

STUDENT WATER QUALITY MONITORING of the ROUGE RIVER WATERSHED

ROUGE EDUCATION PROJECT

Fall Monitoring Data 2001

School/Academy	Branch	Temperature		DO % sat	FC		pH		BOD		Temp		TP		NO3		Turb		TS		OWQ or Adj.		
		Air	Water		Q-value	col/100	Q-value	units	Q-value	mg/l	Q-value	ΔT, °C	Q-value	mg/l	Q-value	mg/l	Q-value	ntu	Q-value	mg/l		Q-value	
		°C																					
1. Bishop Borgess H/S	Upper	39 F	11				7.3															=	63.5
2. Crestwood High School	Middle		6	60%	58	6,000	14	7.1	90	5.9	52	0.0°	93	0.10	88	1.00	98	41	46	300.75	60	adj	63.1
3. Field Elementary School	Lower	12	11	72%	80	39	56	8.4	70	1.5	10	0.0°	93			3.00	92	137	15	365	50	adj	74.2
4. Hickory Grove Elementary	Main	40 F	15	100%	99	23	58	7.8	88	5.0	55	4.0°	80			15.00	42					=	67.7
5. Huron Valley Lutheran H/S	Middle		11	120%	89	500	26	8.0	85	3.5	61	1.0°	90	0.60	60	5.00	70	17	65	200	73		
6. Logan Elementary School	Lower	44 F	38 F	70%	75			7.5	94	1.5	95	0.0°	94										
7. Model High School	Main	2	8	100%	100	200	36	7.4	93	5.0	55	0.0°	93	1	46	10	50	10	76			adj	70.6
8. North Farmington H/S	Upper	12.3	11.5	85%	85	32	32	7.0	89	6.0	48			9.00	5	5.00	65	15	65	1,200	20	adj	55.9
9. Parcels Middle School	Middle	45 F	44 F	63%	63	200	33	7.5	90	5.0	52	44 F	92	2.00	25	3.00	94	60	32	425	43	=	58.3
10. Power Middle School	Upper																						
11. Renaissance High School	Main																						
12. Scotch Elementary School	Main																						
13. Snow Elementary School	Main	8	9					8.0															
14. University Public School	Upper																						
15. Wayne Memorial H.S.	Lower	41 F	10	67%	65	40	55	5.2	29			5.0°	72			7.50	56	1 in.	15	1,000	15	adj	50.4
16. Wilson Middle School	Middle	10	15	88%	94	60	52	6.5	75	0.5	94	0.0°	93	0.002	97	0.50	98	4 ft.	45			adj	82.9

Student Water Quality Monitoring - BENTHIC MACROINVERTEBRATES

Name of School/Academy	Score and Ranking	Benthic/Macroinvertebrates Range Chart
Bishop Borgess H/S		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 80%;"> <p>Range Chart</p> <p>> 48 Excellent</p> <p>34 - 48 Good</p> <p>19-33 Fair</p> <p>< 19 Poor</p> </div>
Crestwood High School		
Field Elementary School	24.3 Fair	
Hickory Grove Elementary		
Huron Valley Lutheran H/S	14.1 Poor	
Logan Elementary School	17.3 Poor	
Model High School		
North Farmington H/S	9.4 Poor	
Parcels Middle School		
Power Middle School		
Renaissance High School		
Scotch Elementary School		
Snow Elementary School	6.1 Poor	
University Public School		
Wayne Memorial H.S.		
Wilson Middle School	18.2 Poor	

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Student Water Quality Monitoring - PRIMARY INFORMATION

