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Rouge River Benthic Monitoring Program Fall 2025 Report

This report contains benthic macroinvertebrate sampling results from 46 Rouge tributary and river sites. The Fall Bug Hunt on October 11, 2025 had 15 teams that sampled 29 sites, and it was a beautiful fall day.

Groups that participated included Lawrence Tech University's Environmental Alliance student group; Wayne State University; the University of Michigan-Ann Arbor, and the Paul H. Young Chapter of Trout Unlimited. Additional sites were sampled during the Team Leader Training, and by Wayne County. Funding for the monitoring was provided by the communities of Beverly Hills, Farmington, Livonia, Northville Township, Novi, Plymouth, Plymouth Township, Southfield, Troy, Birmingham, Washtenaw County Water Resources, Michigan Department of Environment, Great Lakes, and Energy (EGLE), the United States Environmental Protection Agency Great Lakes Restoration Initiative, and the Michigan Clean Water Corps.



FRIENDS OF THE ROUGE BENTHIC MONITORING PROGRAM

FOTR's benthic monitoring program was started in 2001 to involve a large number of volunteers in monitoring the health of the watershed by sampling the creeks of the Rouge River. The types and number of benthic macroinvertebrates found can be used to assess water quality. Each team of volunteers samples two sites under the direction of a trained team leader. Samples of each organism are collected and field identifications are verified in the lab.

Understanding Benthic Scores

Stream Quality Index (SQI) is determined by weighting each type and number of organisms found by their sensitivity ratings. SQI is a measure of the degree of organic pollution that is calculated by rating and scoring organisms based on their sensitivity (sensitive, somewhat sensitive and tolerant) and frequency in the sample (rare or common). A higher proportion of sensitive organisms such as mayflies and caddisflies results in a higher **SQI**. A greater number of different organisms also results in a high **SQI**. Higher scores reflect better quality sites. The **SQI** has four different levels: **>48=EXCELLENT, 34-48=GOOD, 19-33=FAIR, <19=POOR**.

Number of taxa represents the number of different families of organisms. Like SQI, a higher number of taxa indicate a healthier site.

Number of insect taxa – insects are more sensitive than the non-insect taxa.

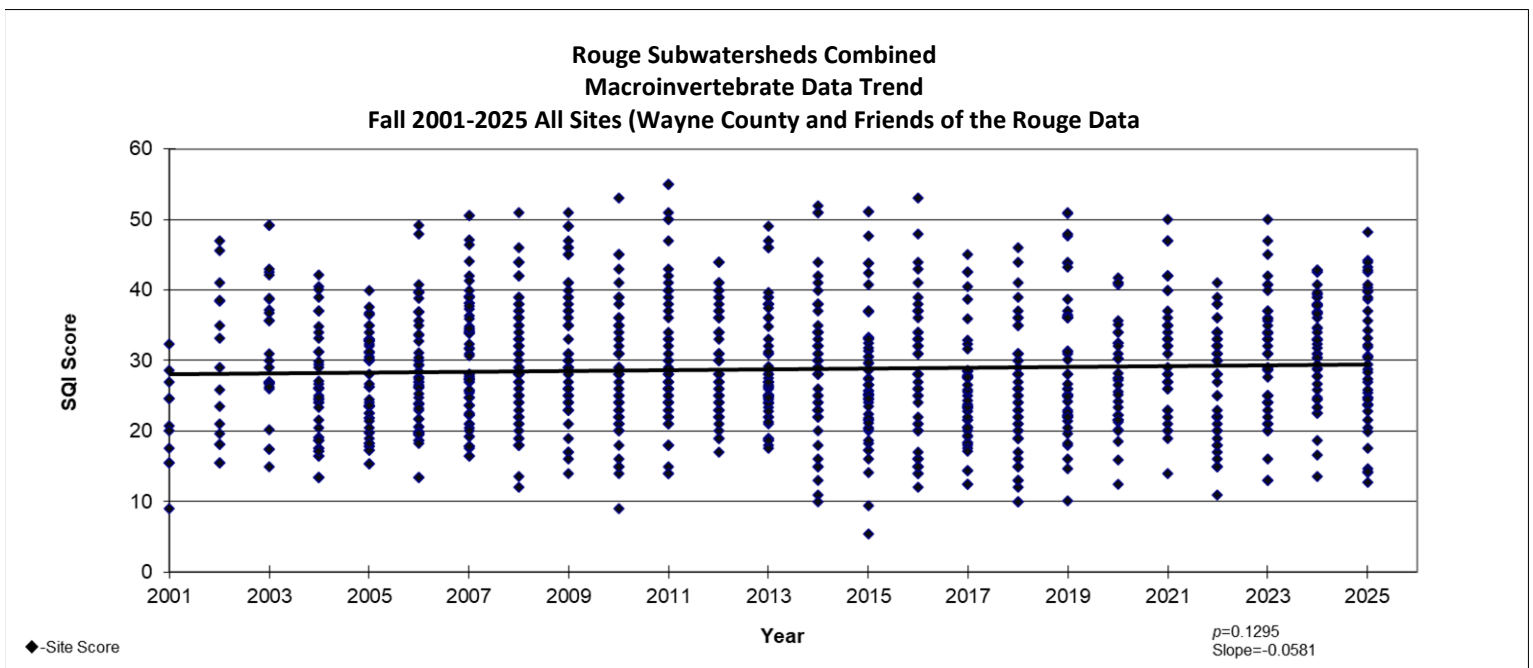
EPT refers to the number of mayfly, caddisfly and stonefly families found (Ephemeroptera, Plecoptera, and Tricoptera); these three orders contain some of the most sensitive organisms.

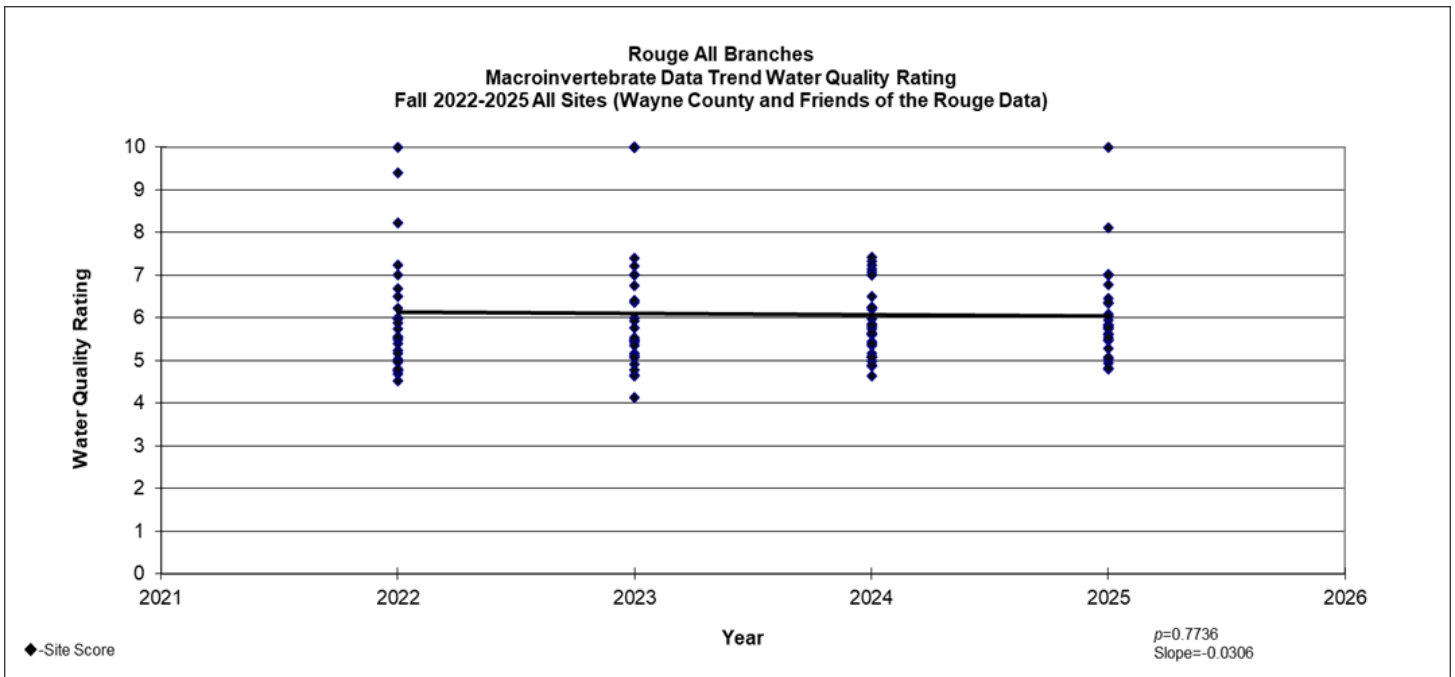
Water Quality Rating (WQR) is a measure of the degree of organic pollution similar to SQI. Organisms are rated based on the Hilsenhoff Index of Biotic Integrity and scores are weighted by the number of individuals found. Unlike SQI, a LOWER score is indicative of less pollution. There are seven categories rather than four. 0.0-3.50=**Excellent**, 3.51-4.50=**Very Good**, 4.51-5.50=**Good**, 5.51-6.50=**Fair**, 6.51-7.50=**Fairly Poor**, 7.51-8.50=**Poor**, 8.51-10.0=**Very Poor**. WQR is calculated based on family level identification.

Overall Summary:

Stream Quality Index (SQI) averaged 29 or FAIR and the Water Quality Index (WQR) averaged 5.94 or FAIR (maps pg. 15-16, Table 8, and graphs below). Taxa averaged 14 Families per site, EPT 2, and Chloride 217 ppm (chronic toxicity level).

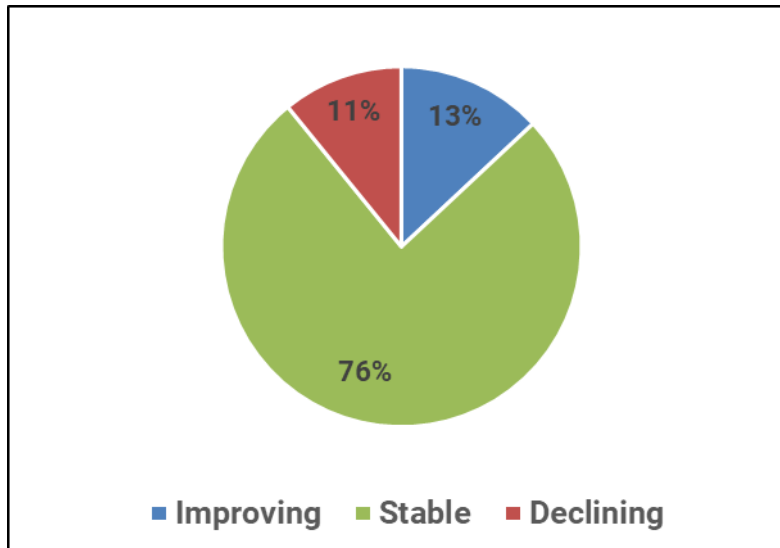
To compare trends over time, we analyzed the trends in SQIs and WQRs. When all of the sites were compared, there was not a significant trend in SQIs or WQRs (see graph below).





Data Trends

In comparison to past years, 78% of sites were stable, 11% of the sites improving and 11% declining.



SQL Summary by Subwatershed:

To compare change over time, we analyzed the trends by subwatershed, with Johnson Creek analyzed separately as it is a coldwater tributary (Table 1 and graphs p. 19-29). The Middle 3 subwatershed had significant positive trends. The Lower 1 subwatershed had significant negative trends. These trends are similar to last year.

