

BRISTOL, VIRGINIA INTEGRATED SOLID WASTE MANAGEMENT FACILITY**SOLID WASTE PERMIT #588****PLAN OF ACTION MEETING – JUNE 7, 2022**

Action Items:

- Test and construct a sidewall odor mitigation system around the Landfill perimeter that will be designed and constructed to mitigate landfill gases emanating from the Landfill/quarry sidewalls.
- Sources and supply of clay/soil should be addressed immediately
- Improve the performance of existing gas extraction wells including minimizing air intrusion pathways through Landfill cover.
- Address any air intrusion caused by well over-drawing from the landfill
- Weekly monitoring activities of gas emissions at the Landfill surface
- Identify and eliminate to the extent practical any landfill gas fugitive emissions at the Landfill surface.
- Install settlement plates
- Conduct monthly topographic surveys to document the locations and rates of settlement in the waste mass.
- Strongly consider a cessation of waste disposal operations at the Landfill
- Install and monitor a dedicated system of thermocouples in the waste mass to monitor Landfill temperatures (above and within the water-saturated waste) for greater spatial resolution (horizontal and vertical) and to provide data at a greater frequency.
- Install additional gas extraction wells to reduce emissions and temperatures.
- Install at least five (5) deep dedicated monitoring wells to enable sampling and characterization of leachate and measurement of temperature profiles in the waste. Should include multi-screens at several depths.
- Install and operate large-diameter dual-phase extraction wells for removal of gas and leachate.
- Install a temporary geosynthetic cover over the entire Landfill.



- Direct runoff to the southeast corner of the Landfill where it is expected a stormwater management pond can be constructed to manage stormwater that is collected on top of the geomembrane cover
- Develop and implement an effective and sustainable stormwater management plan and settlement management plan for the Landfill.
- Design permanent and sustainable systems to control stormwater and remove it from the quarry for decades into the future.
- Perform frequent testing of clean stormwater being discharged offsite to ensure no contamination has occurred.
- The Panel recommended an active community outreach program to communicate strategies, provide status and progress reports, and receive citizen feedback.
- Define success and document the efficacy of remedial measures via monitoring and data collection
- Develop a long-term plan to monitor landfill conditions, repair and replace equipment, construct a Landfill cap, and maintain the gas and leachate collection systems.