



Green Tier Application – Attachment 2

Environmental Performance:

In 2012, Muskie Proppant LLC (Muskie) constructed a fully enclosed wet and dry sand processing plant to supply sand to the oil and gas industry. The plant includes one sand dryer, screens, three storage bins and a truck loadout area for the finished product. The facility was constructed with the goal of innovation and environmental compliance in mind. This included installation of state-of-the-art dust collection systems. The dust collection systems ensure compliance with stack emission limitations in the air pollution control construction permit for the facility. Fugitive dust is minimized at the facility using a variety of controls including water cannons strategically positioned near sand stockpiles and a halo mister attachment on the end of the stacker conveyor. A dedicated watering truck is used at the facility for watering stockpiles, roads and unpaved areas on the property. A skid steer with wet sweeper attachment is operated daily to remove tracked sand from paved surfaces. Dust collection systems on the truck loadout spouts provide additional control of fugitive dust. Key site personnel are trained to conduct and document daily visible emissions observations and a full time Environmental Health and Safety Manager oversees all of Muskie's environmental and safety programs.

Another goal identified during construction of the facility was recycling and reuse of wash water through a closed loop system that resulted in no process water discharges. To accomplish this, a clarifier was installed in the facility to maximize sediment removal and allow clear water to be reused in the wash process. In addition, a belt press was installed to extract and recycle the maximum amount of process water from the washed sand, which also reduced the natural gas usage in the drying process. As part of the construction, a 100-year wet storm water detention pond designed to achieve 80% annual reduction of total suspended solids was installed. The wet storm water detention pond receives storm water from a vegetated perimeter drainage swale as well as several culverts that collect storm water from areas around the onsite building. The storm water collection system minimizes storm water discharges from the site while maximizing storm water infiltration and evaporation.

Environmental Performance Commitments of Muskie Proppant LLC:

- Monitor environmental performance and regulations to allow for exceeding environmental requirements
- Achieve zero discharges of process water to the storm water collection system
- Recycle and reuse 95% of process wash waters used in the processing of industrial sand
- Identify operational efficiencies that reduce natural gas consumption at the facility
- Establish recycling program to achieve 95% recycling of waste materials at the facility