Table 1: Fall Bug Hunt Trend Summary All Sites 2001-2025					
Subwatershed	slope	p-value	True Trend	Subwatershed SQL average score	SQL Rating
Main 1-2	-0.1733	0.0710	no trend	29	Fair
Upper	-0.0794	0.3326	no trend	25	Fair
Johnson Creek	0.1137	0.1590	no trend	35	Good
Middle 1	-0.1487	0.1115	no trend	31	Fair
Middle 3	0.3474	0.0001	yes, positive	23	Fair
Lower 1	-0.2005	0.0369	yes, negative	28	Fair
Lower 2	-0.0860	0.5276	no trend	26	Fair
Main3-4	-0.0025	0.9926	no trend	28	Fair

The data was further analyzed for trends by tributaries and subareas. Table 2 contains a summary of this analysis; the graphs are on p. 19-29. When the upper and lower sections of the Main, Middle and Lower subwatersheds were combined, the trends were negative for the Main and Lower and positive for the Middle. This is the same trend as last year. When all the sites were combined, there was no significant trend.

Table 2: Fall Bug Hunt Trend Summary Branches/Tributaries 2001-2025					
Branch	Slope	<i>p</i> -value	True Trend	Branch Average SQI Score	SQI Rating
Rouge All Subwatersheds combined	0.0581	0.1295	no trend	29	Fair
Main (Main 1/2 and Main 3/4)	-0.1834	0.0412	yes, negative	29	Fair
Bell Creek only	-0.0109	0.9333	no trend	23	Fair
Upper only	-0.0759	0.6495	no trend	27	Fair
Middle (Middle 1 and Middle 3)	0.0977	0.2273	no trend	29	Fair
Tonquish Creek only	-0.0377	0.8194	no trend	31	Fair
Middle without Tonquish Creek	0.1224	0.1938	no trend	29	Fair
Johnson Creek and Middle (Middle 1 and Middle 3)	0.1741	0.0093	yes, positive	31	Fair
Sump Creek (Johnson Creek tributary)	-0.1285	0.7292	no trend	36	Good
Lower 1 and Lower 2	-0.1751	0.0269	yes, negative	27	Fair

Individual sites were examined for long term trends (Table 3). Of the sites sampled this fall, seven had a significant trend: five negative and two positive.

Table 3: Friends of the Rouge and Wayne County Fall Bug Hunt Data Trend 2001-2025 by site					
Site	slope	<i>p</i> -value	Statistically significant trend	Site average score	SQI Rating
Main6	-0.3962	0.0093	yes, negative	32	Fair
MN-7	1.0659	0.0111	yes, positive	25	Fair
Bell2	-0.4638	0.0423	yes, negative	24	Fair
MR-5	0.5479	0.0329	yes, positive	22	Fair
MR-14	-0.5907	0.0282	yes, negative	28	Fair
Ing1	-0.6853	0.0384	yes, negative	27	Fair
LR-3	-0.4655	0.0294	yes, negative	27	Fair

WQR Summary:

In 2021, MiCorps, the organization that oversees monitoring protocols for monitoring groups like ours in Michigan, developed a new scoring system for the bugs to replace the SQL. The new system, called Water Quality Rating (WQR), should better reflect the pollution tolerance of the bugs found at the site. Since there is no way to convert SQL to WQR, FOTR continues to track SQL.

Since the adoption of the WQR ratings in 2021, there are a small amount of sites that have three or more years of WQR data to evaluate trends, as compared to the SQL dataset originating in 2001. For the sites that do have more than three years of data, we found that the Middle 3 subwatershed has a significantly negative trend (Table 4), and one site demonstrated a negative trend: MR-4 (Table 6).

Table 4: Fall Bug Hunt Trend Summary All Sites 2022-2025 WQR						
Subwatershed	slope	p -value	True Trend	Subwatershed WQR average score	Water Quality Rating	Number of sites with enough data for trend analysis
Main 1-2	-0.2389	0.3830	no trend	6.28	Fair	10
Upper	0.0106	0.9696	no trend	6.16	Fair	5
Johnson Creek	0.0029	0.9897	no trend	5.59	Fair	6
Middle 1	0.2544	0.1238	no trend	5.84	Fair	6
Middle 3	-0.2770	0.0168	yes, negative	6.29	Fair	1
Lower 1	-0.3889	0.1885	no trend	6.72	Fairly Poor	4
Lower 2	-0.1283	0.7888	no trend	5.65	Fair	2
Main 3-4	NA	NA	NA	NA	NA	0
NA-not enough data to determine trend						

Table 5: Fall Bug Hunt Trend Summary Branches/Tributaries 2022-2025 WQR

Branch	Slope	<i>p</i> -value	True Trend	Branch Average WQR Score	Water Quality Rating
Rouge All Subwatersheds combined	-0.0306	0.7736	no trend	6.07	Fair
Main (Main 1/2 and Main 3/4)	NA	NA	NA	NA	NA
Bell Creek only	-0.1140	0.7387	no trend	6.8	Fairly Poor
Upper only	NA	NA	NA	NA	NA
Middle (Middle 1 and Middle 3)	0.1778	0.2211	no trend	5.92	Fair
Tonquish Creek only	0.3196	0.1248	no trend	5.97	Fair
Johnson Creek and Middle (Middle 1 and Middle 3)	0.1019	0.4273	no trend	5.76	Fair
Sump Creek (Johnson Creek tributary)	0.1037	0.5486	no trend	5.25	Good
Middle without Tonquish Creek	0.1258	0.6764	no trend	5.21	Good
Lower 1 and Lower 2	-0.2050	0.4215	no trend	6.38	Fairly Poor

NA- not enough data to determine trend

Table 6: Friends of the Rouge and Wayne County Fall Bug Hunt Data Trend 2022-2025 by site WQR

Site	slope	<i>p</i> -value	Statistically significant trend	Site average score	Water Quality Rating
MR-4	-0.2770	0.0168	Yes, negative	6.29	Fair



Since 2020, we have been testing sites for road salt (chloride) through the Izaak Walton League's Salt Watch program during the Stonefly Search and Bug Hunts. Salt we apply to our roads and sidewalks for snow and ice removal washes into our streams and is toxic to aquatic life when it reaches high levels. Recognizing this, the State of Michigan Department of Environment, Great Lakes and Energy (EGLE) set water quality values aiming to protect surface water from chloride, based on parts per million (ppm) concentrations.

These values are:

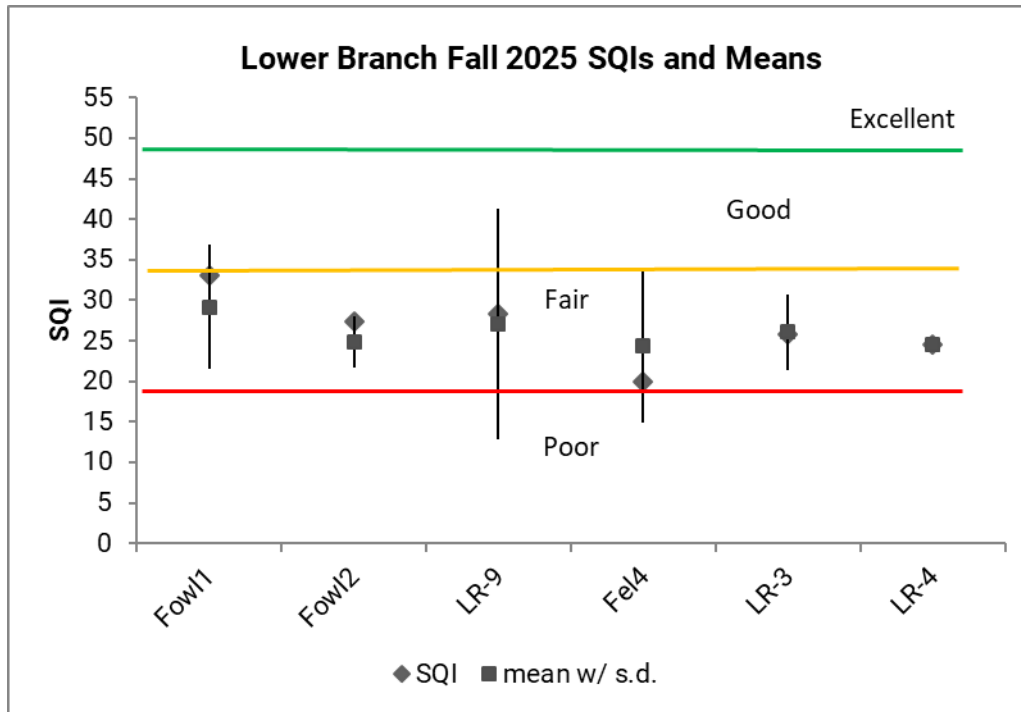
150 ppm and above - causes long term effects to aquatic life (chronic)

320 ppm and above - causes acute effects to aquatic life (toxic)

This fall, seven sites had toxic levels of chloride, and twenty-five sites had chronic levels (table 7, map p. 17). This is particularly concerning as one would expect road salt applied last winter to be washed out of the system by October. EGLE has already listed Bishop Creek as "impaired" due to high salt levels, and more areas may be listed in the future due to elevated chloride levels throughout the watershed.

Table 7: 2025 FBH Sites With Elevated Chloride Levels					
BRANCH	Stream Name	FIELDID	Site Description	Cl ppm	Cl Rating
Lower	Fellows Creek	Fel4	Flodin Pk	152	chronic
Main	Sprague Creek	Sprag	Main Lloyd Stage	213	chronic
Main	Main Rouge	Main1	FF Park	186	chronic
Main	Main Rouge	Main3	Booth Pk	197	chronic
Main	Main Rouge	Main11	Quatron at Lakeside	267	chronic
Main	Main Rouge	Main4	Linden Pk	222	chronic
Main	Main Rouge	Main4.5	Fairway Pk	231	chronic
Main	Main Rouge	Main5	Douglas Evans	213	chronic
Main	Nottingham Creek	Nott	Country Day	287	chronic
Main	Main Rouge	Main6	Sfld Civic Ctr	166	chronic
Main	Evans Creek	Evan2	LTU	612	toxic
Main	Main Rouge	Main10	HF Estate Dam	317	chronic
Main	Main Rouge	MN-2	Eliza Howell	239	chronic
Main	Main Rouge	MN-7	Rouge Park	296	chronic
Middle	Johnson Creek	MR-22	Maybury south	173	chronic
Middle	Johnson Creek	John8	Maybury Angell	221	chronic
Middle	Walled Lk Drainage	Wall3	WL 12M	213	chronic
Middle	Walled Lk Drainage	Wall2	WL 10M	231	chronic
Middle	Middle Rouge	MR-1	Northville Rec W	205	chronic
Middle	Bishop Creek	Bish2	Bishop Scarborough	612	toxic
Middle	Ingersoll Creek	Ing1	Brookfarm Park	197	chronic
Middle	Middle Rouge	MR-20	Waterford Bend	189	chronic
Middle	Middle Rouge	MR-2a	Reservoir Rd W	189	chronic
Middle	Tonquish Creek	Ton2	Ann Arbor Rd	353	toxic
Middle	Middle Rouge	MR-24	Lion's Pk	339	toxic
Middle	Tonquish Creek	Nton	S Evergreen St	353	toxic
Middle	Middle Rouge	MR-4	Levan Knoll	221	chronic
Middle	Middle Rouge	MR-5	Valley View	257	chronic
Upper	Seeley Creek	See3	Kennedy Ct	197	chronic
Upper	Bell Branch	Bell1	Bicentennial Park	404	toxic
Upper	Bell Branch	Bell3	Livonia 6 Mile	353	toxic
Upper	Bell Branch	Bell2	Schoolcraft College	213	chronic

