

Polk County Conservation Water
Quality Monitoring Program



2023 Snapshot Report



Snapshot History

In 2000, the IOWATER program (Iowa DNR) began monitoring events throughout the state of Iowa to provide a 'snapshot' of water quality in Iowa. Several years ago, the DNR discontinued the IOWATER program (1999-2016) but events continued through Iowa Environmental Council with Susan Heathcote. In 2022, Polk County Conservation Water Quality Monitoring Program, already monitoring 70 sites throughout Polk County twice a month, accepted management of the annual snapshot events. Twice a year field monitors and volunteers monitor over 100 Snapshot sites on streams, ponds, and lakes throughout Polk County. Field data obtained include weather, water temperature, flow, odor and color, pH, dissolved oxygen, chloride, and nutrients (nitrates, nitrites, and phosphates). In addition, lab samples are collected at over 30 sites and analyzed for E coli used to indicate the potential presence of pathogens.

Each year, field monitors and volunteers record hundreds of hours to make the events a success. These events are made possible through their dedication and the commitment of the partnering organizations who share their employees with us. Thank you to Des Moines Water Works for providing lab analysis and continued support.

Snapshot events are key to our program, allowing Iowans to become actively involved in their local watersheds while helping to paint a picture of the water quality of our waterways. Event results are uploaded to the EPA's water quality exchange and [MyWaterWay](#) websites.

Partners

City of Altoona
City of Ankeny
City of Clive
City of Des Moines
Des Moines Parks and Recreation
Des Moines Water Works
City of Johnston
City of and West Des Moines
West Des Moines Parks and Recreation
Izaak Walton League
Impact 7G
Seneca Companies
Wells Fargo



Summary of Site Data

Snapshot events were held on **May 16** and **September 19, 2023**. Volunteers and field monitors gathered early on Tuesday morning of the event to obtain site assignments, supplies, training and meet their teams. At each event, approximately 100 stream site assessments were completed. Participants also collected lab samples on one third of these sites. These lab samples were then analyzed by Des Moines Water Works.

Results were tabulated for each stream site assessment. Detailed individual site field assessments and lab results are available on the EPA's water quality exchange and [MyWaterWay](#) websites and on site assessment pages that follow the data summary

WEATHER The drought continued to affect sites throughout Polk County in 2023 and resulted in fall assessments reporting dry sites. These are indicated by No Results or "NR" on the site assessments.

	Spring	Fall
# Completed Assessments:	111	90
# Lab Samples Analyzed:	34	34
Weather:	Sunny	Cloudy and rain
Air Temperature Range: (Degrees Fahrenheit)	58-82	58-72

WATER FLOW

	Dry	Stagnant	Slow	Moderate	Fast	Torrent	Not Reported
Spring	0 0%	9 8%	44 40%	44 40%	4 4%	0 0%	10 9%
Fall	8 9%	13 14%	36 40%	21 23%	5 6%	0 0%	7 8%

WATER TEMPERATURE (degrees Fahrenheit)

Spring				Fall			
<u>< 70</u>	<u>70-80</u>	<u>> 80</u>	<u>Not reported</u>	<u>< 70</u>	<u>70-80</u>	<u>> 80</u>	<u>Not reported</u>
90	15	0	6	76	1	0	12
81%	14%	0%	5%	84%	1%	0%	14%



Water Color and Odor

WATER COLOR AND ODOR Spring

No odor and clear water	Odor and/or color present
82	26
74%	19%

<u>Site # Abbreviation</u>	<u>Color</u>	<u>Odor</u>
977112 (Site WC3)	Green	
977329 Unnamed creek - Hartford Ave	Green	
977083 (Site FRC2)	Milky	
977110 (Site WC1)	Milky	
977301 Fourmile Creek	Milky	
925036 Beaver Creek	Muddy	
977063 (Site Beaver Ck Creekside 2)	Muddy	
977071 (Site FC1)	Muddy	
977100 (Site NWC4)	Muddy	
977120 Beaver Creek	Muddy	
977159 (Site LBC3)	Muddy	
977160 (Site Beaver Creek at Prairie Point)	Muddy	
977325 Crawford Creek	Muddy	
977326 Case Lake Inflow	Muddy	
977096 (Site NWC Trib 2)	Other	
977089 (Site Leetown Creekway 2)	Tea-Color	
977156 (Site CC3)	Tea-Color	
977333 Greenwood pond inflow - west side	Tea-Color	
977335 Greenwood pond outflow	Tea-Color	
977116 (Site YC1)		Fishy
977326 Case Lake Inflow		Fishy
977329 Unnamed creek - Hartford Ave		Fishy
977334 Greenwood pond inflow on east side		Other-Sulphur
977117 (Site YC2)		Scum/Odor
977189 Saylor Creek		Scum/Odor



