Loudoun Wildlife Conservancy
aulland@loudounwildlife.org

Loudoun Watershed Watch
info@loudounwatershedwatch.org

April 30, 2026

Meighan Wisswell
VA Dept. of Environmental Quality
P.O. Box 1105
Richmond, VA. 23218

Sent via E-mail: citizenwater@deq.virginia.gov

Subject: Citizen Nomination for Stream Monitoring

Dear Meighan,

Loudoun Wildlife Conservancy and Loudoun Watershed Watch are pleased to provide several nominations for additional stream monitoring locations to be considered for inclusion in DEQ's Water Quality Monitoring plan for calendar year 2027. This year we met virtually as a committee and selected 5 candidate sites. We used a comprehensive interactive map with stream monitoring data and stream impairments, past stream monitoring nominations, and past DEQ stream monitoring plans.

The map includes past stream monitoring results by:

- Citizen stream monitoring groups
- VADEQ
- Other organizations

The map is available to the public at https://tinyurl.com/LWC-LWW-Nominations-2026

The scoring matrix includes five criteria for nominations as follows. On March 20, 2026, several committee members from Loudoun Wildlife Conservancy and Loudoun Watershed Watch met and determined scores and made the final nomination list.

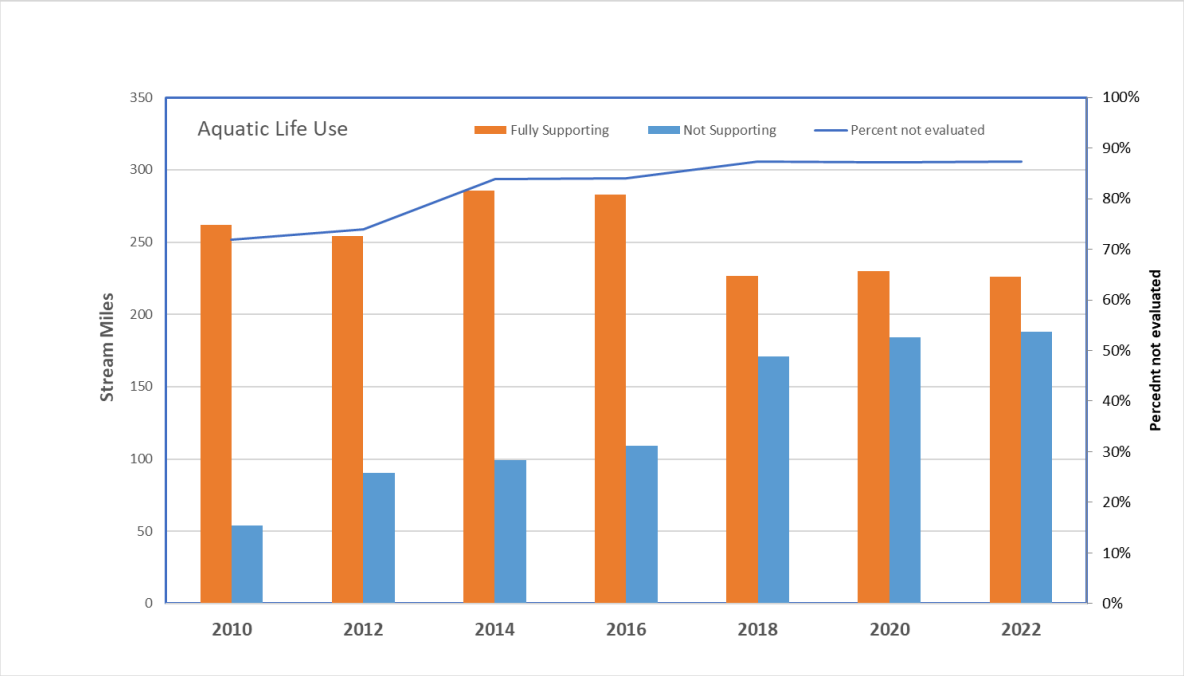
Review and prioritize stream selection criteria - scale 0-3, low to high

ID	Criteria to Consider for DEQ Nomination	Importance (group input) Scale: 0-3	Total	Final Weight (avg)
A	Is there potential for habitat restoration or conservation work at this site?			
B	Is the stream at risk for future impairment (e.g., rapid development, runoff sources)?			
C	Does the site meet DEQ's nomination requirements?			
D	Is the stream currently listed as impaired for aquatic life?			
E	Is the stream easily accessible for volunteers and staff?			
F	Does the stream show signs of chloride (salt) pollution or conductivity spikes?			
G	Do we have existing or historic benthic data at this site?			
H	Does the site align with LWC program goals (e.g., filling regional gaps, education, monitoring known pollution sources, landowner partnerships, documenting healthy streams)?			
I	Could the site support community engagement, youth education, or public programming?			
J	Is the site centrally located to maximize volunteer participation and visibility?			

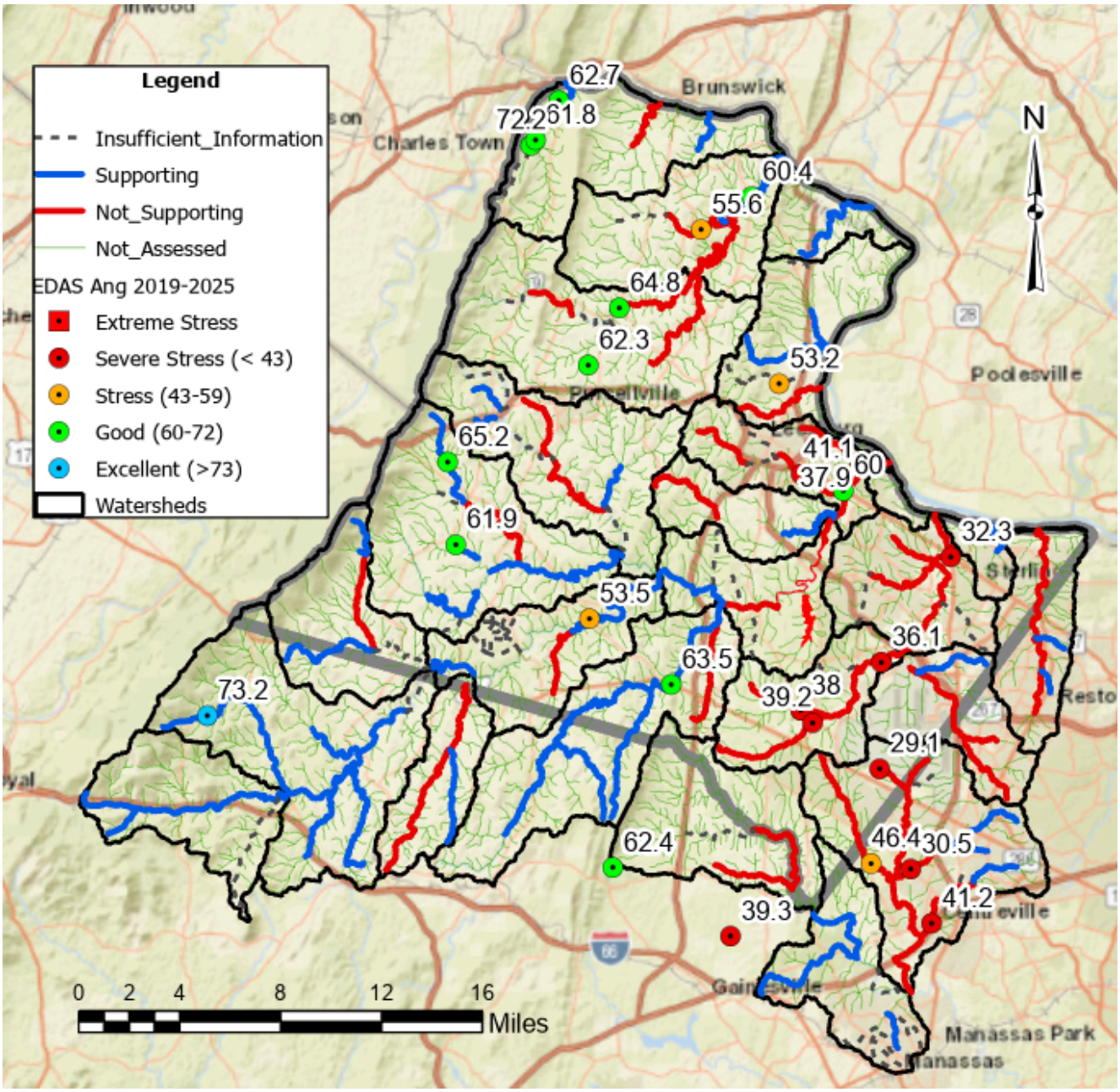
Final Scores of Streams Nominated for DEQ Monitoring	
1	Sycolin Creek – Final Weighted Score: 69
2	Elklick Run - Final Weighted Score: 67.5
3	Russell Branch - Final Weighted Score: 66.
4	North Fork Catoctin Creek - Final Weighted Score: 66.5
5	Unnamed Tributary to Limestone Branch - Final Weighted Score: 66.5

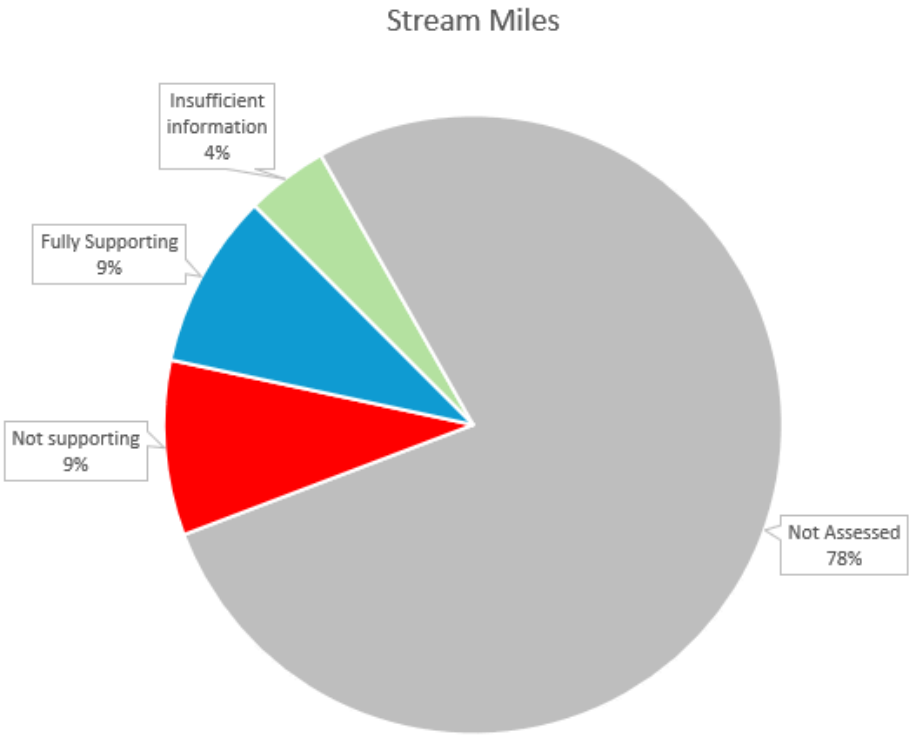
This year we modified the criteria from previous years. The detailed rating scores are provided in the Appendix.