Lower Branch

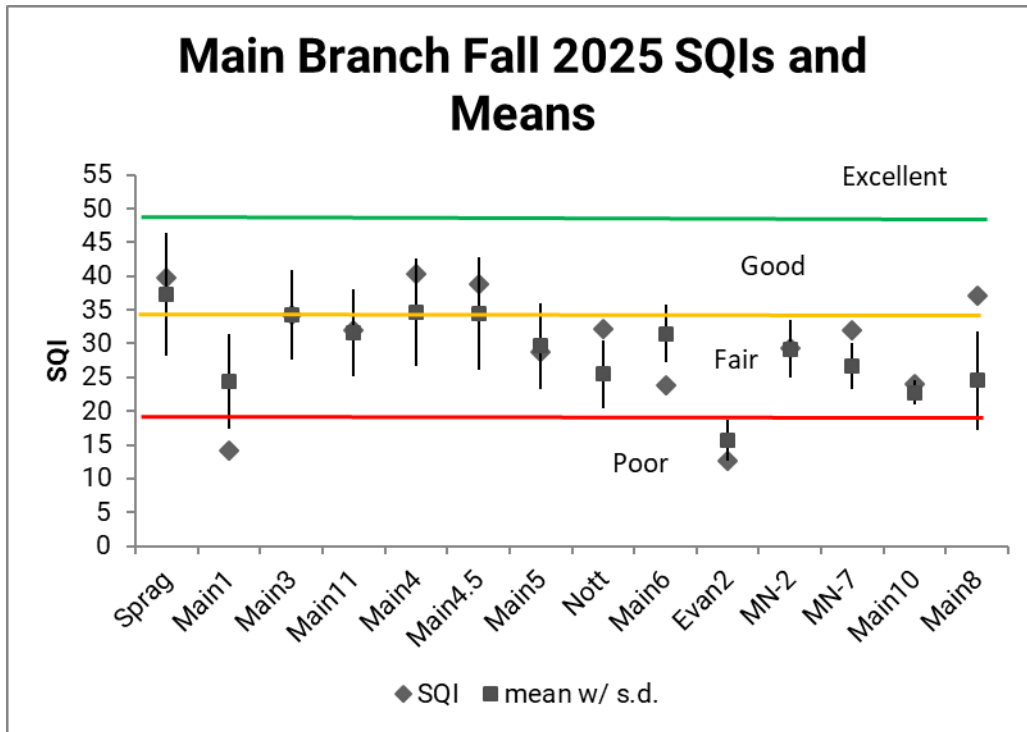


Six sites were sampled on the Lower Branch (Table 8, p. 18), including two tributaries: Fellows Creek and Fowler. SQIs averaged FAIR (27). All six sites had FAIR SQI scores. In the new WQR system, sites averaged fair (5.99). Sites had an average of 12 taxa found, 7 insect taxa and 1 EPT. Chloride levels ranged from a low of 42 ppm at Fowl2 to a high of 152 ppm at Fel4; one site had chronic levels (Fel4) with no sites at the toxic level (Table 8, p. 18).

SQI scores were compared with past data (chart above). All sites were within a standard deviation of the average for the site.

Long term trend analysis showed a significant negative trend for the Lower 1 and for all of the Lower when the subwatersheds are combined (Table 1 and 2, graphs p. 28-29). LR-3 had a significant negative trend (Table 3).

Main Branch



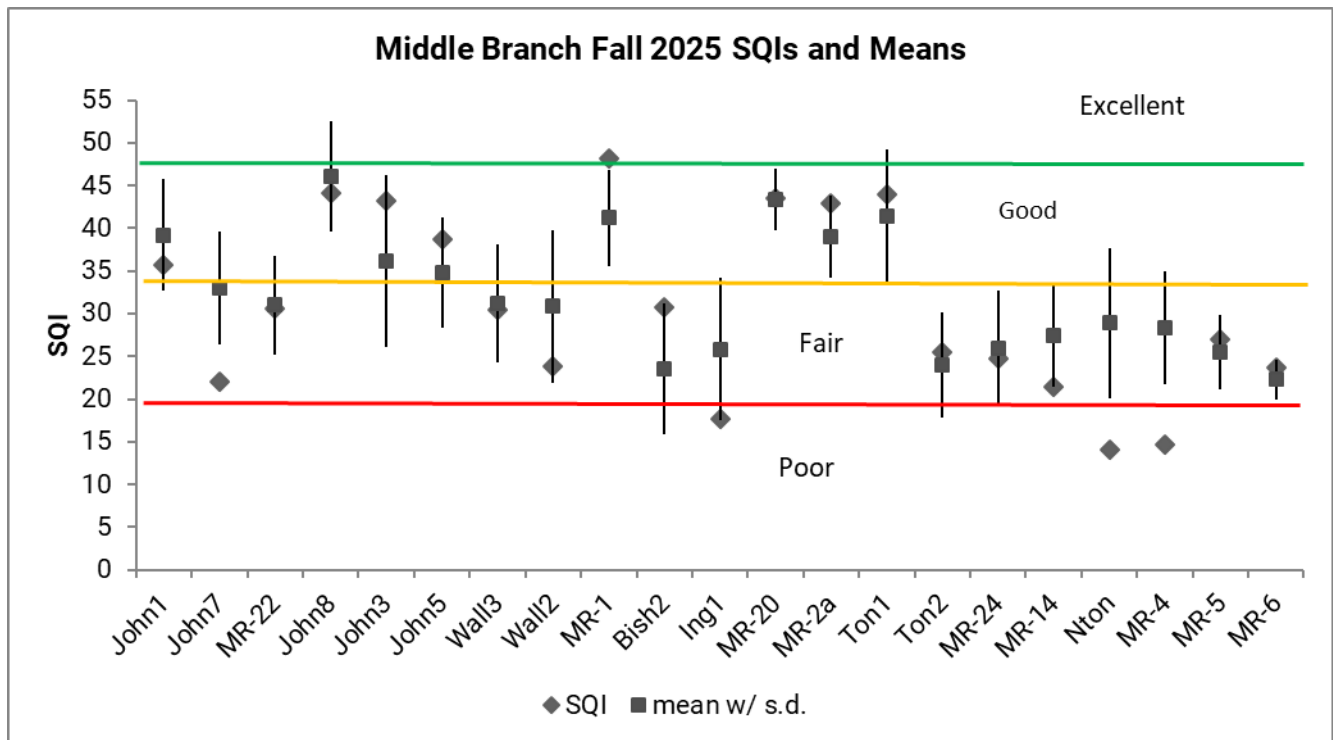
Thirteen sites on the Main Branch were sampled, including the following tributaries: Evans, Nottingham, and Sprague Creek. SQIs averaged FAIR (29). Four rated GOOD, seven rated FAIR, and two rated POOR. WQRs averaged fair (6.12). Taxa found averaged 15, 8 Insect taxa, and 2 EPT. Chloride levels averaged 265 ppm, with twelve sites at the chronic effects level (>150 ppm), with one site at the toxic level (Evan1) (Table 8, p. 18).

SQI scores were compared with past data (chart above). Nine were within a standard deviation of the average for the site, two were above, and two were below. Long term trend analysis shows a significant negative trend for all of the Main when the subwatersheds are combined (Table 2, graphs p. 19-20). Main6 had a significant negative trend, while MN-7 had a significant positive trend when considered separately (Table 3).

Due to low water levels, we were able to sample four downstream Main sites that we have not visited in many years. This included MN-2 (Eliza Howell Park), MN-7 (Rouge Park), Main10 (the Henry Ford Estate) and Main8 (Fordson Island). MN-7, Main10, and Main8 had higher SQI scores compared to historical scores. In addition, a live freshwater mussel was found at Main8 as well as three species of dragonflies, two of which are very sensitive.

Upstream, we found a live fat mucket mussel at Sprag but a very low score at Main1. The Main1 site at Firefighters Park is undergoing a habitat improvement project that has disturbed the site but also had sediment coming into it from an upstream source. FOTR reported the sediment and it is hoped that over time this site will improve as it was once home to the largest freshwater mussel population in the watershed.

Middle Branch

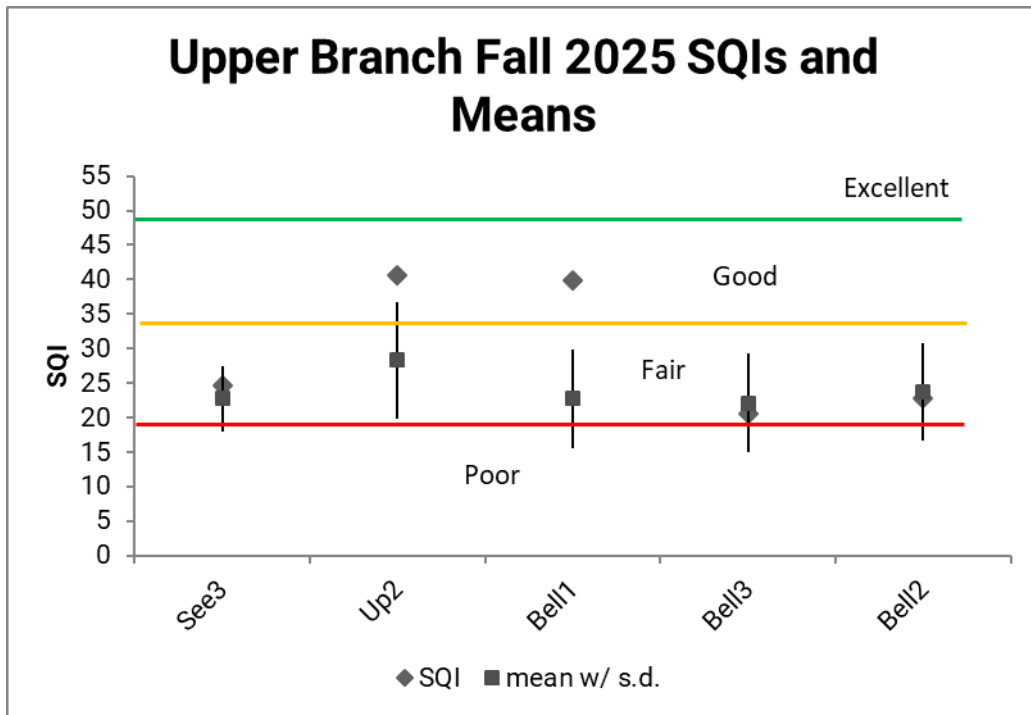


Twenty-one sites were sampled on the Middle Branch; Johnson Creek had six sites, Tonquish Creek had four sites, the Walled Lake Drainage had two sites, Bishop Creek had one site, Ingersoll Creek had one site, and the final seven sites were in the Middle Rouge. SQI scores averaged FAIR (31), with one EXCELLENT (MR-1), seven GOOD, ten FAIR, and three POOR. WQRs averaged fair (5.79). Number of taxa averaged 14, 8 insect taxa and 2 EPT.

In comparing averages and past data (chart above), the majority of sites (17) were within a standard deviation of the average for the sites. One site was above (MR-1) and three sites were below (John7, Nton, and MR-4). Chloride levels averaged 212 ppm, with ten sites at the chronic level, and four sites at the toxic level: Bish2, Ton2, MR-24, and Nton (Table 8, p. 18).

In long term trend analysis, the Middle 3 had a positive trend (Table 1). When the Johnson Creek, Middle subwatersheds were combined, there was a significant positive trend (Table 2, graphs p. 23-27). MR-5 had a positive trend, whereas MR-14 and Ing1 had significant negative trends when considered by site (Table 3).

Upper Branch



Five Upper branch sites were sampled including Seeley Creek, the Bell Branch, and the Upper Rouge at Shiawasee Park. SQIs averaged FAIR (30). Two sites were GOOD, and three sites were FAIR. WQR averaged fair (6.04). Number of taxa averaged 15, 10 insect taxa and 1 EPT.

In comparing averages and past data (chart above), two sites were above a standard deviation of the average, and three were within the standard deviation of the average for a given site. Chloride levels averaged 245 ppm, with two sites at the chronic level, and two sites at the toxic level: Bell1 and Bell3 (Table 8, p. 18).

