From: John.Tindall@deq.idaho.gov
To: Nickel, Brian; June.Bergquist@deq.idaho.gov
Cc: Thomas.Herron@deq.idaho.gov; Poulsom, Susan
Subject: RE: City of Sandpoint WWTP upgrades
Date: Monday, December 22, 2014 5:47:56 PM
Attachments: Sandpoint 2007 Upgrades G01-4 drawing.pdf
Sandpoint Hydraulic Profile drawing.pdf

Hi Brian & June
Today I talked with Brett Converse, of J-U-B Engineers who is working for Sandpoint. He explained that the city wants their design flow to be shown as 5 mgd in the permit and all permit limits calculated using that value. He will provide us with further documentation to justify this design flow.
It is not clear to me from the O&M Manual, design criteria or hydraulic profile that 5 mgd is the current design flow for the secondary treatment process. The upgrades done between 2008-2010 increased the design capacity.
The 3.62 mgd is shown in the attached design criteria from the record drawings for the recent upgrades as the projected 10 year design flow (somewhere between 2018-2020 when population increases would result in this flow). The 2011 O&M Manual (on pg. 1-4, Section 1.4, Table 1-1) has 3.62 mgd as the average day design flow without any reference to a time period this covers. It is confusing to determine what to use.
Brett understands that the results of the permit limits using the 5 mgd design flow may be different. He said they will be able to maintain the current TP loads.
I would recommend that we wait to get the justification from Brett for the higher design flow.
Thanks. JT
John Tindall, P.E.
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From: Nickel, Brian [mailto:Nickel.Brian@epa.gov]
Sent: Monday, December 22, 2014 10:06 AM
To: June Bergquist
Cc: John Tindall; Thomas Herron; Poulsom, Susan
Subject: RE: City of Sandpoint WWTP upgrades

June:
Thanks for sending this. I haven't done an exhaustive search, but I think this is the first time I've received these particular documents.
I just want to double-check that this is the most recent information available regarding the plant's design capacity, since it's a few years old. Were there no upgrades made after 2007, which affect the plant's capacity?
Thanks,
Brian Nickel, E.I.T.
Environmental Engineer

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From: June.Bergquist@deq.idaho.gov [mailto:June.Bergquist@deq.idaho.gov]
Sent: Monday, December 22, 2014 7:07 AM
To: Nickel, Brian
Cc: John.Tindall@deq.idaho.gov; June.Bergquist@deq.idaho.gov; Thomas.Herron@deq.idaho.gov
Subject: RE: City of Sandpoint WWTP upgrades

Hi Brian,

Here is the information I have on the design flow, this was part of what I sent you a while ago. If they want to pursue going to 5mgd they are into the alternatives analysis and socio-economic justification and since they don't meet our mixing zone policy now, they certainly will not at an increased flow so it is likely that certification can't be provided without a solution to these problems. This places us we back to where we are now with 3.62mgd. At our meeting with Sandpoint all they wanted was to change the requirement to prepare a new facility plan at 5mgd instead of 3.62. Sounds like they changed their mind on that point.

June

From: Nickel, Brian [mailto:Nickel.Brian@epa.gov]
Sent: Thursday, December 18, 2014 4:17 PM
To: John Tindall
Cc: June Bergquist
Subject: City of Sandpoint WWTP upgrades

John:

As you may know, a draft NPDES permit for the City of Sandpoint is currently out for public review and comment.

http://yosemite.epa.gov/r10/water.nsf/NPDES+Public+Notices/sandpoint_id_2014

One of the issues that has come up is confusion over the plant's design flow. The City had reported 5.0 mgd on their most recent application, but when I sent a preliminary draft permit to DEQ that was based on that design flow, June was concerned about that figure. She suggested that the design flow should have been 3.62 mgd, which was the "average day" design flow in the City's 2011 operations and maintenance manual (see attached). So, I revised the permit accordingly.

The City does not agree that 3.62 mgd is the correct design flow, and has stated that upgrades to the aeration (fine bubble diffusers) and solids handling have increased the plant's secondary treatment capacity to 5.0 mgd. I believe there were some improvements to the headworks as well. They said that these upgrades and the associated re-rating of the plant were reviewed and approved by DEQ.

I was hoping you might have some documentation that you can share with me, which supports the City's statements regarding the design flow.

Thanks,

Brian Nickel, E.I.T.
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