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Department of Utilities
Wastewater Treatment Plant
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To: Chairperson Baranowski and Members of the Utilities Committee

From: Director of Utilities Chris Shaw
Deputy Director of Utilities Chris Stempa
Environmental Programs Coordinator Brian Kreski

Date: November 16, 2018

RE: **Authorize the 2018 Request from Outagamie County Recycling and Solid Waste (OCRSW) to Discharge Leachate from the proposed Northwest Landfill Expansion Project and reject discharges from the East and Northeast Landfills.**

BACKGROUND:

On September 4, 2018 the City of Appleton Wastewater Treatment Plant (AWWTP) provided a letter that acknowledged the acceptance of leachate as part of the Outagamie County Recycling and Solid Waste (OCRSW) proposed future Northwest Landfill siting plan. The aforementioned letter acknowledged the landfill siting process and the process by which the AWWTP would facilitate a future discharge permit for leachate from the proposed Northwest Landfill. This process determination was based on anticipated future leachate discharge rates, leachate characteristic data, and took into account current and future projected treatment capacity at the AWWTP.

As noted in the September 4th letter to OCRSW, the projected contributions from the future proposed Northwest Landfill do not appear to impose limitations from a hydraulic or treatment effectiveness standpoint based on current day conditions. However, it should be noted that projected ammonia loading from the Northwest Landfill remains an emphasis of concern based on the AWWTP annual average design loading rate. The projected additional ammonia load from the Northwest Landfill could further elevate total influent loading conditions at the AWWTP which could impact the decisions governing future discharge permit authorization.

OCRSW also requested that AWWTP review the option to accept leachate from OCRSW'S East landfill. The existing East and Northeast leachate quantity and characteristic data was modeled to assess the assimilative treatment capacity in combination with that of the future Northwest Landfill. The projected ammonia load would exceed the plant's design daily

loading capacity and erode treatment allocation for those within the City of Appleton sewer service area.

RECOMMENDATION:

Upon Committee and Council approval, The AWWTP intends to honor the recent written commitment to treat leachate generated from the proposed Northwest Landfill by which future discharge permits will govern.

The AWWTP ammonia treatment capacity is currently limited. Therefore, acceptance of additional ammonia containing leachate from the existing Northeast and/or East landfill through a direct gravity sanitary sewer connection is not recommended.

Included with this memo, is an aerial photo that identifies the current and future location of these landfill cells. If you have any questions or require additional information regarding AWWTP Pretreatment Program please contact Brian Kreski at 920-832-5945.