Long term trend analysis shows no significant trend in scores for the Upper Branch (Table 1 and 2, graphs p. 21-22). Bell2 had a significant negative trend when considered separately (Table 3).

THANK YOU!!!!!!

Thank you to all the **volunteers** and **Team Leaders, Sue Thompson** for sampling additional sites, helping with identification, analyzing trends and reviewing the report. Funding for the event was provided by the communities of Beverly Hills, Farmington, Livonia, Northville Township, Novi, Plymouth, Plymouth Township, Southfield, Troy, Birmingham, Washtenaw County Water Resources, Michigan Department of Environment, Great Lakes, and Energy and the United States Environmental Protection Agency's Great Lakes Restoration Initiative, the Alliance of Rouge Communities, and the Michigan Clean Water Corps.



Join us for the 2026 Winter Stonefly Search

Friends of the ROUGE Stonefly Search

Surveying Since 1998

Become a Rouge Community Scientist!

Do you ever wonder about what lives in the river besides fish and turtles? Come to our Bug Hunt and see for yourself the amazing variety of aquatic insects, crayfish, snails and clams that make up the bottom of the river food chain. Volunteers visit sites throughout the headwaters of the Rouge watershed and search for aquatic invertebrates. The presence or absence of these streambed creatures gives us valuable data on the quality of the river water and overall habitat.



Winter Stonefly Search

January 24th, 2026

10am-3pm(ish)

Meet at the Jack Wilcox Theater -
Plymouth Arts & Recreation Complex,
650 Church St. Plymouth

No prior experience needed, but registration is required. Children eight and older are welcome when accompanied by a participating adult. Groups of six or less can sign up together.

Register Now



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TheRouge.org/Bug-Hunts
Questions? Email Monitoring Manager, Lauren
at leaton@therouge.org

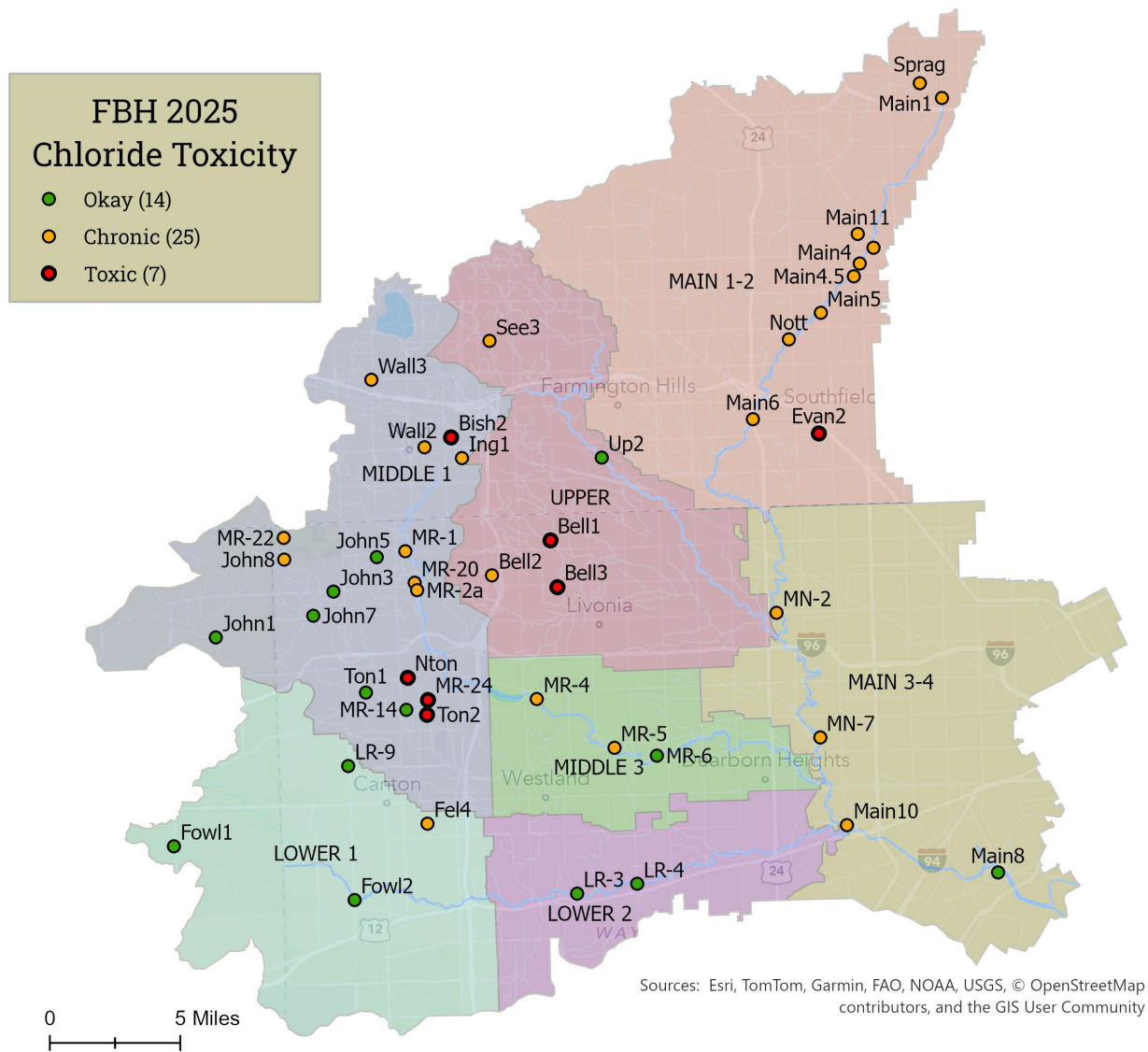
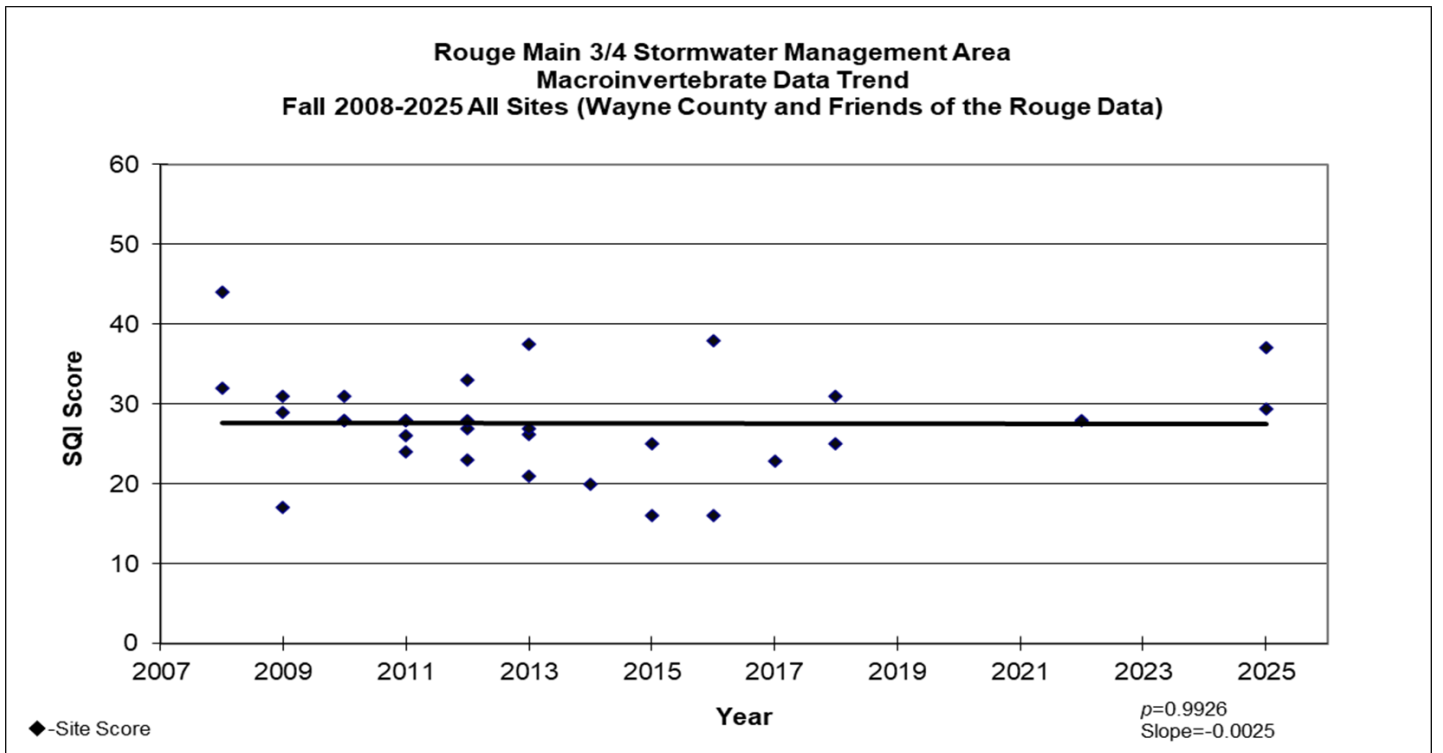
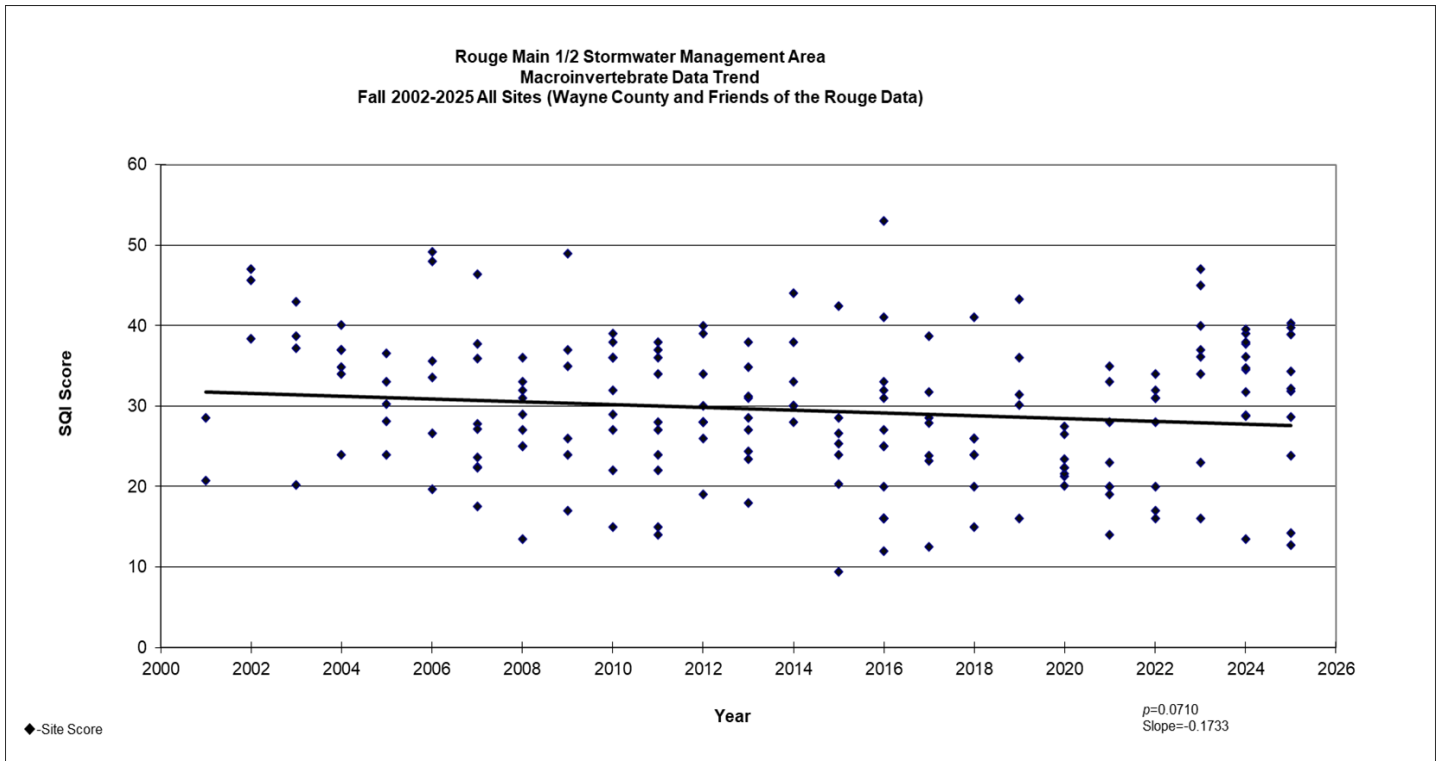