We understand that only a limited percentage of the stream miles in Loudoun County have been assessed for aquatic life use through benthic monitoring of the macroinvertebrate community in the streams. The percentage changed from 30% to about 13% when DEQ changed to a higher density of streams. We understand that VA DEQ began stream monitoring in Loudoun County in 1994.

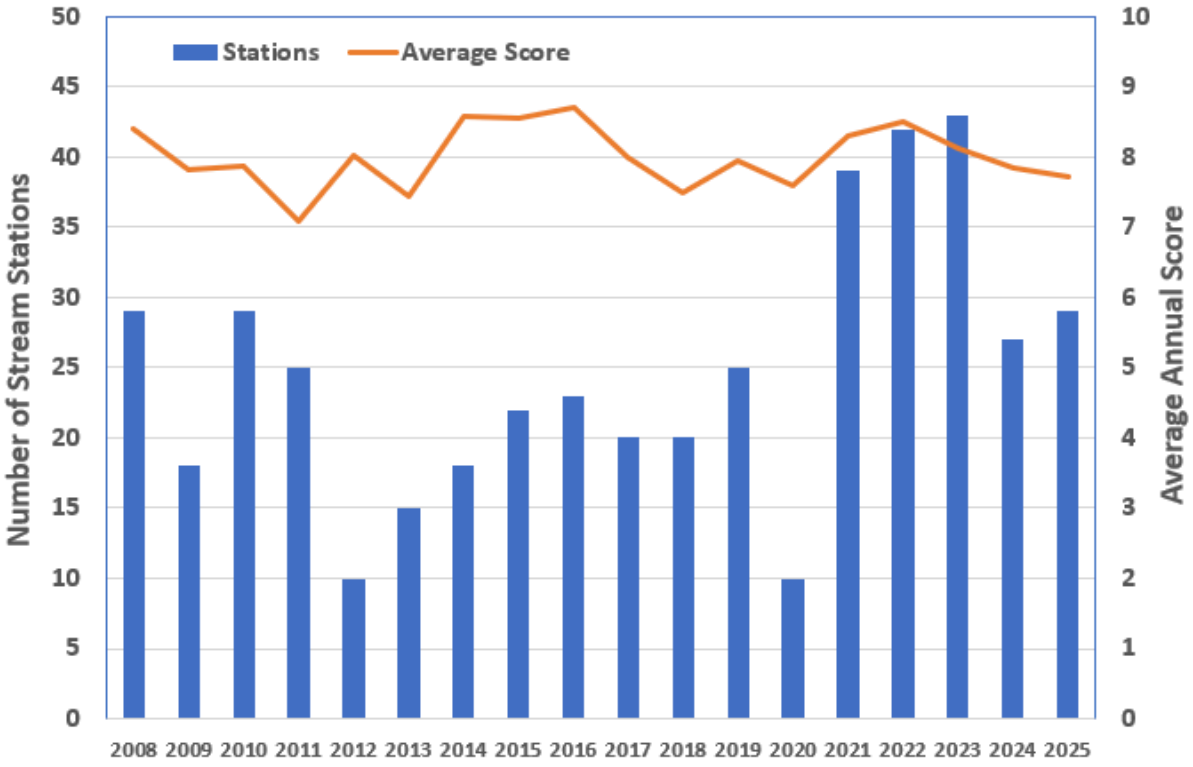


Using the extended watershed, the 2024 Water Quality Assessment and the 6-year window averages are shown below

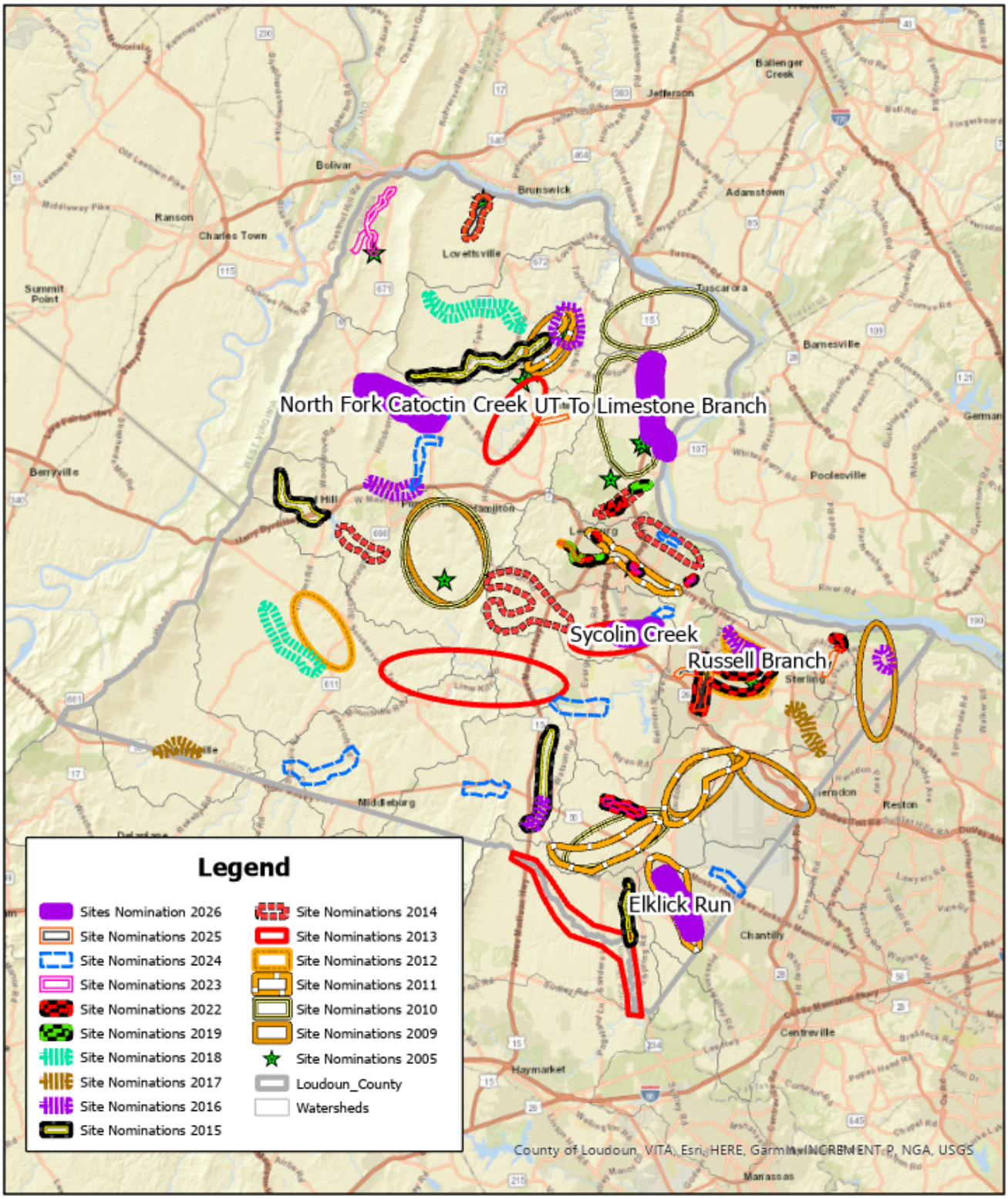

Legend
Insufficient_Information
Supporting
Not_Supporting
Not_Assessed
EDAS Ang 2019-2025
Extreme Stress
Severe Stress (< 43)
Stress (43-59)
Good (60-72)
Excellent (>73)
Watersheds
N
62.7
61.8
72.2
Brunswick
Charles Town
60.4
55.6
64.8
62.3
53.2
Poolesville
65.2
41.1
37.9
60
61.9
32.3
53.5
36.1
63.5
73.2
39.2
38
29.1
62.4
46.4
30.5
41.2
39.3
0 2 4 8 12 16
Miles
Manassas Park
Manassas



Over the years the number of sites in Loudoun and contributing subwatersheds has varied in which a site is typically monitored in both the spring and fall as VA DEQ requires that two benthic sampling be conducted to be included in the water quality assessment as shown in this chart.



We have submitted nominations to DEQ for many years as shown below. Our goal has been to be both selective and responsive to changing land development patterns.



Based on DEQ's water assessment, we also observe that the number of stream miles in the Loudoun County region continues to increase every 2 years.

In our review of available data, we have worked with DEQ's EDAS Family and Genus MS Access "PROBMON data and constructed six-year data windows of the average SCI scores (data provided per email request 3/19/2025). We have examined a comprehensive DEQ-approved Loudoun County Stream assessment, conducted in the spring of 2009 (https://loudounwatershedwatch.org/Loudoun_County_Reports/2009_Stream_Assessment_Report_FINAL.PDF). The County data provides a one-time comprehensive coverage at 200 locations.

The goal of our site nominations is to suggest stream reaches that in our opinion are strategic to support identification of both "healthy" and potentially "impaired" (for aquatic life use) segments. Based on the 2009 Loudoun County stream assessment, 78% of the streams are statistically under stress or severe stress and would be designated as impaired, however, even with 200 monitoring events from the spring of 2009, this comprehensive survey does not provide sufficient coverage of all streams in Loudoun as the goal of the study was an overall assessment and was not designed to analyze each and every segment. Furthermore, the sampling was a one-time event, and VA DEQ requires at least two events during the sampling window of the assessment cycle.

