with the *First Five-Year Review Report for the Solid State Circuits, Republic, Greene County, Missouri*.
- On Sept. 11, 2002, the department completed and the EPA concurred with the *Second Five-Year Review Report for the Solid State Circuits, Republic, Greene County, Missouri*.
- On June 30, 2003, the department with EPA concurrence approved continued use of the horizontal well.
- On Sept. 27, 2004, the EPA approved and signed an explanation of significant difference making the use of the horizontal well part of the final remedy.
- On Sept. 24, 2007, the EPA completed and the department concurred with the *Third Five-Year Review Report, Solid State Circuits, Republic, Greene County, Missouri*.

- On Sept. 21, 2012, the department completed and the EPA concurred with the *Fourth Five-Year Review Report for the Solid State Circuits, Republic, Greene County, Missouri*.
- (1) The *Registry* protects property buyers from unknowingly purchasing contaminated property. Sites listed on the Registry appear on a publicly available list, and a notice filed with the Recorder of Deeds documents hazardous waste contamination at the site. Notice regarding contamination must be provided by the seller to potential buyers. The use of a property listed on the Registry may not change substantially without review and written approval by the department. Department review ensures protection of human health and the environment by preventing activities that would spread contamination, increase human exposure, increase adverse environmental impacts or make future remediation more difficult. The department makes every effort to provide the most complete Registry possible; however, many eligible sites are not yet listed due to pending or ongoing investigations, cleanup negotiations or appeals. Also, unreported facilities or contaminated sites that the department is not aware of may exist.
  - (2) Remedial Design is a phase of the remedial action that follows the remedial investigation/feasibility study and includes the development of engineering drawings and specifications for a site's cleanup.
  - (3) Remedial Action is the actual construction or implementation phase of a Superfund cleanup that follows the remedial design.

**Additional Information**

The site administrative record is available during normal library hours:

Springfield/Green County Library  
Republic Branch Library  
1264 U.S. Highway 60 E  
Republic, MO

**Questions or requests for information can be submitted to:**

[Candice McGhee](#)

Project Manager

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[www.dnr.mo.gov/env/hwp](http://www.dnr.mo.gov/env/hwp) program home page