Table 8: Fall 2025 Data

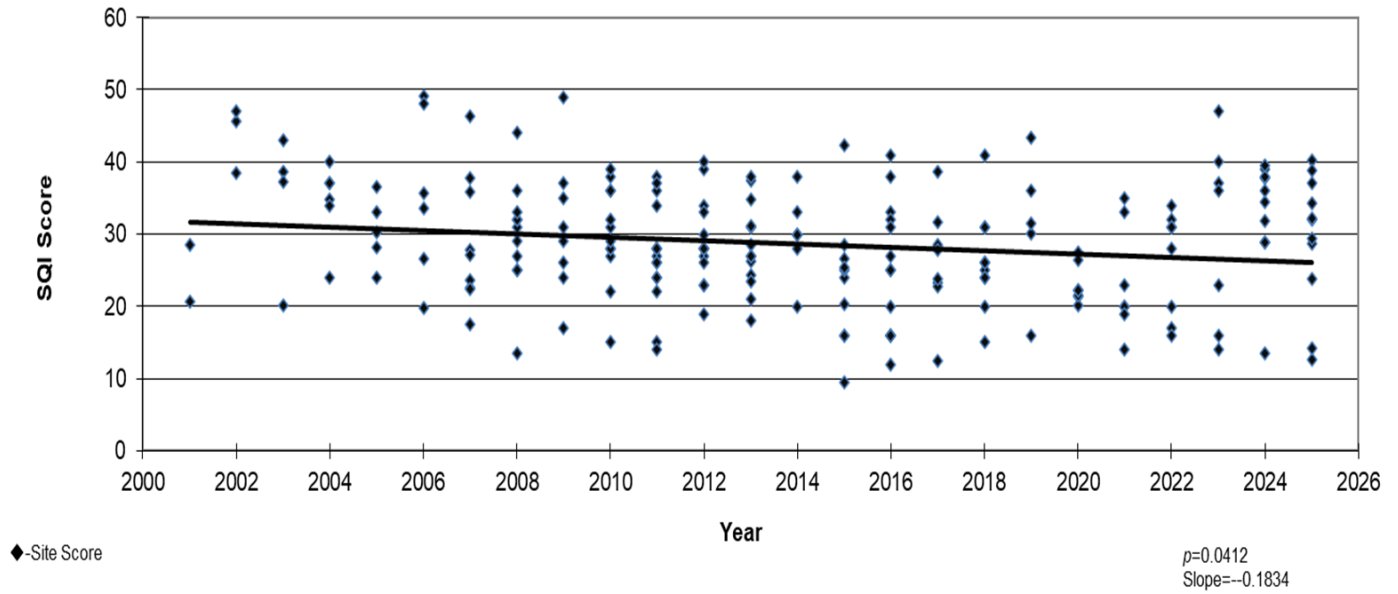
BRANCH	Stream Name	FIELDID	Site Description	SQL	SQL Rating	Taxa	Insect Taxa	EPT	WQR	WQR Score	CI ppm	CI Rating
Lower	Fowler Creek	Fowl1	Prospect	33.1	Fair	14	9	2	7	Fairly Poor	82	ok
Lower	Fowler Creek	Fowl2	Fowler Beck	27.3	Fair	13	6	1	6.09	Fair	42	ok
Lower	Fellows Creek	LR-9	Fellows Beck Warren	28.4	Fair	14	8	0	5.76	Fair	102	ok
Lower	Fellows Creek	Fel4	Flodin Pk	19.9	Fair	12	5	0	6.57	Fairly Poor	152	chronic
Lower	Lower Rouge	LR-3	Goudy Park	25.8	Fair	10	6	2	4.83	Good	145	ok
Lower	Lower Rouge	LR-4	Merriman Rd	24.5	Fair	11	7	2	5.66	Fair	145	ok
Main	Sprague Creek	Sprag	Main Lloyd Stage	39.8	Good	13	8	3	5.04	Good	213	chronic
Main	Main Rouge	Main1	FF Park	14.2	Poor	7	4	0	10	Very Poor	186	chronic
Main	Main Rouge	Main3	Booth Pk	34.3	Good	17	10	3	5.74	Fair	197	chronic
Main	Main Rouge	Main11	Quatron at Lakeside	31.9	Fair	16	8	1	6.77	Fairly Poor	267	chronic
Main	Main Rouge	Main4	Linden Pk	40.3	Good	23	13	3	5.62	Fair	222	chronic
Main	Main Rouge	Main4.5	Fairway Pk	38.9	Good	21	14	4	6.33	Fair	231	chronic
Main	Main Rouge	Main5	Douglas Evans	28.7	Fair	19	7	1	5.27	Good	213	chronic
Main	Nottingham Creek	Nott	Country Day	32.2	Fair	14	7	0	6.44	Fair	287	chronic
Main	Main Rouge	Main6	Sfld Civic Ctr	23.8	Fair	12	8	1	5.95	Fair	166	chronic
Main	Evans Creek	Evan2	LTU	12.7	Poor	8	6	0	5.61	Fair	612	toxic
Main	Main Rouge	Main10	HF Estate Dam	24	Fair	10	6	2	4.85	Good	317	chronic
Main	Main Rouge	MN-2	Eliza Howell	29.4	Fair	18	10	2	6.15	Fair	239	chronic
Main	Main Rouge	MN-7	Rouge Park	32	Fair	15	7	2	5.85	Fair	296	chronic
MN	Main Rouge	Main8	Fordson Island	37.1	Good	19	8	1	6.83	Fairly Poor	42	ok
Middle	Johnson Creek	John1	5M Salem	35.7	Good	18	13	2	5.46	Good	82	ok
Middle	Johnson Creek	John7	5M NV	22.1	Fair	11	9	3	7	Fairly Poor	82	ok
Middle	Johnson Creek	MR-22	Maybury south	30.6	Fair	13	7	1	5.83	Fair	173	chronic
Middle	Johnson Creek	John8	Maybury Angell	44.2	Good	21	13	2	5.07	Good	221	chronic
Middle	Johnson Creek	John3	6M NV	43.3	Good	16	11	4	4.79	Good	82	ok
Middle	Johnson Creek	John5	Fish Hatchery Pk	38.7	Good	16	11	3	5.25	Good	82	ok
Middle	Walled Lk Drainage	Wall3	WL 12M	30.4	Fair	12	7	1	5.5	Good	213	chronic
Middle	Walled Lk Drainage	Wall2	WL 10M	23.8	Fair	10	6	1	5.54	Fair	231	chronic
Middle	Middle Rouge	MR-1	Northville Rec W	48.2	Excellent	18	10	3	5.55	Fair	205	chronic
Middle	Bishop Creek	Bish2	Bishop Scarborough	30.7	Fair	14	8	1	5.49	Good	612	toxic
Middle	Ingersoll Creek	Ing1	Brookfarm Park	17.6	Poor	13	6	0	6.12	Fair	197	chronic
Middle	Middle Rouge	MR-20	Waterford Bend	43.6	Good	23	14	5	5.97	Fair	189	chronic
Middle	Middle Rouge	MR-2a	Reservoir Rd W	42.9	Good	17	10	3	4.92	Good	189	chronic
Middle	Tonquish Creek	Ton1	Plym Twp Pk	44	Good	21	12	2	5.75	Fair	114	ok
Middle	Tonquish Creek	Ton2	Ann Arbor Rd	25.5	Fair	11	7	3	6.06	Fair	353	toxic
Middle	Middle Rouge	MR-24	Lion's Pk	24.7	Fair	12	6	2	7	Fairly Poor	339	toxic
Middle	Tonquish Creek	MR-14	Smith Elem	21.5	Fair	11	6	1	7	Fairly Poor	107	ok
Middle	Tonquish Creek	Nton	S Evergreen St	14.1	Poor	7	4	1	7	Fairly Poor	353	toxic
Middle	Middle Rouge	MR-4	Levan Knoll	14.6	Poor	9	3	1	5.87	Fair	221	chronic
Middle	Middle Rouge	MR-5	Valley View	27	Fair	12	8	2	5.22	Good	257	chronic
Middle	Middle Rouge	MR-6	Sherwood	23.7	Fair	10	6	2	5.24	Good	146	ok
Upper	Seeley Creek	See3	Kennedy Ct	24.7	Fair	13	9	1	4.93	Good	197	chronic
Upper	Upper Rouge	Up2	Shiawasee Park	40.7	Good	17	11	2	5.01	Good	56	ok
Upper	Bell Branch	Bell1	Bicentennial Park	39.8	Good	19	12	2	6.35	Fair	404	toxic
Upper	Bell Branch	Bell3	Livonia 6 Mile	22.8	Fair	13	5	1	5.8	Fair	353	toxic
Upper	Bell Branch	Bell2	Schoolcraft College	20.5	Fair	15	11	1	8.11	Poor	213	chronic

