



City of Marinette Water and Wastewater Utility

501 Water Street Marinette WI 54143 715-732-5180

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Wastewater Specialist
NER Land Application & Septage Coordinator

The City of Marinette Wastewater Utility submits the following regarding the method of disposal of biosolids containing PFOA and PFOS. The following scope of work was developed in collaboration with TYCO and their consultant ARCADIS.:

The City of Marinette Wastewater Utility has a contract with Full Service Organics Management LLC (FSO) to be the general contractor for the oversight of the dewatering process, filtrate treatment process, and transport of the biosolids filter cake to the disposal facility.

The City of Marinette Wastewater Utility has determined the method of treatment and disposal will include removal of liquid biosolids from the holding tank to a mobile dewatering system consisting of a mixing tank, polymer delivery system, belt filter press, and appurtenant equipment to facilitate conveyance of dewatered filter cake to trucks hauling roll-off containers and conveyance of filtrate to the filtrate treatment system. The previously mentioned equipment is to be provided and operated by FSO.

The filtrate treatment system supplied and operated by Clean Harbors Remediation Technologies will consist of frac tanks to equalize filtrate flow (additional storage capacity will be provided, if needed, via existing subgrade tanks that are no longer in use, as well as a subsurface wet well that could be employed for additional storage if needed), a settling tank, multimedia filtration, bag filters to remove suspended solids, and granular activated carbon (GAC) to remove organics and PFAS compounds. Treated filtrate will discharge to the headworks of the Wastewater Treatment Plant.

Filter cake will be transported to an approved subtitle C landfill disposal facility owned and operated by Waste Management and Chemical Management of the Northwest, Inc. located in Arlington, Oregon. Spent GAC may be comingled with the biosolids filter cake in lieu of disposal/regeneration separately. The project is anticipated to be completed in approximately 60 days.

The City of Marinette Wastewater Utility chose the option of disposal, a subtitle C landfill disposal facility owned and operated by Waste Management and Chemical Management of the Northwest, Inc., due to the indemnification of all parties involved in the generation and disposal of the biosolids containing PFOA and PFOS. Also, due to logistical challenges, this option provided the most clear and direct method of transportation and disposal of the biosolids.

Sincerely,

A handwritten signature in black ink that reads "Warren E. Howard". The signature is written in a cursive style with a large, sweeping "W" and "H".

Warren Howard
Marinette Water and Wastewater Operations Manager