Regarding bacteria monitoring, in January 2026, we have partnered with the RiverTrends program of the Alliance for the Chesapeake bay to begin monthly *E. coli* monitoring using R-cards at six sites in Leesburg (one on Dry Mill Branch, two on Town Branch, and three on Tuscarora Creek) and this summer will be conducting weekly *E. coli* monitoring using R-cards at 4 sites in Leesburg (one on Town Branch, two on Tuscarora Creek, and one on Goose Creek).

Loudoun Wildlife Conservancy uses the Virginia Save Our Streams (VA SOS) protocol for biological monitoring of stream health, so our data is accepted by DEQ as Level 2 data. Our stream monitoring program coordinator is both a VA SOS certified monitor and certified trainer.

Loudoun Wildlife currently monitors 30 stream sites around the county – over five times the number of sites we monitored in 2019. Loudoun Wildlife currently has 33 VA SOS certified monitors on our Stream Team.

Loudoun Wildlife became a partner organization of the Izaak Walton League of America's Salt Watch program in 2021. Since first collecting baseline data in the fall of 2021, we have collected over 2,900 chloride data points at 96 stream sites. This information is uploaded to the Clean Water Hub.

In August of 2023, Loudoun Wildlife partnered with the RiverTrends program of the Alliance for the Chesapeake Bay to begin conducting monthly chemical monitoring at six benthic sites along Tuscarora Creek and Town Branch in Leesburg. Our 13 volunteers, including 9 RiverTrends certified monitors, have collected over 4,100 data points on parameters including temperature, dissolved oxygen, pH, water clarity, nitrate, phosphate, conductivity, and other physical characteristics of the stream site. This information is uploaded to the Chesapeake Monitoring Cooperative.

We look forward to your response and continued efforts to evaluate stream health in Loudoun County.

Respectfully submitted,

Amy Ulland, Loudoun Wildlife Conservancy and

David Ward, Loudoun Watershed Watch

This letter and others are posted at
https://loudounwatershedwatch.org/subitem6_3.html

Site 1: Sycolin Creek

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date:** 4/27/2026

Mailing Address: PO Box 1892

City: Leesburg **State:** VA **Zip:** 20177

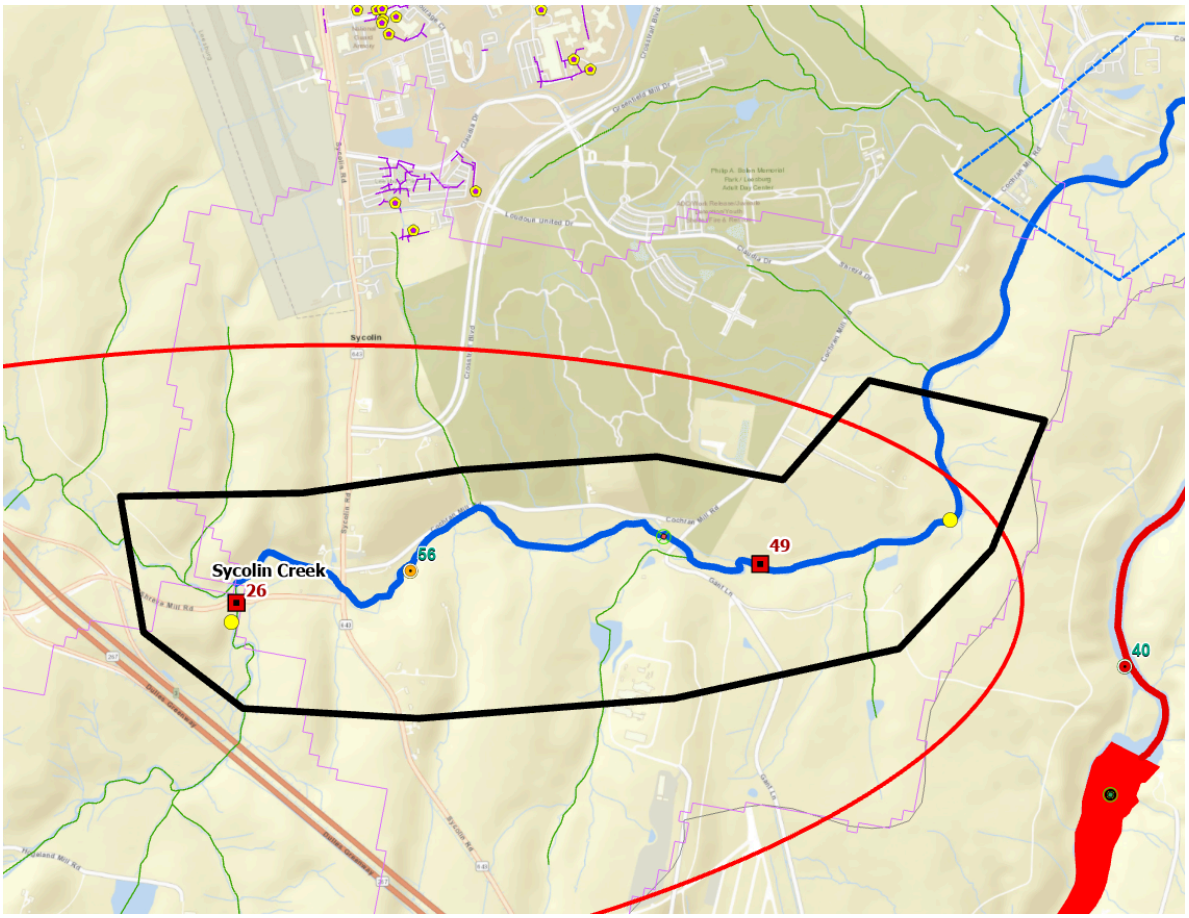
E-mail address: aulland@loudounwildlife.org

Home telephone: _____ **Business telephone:** (571) 293-1696

(1) Name of the water body or water bodies proposed for monitoring:

Sycolin Creek

(2) Site map



(3) Monitoring objective.

The stream reach is undergoing nearby development and will continue to experience further development closer to the actual stream.

4) Water quality data are integrated into map application.

There are several sites from the 2009 Loudoun County Stream Assessment, listed below from upstream in the west moving downstream**.**

Loudoun County 2009 Habitat - LOGC-213-H-2009

SiteName	LOGC-213-H-2009
DEQ_SiteName	<Null>
Date_	7/24/2009
FinishTime	12/30/1899 1:30:00 PM
ProblemNoted	Y
Temp_C	25.4
DO	9.6
Conduct	0.245
ph	7.98
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	SMALL AMOUNT OF LARGE-SIZED TRASH ITEM IN STREAM NEAR SHREVE MILL RD CROSSING. FENCE STREAM FOR CATTLE (SEE PHOTO 0878) HAS FALLE AND NOW LAYS ACROSS STREAM CHANNEL. IT CC BACK UP: DEBRIS CAUSING A JAM/STREAM BLOCK
EpiFSub_AvailCov	8
Embed	7
Velocity_DepReg	14
SedDepo	11
ChanFlowStat	19
ChanAlter	15
FreqRif	13
BankStab_Left	4
BankStab_Right	5
BankStab_Total	9
VegProtect_Left	7
VegProtect_Right	7
VetProtect_Total	14
RipVegZonWid_Left	7
RipVegZonWid_Right	5
RipVegZonWid_Total	12
Grad_Total	122
RBP_Rating	Suboptimal

Loudoun County 2009 Habitat - LOGC-260-R-2009

SiteName	LOGC-260-R-2009
DEQ_SiteName	<Null>
Date_	5/14/2009
FinishTime	12/30/1899 2:00:00 PM
ProblemNoted	Y
Temp_C	17.4
DO	9.9
Conduct	0.216
ph	7.89
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Marginal
Comments	Lots of Corbicula shells, no live ones. Lots of erosior exposing roots of trees along banks, next significant even could wien the stream by 4-5m. There is a tree and a zipline, and evidence of lots of stream use by landowner. Should be willing to help with preservin
EpiFSub_AvailCov	16
Embed	13
Velocity_DepReg	12
SedDepo	11
ChanFlowStat	19
ChanAlter	18
FreqRif	18
BankStab_Left	2
BankStab_Right	2
BankStab_Total	4
VegProtect_Left	3
VegProtect_Right	7
VetProtect_Total	10
RipVegZonWid_Left	3
RipVegZonWid_Right	8
RipVegZonWid_Total	11
Grad_Total	132
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - LOGC-260-R-2009

SiteName	LOGC-260-R-2009
DEQ_SiteName	<Null>
VSCI	55.689572
Assmt_Category	Stress

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Loudoun County 2009 Habitat - LOGC-217-H-2009

SiteName	LOGC-217-H-2009
DEQ_SiteName	<Null>
Date_	6/4/2009
FinishTime	12/30/1899 11:15:00 AM
ProblemNoted	Y
Temp_C	18.4
DO	8.1
Conduct	0.176
ph	7.54
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	Eagle and mink around the area, herons too. Cattle and paintballers have direct access to stream. Area is very rocky, rocks actually wash up onto outer bends like natural rip-rap. Water is turbid so can't really see if there is biota in the stream bed.
EpiFSub_AvailCov	15
Embed	10
Velocity_DepReg	18
SedDepo	9
ChanFlowStat	8
ChanAlter	14
FreqRif	18
BankStab_Left	6
BankStab_Right	6
BankStab_Total	12
VegProtect_Left	3
VegProtect_Right	6
VetProtect_Total	9
RipVegZonWid_Left	2
RipVegZonWid_Right	5
RipVegZonWid_Total	7
Grad_Total	120
RBP_Rating	Suboptimal

Site 2: Elklick Run

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date: 4/27/2026**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