Data Trend Tables

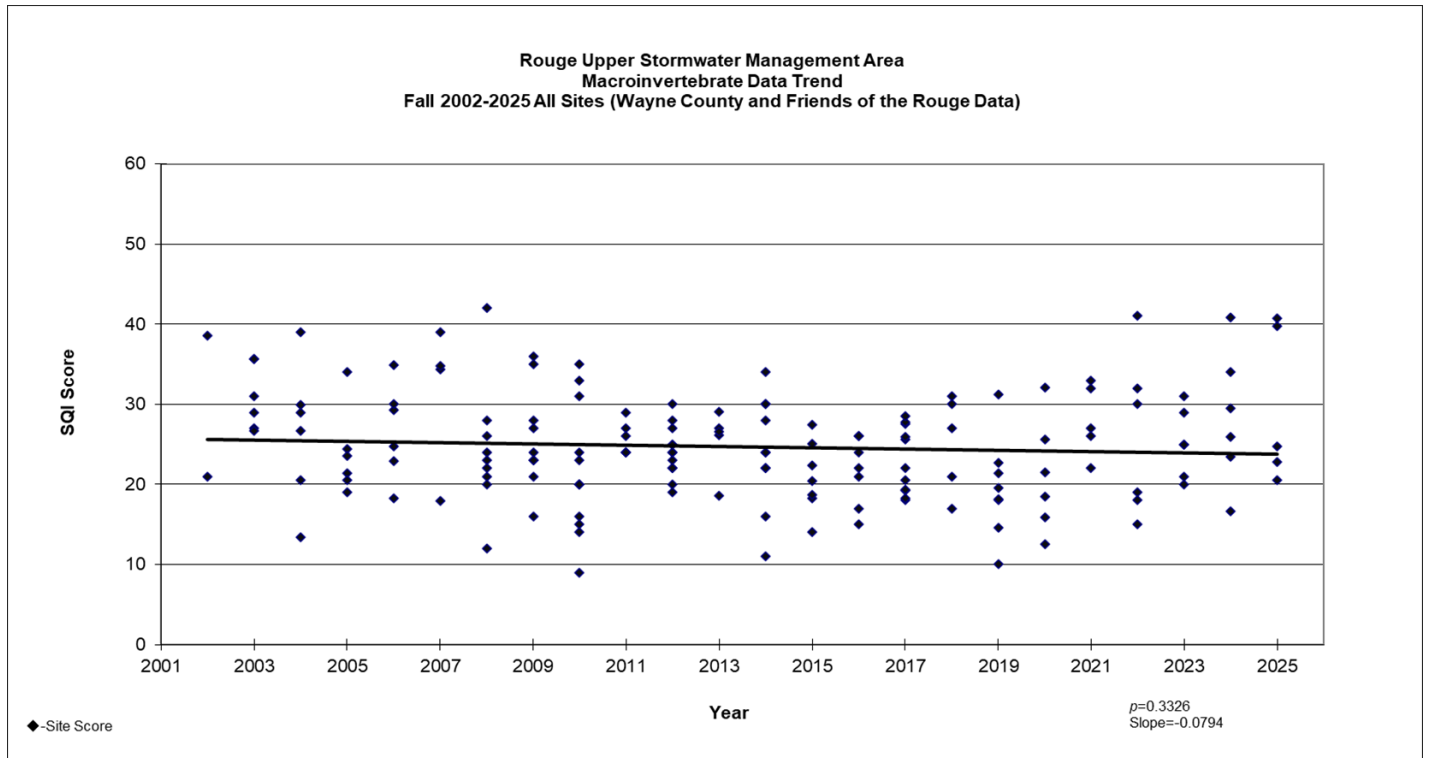
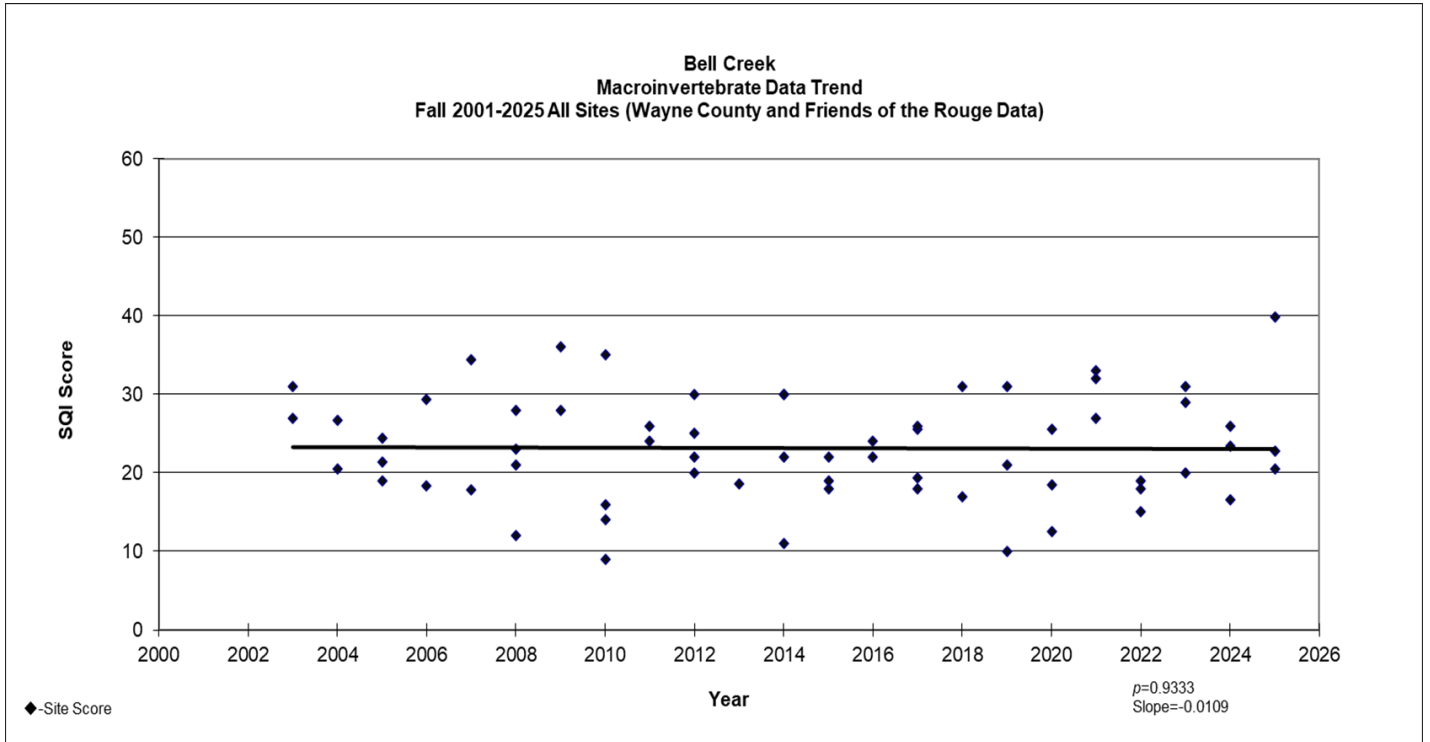
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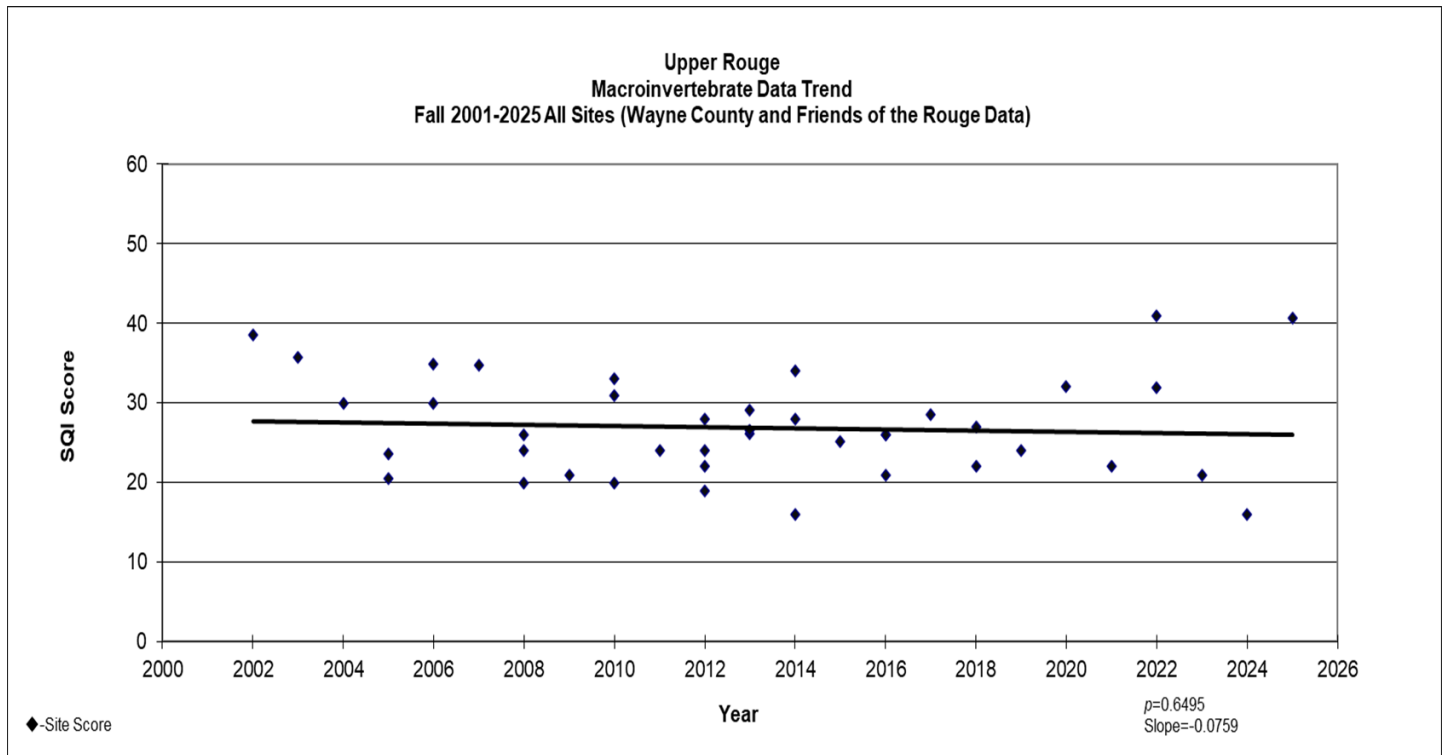
Rouge Main Branch
Macroinvertebrate Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)



