



Courtney Ridge Recycling and Disposal Facility Information Sheet

April 2014

History

Courtney Ridge Recycling and Disposal Facility located in Sugar Creek in Jackson County was permitted in 1995 under permit number 0109521. The facility is owned by Republic Services, Inc. (Republic). The landfill disposal area is approximately 134 acres in size. Landfill gas was originally detected on the landfill property line in 2002. A notice of violation (NOV) was issued on Nov. 28, 2007, due to the detection of gas above regulatory limits. The facility has been working with the department to reduce methane concentrations by modifying the gas extraction system (approved on March 16, 2004 and June 15, 2004), proposing a remediation plan (approved April 26, 2006) and installing temporary gas probes to determine the extent of methane gas migration (approved Nov. 14, 2007).

Methane Migration and Monitoring Wells

In response to ongoing methane migration, the department issued Courtney Ridge Recycling and Disposal Facility a NOV on Dec. 7, 2010. Gas monitoring wells GP- 05, GP-07, GP-09, GP-22 and GP-3R had methane concentrations above the regulatory limit of 2.5% by volume during the period of time of Nov. 4, 2009 to Nov. 3, 2010. Republic responded to the gas migration by placing temporary gas probes along the landfill boundary to research possible migration pathways in the area and determine the rate and extent of gas migration. Republic also conducted an evaluation of their gas collection system, which identified seven existing extraction wells that were compromised. In accordance with the department's notification requirement, Republic notified the local fire department and sent notification letters to both the fire department and property owners who were within 1,000 feet of any well with elevated methane concentrations. Republic also conducted methane monitoring inside structures and provided methane detectors to those who desired these safety precautions.

Summary of Corrective Actions at Site

Republic replaced the seven compromised extraction wells discovered during the evaluation of their gas extraction system (GW-02, GW-08, GW-10, GW-11, GW-12, GW-13 and GW-56) in February of 2011. In August 2011, Republic submitted documentation of a topographic cutoff that prevented the migration of gas laterally off-site on the west side of the landfill. This information was confirmed by the Missouri Geologic Survey. Subsequently, Republic submitted a corrective action plan which was approved by the department on Feb. 14, 2012. It expanded the perimeter methane gas collection system

along the waste boundary of the landfill and connected leachate cleanout lines to the gas extraction system. This expansion of the collection system became operational on June 27, 2012 and the final non-compliant well, GP-09, became compliant in September of 2012. Since that time, all gas monitoring wells have remained below the regulatory limit of 2.5% by volume methane and the department allowed Republic to revert back to quarterly methane monitoring. Republic submitted a follow-up landfill gas corrective action summary report in December 2012 that described measures taken and the resolution of the migration, which was reviewed and approved by the department.

As of Sept. 2, 2013, methane gas concentrations in compliance wells had been below the regulatory limits for over a year and gas concentrations have been within the regulatory limits since that time. Based upon the Republic's corrective actions, the landfill's return to compliance and Republic having met all the terms of the July 30, 2012 settlement agreement, the department closed the enforcement case on Jan. 29, 2014.

For More Information

Department of Natural Resources
Solid Waste Management Program
573-751-5401 or 800-361-4827

www.dnr.mo.gov/env/swmp/methane.htm