

September 8, 2025

Mr. Mark Heintz  
Munster Town Hall  
1005 Ridge Road  
Munster, Indiana 46231

RE: Town of Munster Landfill Leachate Cell Riser Pump, Transducer & Piping Replacements  
Lake County, Munster, Indiana

Dear Mr. Heintz:

The Indiana Department of Environmental Management (IDEM) requires that the landfills base liner system maintain a leachate level of one foot or less in post-closure conditions. The site design for the Munster Landfill is designed to have landfill leachate drain to five (5) different leachate collection sumps. The southern three (3) leachate collection sumps pump to a common underground storage tank located at the southwestern corner of the landfill along Calumet Avenue. The northern two (2) leachate collection sumps pump to a common underground storage tank located at the northwestern corner of the landfill along Calumet Avenue. Each leachate collection sump has a primary collection submersible pump and pressure transducer that provide a digital display of liquid level and provide for automatic operation of the pump to remove the collected leachate on the base liner system.

The previous work to date included the replacement of each leachate sump control panel on August 10, 2025. After installing and testing the existing pressure transducers and pumps that were in each of the five (5) - 18 inch collection risers, none of the pressure transducers or pumps functioned as designed. A site meeting was held at the landfill on August 17, 2025 to review status of the newly installed control panels and the status of the pressure transducers and pumps. At the conclusion of the meeting, it was decided to replace all of the pressure transducers and pumps in the 18 inch collection risers so that the entire leachate extraction system is new.

This proposal is to replace each of the leachate pressure transducers and pumps that are necessary and required so that all five (5) of the leachate collection sumps can function once again as designed and remove leachate from the landfill through the new lift stations to maintain compliance with IDEM regulations. An assessment has been completed on each of the existing break out boxes and seal off fittings that run from the new control panels to the existing 18-inch collection risers that house the pumps and transducer cables. All of the existing break out boxes and seal off fittings are rusted, corroded, and are no longer sealed off. This proposal will also replace each break out box with new seal off fittings and new conduit and wire for pumps and pressure transducer cable from the control panels to the 18-inch collection risers. A spare pressure transducer and pump will be purchased as part of this proposal and stored with the additional used pumps that were located in the Centennial Park maintenance building that were in storage.

The field assessment also concluded that two of the five 18-inch collection risers need to be extended due to the final cover that was installed during closure of the landfill essentially burying

the riser pipe up to the bolted flange. This proposal will also include extending these two 18-inch collection risers and pit less pipe connections to the pumps discharge line so that the final cover soils and vegetative cover are not disturbed.

Finally, during the site meeting, an inspection was conducted on both of the north and south lift station fiberglass manhole extensions and cover lids. Both of these fiberglass manhole extensions and lids are extremely deteriorated and are not locked preventing public access. This proposal also includes the necessary modifications to the existing fiberglass manhole extensions and cover lids to facilitate the installation of newly constructed containment sleeves with 304 stainless steel lids measuring approximately 49-inches in diameter and will feature a hinged access door that can be locked.

If you have any questions regarding this information, please contact me at (317) 595-6492.

Sincerely,



Derek Mauntel  
Project Director

cc: Mr. James Marino, Town of Munster (Email w/Enclosure)  
Mr. Kevin Dark, Town of Munster (Email w/Enclosure)  
Ms. Wendy Mis, Town of Munster (Email w/Enclosure)