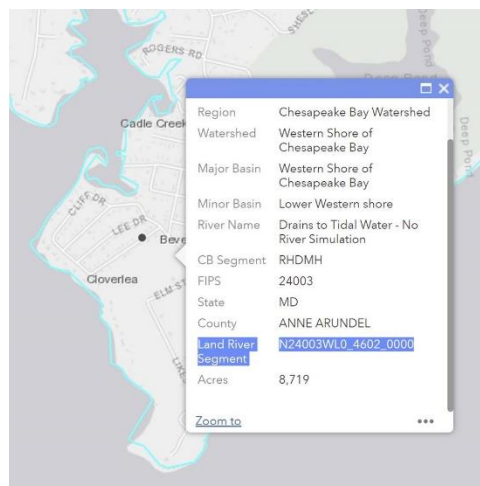


## Appendix B: Four Step Method

Step 1: Determine the total load reduction from the protocols.

Step 2: Visit <https://gis.chesapeakebay.net/mpa/scenarioviewer/>, and enter the nearest physical address or the practice. Once entered, click the identify button on the upper-left-hand corner of the screen, and click on the land surrounding your physical address. This will open a window that contains the land-river segment within which your practice is located. See highlighted land-river segment in screen shot included below.



Step 3: Download CAST Source Data at <https://s3.amazonaws.com/cast-reports.chesapeakebay.net/public/SourceData.xlsx>, and click on the “Delivery Factors” worksheet. Once there, you can filter the spreadsheet for your land-river segment and you load source. In the case of stream restoration, your load source would be Stream Bed and Bank. See the screen shot below. Here, I have a delivery factor from the stream to the river for sediment of 0.44 and from the river to the Bay of 1. Multiply those two factors together to determine a combined delivery factor from the stream to the Bay of 0.44.

A	B	C	D	E	F	G	H	I	J	K	L
LandRiverSegment	LoadSource	Lan	Lan	L	StreamToRiver_TN_Factor	StreamToRiver_TP_Factor	StreamToRiver_SED_Factor	RiverToBay_TN_Factor	RiverToBay_TP_Factor	RiverToBay_SED_Factor	
N24003WLO_4602_0000	Stream Bed and Bank				0.88	0.74	0.44	1.00	1.00	1.00	

Step 4: Multiply reduction found in Step 1 by combined delivery factor found in Step 3 to determine pounds of sediment reduced to the Bay from your stream restoration project.

Example:

Step 1: Edge-of-Stream Reduction = 1,000 lbs sediment

Step 2: BMP located within LRSEG N24003WLO\_4602\_0000

Step 3: Combined Delivery factor = 0.44 X 1.0 = 0.44

Step 4: Edge-of-Tide Reduction = 1,000 lbs sediment X 0.44 = 440 lbs sediment

### **Appendix C. Spreadsheet Tool for Erosion Rate Estimates**

This spreadsheet was developed specifically for TMDL purposes using data from multiple stream sources including Hickey Run. This spreadsheet allows for user defined variables (e.g., bulk density, nutrient concentration) but must be updated to account for the Phase 6.0 model's delivery factors. It will be included once complete.

[Click here to view the spreadsheet](#)