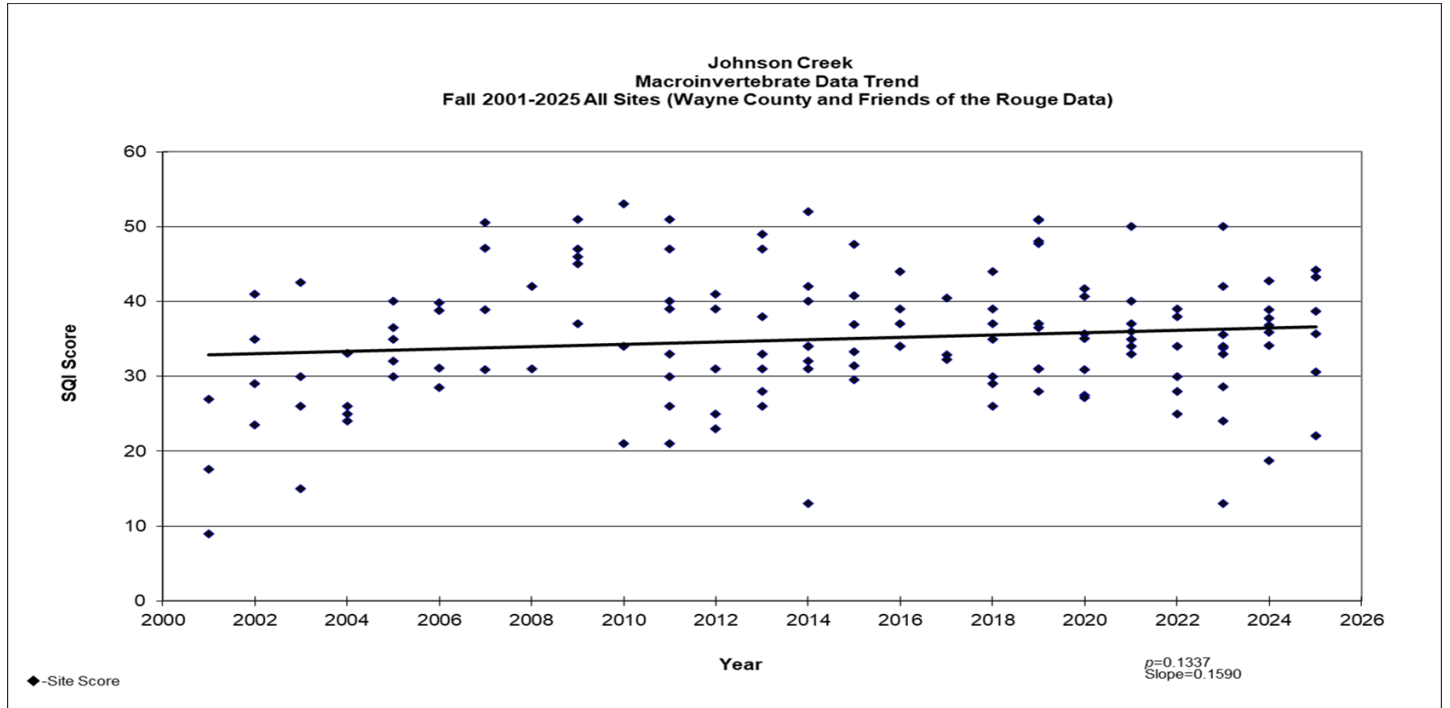
Upper



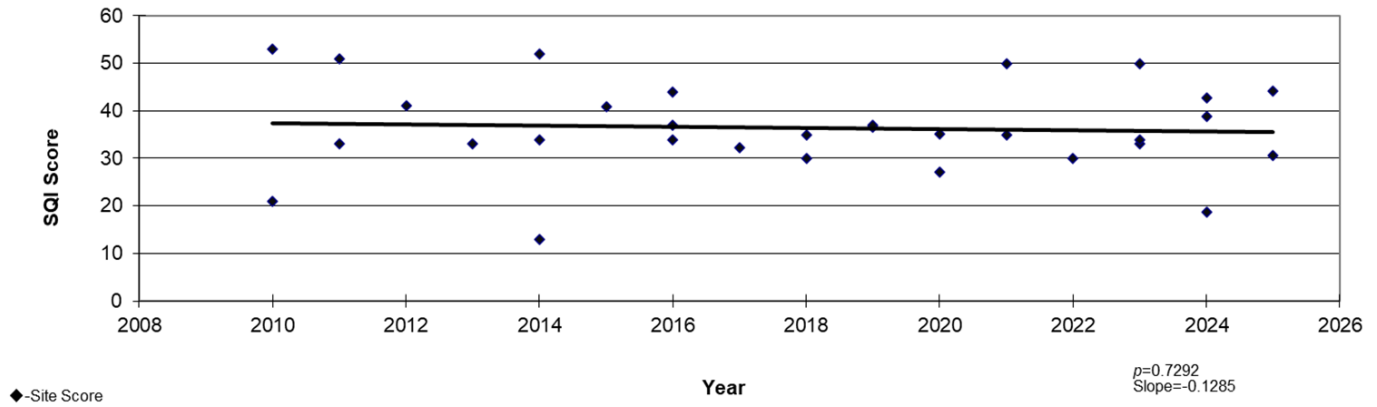
Upper with no tributaries



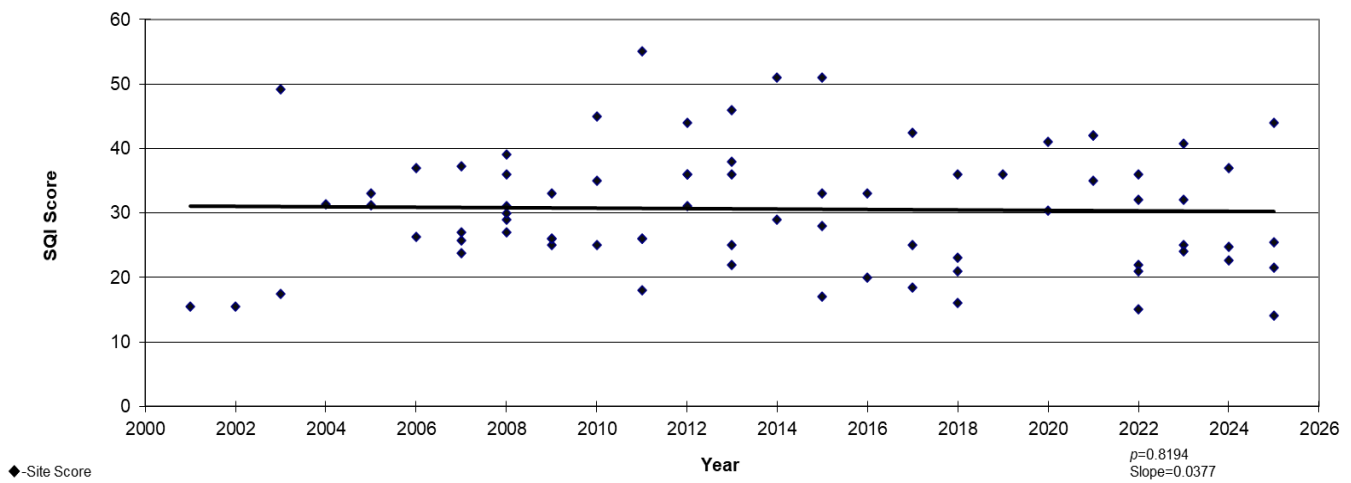
Middle



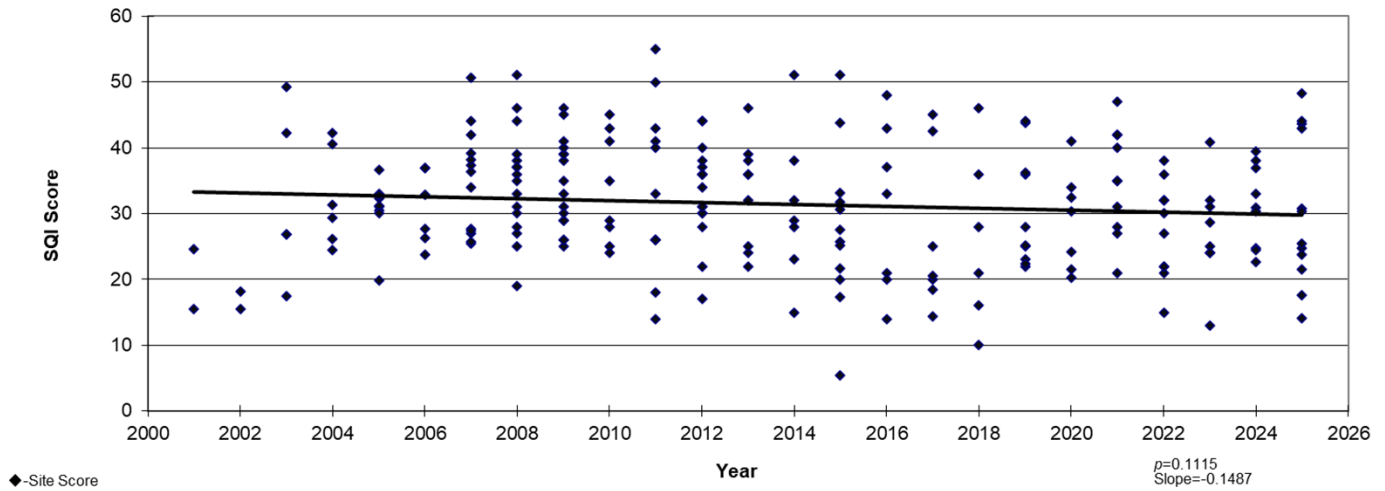
Sump Creek
Macroinvertebrate Data Trend
Fall 2008-2025 All Sites (Wayne County and Friends of the Rouge Data)



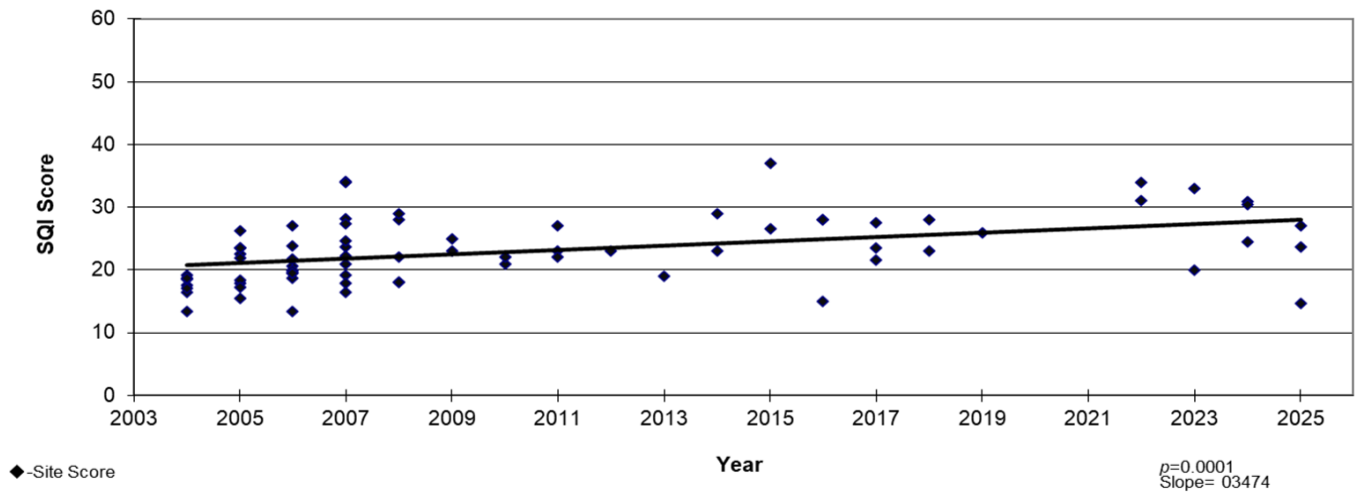
Tonquish Creek
Macroinvertebrate Data Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)



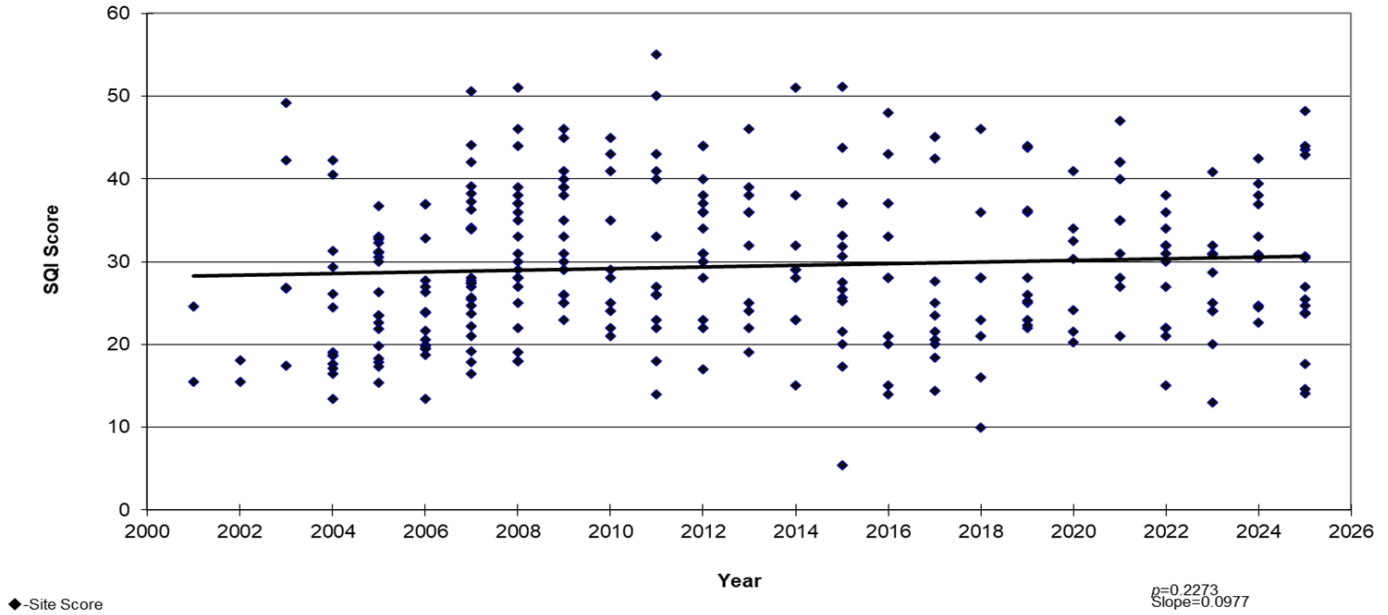
Rouge Middle 1 Stormwater Management Area
Macroinvertebrate Data Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)



