

Richmond, Maria

From: Maddox, Rebecca
Sent: Wednesday, September 01, 2010 4:52 PM
To: Yvonne Dedrickson
Cc: mrace@mwgen.com; THiebert@mostardiplatten.com
Subject: Re: ICR - Will County pond information

Categories: Folder: Rebecca Maddox ARCHIVED\~SENT

Yvonne:

Information I have on the ponds based on drawings and write-ups:

Water Capacities:

Standby Pond - 1.9 million gallons

1N and 1S - 3.88 million gallons

2S and 3S - 3.55 million gallons (3S may have changed after the liner install but our thought was we did not lose any capacity)

My conversion into cubic feet is not what you have in your spreadsheet

Dredging

Only 2S and 3S have been dredged. 1N and 1S have NEVER been dredged. Standby pond and spent slurry ponds never dredged.

This capacities are based on the circa 1979 operations manual/engineering descriptions by Harza - the engineering company that designed the system

Standby Pond

The standby pond has not been dredged outside of removing rock on the outer portion of the pond. This is not what you have in your spreadsheet I would not consider that dredging. It was a cleanup initiated since the rocks were oil stained.

I did find a drawing that showed the standby pond to be lined with poz-o-pac. 12" (30.48 cm).

Standby pond bottom elev = 586.0

Max water level = 593.0

Solids placed in pond - the only solids that are in this standby pond are the small fines that did not fall out in the clarifier. I would have no idea on the amt. IT would be very small as far as the current state.

3S

The liner numbering guidance states from inner (#1) to outer. I would think the outer liner is the one closest to the surface - which would be the HDPE. That should be #2. The inner liner is the one closest to the inside of the pond - the remaining 12" of poz-o-pac. I think you have this reversed. I believe you provided me guidance on how the numbering scheme for 3S but can you revisit this again.

Dredging for 3S and 2S

There is no information readily available on when the dredging of 2S or 3S occurred (or concurrently when 2S or 3S was in service.) I've reviewed our operations log going back to 2005 and cannot find anything helpful. 2009 we dredged both ponds in anticipation of the liner project. As a conservative estimate, I am going with 3 weeks of dredging (i.e. 15 days) for each. Corporate fuels provided me with a spreadsheet for the amount of bottom ash they received in the yr. However, it is not broken out by pond. So I am equally splitting it up between 2S and 3S for 2009.

For the 5-yr look back, I am estimating that 20 days of dredging occurred each yr for both 2S and 3S and then dividing the total amount of bottom ash from the corp fuels spreadsheet equally between the 2. There really isn't any better way to estimate.

Estimate that each pond was dredged 1 time/yr for 20 days of dredging.

I do not have any permeability information on poz-o-pac so I will agree with what you have.

Spent Slurry Ponds

There is next to nothing on these ponds. They are made up of 3 separate ponds tied into each other. Only in use in the early 70's. There doesn't appear to be any engineering information anymore available on these. The residence time for the wastewater in these ponds is unknown. It's not getting pumped anywhere. It just sits in the pond.

I did not calculate the surface area so I would go along w/ your calculations.

Residence Times

For 1S - this pond doesn't have any flow going into it. There is material stored there. Not sure how you want to indicate that on the forms.

Spent Slurry - Residence time unknown - see above comment

Tom (for Thursday):

1. Can you please review w/ Fred the residence times in the ponds. I haven't been able to find any documentation on that and I am not sure.
2. I have a map that shows the 3 spent slurry ponds if you want to take that and glean any data off of it as you can. I'll leave it on the chair in my office. Feel free to grab it tomorrow morning.
3. I'll leave some other drawings on my chair that you can peruse if you'd like while you are here

I've attached my version of the spreadsheet as best as it is. I am away from the station tomorrow and Friday but available by cell phone but I will not have my computer available. Hopefully this information is helpful.



partdfinal.xls

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Yvonne Dedrackson
<ydedrickson@naturalrt.com>
08/30/2010 03:18 PM

To <maddox@mwgen.com>
cc <mrace@mwgen.com>, <Thiebert@mostardipltatenv.com>
Subject ICR - Will County pond information

Beckie,

The attached file is the current version of Part D that I have for Will County. The pond information I entered after our conversation on Friday was entered into Section 4.1. As we discussed today, the source of most of the information I entered was originally from the Midwest Generation pond survey which may not be as accurate as the dimensions you can get from the drawings. If you have better information, please correct the attached file and send it back to me or send me a list of the dimensions. For your reference, the SPD numbers refer to the ponds as follows:

SPD-1: 1 North