Gansberg, Mary K - DNR

From: Sesing, Mark F - DNR
Sent: Monday, January 05, 2009 4:26 PM
To: 'Casmir Kendziorski'
Subject: RE: Forest Lake Sediment analysis

Thanks for your inquiry Casey and forthright sharing of this info.

Have a good new year

Mark

-----Original Message-----
From: Casmir Kendziorski [mailto:ckendziorski@wi.rr.com]
Sent: Monday, December 08, 2008 5:08 PM
To: Sesing, Mark F - DNR
Subject: Fw: Forest Lake Sediment analysis

Hi Mark,
Per your e- mail of Nov 3 asking if we had written data from USGS regarding sediment analysis, contact was again made with Bill Rose (USGS) for his critique and recomendations based on the data we already have, and his reply is here attached. The sediment analysis therefore will be eliminated from the proposal. I still have to ask the assoc. to approve the proposal at the May 09 meeting before I can proceed with the DNR grant request. The Board of directors put me in a holding pattern due to cost.
My seasons greetings to you and yours for the coming holidays, Will stay in touch.
Casey
----- Original Message -----
From: "William J Rose" <wjrose@usgs.gov>
To: "Casmir Kendziorski" <ckendziorski@wi.rr.com>
Cc: "S. Bridgett Manteufel" <sbmarsh@usgs.gov>
Sent: Monday, December 08, 2008 2:08 PM
Subject: Re: Forest Lake Sediment analysis

> Hi Casey,
>
> The sediment chemistry data you gathered in 2004 probably are
> worthwhile baseline data to characterize the lake bed sediment.
> However, unless you are investigating a particular problem, I do not
> think you need to repeat these analyses anytime soon. The results
> look very much as would be expected for a small lake in the geological
> setting for Forest Lake. The four sample sites, 8,11,14, and 17
> likely are from the deep part of the lake, as they contain the most
> organic matter. These sites have the highest concentrations of phosphorus as would be expected.
>
> In general, the relation between bottom sediment phosphorus and
> phosphorus concentration in overlying water in lakes is not too
> predictable. I've attached a file with graphs of the trophic state
> index parameters versus bottom sediment phosphorus concentration for