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MONITORING PROGRAM



Water Color and Odor

WATER COLOR AND ODOR Fall

No odor and clear water	Odor and/or color present
40	33
55%	45%

<u>Site # Abbreviation</u>	<u>Odor</u>	<u>Color</u>
977003 YYD		Tea-Color
977012 GLU		Muddy
977059 (Site BC1)		Tea-Color
977061 (Site BC3)		Tea-Color
977071 (Site FC1)		Muddy
977076 (Site FMC4)		Tea-Color
977077 (Site FMC5)		Muddy
977083 (Site FRC2)		Muddy
977088 (Site Leetown Creekway 1)		Muddy
977089 (Site Leetown Creekway 2)		Muddy
977090 (Site LFMC1)		Muddy
977091 (Site LFMC2)		Muddy
977092 (Site MC1)		Tea-Color
977095 (Site NWC Trib 1)		Muddy
977096 (Site NWC Trib 2)		Muddy
977099 WNW		Muddy
977100 (Site NWC4)		Muddy
977101 (Site NWC5)		Muddy
977102 (Site NWC6)		Muddy
977112 (Site WC3)	other-decaying vegetation	Muddy
977114 (Site WC5)		Muddy
977116 (Site YC1)		Tea-Color



Transparency

TRANSPARENCY is evaluated using a secchi disk (ponds and lakes) or transparency tube with secchi disk at bottom.

Spring Range

12 – 60+ cm

<u>Less than 20 cm</u>	<u>20-39 cm</u>	<u>40-59 cm</u>	<u>60 cm or greater</u>
2	7	26	68
2%	7%	25%	66%

Site # Abbreviation

Site # Abbreviation

Site # Abbreviation

All other sites

DGW 977333

BBV 977061 (BC3)

BBV 925036

SLL 977164 (Saylorville Lake)

CCM 977156 (CC3)

BBV 977059 (BC1)

CLI 977326

BBV 977060 (BC2)

DSM 977329

BBV 977062 (Creeside 1)

SSP 977107 (SC1)

BBV 977063 (Creeside 2)

SSY 977189

BBV 977064 (Beaver Creek Elem.)

977088 (Leetown Creekway 1)

BBV 977120

BBV 977160 (Prairie Point)

BLB 977159 (LBC3)

CCW 977325

GLU 977012

GLU 977084 (Grays Trib)

MMD 977302

SSN 977322

SSP 977108 (SC2)

SSP 977222 SC3

SSP 977242

977089 (Leetown Creekway 2)

WGC 977330

WWL 977110 (WC1)

WWL 977111 (WC2)

WWL 977112 (WC3)

WWL 977113 (WC4)

WWL 977224 WC8

YYD 977117 (YC2)



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WATER QUALITY
MONITORING PROGRAM



Transparency

TRANSPARENCY is evaluated using a secchi disk (ponds and lakes) or transparency tube with secchi disk at bottom.

Fall Range

5 – 60+ cm

<u>Less than 20 cm</u>	<u>20-39 cm</u>	<u>40-59 cm</u>	<u>60 cm or greater</u>
17	17	15	27
22%	22%	20%	36%
<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	All others
YYD 977003	977059 Site BC1	CCM 977066	
GLU 977012	977061 Site BC3	977071 Site FC1	
977088 Site Leetown Creekway 1	FFM 977073	FFM 977075	
977090 Site LFMC1	977077 Site FMC5	FFM 977079	
977091 Site LFMC2	977083 Site FRC2	977080 Site FMC8	
977096 Site NWC Trib 2	977092 Site MC1	FLH 977087	
WNW 977099	977095 Site NWC Trib 1	977093 Site MC2	
977112 Site WC3	977097 Site NWC1	977094 Site MC3	
977116 Site YC1	977100 Site NWC4	977111 Site WC2	
YYD 977117	977101 Site NWC5	977114 Site WC5	
977157 Site LBC1	977102 Site NWC6	977115 Site WC6	
BBG 977192	977113 Site WC4	977161 Site Big Creek	
FLF 977321	977163 Site Grays Lake	RRO 977196	
DSM 977328	977164 Site Saylorville Lake	977224 WC8	
DSM 977329	MMD 977302	SSP 977242	
DGE 977334	FMC 977312		
DGS 977335	FLF 977324		



