

Tom Skjelstad

From: Joseph Gray [publicity@saveserenelakes.org]
Sent: Monday, December 01, 2008 6:19 PM
To: Tom Skjelstad
Subject: Re: DSPUD Violation Link

Tom,

Thanks for catching the wrong links. Thank heavens the fine wasn't \$4M! We'd have to apply for some of the federal bailout funds then. Now there's an idea...

I've been away for the long weekend and posted in too much of a hurry. Sorry.

Your new website is great, the info is quite welcome.

I raised the question on the website of why there were no violations in Jan-April when the ski weekend flow variations are the worst and the cold inflow is the worst, while flow variations and cold temps were identified as the problems. Any comments?

By the way, my uncle was in charge of the Pittsburg, PA sewage treatment where winter inflow is regularly all but frozen and I've heard the solution is the type of bugs to use. Heard the same from midwest small plant operators. So, maybe there's hope that the nitrate levels can be met with some, hopefully, inexpensive tweaks.

Hope you had a good Thanksgiving.

Joe

On Dec 1, 2008, at 1:33 PM, Tom Skjelstad wrote:

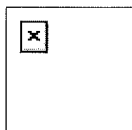
Hello Someone?,

I noticed that the link you posted for the DSPUD's most recent fines comes up with a fine notification for the Riviera West Mutual Water Company. \$3,945,000!!! Yikes.

Anyway, thought you would want to know. You can always send people to the DSPUD website where the NOV is posted.

Tom Skjelstad
General Manager- DSPUD

Joseph Gray
publicity@saveserenelakes.org



Tom Skjelstad

From: Jim King [jking@dspud.com]
Sent: Wednesday, December 03, 2008 6:58 AM
To: Joseph Gray
Cc: Tom Skjelstad
Subject: Re: Jan - April Flows

Joseph Gray wrote:

> Jim,
>
> Thanks for your response. What caught my eye were the violations in
> October and November when there should be low (but consistent) flows
> and the temperatures have not gotten too cold.
>
> I would think that the flows in January and February would be very
> inconsistent, up to 500Kgpd on weekends and 100Kgpd weekdays. At the
> same time the temperatures are the coldest, yet there were no violations.
>
> June and July violations are also puzzling, as the flows should be
> rather consistent (but low) and the temperatures are high.
>
> The worst times for I&I would be april and may (perhaps June), yet
> April and May did not have violations.
>
> This makes me think that your equalization tanks are working well to
> equalize the peaks in the winter, and that the bugs are actually doing
> pretty well in the cold weather. It seems the main problems are
> periods of low flow. Maybe the avenue to explore is how to adapt to
> the low flow periods as it seems the plant is handling the winter and
> spring flows pretty well.
>
> I'll check on the cold weather bugs, and find a contact for you. I
> seem to recall "stock ciliate" as the appropriate winter bugs.
>
> Joe
>
> The June and July violations are
> On Dec 2, 2008, at 12:09 PM, Jim King wrote:
>
>> Hello Again
>>
>> I have looked into your question regarding the plant meeting its
>> nitrate limit at certain times and not others.
>> Due to the change in flows and loads early and late in the ski season
>> the treatment process tends to fall in and out of denitrification.
>> The plant actually performs better with the semi-consistent loadings
>> of the ski season.
>> During the early portion of winter the flows and loadings are lite
>> with some peaks coming through from Boreal. At the end of the season
>> I&I from snow melt cause high flows and low loadings. The BOD load
>> is very important in driving the denitrification process. Without the
>> consistent BOD loads the plant will fall in and out of that process.
>>
>> Please let me know if you have any more questions.
>>
>> Jim King
>> DSPUD
>
> Joseph Gray
> publicity@saveserenelakes.org
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Hi Joseph

Flows and temperature play an important role in denitrification but the main source for control is BOD loadings to drive the process. October, November, June and July little or no BOD load.

Jim King
DSPUD