> about 40 Wisconsin lakes and have included average 2004-05 summer values for Forest Lake on the graphs.
> As you can see, water concentration of phosphorus is not very
> related to bottom sediment concentration. Also, compared to the other
> lakes in the data set, Forest Lake has relatively low concentration of
> phosphorus in its deep sediments.
>
> I see no reason to repeat the bottom sediment analyses for another ten
> or twenty years.
>
> Hope this helps.
>
> Bill
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>
> "Casmir Kendziorski" <ckendziorski@wi.rr.com>
> 11/19/2008 08:05 PM
>
> To
> "William J Rose" <wjrose@usgs.gov>
> cc
>
> Subject
> Forest Lake Sediment analysis
>
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>
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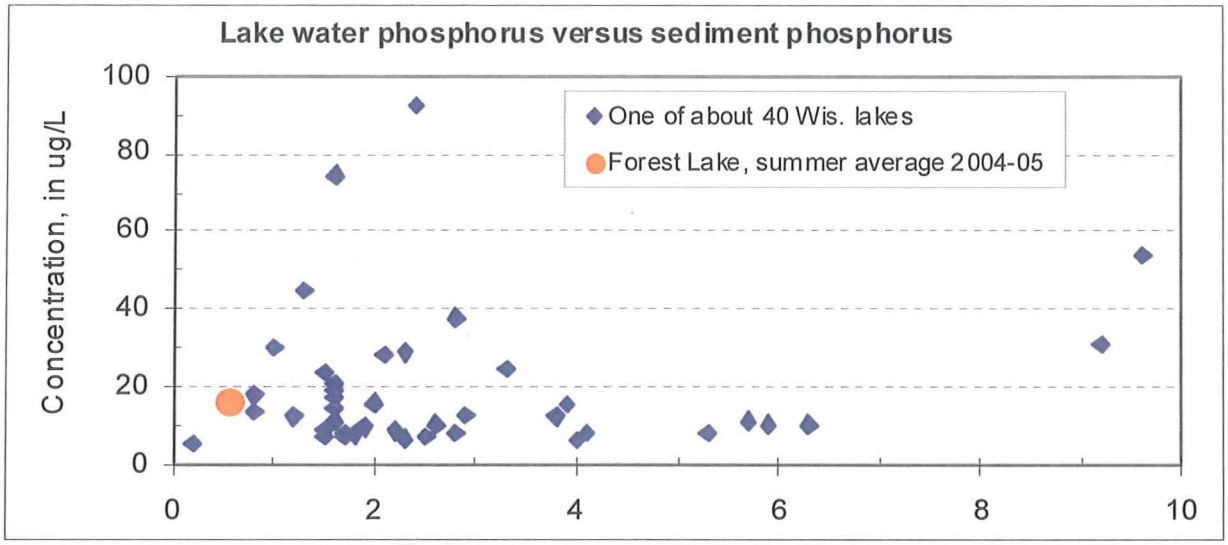
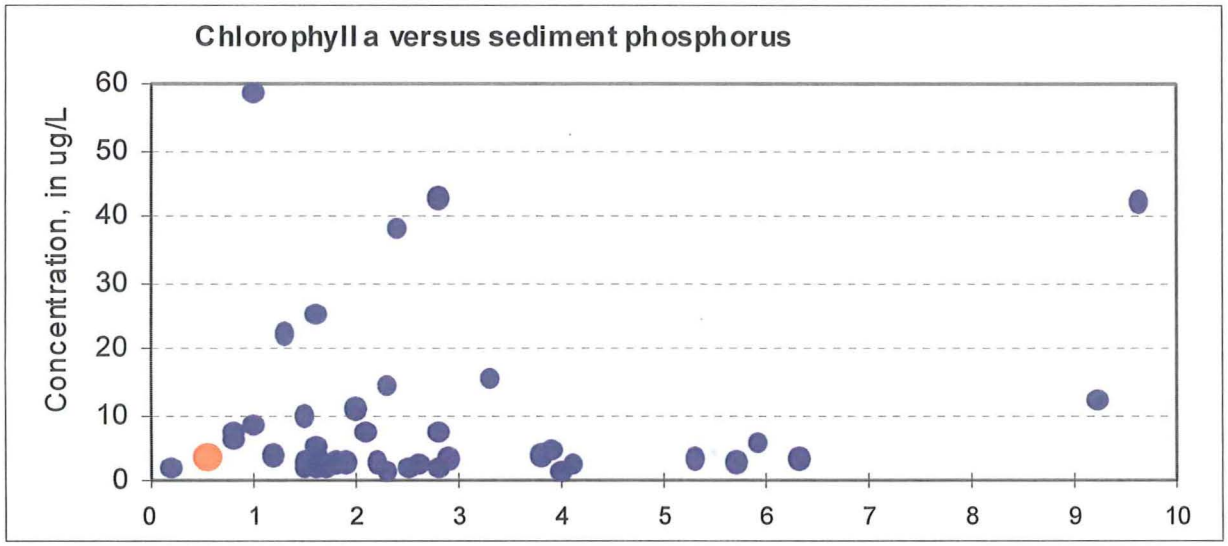
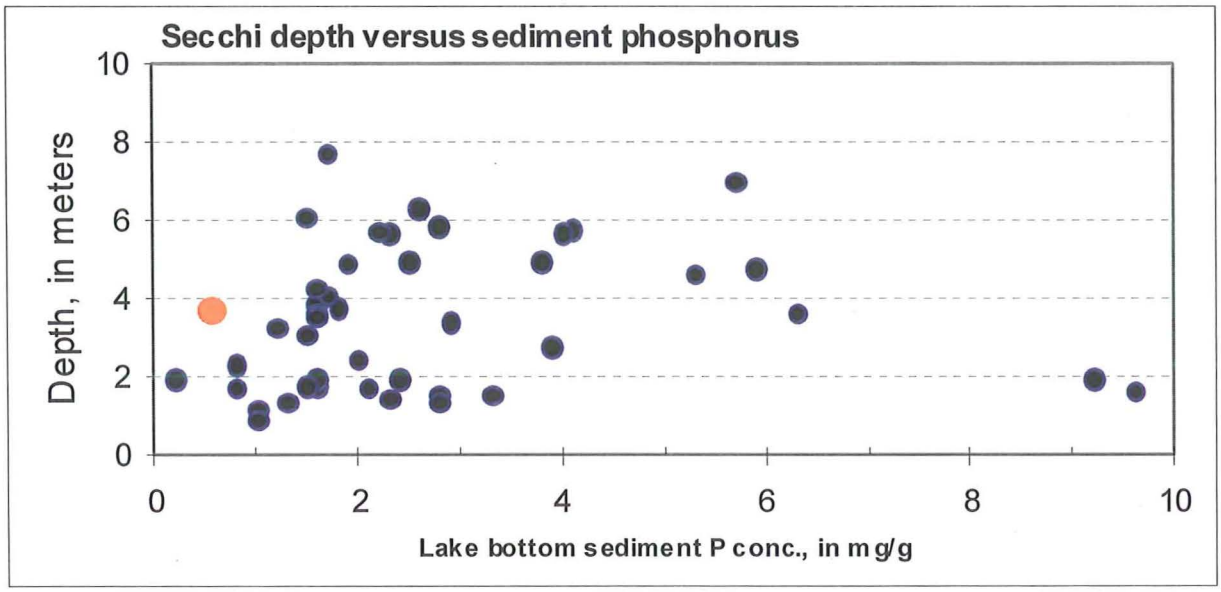
>
> HI Bill'
> I wonder if you could do me a favor.. I would greatly appreciate
> your critique of the analysis of the sediment from Forest Lake.
> During the
> 1993 and 2004 Water Quality Monitoring, sediment sample were
> collected from the lake at 12 established transect locations. They
> were submitted to the Soils and Plant Analysis Lab, University of
> Wisc. for physical and chemical analysis . (see 2004 Attachments)
> Our reasoning was to build a baseline of chemical and
> physical characteristics, create a yardstick for future sediment
> studies and hopefully to contribute to the knowledge of how bottom
> sediments react with the water column and influence the chemistry of
> the overlying lake water. We realize that that elements of the geology
> also must play an important part.
> I am unable to find any other supporting data. Are you
> familiar with any similar studies or references.? Are we on the right track?
> Should we continue during our next USGS study.
> Hope you can help.
>
> THX CASEY[attachment "FS-Doc2502422.pdf" deleted by William J







Data from Lathrop and others, 1989, Mercury levels in walleyes from Wisconsin Lakest of different water and sediment chemistry characteristics: DNR Tech. Bulletin No. 163.