ATTACHMENT 1

Test Log for MODPATH Acceptance Test Case 1 (MP-ATC-1)

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| MODFLOW Acceptance Test Case 1  Description: Forward Particle Tracking from an Injection Well | | | Test Case #: Mp-ATC-1 | | Date: | |
| System Attributes:  Version #:  Release #:  Environment:  Server: | | | Test Performed by: | | | |
| Test Step # | Requirement # | Test Instruction | | Expected Result | | Actual Result |
| 1 | Obtain files for test problem from software owner | Copy files to appropriate directory | | All test cases are stored in the appropriate place on the user’s computer, and are ready for use | |  |
| 2 | Install Anaconda | Navigate to https://www.anaconda.com/download and download Python 3.6.  Run the install package and accept all the defaults in the install window until the window titled “Advanced Installation Options” is reached. In this window, activate “Add Anaconda to my PATH environment variable” by clicking the box next to it. | | Anaconda is installed and functional. | |  |
| 3 | Open Anaconda | In the windows search bar, enter “anaconda” and select “Anaconda Prompt” | | An Anaconda prompt window will appear | |  |
| 4 | Navigate to the test directory | In the Anaconda command prompt, type the following without quotation marks or brackets, “pushd [location of folder with test cases]” and hit enter | | The prompt will be in the root directory of the test cases. | |  |
| 5 | Setup the environment | In the Anaconda command prompt, type the following without quotation marks, “install\_env.bat” then hit Enter. Please note this will take 15-20 minutes. | | The Anaconda environment is downloaded. | |  |
| 6 | Activate the environment | In the Anaconda command prompt, type the following without quotation marks, “conda activate modpath\_qa”. The name before the drive location should now read “modpath\_qa”  Confirm that the environment is correct by typing “conda list” without the quotation marks, hitting enter, and ensuring that the versions of the packages match those listed in “Readme.md” in the root directory of the folder containing the test problems. | | The Anaconda environment is activated, and the correct packages are being used. | |  |
| 7 | Run the test case | Execute the batch file by typing “runme.bat” without quotes into the Anaconda prompt and hitting Enter. | | The test cases execute without error  The /workspace folder is populated with modflow and modpath files  The /outputs folder is populated | |  |
| 8 | Examine the graphic results to ensure the test criterion are met | Open “Test\_Case\_1/output/figures, and examine the three graphic files there, “2500\_days.png”, “5000\_days.png”, and “7500\_days.png”. Ensure the particles radiate outwards in straight lines. Paste the results in the “Actual Result” box. | | MODPATH acceptance test criterion are met | |  |
| 9 | Examine the percent difference results to ensure the particle tests passed. | Open “All\_tc\_results.xlsx” and ensure that in tab Test\_Case\_1 all the values in the Pass/Fail column (column E) read “pass”. Paste the results in the “Actual Result” box. | | MODPATH acceptance test criterion are met | |  |