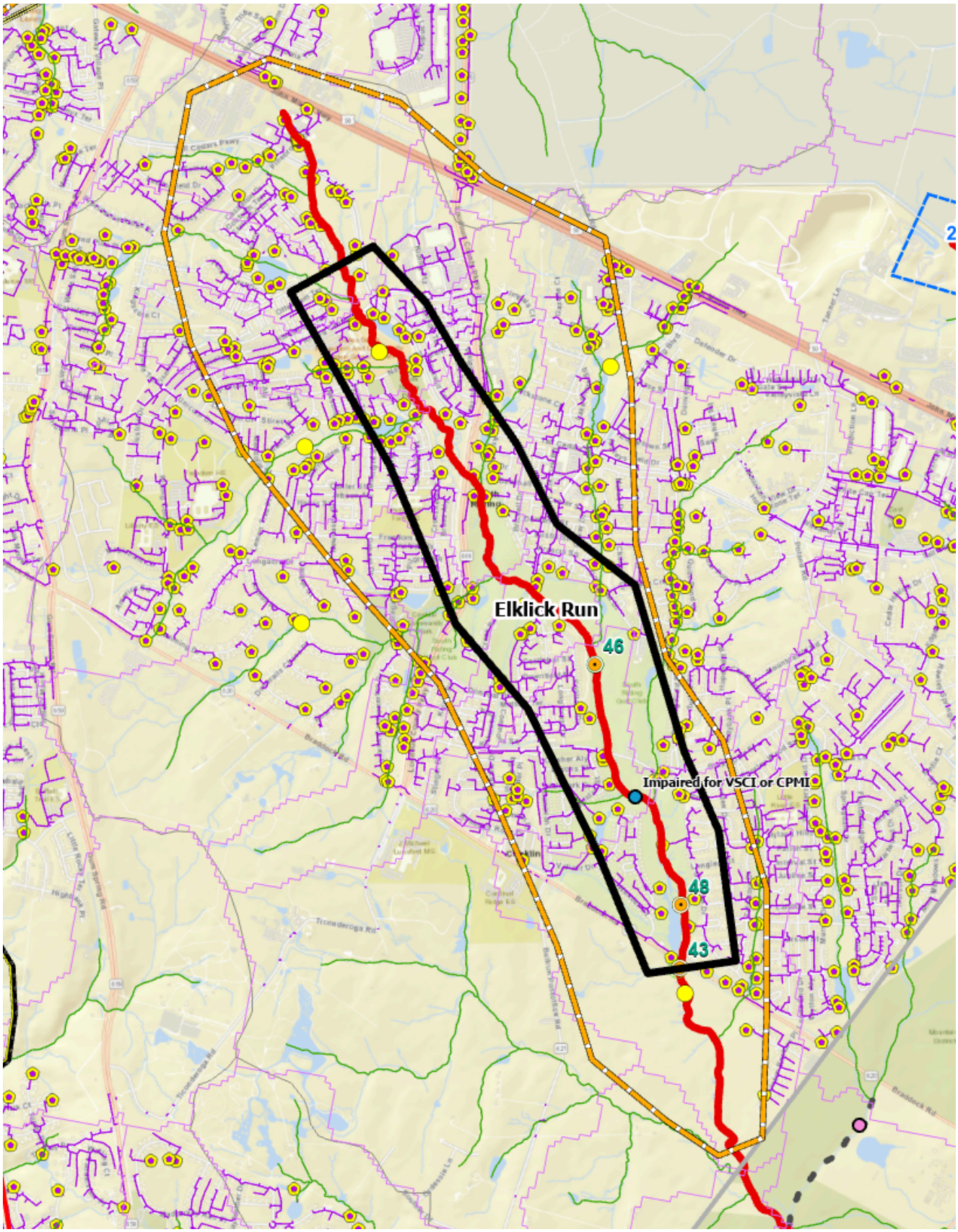
E-mail address: aulland@loudounwildlife.org

Home telephone: **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

Elklick Run

(2) Site map


Elklick Run
46
Impaired for VSCI or CPMI
48
43

(3) Monitoring objective.

The stream is within highly developed area with dozens of stormwater outfalls discharging directly into the creek. The objective is to validate the historic benthic and habitat data and affirm impairments for aquatic life use.

(4) Water quality data are integrated into map application.

There are several sites from the 2009 Loudoun County Stream Assessment, listed below from upstream in the west moving downstream**.**

Loudoun County 2009 Habitat - CUBR-202-H-2009

SiteName	CUBR-202-H-2009
DEQ_SiteName	<Null>
Date_	6/26/2009
FinishTime	12/30/1899 2:45:00 PM
ProblemNoted	N
Temp_C	29.1
DO	8.1
Conduct	0.752
ph	7.68
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	trash present in stream in moderate amoun
EpiFSub_AvailCov	10
Embed	10
Velocity_DepReg	10
SedDepo	13
ChanFlowStat	12
ChanAlter	16
FreqRif	16
BankStab_Left	6
BankStab_Right	6
BankStab_Total	12
VegProtect_Left	6
VegProtect_Right	6
VetProtect_Total	12
RipVegZonWid_Left	5
RipVegZonWid_Right	3
RipVegZonWid_Total	8
Grad_Total	119
RBP_Rating	Suboptimal

Loudoun County 2009 Habitat - CUBR-305-R-2009

SiteName	CUBR-305-R-2009
DEQ_SiteName	<Null>
Date_	4/7/2009
FinishTime	12/30/1899 1:30:00 PM
ProblemNoted	N
Temp_C	10.6
DO	14
Conduct	0.636
ph	8.62
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Marginal
Comments	Less algae the two downstream sites
EpiFSub_AvailCov	15
Embed	12
Velocity_DepReg	15
SedDepo	14
ChanFlowStat	17
ChanAlter	19
FreqRif	19
BankStab_Left	6
BankStab_Right	7
BankStab_Total	13
VegProtect_Left	10
VegProtect_Right	10
VetProtect_Total	20
RipVegZonWid_Left	9
RipVegZonWid_Right	9
RipVegZonWid_Total	18
Grad_Total	162
RBP_Rating	Optimal

Loudoun County 2009 Benthic - CUBR-305-R-2009

SiteName	CUBR-305-R-2009
DEQ_SiteName	<Null>
VSCI	46.350852
Assmt_Category	Stress

Loudoun County 2009 Habitat - CUBR-302-R-2009

SiteName	CUBR-302-R-2009
DEQ_SiteName	<Null>
Date_	4/7/2009
FinishTime	12/30/1899 10:30:00 AM
ProblemNoted	N
Temp_C	9.9
DO	13.2
Conduct	0.631
ph	8.44
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Poor
Comments	Golf course bridge just u/s of 0m. High flows evi erosion and matted vegetation.
EpiFSub_AvailCov	16
Embed	8
Velocity_DepReg	13
SedDepo	13
ChanFlowStat	17
ChanAlter	19
FreqRif	18
BankStab_Left	8
BankStab_Right	8
BankStab_Total	16
VegProtect_Left	8
VegProtect_Right	8
VetProtect_Total	16
RipVegZonWid_Left	4
RipVegZonWid_Right	8
RipVegZonWid_Total	12
Grad_Total	148
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - CUBR-302-R-2009

SiteName	CUBR-302-R-2009
DEQ_SiteName	<Null>
VSCI	47.837878
Assmt_Category	Stress

Loudoun County 2009 Habitat - CUBR-304-R-2009

SiteName	CUBR-304-R-2009
DEQ_SiteName	<Null>
Date_	4/7/2009
FinishTime	12/30/1899 11:30:00 AM
ProblemNoted	N
Temp_C	9.5
DO	11.8
Conduct	0.619
ph	7.97
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Poor
Comments	very algae laden, road culvert top 30m, s drainage trip on RB at mid pt.
EpiFSub_AvailCov	8
Embed	8
Velocity_DepReg	16
SedDepo	19
ChanFlowStat	17
ChanAlter	15
FreqRif	16
BankStab_Left	8
BankStab_Right	8
BankStab_Total	16
VegProtect_Left	6
VegProtect_Right	6
VetProtect_Total	12
RipVegZonWid_Left	6
RipVegZonWid_Right	6
RipVegZonWid_Total	12
Grad_Total	139
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - CUBR-304-R-2009

SiteName	CUBR-304-R-2009
DEQ_SiteName	<Null>
VSCI	42.911531
Assmt_Category	Stress

6

Site 3: Russell Branch

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name : Amy Ulland **Date :** 4/27/2026

Mailing Address: PO Box 1892

City: Leesburg **State:** VA **Zip:** 20177

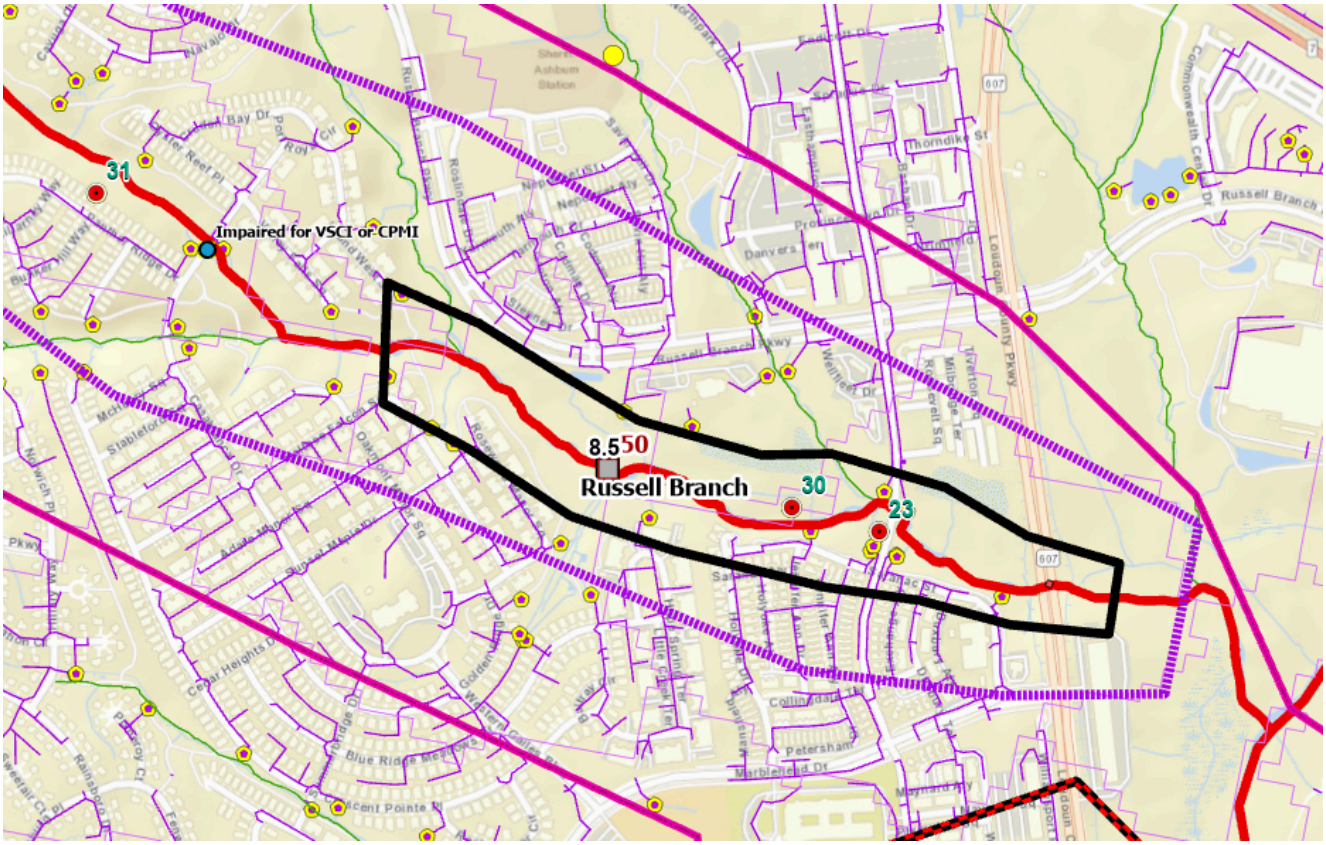
E-mail address: aulland@loudounwildlife.org

Home telephone: _____ **Business telephone:** (571) 293-1696

(1) Name of the water body or water bodies proposed for monitoring:

Russell Branch

(2) Site map



(3) Monitoring objective.

