



January 22, 2018

TO: Elizabeth A. Byers
Senior Wetland Scientist
Watershed Assessment Branch
Division of Water and Waste Management
WV Department of Environmental Protection
601 - 57th Street
Charleston, WV 25304

Project: Statewide Wetland Assessment: Python Automation of GIS Metrics

Time Period: September 2017-January 2018

Milestones: The Milestones 1 and 2 in signed service agreement dated 9/11/17 were completed. Work on Milestone 3 has been started.

Overview: As of January 19, 2018 the following tasks have been completed:

- Python scripts for all Habitat & Ecological Integrity metrics (36 in total) finished and results verified (Task 1 in Project Scope);
- Packaged script for Site Biodiversity Rank of Wetland (BRank) as an ArcGIS Toolbox with user interface;
- Data source directory file created to allow efficient updates and maintenance
- Logging function set up to allow efficient debugging and progress tracking

Future Directions:

- Automate the Contributing Watershed (CntrWshd) metric
- Package the assessment tool with a user-friendly interface
- Web Application that allows the user to upload data to be processed and automatically process the assessment
- Other updates that might enhance the tool's overall performance
- Field verification , testing and debugging

Please contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "MSharma".

Maneesh Sharma, GISP
GIS Project Lead
WV GIS Technical Center, WVU
e-mail: maneesh.sharma@mail.wvu.edu

Cc: John Wirts, Environmental Resources Program Manager 3, Watershed Assessment
Branch/Administration Division/Office, Division of Water and Waste Management