

Welcome to the West Virginia Department of Environmental Protection's *Save Our Streams* Volunteer Assessment Database (VAD). To begin entering new survey data, please define a unique Survey Code below that will identify this assessment.

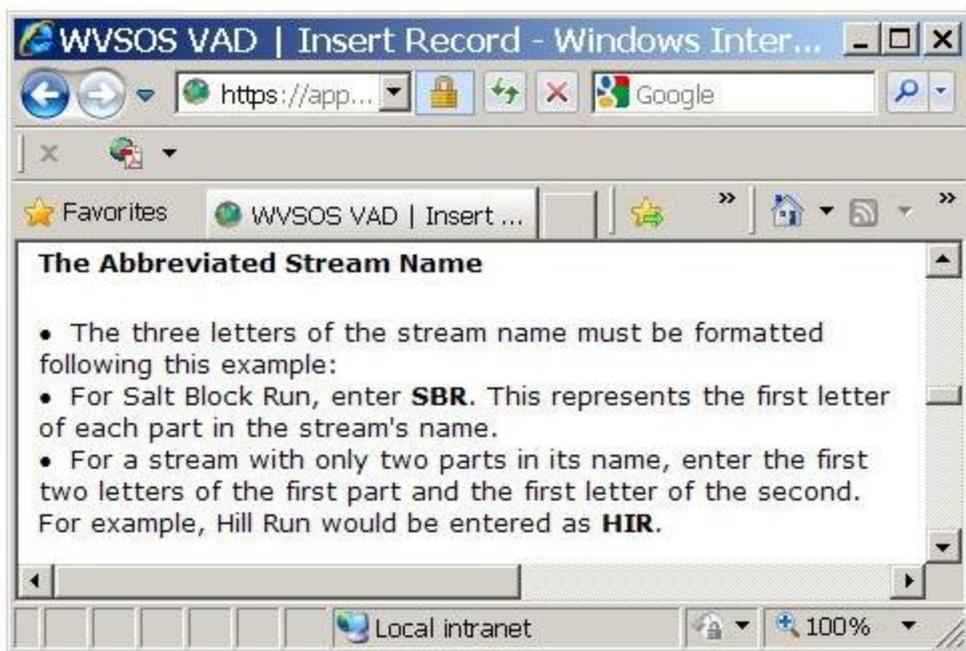
Survey Code

Basin: [Help](#) Three letters of the **stream name:** [Help](#)

Date of Assessment:

For Multiple Assessments

If more than one stream survey was completed for the same stream on the same day (at different locations, for example), you must append an additional *and* unique character to the Survey Code for all surveys after the first. You may use a **lower case** letter; however, **do not** append additional numbers to the Survey Code.



The screenshot shows a web browser window titled "WVSOS VAD | Insert Record - Windows Inter...". The address bar shows "https://app...". The page content is titled "The Abbreviated Stream Name" and contains the following instructions:

- The three letters of the stream name must be formatted following this example:
- For Salt Block Run, enter **SBR**. This represents the first letter of each part in the stream's name.
- For a stream with only two parts in its name, enter the first two letters of the first part and the first letter of the second. For example, Hill Run would be entered as **HIR**.

Stream:

Topo Quad:

County:

Start Time (HHMM/24-Hour Format):

End Time (HHMM/24-Hour Format):

Monitor(s):

Level: [Help](#)

Latitude (DMS): DD MM SS

Longitude (DMS): DD MM SS

RR miles: [Help](#)

Station: [Help](#)

Directions:

Location Condition

River Reach miles - The river reach mile is the distance from your station to the mouth of the stream you're monitoring.

Location Condition

Station - The station is the name or number that you give your monitoring site. This should remain the same throughout the life of the station.

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County: Hardy

Topo Quad: Needmore

Stream: Bakers Run

Monitor(s): East Hardy
High School

Level: 1

Date of Assessment: 2007-11-13

Start Time: 0900

End Time: 1200

Directions:

From lower parking lot behind high school,
follow path from pavillion down to stream

RR miles:

Station:

Latitude: 39.0483333333 **Longitude:** -78.7571388889

Basin: Cacapon River

Note: In order to view the map of your survey location, you must enter Latitude/Longitude in degrees, minutes, and seconds on the Edit page. After you have entered this information, you must [click here](#) to convert DMS to degrees decimal.

	Value	Units
pH:	<input type="text" value="7.5"/>	
Conductivity:	<input type="text" value="250"/>	<input type="text" value="us"/>
Dissolved Oxygen:	<input type="text" value="10.0"/>	<input type="text" value="ppm"/>
Temperature (Celsius):	<input type="text" value="11"/>	
Iron:	<input type="text"/>	<input type="text"/>
Aluminum:	<input type="text"/>	<input type="text"/>
Manganese:	<input type="text"/>	<input type="text"/>
Nitrite:	<input type="text"/>	<input type="text"/>
Nitrate:	<input type="text" value="ND"/>	<input type="text" value="ppm"/>
Phosphate:	<input type="text" value="1.0"/>	<input type="text" value="ppm"/>
Turbidity:	<input type="text" value="10"/>	<input type="text" value="JTUs"/>
Fecal Coliform:	<input type="text"/>	<input type="text"/>
E-coli:	<input type="text"/>	<input type="text"/>
Total Suspended Solids (TSS):	<input type="text"/>	<input type="text"/>
Total Hardness:	<input type="text"/>	<input type="text"/>
Alkalinity:	<input type="text"/>	<input type="text"/>
Acidity:	<input type="text"/>	<input type="text"/>
Sulphate:	<input type="text"/>	<input type="text"/>

Physical Conditions Help - Windows Interne...