The site is within highly developed residential area with storm drains which outfall directly into the waterway. Historic monitoring from 2009 suggest low VSCI scores. The objective is to verify this with DEQ benthic data.

(4) Water quality data are integrated into map application.

There are several sites from the 2009 Loudoun County Stream Assessment, listed below from upstream in the west moving downstream**.**

Loudoun County 2009 Habitat - BROA-238-R-2009

SiteName	BROA-238-R-2009
DEQ_SiteName	<Null>
Date_	4/6/2009
FinishTime	12/30/1899 3:00:00 PM
ProblemNoted	N
Temp_C	14.5
DO	8.2
Conduct	0.496
ph	8
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Good
Comments	<Null>
EpiFSub_AvailCov	14
Embed	15
Velocity_DepReg	10
SedDepo	11
ChanFlowStat	11
ChanAlter	18
FreqRif	16
BankStab_Left	6
BankStab_Right	8
BankStab_Total	14
VegProtect_Left	6
VegProtect_Right	8
VetProtect_Total	14
RipVegZonWid_Left	9
RipVegZonWid_Right	8
RipVegZonWid_Total	17
Grad_Total	140
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - BROA-238-R-2009

SiteName	BROA-238-R-2009
DEQ_SiteName	<Null>
VSCI	30.224342
Assmt_Category	Severe Stress

Loudoun County 2009 Habitat - BROA-214-R-2009

SiteName	BROA-214-R-2009
DEQ_SiteName	<Null>
Date_	4/6/2009
FinishTime	12/30/1899 3:30:00 PM
ProblemNoted	N
Temp_C	14.5
DO	8.6
Conduct	0.496
ph	8.1
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Good
Comments	Stream had channelized under bridge but has nat Riffles newly established. Bridge is new constructi still in progress.
EpiFSub_AvailCov	15
Embed	15
Velocity_DepReg	14
SedDepo	13
ChanFlowStat	15
ChanAlter	8
FreqRif	16
BankStab_Left	7
BankStab_Right	7
BankStab_Total	14
VegProtect_Left	5
VegProtect_Right	5
VetProtect_Total	10
RipVegZonWid_Left	7
RipVegZonWid_Right	7
RipVegZonWid_Total	14
Grad_Total	134
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - BROA-214-R-2009

SiteName	BROA-214-R-2009
DEQ_SiteName	<Null>
VSCI	22.507482
Assmt_Category	Severe Stress

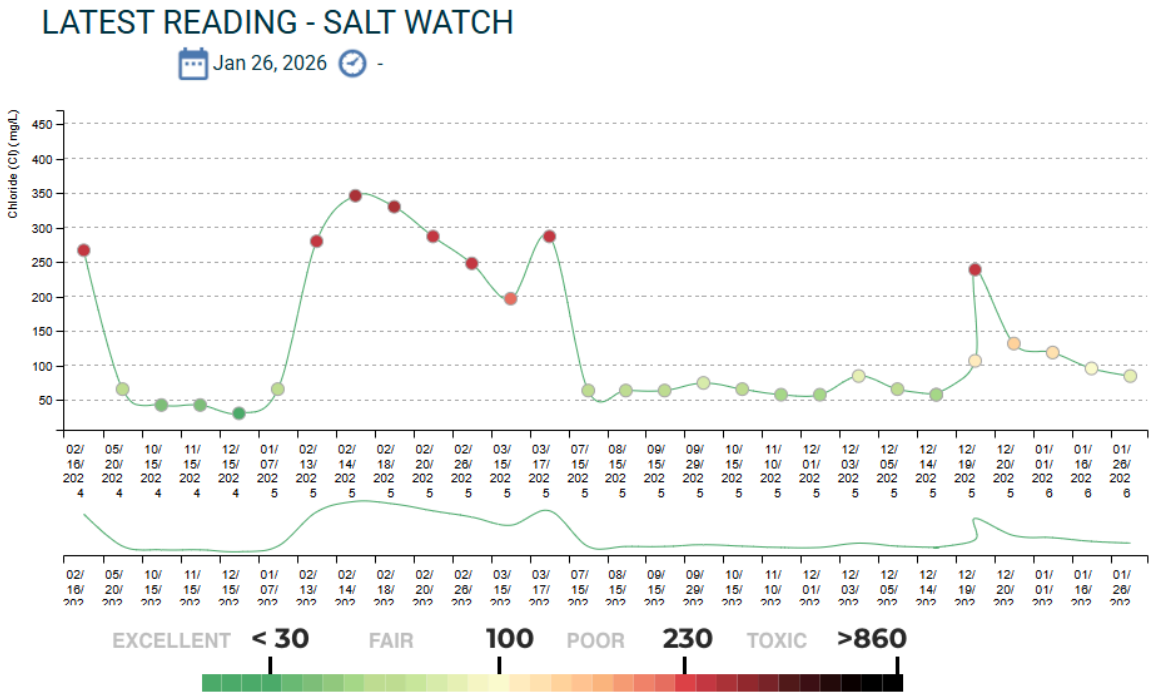
Salt Watch

One location with elevated winter levels

Salt_Watch_2024_2025 - RUSSEBRA0.8

Site_Name	RUSSEBRA0.8
Average_Cl	49.8
Min_Cl	31
Max_Cl	66
Count_CL	5
Description	In Potomac Green neighborhood; E of Rosewood Manor Sq on end house by corner, go through mowed water management area and cross 20 ft tree line, walk upstream to riffles just downstream of concrete area in middle of stream.
Stream	Russell Branch
City	Ashburn
Site_URL	https://www.cleanwaterhub.org/site/38115
Source	Small stream/creek
Organization	Loudoun Wildlife Conservancy; Salt Watch; VA SOS

cleanwaterhub.org/site/38115



Site 4: North Fork Catoctin Creek

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name : Amy Ulland **Date : 4/27/2026**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

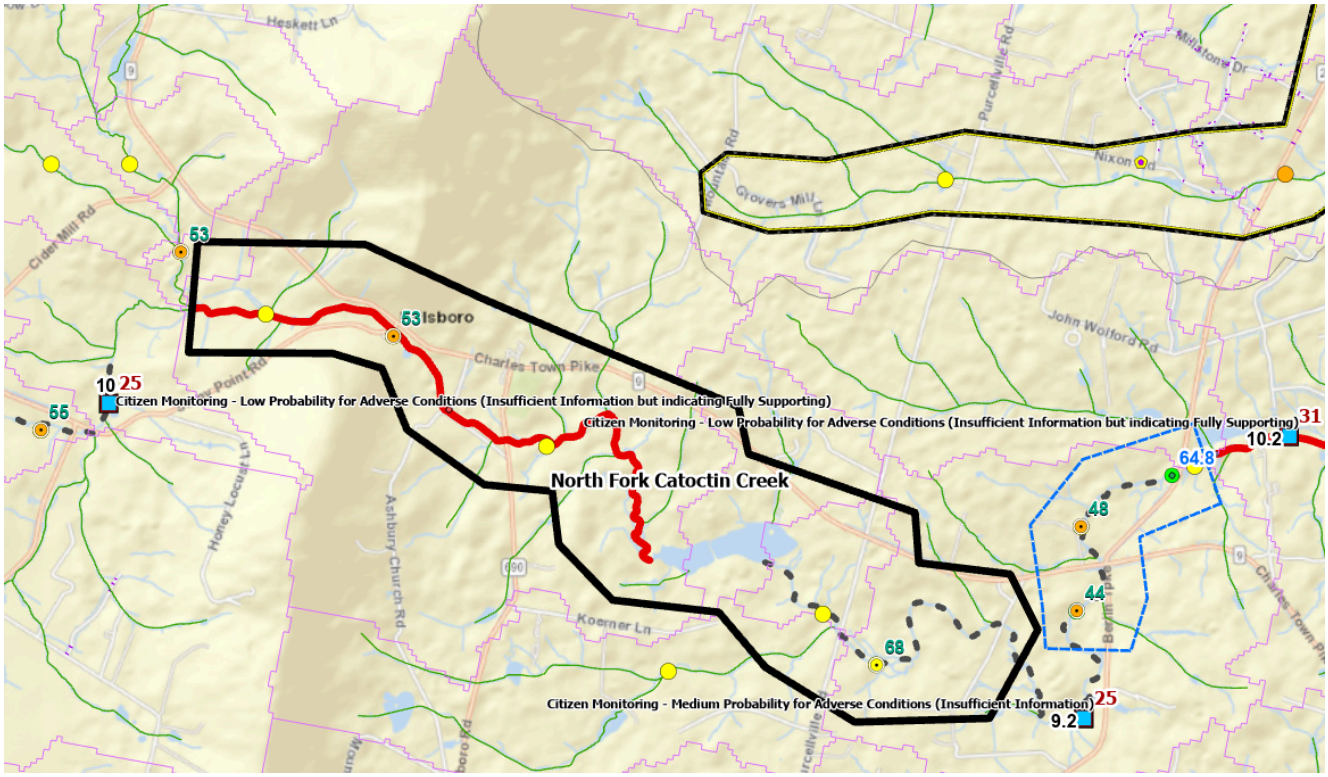
E-mail address: aulland@loudounwildlife.org

Home telephone: _____ **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

North Fork Catoctin Creek

(2) Site map



(3) Monitoring objective.

