From: Environmental Simulations
To: Ellinger, Scott
Subject: Re: FW: air sparging
Date: Thursday, November 14, 2013 9:05:11 AM

Hi Scott,

You should probably upgrade to version 6 of Groundwater Vistas ($425) to make sure that all the MODFLOW-Surfact related stuff is supported. GV can import models from Visual MODFLOW. That should not be a problem. Once it is imported it's easy to switch to Surfact.

Jim

At 09:52 AM 11/14/2013, you wrote:

> Mr. Rumbaugh,
>
> In order to get Modflow-Surfact to work with Groundwater Vistas, do I need to update my version of vistas. I have version 5.07 build 2. (However, I have had to switch computers a number of times, and I may have had a later version in the recent past. Is there a way you can check your files?). I don't mind updating if I need to, how much will an update cost).
>
> Secondly, I have a fate and transport model already built in Visual Modflow. Can I import the Visual Modflow files into Groundwater Vistas, then use Modflow-Surfact for air sparging?
> Sorry for all the questions, I just want to make sure before I start buying.
>
> Thank you,
> Scott Ellinger
> EPA Region 6
>
> **From:** Fairbanks, Jeffrey [mailto:jfairbanks@hgl.com]
> **Sent:** Wednesday, November 13, 2013 8:26 PM
> **To:** Ellinger, Scott
> **Subject:** RE: air sparging
>
> Scott,
>
> Yes, please download the installation below for a trial version which will install the documentation, example problems, and an executable for the code. It will run until the end of the month. Please note it has a size limit of 10,000 nodes.
>
> https://dl.dropboxusercontent.com/u/72611891/MSFT_Installation.exe
>
> Regarding your other questions:
> Does Modflow-Surfact use T2VOC/TOUGH?
> No
>
> Can Surfact be used with my existing model for air sparging?
>
> It is not clear how the original model was constructed as MODFLOW does not have the variably saturated flow capability.
> Files of the MODFLOW code agrees with MODFLOW-SURFACT almost one to one. However, MT3D files are different from those of MODFLOW-SURFACT.
> Groundwater Vistas can perhaps translate it.
>
> Cost?
>
> Please see costs in the attached order form.
> Also, if I obtained Modflow-Surfact, would I need to use a processor with it like Visual Modflow, Groundwater Vistas, or GMS.
>
> You can manipulate the files through a text editor but it is strongly recommended that you use a pre/post processor to prepare the input files and view model results. Visual MODFLOW currently only supports the flow modules in SURFACT. Groundwater Vistas is fully compatible with SURFACT. You can purchase these through us as well as we are resellers for both GUIs. GMS does not support SURFACT.
>
> Regards,
> Jeff
>
> Jeffrey R. Fairbanks
> HydroGeoLogic, Inc.
> (703)-736-4514
>
> **From:** Ellinger, Scott [mailto:Ellinger.Scott@epa.gov]
> **Sent:** Wednesday, November 13, 2013 4:32 PM
> **To:** Fairbanks, Jeffrey
> **Subject:** FW: air sparging
>
> Is there a trial version of Modflow Surfact I can look over?
>
> **From:** Ellinger, Scott
> **Sent:** Wednesday, November 13, 2013 9:37 AM
> **To:** 'jfairbanks@hgl.com'
> **Subject:** air sparging
>
> Thanks for getting back to me.
>
> I'm looking for a way to simulate air sparging for the removal of 1,2-dibromoethane. I have a numerical fate and transport model already built (Modflow and MT3DMS). Can Surfact be used with my existing model for air sparging, and how much would it cost for a copy (federal agency). Does Modflow-Surfact use T2VOC/TOUGH?
>
> Also, if I obtained Modflow-Surfact, would I need to use a processor with it like Visual Modflow, Groundwater Vistas, or GMS.
>
> Thank you,
> Scott Ellinger
> EPA Region 6

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