



# Action Summary

## Arbor Hills Landfill, Northville Michigan

### Background

- Since 1970, the Arbor Hills Landfill has been operating as a municipal, Type II solid waste landfill in Salem Township, Washtenaw County. It presently consists of East (closed) and West (operating) portions. The landfill property is 337-acres in size. The area of waste disposal is 242 acres.
- The landfill is under the general ownership and operation of Advance Disposal Services, Inc. (ADI). ADI also operates a yard waste composting area directly north of the landfill across Six Mile Road.
- ADI controls the landfill and waste acceptance at the site, and on February 2, 2017, took ownership of the landfill gas collection and control system (GCCS) from BFI Waste Systems of North America, LLC (BFI). BFI was responsible for the GCCS and for maintenance of the closed east part of the Arbor Hills Landfill prior to February 2, 2017.
- After collection, landfill gas is processed into energy through a turbine plant operated by Fortistar Methane Group (Fortistar), and/or sent to flares to burn off the gas. The plant and flares control emissions and eliminate the odor.
- The landfill currently operates under Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended MCL 324.11501 et seq. (NREPA), license # 9371, issued on March 13, 2014, which expires on March 13, 2019. The current construction permit # 4108 was issued on December 11, 2009, and provided for construction of the cells at the north end of the landfill.
- As required by the federal Clean Air Act, New Source Performance Standard, 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW for Municipal Solid Waste Landfills, the Michigan Department of Environmental Quality (MDEQ), Air Quality Division (AQD), issued a Title V Renewable Operating Permit (ROP) to Arbor Hills Landfill on January 24, 2011. The ROP contains three sections, one for each of the responsible companies indicated above. The substantive requirements of Subpart WWW pertain to landfill gas collection and control.

### Construction Update

- June 2017 to September 2017 Phase 1: As of mid-July, twenty wells have been re-drilled or newly installed and upgrades to approximately 5,000 feet of lateral and header piping had been completed to improve gas collection efficiency. A new 24-inch gas header pipe is being installed along the landfill's north side, extending from the eastern limit of Cell 4C, heading west to the utility flare where it will be temporarily tied into the 18-inch header that extends along the west to the south and ultimately to the gas plant.
- September 2017 to January 2018, Phase 2: Work will continue to upgrade the gas collection piping system. This will increase the gas system efficiency for transmitting the gas from the north and west parts of the landfill to the gas plant and flares. The 24-inch header will be constructed to extend the full length of the west side and partially along the south side of the landfill. This header will be temporarily capped on the south side of the landfill and north of the railway, until it can be connected to a 36-inch header. The 36-inch header will be constructed under the CSX Transportation-owned railway in the next phase, pending CSX approval. Advanced Disposal is coordinating with CSX to acquire the necessary approval. This work needs to be approved and monitored by CSX to ensure the structural integrity of the rail road is maintained.

- **August 2017 – November 2017:** South Slope Final Cover. The facility will construct 20 acres of final cover on the southern portion of the landfill. This will help to contain and control gas on the south side of the landfill.
- **October 2017 – November 2017:** North Slope Synthetic Cap. Approximately 7 acres of additional synthetic temporary cap will be installed on the north slope to help contain and control gas in that area.
- **First Quarter 2018:** Advanced Disposal plans to install a 5,000 standard cubic feet per minute (scfm) landfill gas flare that will be part of the existing gas collection and control system. The 5,000 scfm flare will be installed to better handle the gas control and odor destruction when the turbine gas plant is down.

## Community Information

- In mid-June 2017, Arbor Hills submitted a construction permit application to the MDEQ. This permit application is for a proposed minor permit modification to the west portion of Cell 6. The modification includes changing the west portion of Cell 6 to flow into Cell 4, with the changed area to be referred to as Cell 4E. The proposed modification will minimize waste removed from Arbor Hills East to approximately 40,000 cubic yards (cy) from 500,000 cy, a 92 percent reduction. The modification will reduce the potential for offsite odors during the construction of that area. This permit is currently under review by the MDEQ.
- An approximately 14-acre portion of Cell 6 will be excavated and deposited in the active portion of the landfill from October 2017 to November 2017. The excavation will take approximately 11 days, but Advanced Disposal has allotted additional time to actively excavate during favorable wind and weather conditions that would minimize the possibility of offsite odor migration. The Cell 6 excavation and north slope temporary synthetic cap will be constructed simultaneously.
- Arbor Hills operates an air filtration and odor neutralizing system around the perimeter of the active area of the landfill. Manufactured by GOC Technologies, the system utilizes a reservoir containing QuickAir V on a trailer-mounted generator to create counter-odor vapor. The generator forces the QuickAir V material through a filtration system that is circulated through a piping system elevated at key areas of the landfill where odor control is desired. The vapor is designed to pull odor causing molecules out of the air.

## Where can I find more information or get help?

The MDEQ has developed a website specifically to keep the community updated on the issues involving Arbor Hills Landfill. The website is [www.michigan.gov/deqarborhills](http://www.michigan.gov/deqarborhills). You are also encouraged to register to be part of our e-mail listserv. This is another way the MDEQ hopes to provide up to date information to interested parties. You can sign up at the public meeting or go to our website, [www.michigan.gov/deq](http://www.michigan.gov/deq), click on the red envelope at the bottom of the page and then choose "Arbor Hills".

For complaints or other concerns you may contact Arbor Hills Directly using their community hotline  
Community Hotline: 248-305-8432 or go to their website and fill out an online complaint form. The MDEQ is automatically sent all complaints received by the Arbor Hills website. You may also contact MDEQ Directly by calling our MDEQ Environmental Assistance Center at 800-662-9278 or by filling out our MDEQ Online Odor Complaint Form located on [www.michigan.gov/arborhills](http://www.michigan.gov/arborhills) website.