There are a wide variety of water chemistry conditions that influence the stream and at a minimum you should choose 2 to 4 conditions to measure. WV Save Our Streams recommends measuring stream temperature, pH, conductivity, and dissolved oxygen and adding additional conditions if other influences such as nutrients or metals are suspected based upon visual clues. For more information visit the water quality section of EPA's Volunteer Stream Monitoring: A Methods Manual on the Internet.

Other attributes (describe):

Results an average of 3 surveys by 3 different groups of students

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pH: 7.5

Conductivity: 250 us

Dissolved Oxygen: 10.0 ppm

Temperature (Celsius): 11

Iron:

Aluminum:

Manganese:

Nitrite:

Nitrate: ND ppm

Phosphate: 1.0 ppm

Turbidity: 10 JTUs

Fecal Coliform:

E-coli:

Total Suspended Solids (TSS):

Total Hardness:

Alkalinity:

Acidity:

Sulphate:

Other attributes (describe): Results an average of 3 surveys by 3 different groups of students

Water Clarity:
Water Color:
Water Odor:
Streambed Color:
Algae Color:
Algae Abundance:
Algae Texture:
Surface Foam:

Physical Conditions Help - Windows Internet Explo...

Attributes - The physical conditions are assessed mostly by visual observation; however, certain channel attributes such as width and depth of selected features (riffles, runs or pools) should be measured, and streambed composition should be thoroughly assessed. When recording this information always record the most prevalent condition and make notes about other visual clues if you feel these are important. For more information refer to your WV Save Our Streams Manual or EPA's Wadeable Streams Assessment Manual.

Comments:

Riffle Width: **Riffle Depth:**
Pool Width: **Pool Depth:**
Run Width: **Run Depth:**

STREAMBED COMPOSITION: Results are either an estimate of riffle composition or percentages from pebble count data; the index is a calculation based upon the composition.

[Download](#) the **Pebble Count** spreadsheet (Excel)

Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock
<input type="text"/>	<input type="text" value="6"/>	<input type="text" value="21"/>	<input type="text" value="20"/>	<input type="text" value="27"/>	<input type="text" value="19"/>	<input type="text" value="3"/>

INDEX **D50:**

Comments:

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Water Clarity:	Clear	Algae Color:	Dark Green
Water Color:	None	Algae Abundance:	Everywhere
Water Odor:	None	Algae Texture:	Hairy
Streambed Color:	Brown	Surface Foam:	Slight

Comments:

Riffle Width:	Pool Width:	6.8	Run Width:	15
Riffle Depth:	Pool Depth:	0.9	Run Depth:	0.7

.....Streambed Composition.....

Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock
	6	21	20	27	19	3

Index: 3.43 **D50:**

Comments:

Attachment Sites:	<input type="text" value="0"/>	Help
Riffle Frequency:	<input type="text" value="0"/>	Help
Velocity/Depth Combinations:	<input type="text" value="0"/>	Help
Channel Flow Status:	<input type="text" value="0"/>	Help
Channel Alterations:	<input type="text" value="0"/>	Help
Sediment Deposition:	<input type="text" value="17"/>	Help
Embeddedness:	<input type="text" value="12"/>	Help
Bank Protection:	<input type="text" value="0"/> (L)	<input type="text" value="0"/> (R) Help
Bank Stability:	<input type="text" value="7"/> (L)	<input type="text" value="8"/> (R) Help
Riparian Buffer Width:	<input type="text" value="9"/> (L)	<input type="text" value="4"/> (R) Help
Comments:	<div style="border: 1px solid gray; height: 150px; width: 100%;"></div>	

Habitat Conditions Help - Windows Inte...

Habitat Conditions - Habitat conditions have a great deal of influence on the land and water relationships. Depending upon the level of assessment, anywhere from 4 to 10 of in channel and out of channel habitat features are evaluated based upon descriptions and an integrity scale from 1-20. The habitat index is a score based upon the total score and the number of habitat conditions assessed. For example, if 10 conditions were assessed than the total possible points would be 200 (based upon 20-points for each condition). If your total score were 150, then your habitat index would be 75, which is calculated by dividing 150 by 200 and multiplying by 100. The habitat integrity rating would be suboptimal based upon the scale provided. For more information refer to your WV Save Our Streams Manual or EPA's Wadeable Streams Assessment Manual.

