

## Glen Geurts

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**From:** Schmidt, James W - DNR <JamesW.Schmidt@wisconsin.gov>  
**Sent:** Friday, May 22, 2015 9:11 AM  
**To:** glen.geurts@hvmsd.org  
**Subject:** Effluent limit memo for Heart of the Valley MSD  
**Attachments:** HOVMSD WQBEL memo FINAL.doc

I just wanted to let you know that I've completed my evaluation of the effluent limit recommendations for the reissued permit. These recommendations will be passed on to Dick Sachs who will be drafting the new permit. Attached is an electronic copy of my evaluation.

The only changes I've recommended from the previous permit were to add limits based on the Lower Fox River TMDL. One of the issues that will likely come out of this relates to the TSS limits. Since HOV's flow has increased since the baseline period of the TMDL, the limits memo suggests some removal is needed for TSS after all since the TMDL recommended no TSS removal for point sources based on the baseline loads. An issue that may be available here is the same which is currently being considered by Green Bay, who is in the same situation. They are looking into a possible numerical trade of limits from the MS4 allocation to the treatment plant allocation. They're a bit ahead of you in the process though, as this permit was recently reissued (and HOV's permit has not started being drafted yet). With the networking going on among the Lower Fox municipalities, you may already be aware of this issue and hopefully that group will be looking into dealing with this situation as well. I guess we'll see what happens with TSS as Dick starts on the permit, but at least none of the parameters with limits not subject to the TMDL have proposed changes from the current permit.

If you have any questions on this, please let Dick or me know. Thanks - Jim

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## James W. Schmidt

Water Resources Engineer  
Effluent Limits Calculator  
Bureau of Water Quality - Water District East  
Wisconsin Department of Natural Resources  
(currently stationed in Madison - GEF 2, pillar A9)  
(☎) **phone:** (608) 267-7658  
(☎) **fax:** (608) 267-2800  
(✉) **e-mail:** [jamesw.schmidt@wisconsin.gov](mailto:jamesw.schmidt@wisconsin.gov)  
**"W for Water"**  
[dnr.wi.gov](http://dnr.wi.gov)

**CORRESPONDENCE / MEMORANDUM****State of Wisconsin**

DATE: May 22, 2015 FILE REF: 3200

TO: Dick Sachs – East Water District / Green Bay

FROM: Jim Schmidt – WY/3

SUBJECT: Water Quality-Based Effluent Limitations for Heart of the Valley MSD (WPDES Permit # WI-0031232)

This is in response to your request for an evaluation of water quality-based effluent limitations using chs. NR 102, 105, 106, 207, and 217 of the Wisconsin Administrative Code (where applicable), for the discharge from Heart of the Valley MSD to a Fox River side channel. The evaluation of the permit recommendations is discussed in more detail in the attached report. Based on our review, the following recommendations are made for Outfall 001 on a chemical-specific basis:

<u>Substance</u>	<u>Effluent Limitations</u>
CBOD5:	
Year-round	25 mg/L monthly average, 40 mg/L weekly average
May – October	Mass limits based on NR 212 wasteload allocations (no change from current permit)
Total Suspended Solids :	
Interim Limits	30 mg/L monthly average, 45 mg/L weekly average
TMDL-based Limits	636 lbs/day monthly average, 942 lbs/day weekly average
pH	6.0 s.u. daily minimum 9.0 s.u. daily maximum
Fecal Coliforms, May – September	400 colonies / 100 mL monthly geometric mean
Total Residual Chlorine, May – Sept.	38 ug/L daily maximum
Total Phosphorus:	
Interim Limit	1.0 mg/L monthly average
TMDL-based Limits	10.5 lbs/day as a six-month average (November – April, May – October), 30.5 lbs/day monthly average
Ammonia:	
Year-round	17 mg/L daily maximum
January – March	10 mg/L monthly average, 28 mg/L weekly average
April	11 mg/L monthly average, 29 mg/L weekly average
May	11 mg/L monthly average
June – September	4.4 mg/L monthly average, 11 mg/L weekly average
October – December	18 mg/L monthly average
Mercury:	
Water quality-based limit	1.3 ng/L and $9.2 \times 10^{-5}$ lbs/day monthly average
Proposed Alternative Limit	4.8 ng/L daily maximum
Total Recoverable Cadmium, Chromium, Copper, Lead, Nickel, and Zinc	Once monthly monitoring only (no change from current permit)

Along with the chemical-specific recommendations mentioned above, acute and chronic whole effluent toxicity testing is recommended for this permittee. Accordingly, following the guidance provided in the most recent version of the Department's Whole Effluent Toxicity Program Guidance Document, acute and chronic whole effluent toxicity test batteries are recommended at a frequency of once (each) per year in rotating quarters. Please consult the attached report regarding relevant monitoring conditions that relate to this discharge.

If there are any questions or comments, please contact me at (608) 267-7658 or via e-mail at [jamesw.schmidt@wisconsin.gov](mailto:jamesw.schmidt@wisconsin.gov).

Attachments

Attachment 1 = Water Quality-based Effluent Limitations

Attachment 2 = TMDL-based Effluent Limitations

cc: Mark Corbett – East Water District / Oshkosh