

National Petroleum Distributor
Baltimore, MD



Craig Childres
Director of Field Services
Mid-Atlantic Region
CChildres@triumvirate.com

Case Study:

100-Foot Tank Cleaning



Highlights:

- Vacuum Truck Services
- Emergency Response Services
- Line Cleaning
- Water Blasting
- Waste Management
- Waste Oil Recycling

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Situation

A national provider of midstream natural gas and natural gas liquids (NGLs) intended to change the contents of a 100'D above-ground storage tank with internal heating coils, located at a Mid-Atlantic terminal, from asphalt service to #6 oil. The tank had previously been pumped down, and the remaining material was a solid asphalt residue. This company reached out to Triumvirate Environmental to complete the tank cleaning necessary for the product conversion.



Action

A five-man Triumvirate crew consisting of a site Supervisor,

equipment operator and three field technicians was mobilized to the site, arriving with the necessary personal protective equipment (PPE), including Tyvek suits with hoods, full-face APR's with HEPA cartridges and gloves, hard & ADS flex hose, a generator, explosion proof lights, a 185 cfm air compressor, manway mounted tank fan and air monitoring equipment (4-gas meter), and a Triumvirate-owned-and-operated Cusco vacuum truck. Triumvirate completed a Site- Specific Health & Safety Plan, conducted all necessary air monitoring, and secured a Confined Space Entry permit in order to complete the work. The crew entered the tank and broke up, swept, and shoveled the material to the vacuum truck hose, which was manned by the third entrant. All loose asphalt chunks and scale were removed from both the outer ring and other areas of accumulation on the floor. The material removed was collected into the vacuum truck and transported off-site, to be processed at Triumvirate's Baltimore facility and then sent off for final disposal.



Result

Within a two-day time span, the Triumvirate team vacuumed, removed and disposed of all asphalt chunks, scale and rust from the interior of the tank. Strict adherence to safety and compliance were maintained throughout the entirety of the project; tool box safety meetings were conducted daily, STOP audits were completed, and continuous venting and air monitoring were performed. The client was left with a clean tank that was ready to be placed into #6 oil service.