The site is in a rural area with farms and livestock. This historic monitoring is mixed and the large pond has been known to change over the years. The objective is to better evaluate the conditions downstream of the ponds.

(4) Water quality data are integrated into map application.

There are several sites from the 2009 Loudoun County Stream Assessment, listed below from upstream in the west moving downstream**.**

Loudoun County 2009 Habitat - NFCC-305-H-2009

SiteName	NFCC-305-H-2009
DEQ_SiteName	<Null>
Date_	6/29/2009
FinishTime	12/30/1899 2:00:00 PM
ProblemNoted	Y
Temp_C	21.9
DO	8.5
Conduct	0.127
ph	7.27
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	Cattle have access to stream
EpiFSub_AvailCov	16
Embed	13
Velocity_DepReg	15
SedDepo	11
ChanFlowStat	16
ChanAlter	11
FreqRif	16
BankStab_Left	8
BankStab_Right	8
BankStab_Total	16
VegProtect_Left	5
VegProtect_Right	5
VetProtect_Total	10
RipVegZonWid_Left	2
RipVegZonWid_Right	2
RipVegZonWid_Total	4
Grad_Total	128
RBP_Rating	Suboptimal

Loudoun County 2009 Habitat - NFCC-325-R-2009

SiteName	NFCC-325-R-2009
DEQ_SiteName	<Null>
Date_	5/26/2009
FinishTime	12/30/1899 12:00:00 PM
ProblemNoted	N
Temp_C	17.5
DO	9.2
Conduct	0.143
ph	7.49
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Good
Comments	<Null>
EpiFSub_AvailCov	16
Embed	15
Velocity_DepReg	13
SedDepo	17
ChanFlowStat	17
ChanAlter	14
FreqRif	18
BankStab_Left	9
BankStab_Right	9
BankStab_Total	18
VegProtect_Left	8
VegProtect_Right	6
VetProtect_Total	14
RipVegZonWid_Left	9
RipVegZonWid_Right	4
RipVegZonWid_Total	13
Grad_Total	155
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - NFCC-325-R-2009

SiteName	NFCC-325-R-2009
DEQ_SiteName	<Null>
VSCI	53.101903
Assmt_Category	Stress

Loudoun County 2009 Habitat - NFCC-304-H-2009

SiteName	NFCC-304-H-2009
DEQ_SiteName	<Null>
Date_	6/29/2009
FinishTime	12/30/1899 1:30:00 PM
ProblemNoted	Y
Temp_C	21.2
DO	8.6
Conduct	0.134
ph	7.55
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	<Null>
EpiFSub_AvailCov	15
Embed	14
Velocity_DepReg	16
SedDepo	13
ChanFlowStat	19
ChanAlter	16
FreqRif	19
BankStab_Left	8
BankStab_Right	6
BankStab_Total	14
VegProtect_Left	7
VegProtect_Right	7
VetProtect_Total	14
RipVegZonWid_Left	5
RipVegZonWid_Right	8
RipVegZonWid_Total	13
Grad_Total	153
RBP_Rating	Suboptimal

Loudoun County 2009 Habitat - NFCC-302-H-2009

SiteName	NFCC-302-H-2009
DEQ_SiteName	<Null>
Date_	7/9/2009
FinishTime	12/30/1899 11:30:00 AM
ProblemNoted	N
Temp_C	23.6
DO	8.5
Conduct	0.164
ph	7.5
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	CATTLE IN STREAM
EpiFSub_AvailCov	12
Embed	11
Velocity_DepReg	10
SedDepo	9
ChanFlowStat	13
ChanAlter	16
FreqRif	16
BankStab_Left	4
BankStab_Right	3
BankStab_Total	7
VegProtect_Left	3
VegProtect_Right	3
VetProtect_Total	6
RipVegZonWid_Left	6
RipVegZonWid_Right	6
RipVegZonWid_Total	12
Grad_Total	112
RBP_Rating	Suboptimal

Loudoun County 2009 Habitat - NFCC-305-R-2009

SiteName	NFCC-305-R-2009
DEQ_SiteName	<Null>
Date_	5/13/2009
FinishTime	12/30/1899 1:00:00 PM
ProblemNoted	N
Temp_C	17.5
DO	11.2
Conduct	0.132
ph	7.42
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Good
Comments	Currently no cattle- but they have direct access to st have been here recently. No understory shrubbery.
EpiFSub_AvailCov	17
Embed	15
Velocity_DepReg	10
SedDepo	14
ChanFlowStat	17
ChanAlter	18
FreqRif	17
BankStab_Left	6
BankStab_Right	2
BankStab_Total	8
VegProtect_Left	6
VegProtect_Right	5
VetProtect_Total	11
RipVegZonWid_Left	9
RipVegZonWid_Right	9
RipVegZonWid_Total	18
Grad_Total	145
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - NFCC-305-R-2009

SiteName	NFCC-305-R-2009
DEQ_SiteName	<Null>
VSCI	67.514585
Assmt_Category	Good

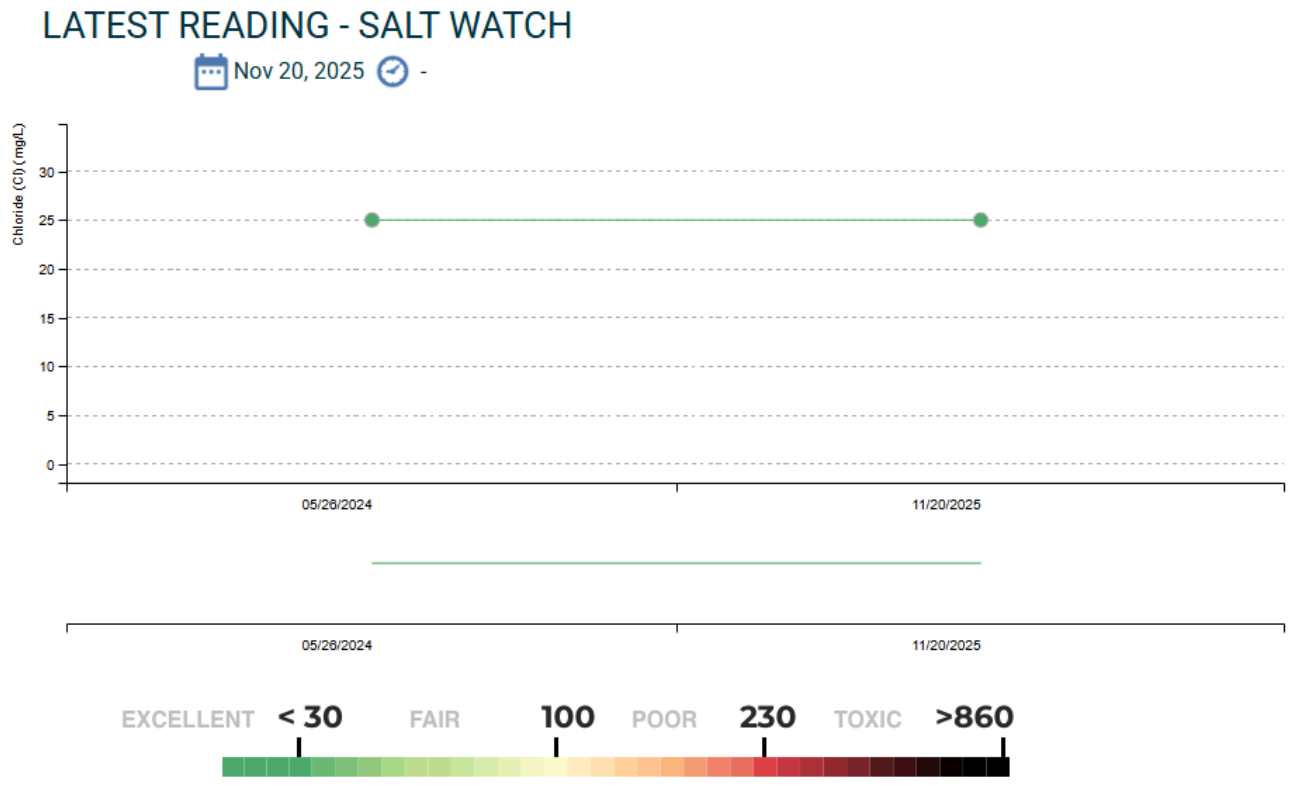
Salt Watch

Upstream is low.

Salt_Watch_2024_2025 - NORFORCATCRE14.8

Site_Name	NORFORCATCRE14.8
Average_Cl	25
Min_Cl	25
Max_Cl	25
Count_CL	1
Description	Private residence on Stony Point Rd
Stream	North Fork Catoctin Creek
City	Hillsboro
Site_URL	https://www.cleanwaterhub.org/site/11495
Source	Small stream/creek
Organization	VA SOS; Loudoun Wildlife Conservancy; Salt Watch

