



Shell Chemical Appalachia LLC
300 Frankfort Rd
Monaca, PA 15061

March 29, 2022

Mark Gorog P.E., Regional Manager Air Quality
Program Pennsylvania Department of Environmental
Protection Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

RE: PA-04-00740C Sulfuric Acid Spill, March 19, 2022

Dear Mr. Gorog,

Shell Chemical Appalachia LLC (“Shell”) is submitting this malfunction report to the Pennsylvania Department of Environmental Protection (PADEP).

- **Name and location of the facility**

Shell Polymers Monaca
300 Frankfort Road, Monaca PA, 15061

- **Nature and cause of the incident**

On March 19, 2022, Shell received delivery of sulfuric acid for filling the sulfuric acid tank (PADEP Tank ID#054A) located within the wastewater treatment plant. The tank’s secondary containment prevented all liquids from leaving the site. Though the Reportable Quantity was not exceeded; out of an abundance of caution, Shell notified the Pennsylvania Department of Environmental Protection, the National Response Center, and the Local Emergency Planning Committee. There was no harm to personnel, the community, or the environment because of this event.

The sulfuric acid has been vacuumed out of the secondary containment as of March 23, 2022, and transported to the appropriate disposal facility. The liquid release was calculated at 2,195 gallons based on liquid level indicator readings during the period. Evaporative losses of H₂SO₄ to air have been estimated from the leak into secondary containment until cleanup of sulfuric acid was completed.

An investigation is underway, and the results will be reported upon conclusion of the investigation.

- **Time when the incident was first observed, and duration of excess emissions**

March 19, 2022 (leak from tank occurred into the tank’s engineered secondary containment) through March 23, 2022 (completed secondary containment clean up)

- **Estimated rate of excess emissions**

H₂SO₄ emissions to air from the spill was conservatively calculated at 358 lbs.

If you have any questions regarding this matter, please contact me at (724) 709-2467 or kimberly.kaal@shell.com.

Sincerely,

Kimberly Kaal

Kimberly Kaal
Environmental Manager, Attorney-in-Fact

CC:

Scott Beudway, Air Quality Specialist
Anna Fabrizi, District Supervisor