2023 Snapshot Report

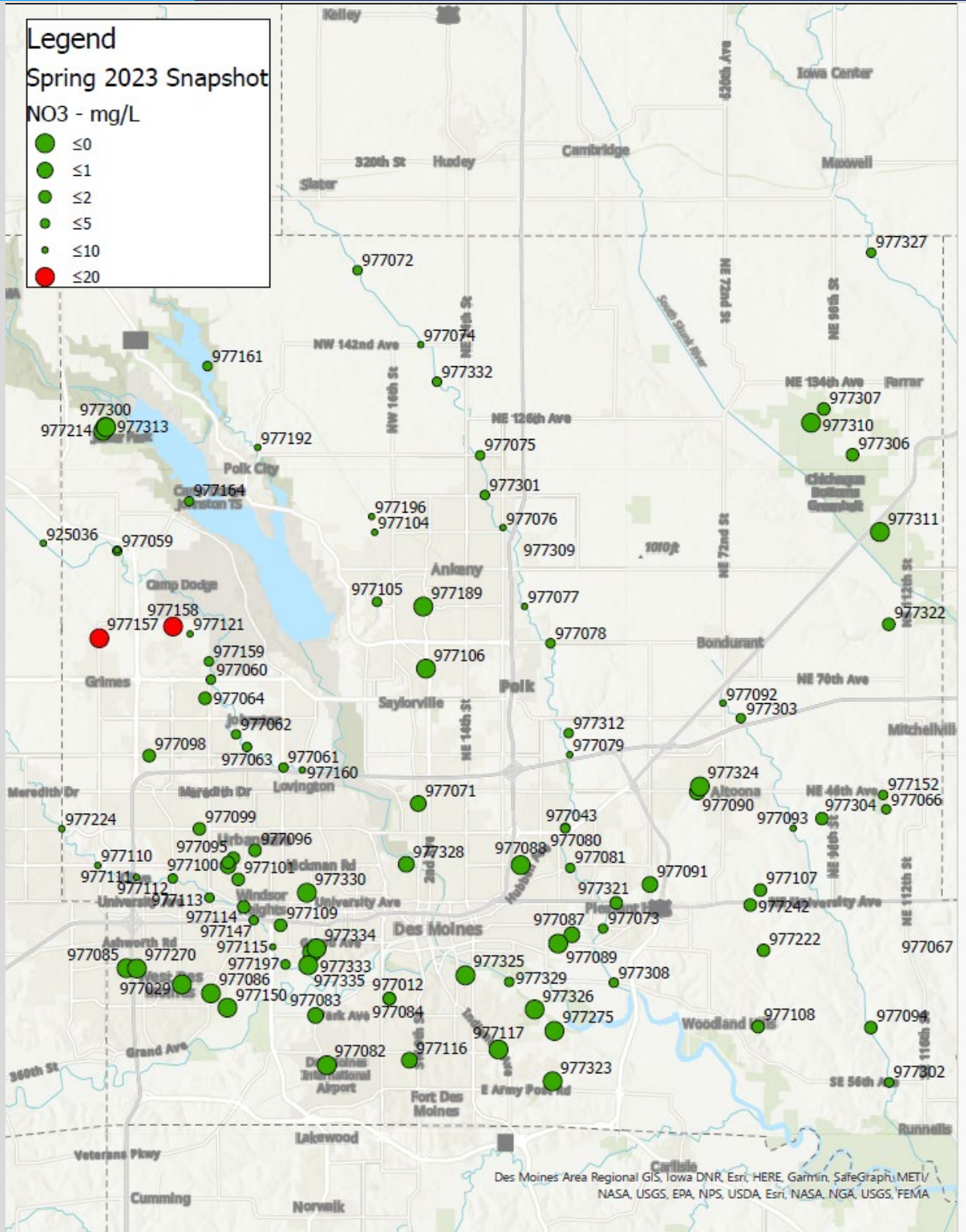
POLK COUNTY



WATER QUALITY MONITORING PROGRAM



Nitrate - Spring



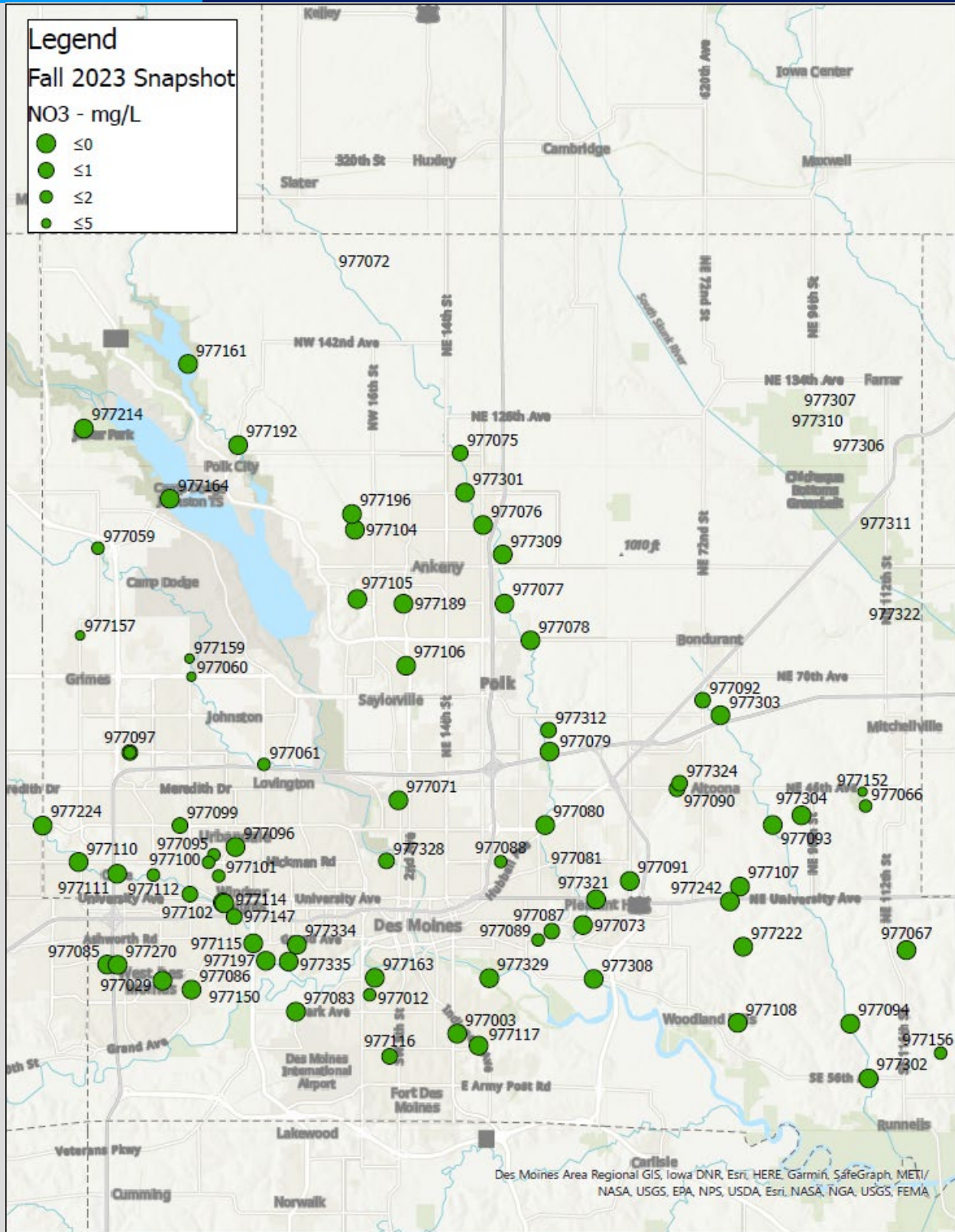
Nitrate - Fall

Legend

Fall 2023 Snapshot

NO3 - mg/L

- ≤0
- ≤1
- ≤2
- ≤5



Des Moines Area Regional GIS, Iowa DNR, Esri, HERE, Garmin, SafeGraph, METI/
NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS, FEMA