Update Survey

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Attachment Sites:

0

Riffle Frequency:

0

Velocity/Depth Combinations:

0

Channel Flow Status:

0

Channel Alterations:

0

Sediment Deposition:

17

Embeddedness:

12

Bank Protection:

0 (L)

0 (R)

Bank Stability:

7 (L)

8 (R)

Riparian Buffer Width:

9 (L)

4 (R)

Total Score: 57

Habitat Index: 71.25

Integrity: Sub-optimal

Comments:

Discharge (cfs): [Help](#)Water Level: Current Weather Conditions: Past 48-hours:

Land Use Impacts:	Impact	Location
Single Family Residences:	<input type="text"/>	<input type="text" value="Streamside"/>
Suburban Developments:	<input type="text"/>	<input type="text"/>
Urban Areas:	<input type="text"/>	<input type="text"/>
Industrial Areas:	<input type="text"/>	<input type="text" value="Within the Watershed"/>
Parking Lots, Malls, Etc.:	<input type="text"/>	<input type="text"/>
Bridges:	<input type="text"/>	<input type="text" value="Streamside"/>
Paved Roads:	<input type="text"/>	<input type="text" value="Within 1/4 Mile"/>
Unpaved Roads:	<input type="text"/>	<input type="text" value="Within the Watershed"/>
Active Construction:	<input type="text"/>	<input type="text" value="Within 1/4 Mile"/>
Parks, Trails, Etc.:	<input type="text"/>	<input type="text" value="Streamside"/>
Other Recreation:	<input type="text"/>	<input type="text"/>
Intensive Feedlots:	<input type="text"/>	<input type="text"/>
Pastureland:	<input type="text"/>	<input type="text"/>
Cropland:	<input type="text"/>	<input type="text"/>
Oil & Gas Wells:	<input type="text"/>	<input type="text"/>
Logging:	<input type="text"/>	<input type="text"/>
Mountaintop Mining:	<input type="text"/>	<input type="text"/>
Abandoned Mining:	<input type="text"/>	<input type="text"/>

Flow and Weather Help - Windows Internet Explorer

Land Use Assessment - If you feel that there is a disturbance to your stream station from land uses in your watershed then use the rating scale provided as your method of assessing these impacts. The rating scale is as follows: slight (**1**), moderate (**2**), and high (**3**); the proximity of the activity is also noted as streamside (**S**), within ¼ mile (**M**) or somewhere within the watershed (**W**). If there is no impact from a land use, do not give it a rating; however you can note its presence in the watershed by assigning a location. You are also provided with an option to give an **overall impact rating**, which is the same rating scale as the above, except that you should keep in mind this is a cumulative impact. For example, if there were five disturbances relatively close to the station all rated as slight, your overall impact should probably be rated as moderate or even high due simply to the number of impacts and their location (use your best judgment). To rate the disturbance from each activity use the drop-down boxes. Take care when using this category; the only way the ratings can be changed is by deleting the entire survey and starting over.

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Discharge (cfs): 19.1
Water Level: Normal
Current Weather Conditions: Cloudy, intermittent showers, cool
Past 48-hours: Rainy, low 50s

Land Use Impacts	Impact	Location
Single Family Residences:		Streamside
Suburban Developments:		
Urban Areas:		
Industrial Areas:		Within the Watershed
Parking Lots, Malls, Etc.:		
Bridges:		Streamside
Paved Roads:		Within 1/4 Mile
Unpaved Roads:		Within the Watershed
Active Construction:		Within 1/4 Mile
Parks, Trails, Etc.:		Streamside
Other Recreation:		
Intensive Feedlots:		
Pastureland:		Within 1/4 Mile
Cropland:		Within the Watershed
Oil & Gas Wells:		
Logging:		Within the Watershed
Mountaintop Mining:		
Abandoned Mining:		
Deep Mining:		
Quarries:		
Trash Dumps:		
Other (describe below):		
Description:		
Overall Impact:	Moderate	

Total Taxa:

[Help](#)

EPT Taxa:

[Help](#)

Biotic Index:

[Help](#)

Percent EPT Abundance:

[Help](#)

Percent Dominant:

[Help](#)

Percent Chironomidae:

[Help](#)

Percent Sensitive:

Percent Tolerant:

[Help](#)

Stream Index:

[Help](#)

Integrity:

Other organisms observed or collected (comments):

Biological Conditions Help - Windows Int...

Biological Condition -Metrics are used to analyze and interpret biological data by condensing lists of organisms into relevant biological information. In order to be useful, metrics must be proven to respond in predictable ways to various types and intensities of stream impacts. WV Save Our Streams recommends using a multimetric approach that combines several metrics into a total Stream Index score. The program provides an Excel spreadsheet to help calculate the necessary metrics based upon the level of assessment.

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Total Taxa:	17
EPT Taxa:	6
Biotic Index:	4.04
Percent EPT Abundance:	59.7
Percent Dominant:	31.3
Percent Chironomidae:	
Percent Sensitive:	
Percent Tolerant:	5.2
Stream Index:	76.2
Integrity:	Sub-optimal
Comments:	

Click [here](#) to download the Stream Index Calculation spreadsheet (Excel).

» [View Survey WVCABAK-11132007](#) » [Return to Full List](#) » [View Basin List](#) » [Log Out](#)

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No photos have been uploaded for this survey.

NOTE: All files must be in .JPG format.

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Latitude Longitude Coordinates