cleanwaterhub.org/site/11495

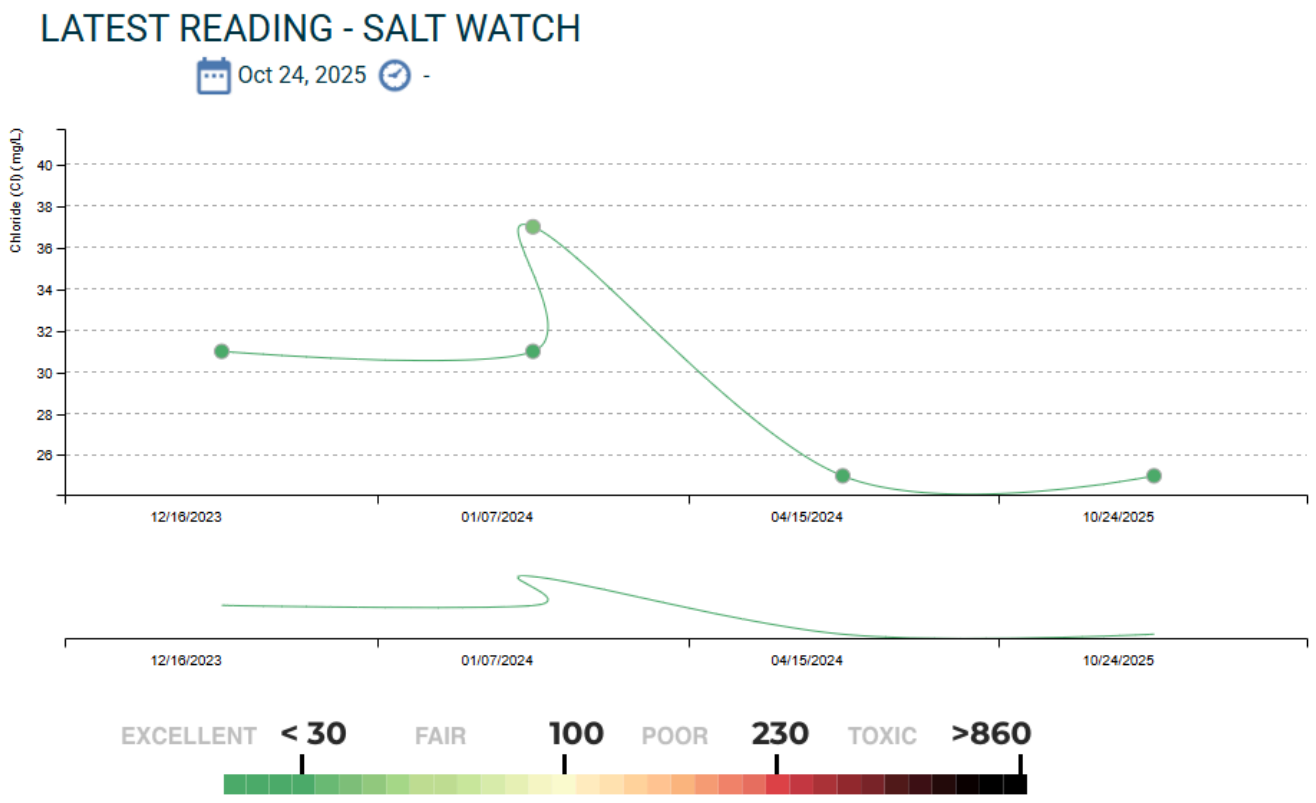


Downstream is slightly higher

Salt_Watch_2024_2025 - NORFORCATCRE5.33

Site_Name	NORFORCATCRE5.33
Average_Cl	31
Min_Cl	25
Max_Cl	37
Count_CL	4
Description	Czarnecki property on Grace Place
Stream	North Fork Catoctin Creek
City	Waterford
Site_URL	https://www.cleanwaterhub.org/site/12111
Source	Small stream/creek
Organization	Loudoun Wildlife Conservancy; VA SOS; Salt Watch

cleanwaterhub.org/site/12111



Site 5: Unnamed Tributary to Limestone Branch

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date: 4/27/2026**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

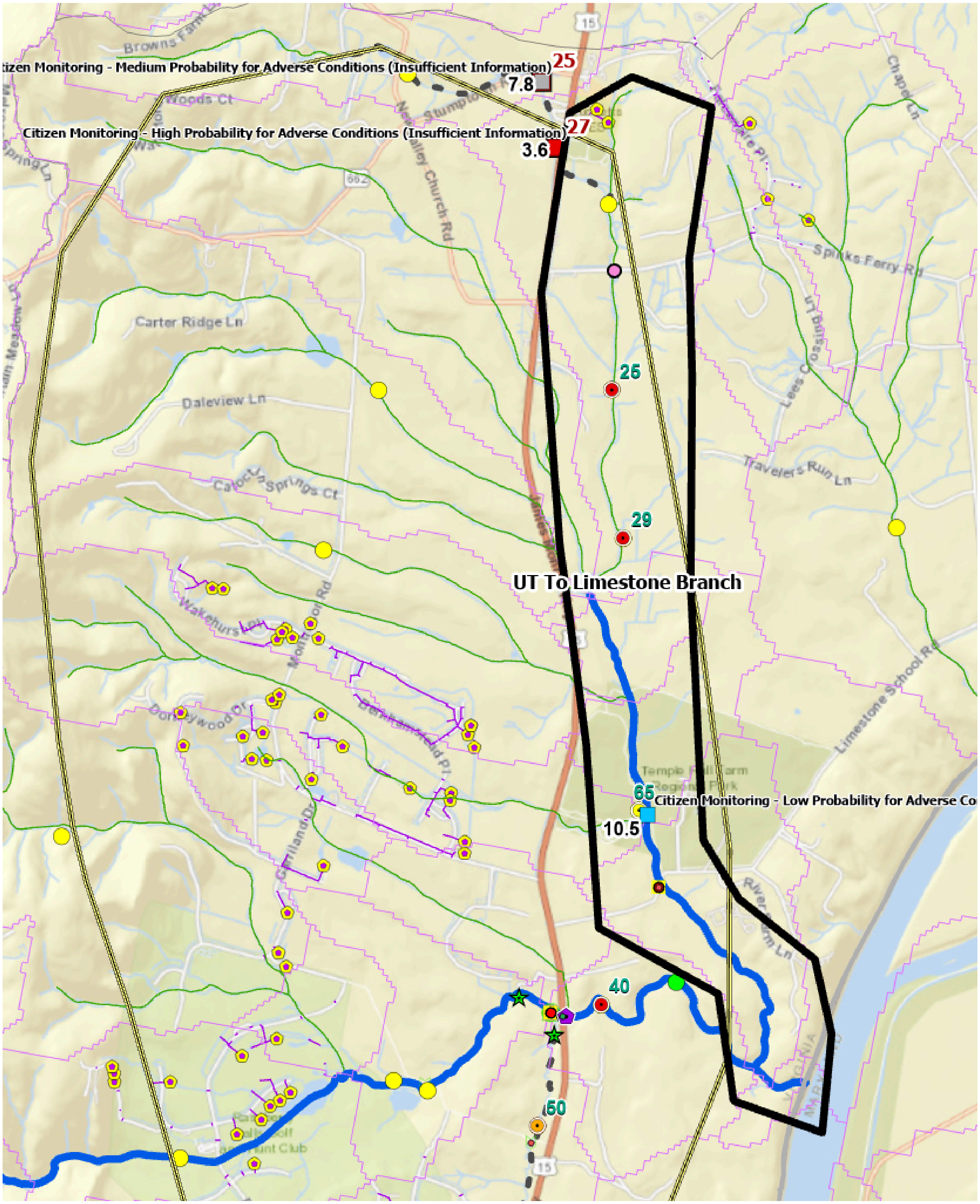
E-mail address: aulland@loudounwildlife.org

Home telephone: **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

Unnamed Tributary to Limestone Branch

(2) Site map


tizen Monitoring - Medium Probability for Adverse Conditions (Insufficient Information)
25
7.8
Citizen Monitoring - High Probability for Adverse Conditions (Insufficient Information)
27
3.6
25
29
UT To Limestone Branch
65
Citizen Monitoring - Low Probability for Adverse Co
10.5
40
50
Browns Farm
Woods Ct
Carter Ridge Ln
Daleview Ln
Spinks Ferry Rd
Travelers Run Ln
Limestone School Rd
Temple Hall Farm Regional Park
Riverfarm Ln

(3) Monitoring objective.

The site is in a rural area. The unnamed tributary appears to have good stream health in the downstream portion, but the historic benthic and habitat data upstream suggest that conditions are more stressed. The objective is to confirm that, unlike most streams, the upstream conditions are worse than downstream.

(4) Water quality data are integrated into map application.

There are several sites from the 2009 Loudoun County Stream Assessment, listed below from upstream in north, downstream**.**

Loudoun County 2009 Habitat - LIME-102-H-2009

SiteName	LIME-102-H-2009
DEQ_SiteName	<Null>
Date_	6/10/2009
FinishTime	12/30/1899 11:30:00 AM
ProblemNoted	N
Temp_C	17.6
DO	7.6
Conduct	0.249
ph	7.42
BenthicMethod	<Null>
RiffleQual	<Null>
Comments	Water seems cloudy. Very overgrown
EpiFSub_AvailCov	11
Embed	11
Velocity_DepReg	10
SedDepo	15
ChanFlowStat	19
ChanAlter	19
FreqRif	16
BankStab_Left	8
BankStab_Right	6
BankStab_Total	14
VegProtect_Left	8
VegProtect_Right	8
VetProtect_Total	16
RipVegZonWid_Left	8
RipVegZonWid_Right	8
RipVegZonWid_Total	16
Grad_Total	147
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - LIME-107-R-2009

SiteName	LIME-107-R-2009
DEQ_SiteName	<Null>
VSCI	25.315458
Assmt_Category	Severe Stress

Loudoun County 2009 Habitat - LIME-107-R-2009

SiteName	LIME-107-R-2009
DEQ_SiteName	<Null>
Date_	4/13/2009
FinishTime	12/30/1899 2:45:00 PM
ProblemNoted	N
Temp_C	19.8
DO	7.9
Conduct	0.154
ph	7.27
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Poor
Comments	THIN RIPARIAN BUFFER. HORSE PASTURE RESIDENTIAL ARE ADJACENT.
EpiFSub_AvailCov	7
Embed	6
Velocity_DepReg	7
SedDepo	8
ChanFlowStat	15
ChanAlter	12
FreqRif	8
BankStab_Left	7
BankStab_Right	7
BankStab_Total	14
VegProtect_Left	8
VegProtect_Right	7
VetProtect_Total	15
RipVegZonWid_Left	4
RipVegZonWid_Right	3
RipVegZonWid_Total	7
Grad_Total	99
RBP_Rating	Marginal

Loudoun County 2009 Habitat - LIME-106-R-2009

SiteName	LIME-106-R-2009
DEQ_SiteName	<Null>
Date_	4/13/2009
FinishTime	12/30/1899 12:20:00 PM
ProblemNoted	N
Temp_C	19.8
DO	7.9
Conduct	0.154
ph	7.27
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Poor
Comments	ALMOST NO RIPARIAN BUFFER ON LEFT BANK- ON RIGHT BANK
EpiFSub_AvailCov	11
Embed	10
Velocity_DepReg	11
SedDepo	10
ChanFlowStat	16
ChanAlter	13
FreqRif	8
BankStab_Left	8
BankStab_Right	8
BankStab_Total	16
VegProtect_Left	6
VegProtect_Right	6
VetProtect_Total	12
RipVegZonWid_Left	7
RipVegZonWid_Right	2
RipVegZonWid_Total	9
Grad_Total	116
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - LIME-106-R-2009

SiteName	LIME-106-R-2009
DEQ_SiteName	<Null>
VSCI	28.547652
Assmt_Category	Severe Stress