Name of School/Academy	Location of School/Academy	Name of Teacher(s)	Sam-pling Branch	Sam-pling Date	Sampling Location	Crossroads of Sampling Location	Lat. °North	Long. °West	Program(s) Performed			Weather
									WQT	B/M	Sur.	
1. Bishop Borgess High School - Returning	11685 Appleton Ave. Redford Twp. 48239	Christine Faro	Upper	10/17	Bell Creek	¼ mile north of I-96 on west side of telegraph			✓			Clear skies, windy
2. Crestwood High School - Returning	1501 N. Beech Daly RD. Dearborn Hts. 48127	Diana Johns	Middle	10/17	Parr Site at Hines Park behind Hillcrest E.S.	Telegraph and Edward Hines Drive, Dearborn Heights	42° 21' N	83° 17' W	✓			Cold, clear skies
3. Field Elementary School - Returning	1000 S. Haggerty Canton Twp. 48188	Rick Plecha	Lower	10/19	Truesdell Creek next to school	1000 S. Haggerty, Canton			✓	✓	✓	Mostly cloudy
4. Hickory Grove Elementary - Returning	2800 Lahser Rd. Bloomfield Hills 48302	Elizabeth Akers Molly Reed Anne Shaya	Main	10/17	Hickory Grove Stream on school grounds	Lahser and Square Lake Rd.			✓			Chilly and sunny
5. Huron Valley Lutheran High School - Returning	33740 Cowan Road Westland 48185	Steve Grosinske	Middle	10/22	Footbridge in woods near Nankin Mills in Hines Park	Farmington Rd. and Hines Dr.			✓	✓	✓	Sunny and warm
6. Logan Elementary - Returning	3811 Cicotte Detroit 48210	Diane Sampson	Lower	10/17	Superior Twp. Washtenaw County	Cherry Hill & Prospect Rd.	42° 18'	83° 32'	✓	✓	✓	Sunny and windy
7. Model High School - Returning	1661 Hunters Ridge Bloomfield Hills 48304	Linda Toth	Main	10/17	Hickory Grove Stream on school grounds	Lahser and Square Lake Rd.			✓			
8. North Farmington High School - Returning	32900 W. 13 Mile Road Farmington Hill 48334	Peggy Najarian	Upper	10/17	Dunckel Middle School, Farmington Hills	12 Mile between Orchard Lake and Farmington			✓	✓	✓	Scattered clouds, windy
9. Parcels Middle School - Returning	20600 Mack Ave. Grosse Pointe Woods 48237	Arlene Hicks	Middle	10/17	Northville Recreation Area	7 Mile Rd. and Northville Rd. Northville	42° 15' N	83° 40' W	✓			Sunny, windy and cold
10. Power Middle School - Returning	34740 Rhonswood Farmington 48335	Eric Hammar	Upper	10/17	Gill Elementary School City of Farmington	Gill & 9 Mile Rd.						
11. Renaissance High School - Returning	6565 W. Outer Drive Detroit 48235	Neelam Patel	Main	10/17								
12. Scotch Elementary - Returning	5959 Commerce Rd. West Bloomfield 48324	Mary O'Neil	Main	10/17	West Bloomfield Nature Preserve	Pontiac Trail and Arrowhead (west of Old Orchard Rd.)						
13. Snow Elementary - Returning	2000 Culver Street Dearborn 48124	Christine Kosal	Main	10/17	Henry Ford Estate, Dearborn	Michigan & Evergreen	42° 18'	83° 13'	✓	✓	✓	Sunny
14. University Public School Middle School - New	2727 2nd Ave. Detroit 48201	Pam Simek	Upper	10/17	Lola Valley Park, Redford	Pomona and Kinloch (west of Beech Daly)						
15. Wayne Memorial High School - Returning	3001 Fourth St. Wayne 48184	Jennifer Janke	Lower	10/17	Behind Wayne Memorial High School	Glenwood & Michigan Wayne & Venoy Rd.			✓			Clear, sunny skies, breezy
16. Wilson Middle School - Returning	1275 15th Street Wyandotte 48192	Michael White	Middle	10/17	Tonquish Creek. Holiday Nature Preserve	Hix and Koppemick Road			✓	✓	✓	Clear and cold

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ABBREVIATIONS / SYMBOLS

DO - Dissolved Oxygen	Adj. - Adjustment to the Overall Water Quality
FC - Fecal Coliform	B/M - Benthic / Macroinvertebrates
pH - pH	B/P - Barometric Pressure
BOD - Biochemical Oxygen Demand	ntu - Nephelometer Turbidity Units
Temp - Change in Temperature	OWQ - Overall Water Quality
TP - Total Phosphorus	Q-value - Quality Value
NO ₃ - Nitrates	Sur. - Physical Survey
Turb - Turbidity	WQT - Water Quality Tests
TS - Total Solids	✓ Test or Study Performed