

**Goose Creek Inn Wastewater Treatment Plant
NPDES Permit # TN0060216, Williamson County
Compliance Evaluation Inspection Photo Summary**



Influent bar screens showing severe corrosion, bar screens breaking apart & ineffective screening of raw wastewater



Severe corrosion of bar screen structure & metal walls breaking apart

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Deteriorated condition of structures, piping & wiring, makeshift repairs & replacement of metal piping with PVC and flexible hoses



Digester & aeration basin, deteriorated/corroded metal structures & makeshift repairs of piping

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Aeration basin, PVC pipe & flexible hose replacing corroded & un-useable aeration lines



Aeration basin walkway corroded through around return sludge line, return sludge line covered with plastic bucket, rock & 2 x 4 on bucket & wedged under hand rails is used to hold bucket in place

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Severely corroded clarifier structure with hole in decking & with metal flaking off of weir trough



Rising solids in clarifier due to clogged sludge return line & inadequate treatment,
surface skimmer broken & ineffective

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Clarifier with solids exiting weir trough



Corroded pipes broken off, emergency overflow weir box severely corroded, piping held up with broom handle & galvanized pipe, wiring deteriorated, extension cords run across basin

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Corroded, broken piping, broom handle support



Corroded filter structure & weir troughs, & chlorine feed lines

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Corroded second filter structure & weir trough



Single blower motor beside plant with flexible hose connection to air lines

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Captor de-chlorination solution tank (left) & chlorine solution tank (right)



Chlorination solution & de-chlorination solution feed pumps, wiring, & feed lines

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Deteriorated wiring conditions

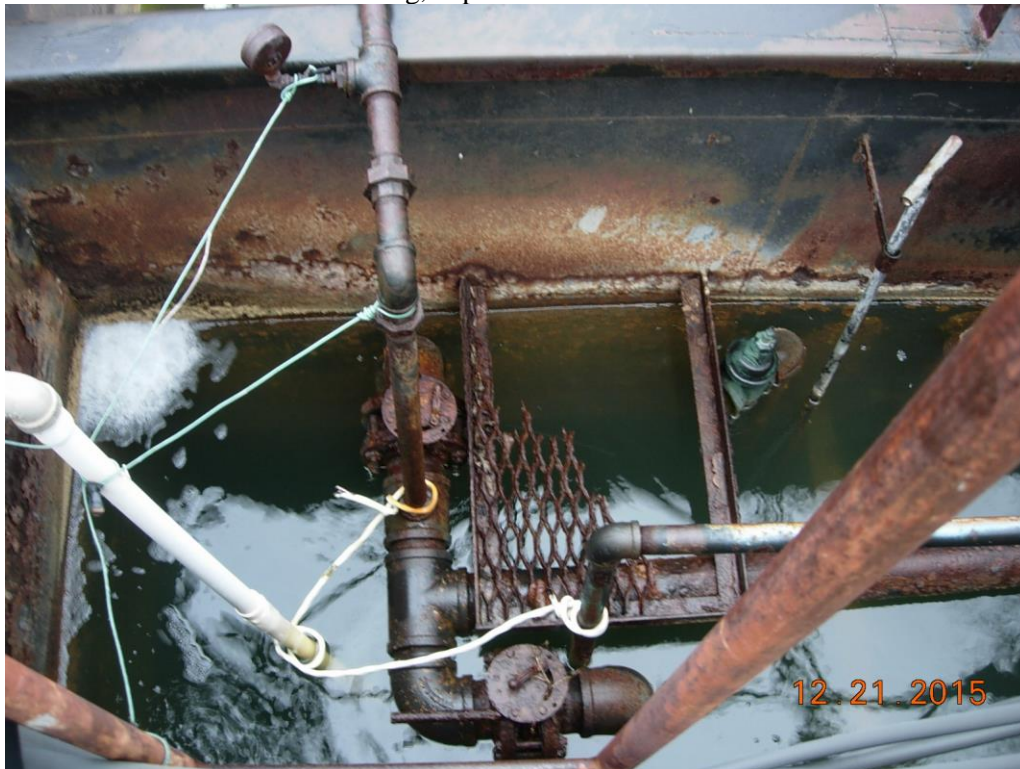


Deteriorated electrical system conditions

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Example of extension cords used for wiring, exposed to wet weather & wastewater from treatment units



Corroded access platform & piping, makeshift piping for aeration in final effluent chamber

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Corroded effluent weir box, Captor de-chlorination feed point, effluent discoloration in weir box



Effluent outfall pipe & discharge, cloudy/opaque effluent discharge, white precipitate & gray deposits in channel leading to receiving stream Fivemile Creek

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Effluent discharge pipe, cloudy/opaque effluent discharge, white & gray precipitate & deposits in channel leading into Fivemile Creek, effluent & deposits change from white to gray then to blackish color as it flows toward the stream

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Gray precipitate & deposits in effluent flow



Gray & blackish precipitate & deposits in effluent flow

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Effluent flow entering from the right into Fivemile Creek, gray & blackish precipitate & deposits



Effluent flow entering Fivemile Creek, showing gray & blackish precipitate & deposits, & discoloration of the receiving stream