Nitrate

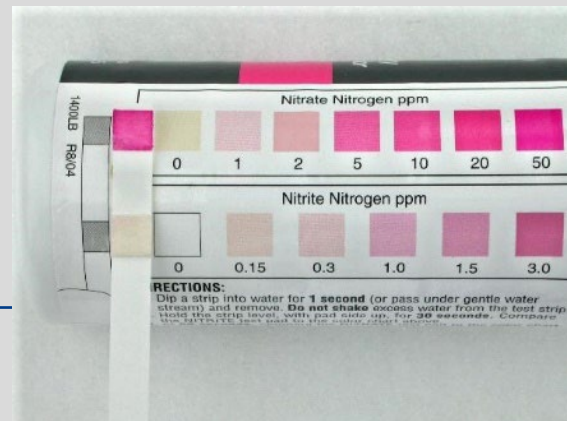
NITRATE Higher levels of nitrate typical with spring runoff, are more common in agricultural areas than levels found in urban areas. The highest concentrations of nitrate was 20 mg/L, which is above the drinking water threshold of 10 mg/L.

Spring Range

0 - 20 mg/L

0-3 mg/L	4-7 mg/L	8-14 mg/L	>14 mg/L
54	32	19	3
50%	30%	18%	3%

	Site # Abbreviation	Site # Abbreviation	Site # Abbreviation
All others	BBV 977059 (BC1)	BBG 977192	BLB 977157 (LBC1)
	BBV 977060 (BC2)	BBV 925036	BLB 977158 (LBC2)
	BBV 977061 (BC3)	BBV 977120	WLW 977225
	BBV 977062 (Creeside 1)	BBV 977160 (Prairie Point)	
	BBV 977063 (Creeside 2)	BLB 977121	
	BCL 977161 (Big Creek)	FFM 977074 (FMC2)	
	BLB 977159 (LBC3)	FFM 977076 (FMC4)	
	CCM 977066	FFM 977077 (FMC5)	
	CCM 977152	FFM 977079 (FMC7)	
	CCM 977156 (CC3)	MMD 977092 (MC1)	
	DSM 977329	MMD 977093 (MC2)	
	FFM 977043	RRC 977104 (RC1)	
	FFM 977072 (FMC1)	RRO 977196	
	FFM 977075 (FMC3)	WNW 977102 (NWC6)	
	FFM 977078 (FMC6)	WWL 977110 (WC1)	
	FFM 977080 (FMC8)	WWL 977111 (WC2)	
	FFM 977081 (FMC9)	WWL 977115 (WC6)	
	FFM 977301	WWL 977223 WC Trib	
	FFM 977308	WWL 977224 WC8	
	FFM 977332		
	FMC 977073 (FMC10)		
	FMC 977312		
	IIN 977327		
	MMD 977302		
	MMD 977303		
	RRC 977105 (RC2)		
	SLL 977164 (Saylorville Lake)		
	WNW 977097 (NWC1)		
	WWL 977112 (WC3)		
	WWL 977113 (WC4)		
	WWL 977147		
	WWL 977197		





Nitrate

NITRATE Higher levels of nitrate are typical with spring runoff, particularly in agricultural areas, while lower levels are found in fall and the urban areas. Drought may result in a flush of higher nutrient levels when not typical. The highest concentrations at fall 2023 event of nitrate was 5 mg/L, which is not above the drinking water threshold of 10 mg/L.

Fall Range

0 - 5 mg/L

<u>0-3 mg/L</u>	<u>4-7 mg/L</u>	<u>8-14 mg/L</u>	<u>>14 mg/L</u>	<u>Not reported</u>
75	4	0	0	11
83%	4%	0%	0%	12%

Dry unless *indicated

	Site # Abbreviation
All others	BC2 977060
	CCM 977152
	LBC1 977157
	LBC3 977159

Site # Abbreviation
C04 977310
C38 977311
CBL 977306
CCR 977307
DGW 977333
FFM 977043 *
FFM 977072 *
FFM 977081 *
JJR 977150
SSN 977322
WC Trib 977223
*unsafe due to weather or access conditions