Loudoun County 2009 Habitat - LIME-205-R-2009

SiteName	LIME-205-R-2009
DEQ_SiteName	<Null>
Date_	4/10/2009
FinishTime	12/30/1899 4:20:00 PM
ProblemNoted	N
Temp_C	17.7
DO	10
Conduct	0.282
ph	7.61
BenthicMethod	Single Habitat (Riffle)
RiffleQual	Good
Comments	SITE IS ADJACENT TO REGIONAL PARK; A LOT OF GRA LAND & ANIMALS ARE PRESENT (COWS, BULLS, LLAM SHEEP).
EpiFSub_AvailCov	10
Embed	11
Velocity_DepReg	13
SedDepo	12
ChanFlowStat	16
ChanAlter	18
FreqRif	15
BankStab_Left	7
BankStab_Right	9
BankStab_Total	16
VegProtect_Left	7
VegProtect_Right	9
VetProtect_Total	16
RipVegZonWid_Left	5
RipVegZonWid_Right	7
RipVegZonWid_Total	12
Grad_Total	139
RBP_Rating	Suboptimal

Loudoun County 2009 Benthic - LIME-205-R-2009

SiteName	LIME-205-R-2009
DEQ_SiteName	<Null>
VSCI	64.767939
Assmt_Category	Good

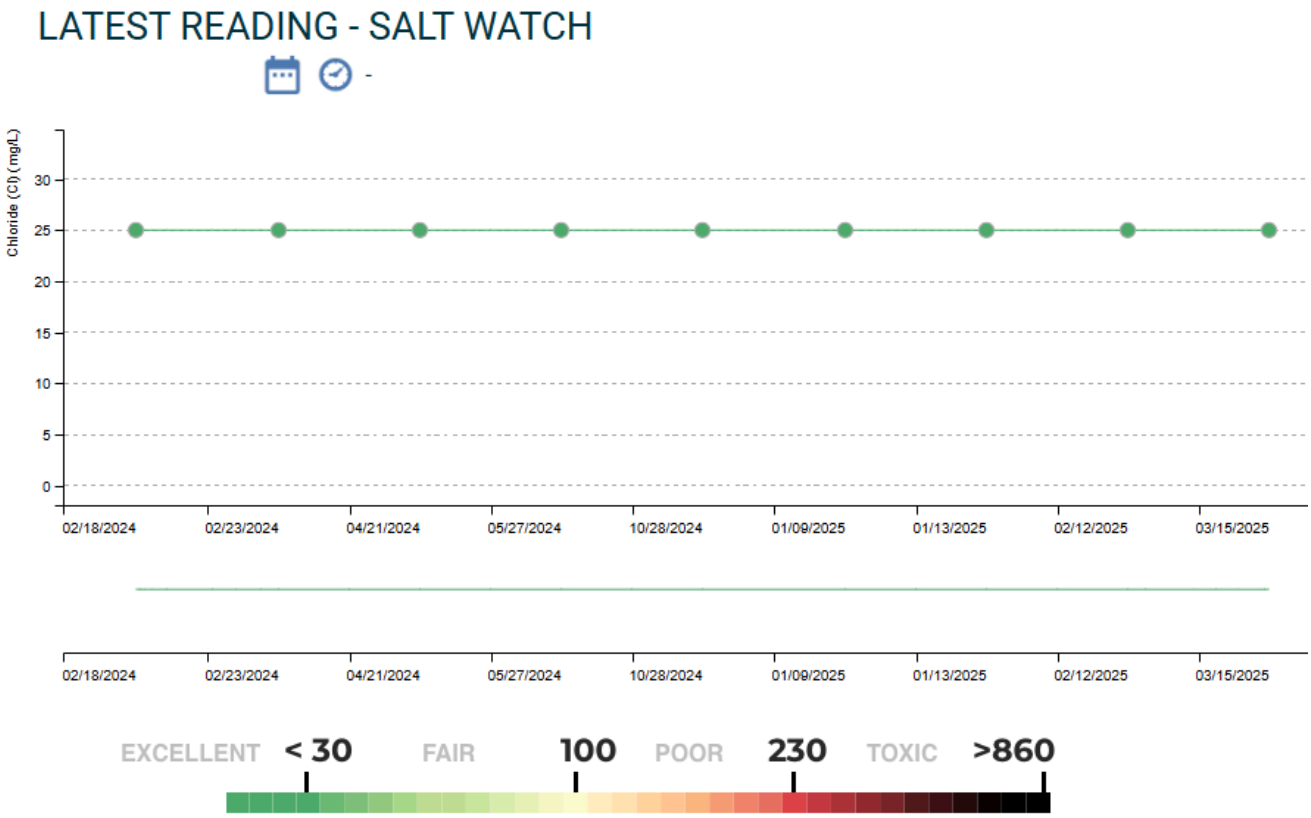
Salt Watch

There are two locations in the upstream reach with generally low levels.

Salt_Watch_2024_2025 - UNTLIMBRA5

Site_Name	UNTLIMBRA5
Average_Cl	25
Min_Cl	25
Max_Cl	25
Count_CL	7
Description	Behind workshop, before mobile home community
Stream	Unnamed Tributary of Limestone Branch
City	Lucketts
Site_URL	https://www.cleanwaterhub.org/site/12115
Source	Small stream/creek
Organization	Loudoun Wildlife Conservancy; VA SOS; Salt Watch

cleanwaterhub.org/site/12115



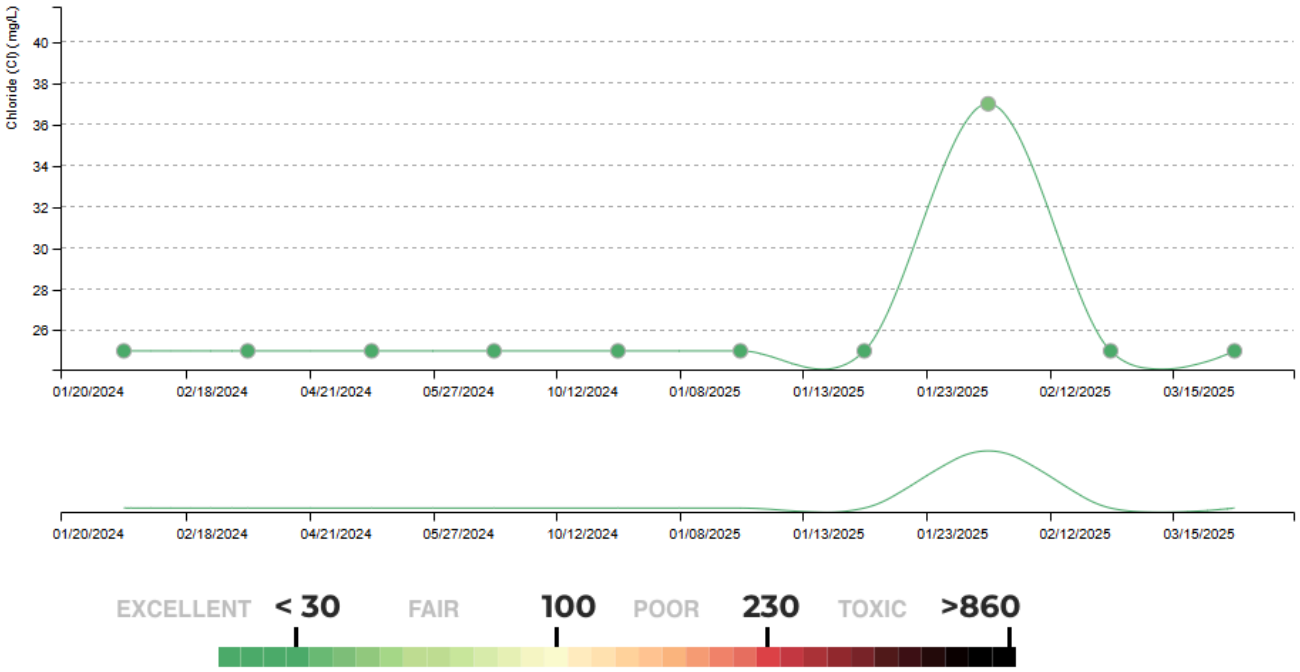
Salt_Watch_2024_2025 - UNTLIMBRA4.68

Site_Name	UNTLIMBRA4.68
Average_Cl	26.5
Min_Cl	25
Max_Cl	37
Count_CL	8
Description	Last riffle on property before Rt 15 bridge, located after mobile home community
Stream	Unnamed Tributary of Limestone Branch
City	Lucketts
Site_URL	https://www.cleanwaterhub.org/site/12114
Source	Small stream/creek
Organization	Loudoun Wildlife Conservancy; VA SOS; Salt Watch

cleanwaterhub.org/site/12114

LATEST READING - SALT WATCH

Mar 15, 2025 -



Appendix A: Detailed Rating Scores

Stream Evaluation Criteria	Weight	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
		Sycolin Creek		*Elklick Run*		*Russell Branch*		*N F Catoctin Creek*		*Un Trib Limestone*	
Is there potential for habitat restoration or conservation work at this site?	3	3	9	3	9	2	6	3	9	3	9
Is the stream at risk for future impairment (e.g., rapid development, runoff sources)?	3	3	9	3	9	3	9	3	9	3	9
Does the site meet DEQ's nomination requirements?	3	3	9	3	9	3	9	3	9	3	9
Is the stream currently listed as impaired for aquatic life?	2.75	3	8.25	3	9	3	8.25	3	8.25	3	8.25
Is the stream easily accessible for volunteers and staff?	2.5	3	7.5	3	7.5	3	7.5	3	7.5	3	7.5
Does the stream show signs of chloride (salt) pollution or conductivity spikes?	2.5	3	7.5	3	7.5	3	7.5	2	5	2	5
Do we have existing or historic benthic data at this site?	2.25	3	6.75	2	4.5	3	6.75	3	6.75	3	6.75
Does the site align with LWC program goals (e.g., filling regional gaps, education, monitoring known pollution sources, landowner partnerships, documenting healthy streams)?	2	3	6	3	6	3	6	3	6	3	6
Could the site support community engagement, youth education, or public programming?	2	3	6	3	6	3	6	3	6	3	6
Is the site centrally located to maximize volunteer participation and visibility?	1.5	3	4.5	3	4.5	3	4.5	2	3	2	3
Total of Weighted Scores:			**69**		**67.5**		**66**		**66.5**		**66.5**

Appendix B: Map Legend