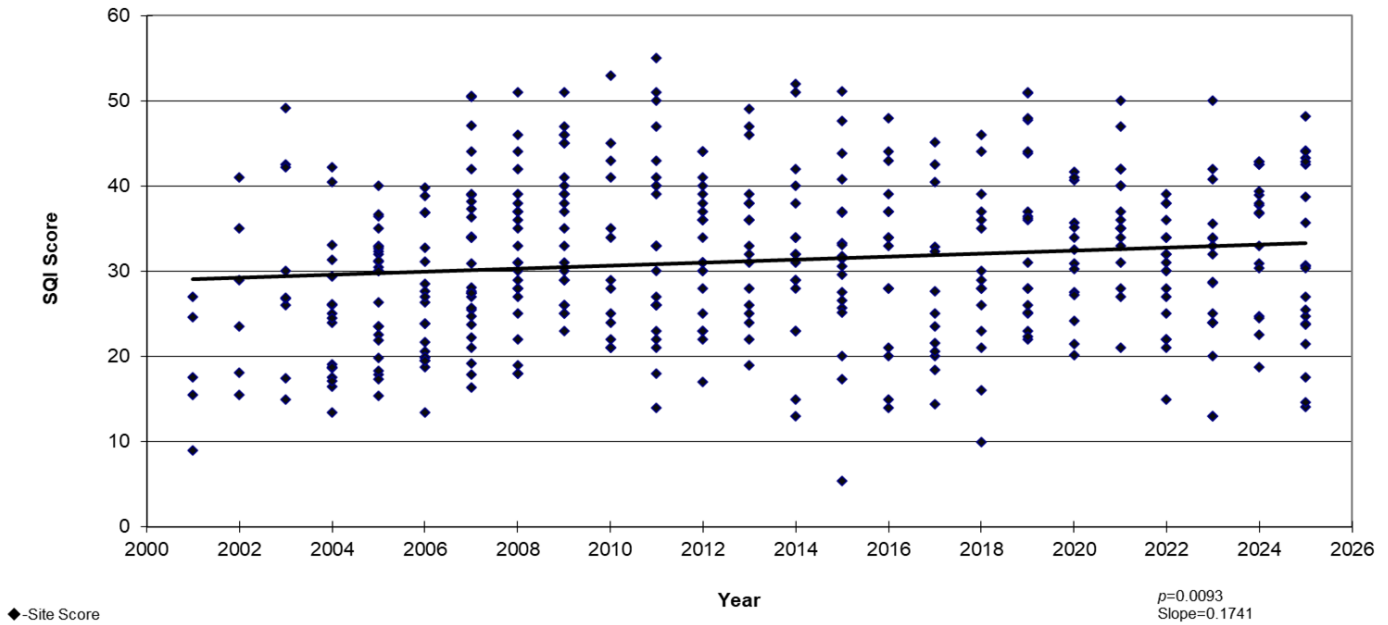
Rouge Middle 3 Storm Water Management Area
Macroinvertebrate Data Trend
Fall 2004-2025 All sites (Wayne County and Friends of the Rouge Data)



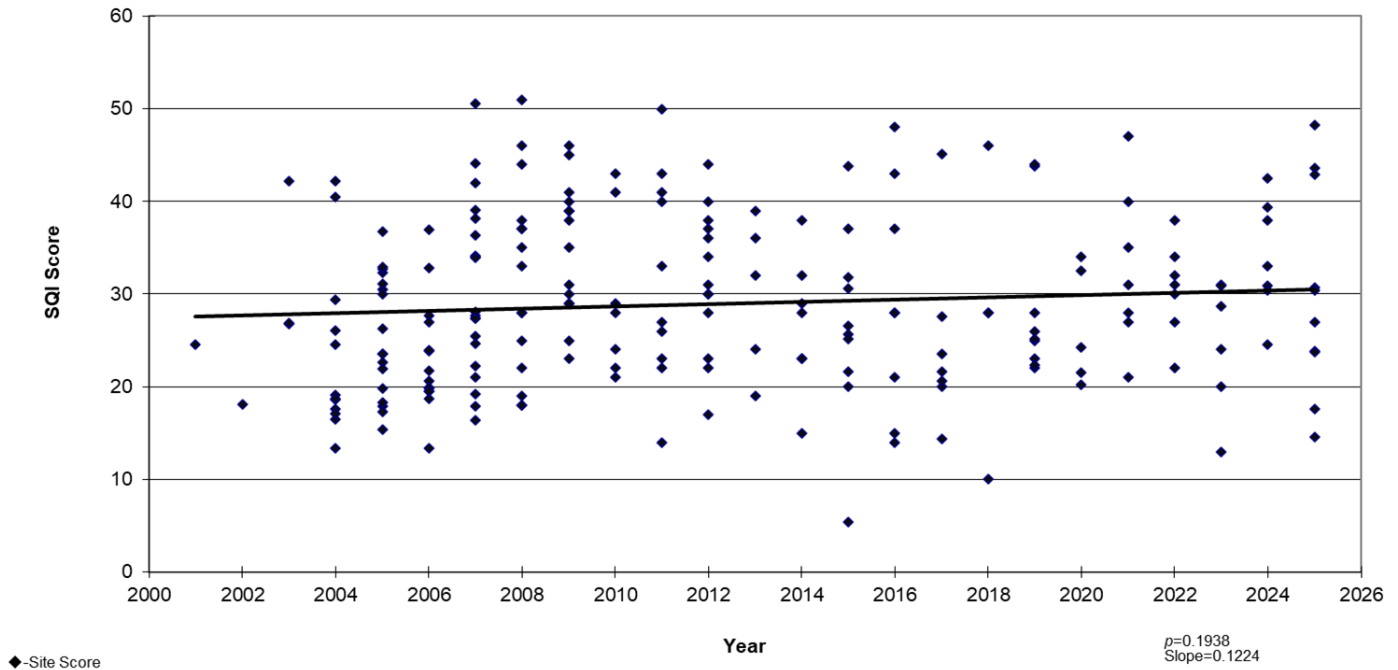
**Rouge Middle Branch
Macroinvertebrate Data Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)**



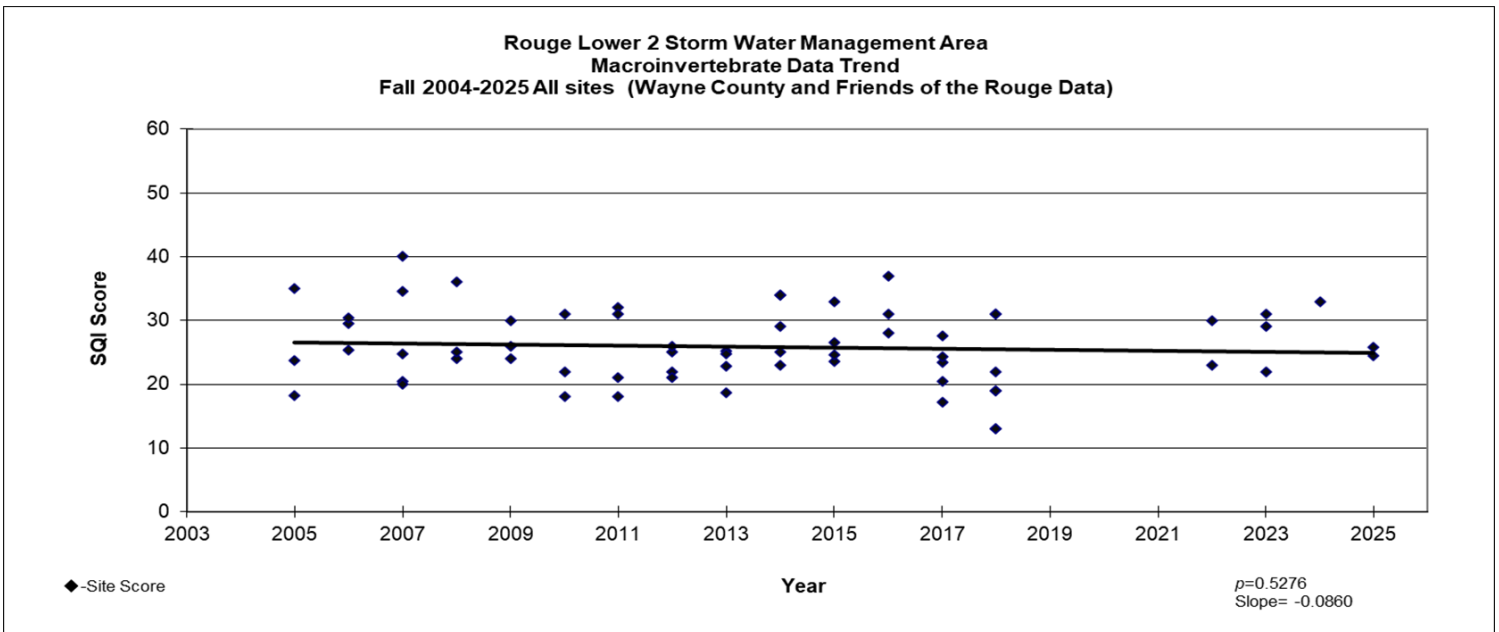
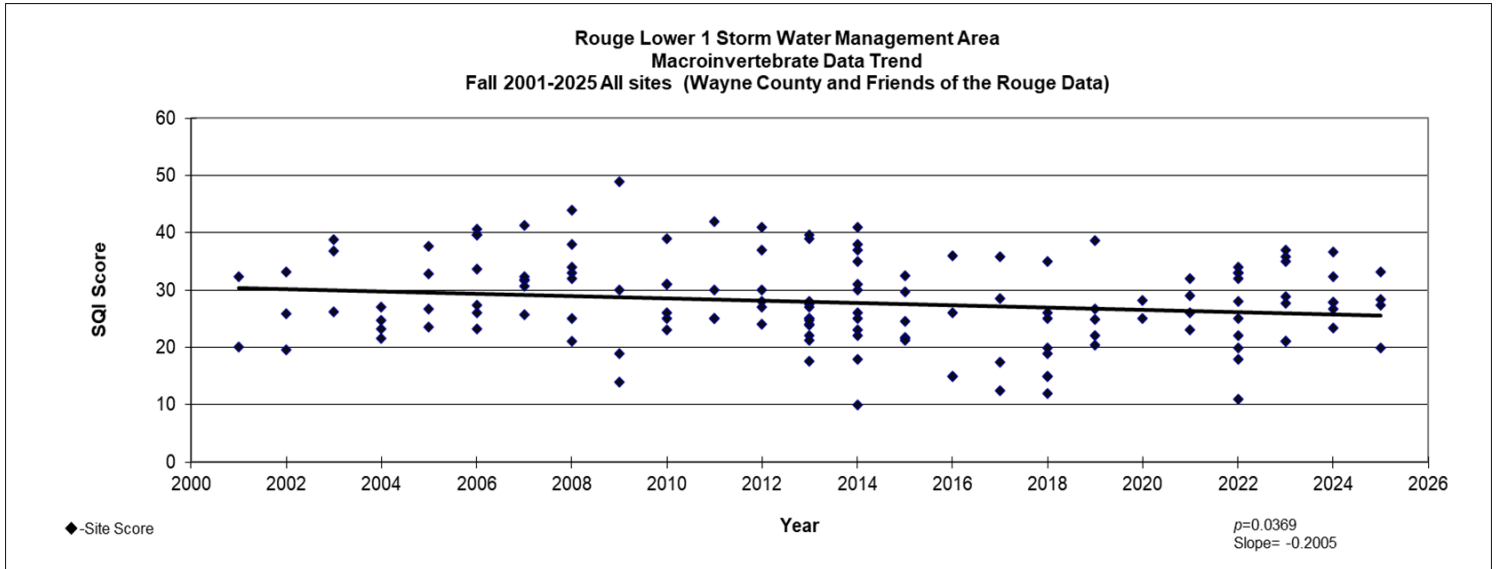
**Rouge Middle Branch and Johnson Creek
Macroinvertebrate Data Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)**



Middle Rouge without Tonquish Creek
Macroinvertebrate Data Trend
Fall 2001-2025 All Sites (Wayne County and Friends of the Rouge Data)



Lower



Rouge Lower Branch
Macroinvertebrate Data Trend
Fall 2001-2025 (Wayne County and Friends of the Rouge Data)