2023 Snapshot Report

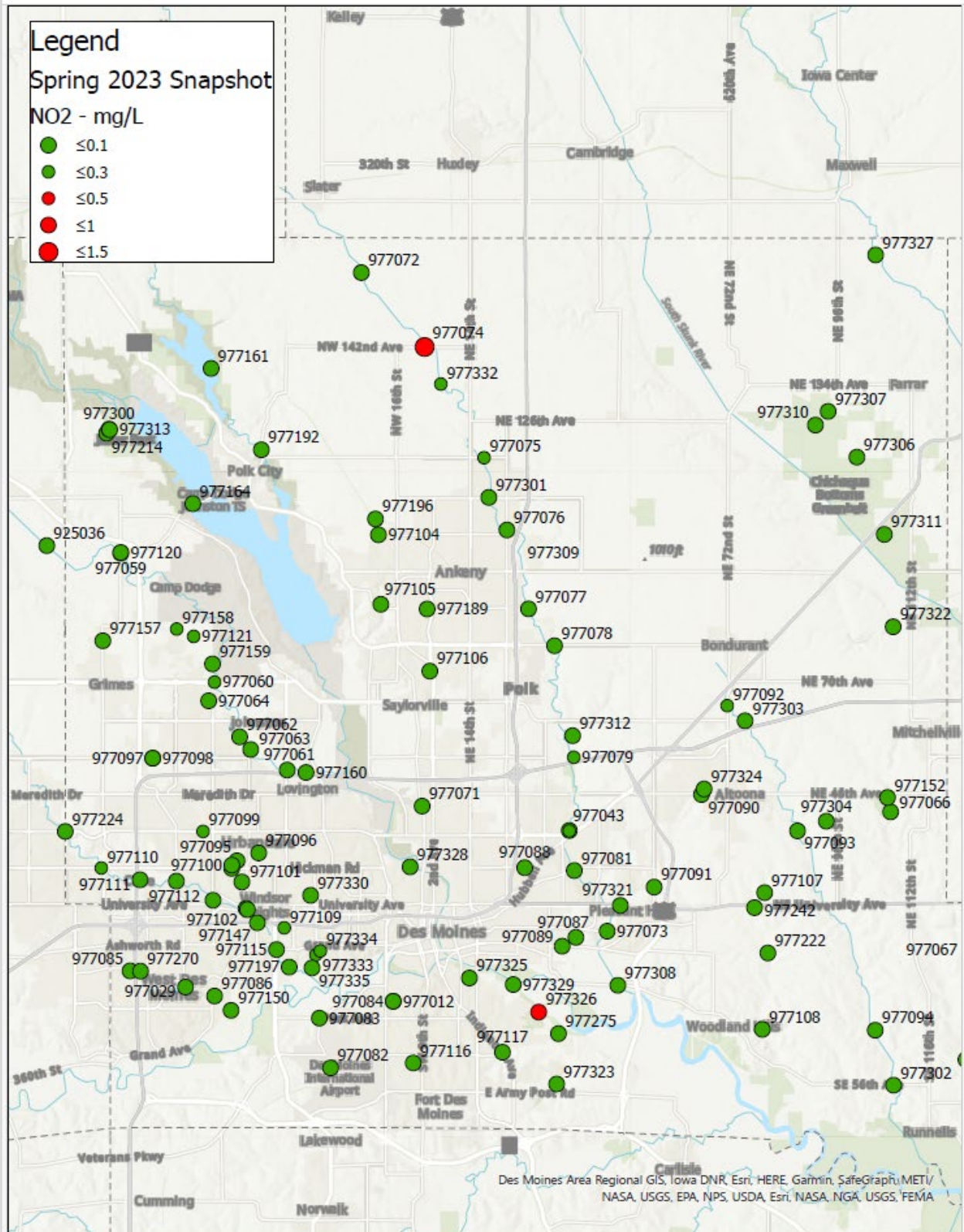
POLK COUNTY



Nitrite - Spring

Legend
Spring 2023 Snapshot
NO2 - mg/L

- ≤0.1
- ≤0.3
- ≤0.5
- ≤1
- ≤1.5

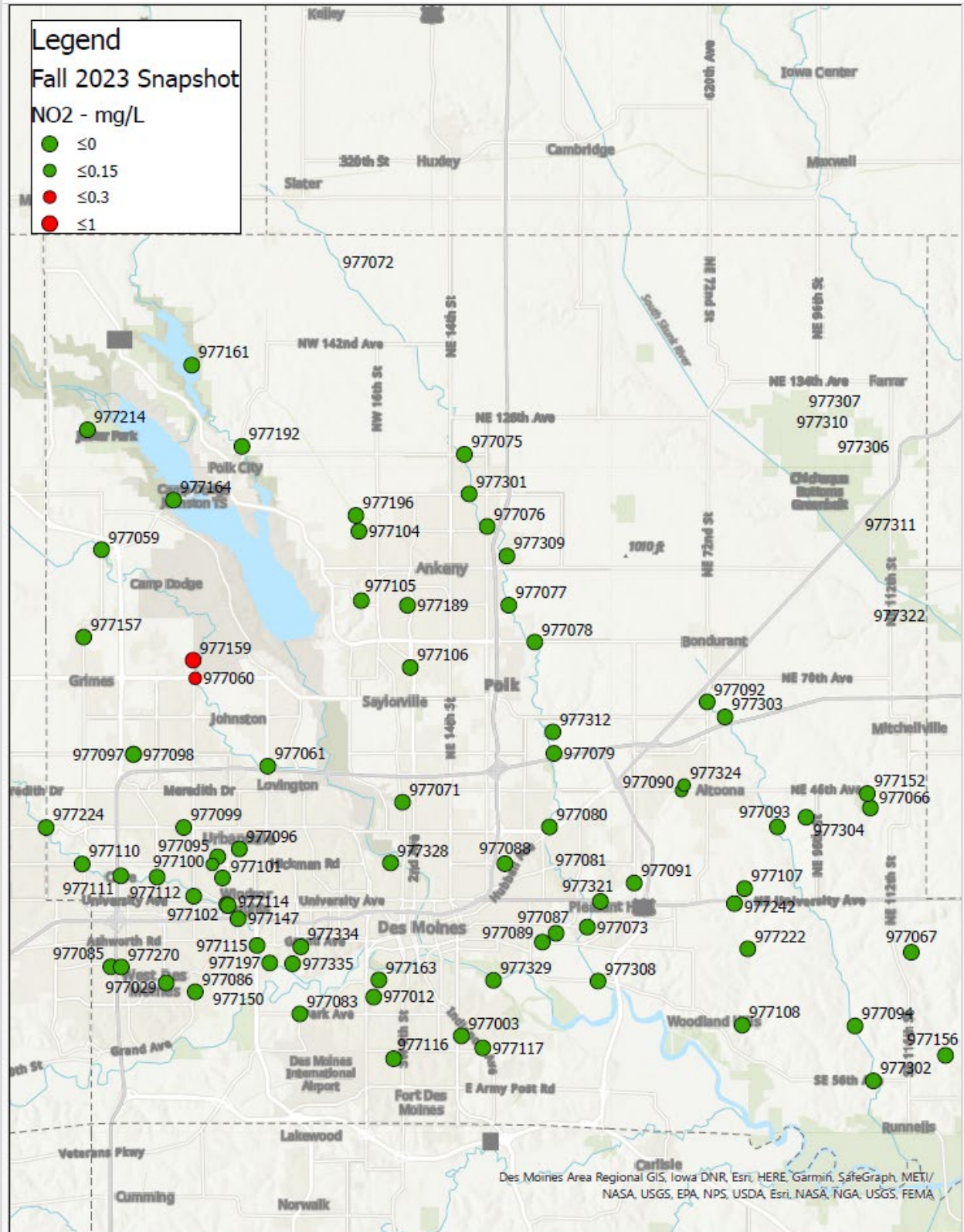


Des Moines Area Regional GIS, Iowa DNR, Esri, HERE, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS, FEMA

Nitrite - Fall

Legend
Fall 2023 Snapshot
NO2 - mg/L

- ≤ 0
- ≤ 0.15
- ≤ 0.3
- ≤ 1





Nitrite

NITRITE values ranged from 0 – 1.5 mg/L, well above the threshold of 0.3 mg/L. Most site assessments reported 0 mg/L. Any presence of nitrite is unexpected as it is quickly converted when entering water, however, pollution and drought can result in the presence of nitrite. Nitrite concentrations are higher at times when water quality is low, flow slow or stagnant, and dissolved oxygen less available.

Spring Range 0-1.5 mg/L

0 mg/L

75
80%

0.1 – 0.9 mg/L

15
16%

> 1.0 mg/L

2
2%

Not reported (closed for construction)

2
2%

	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>
All others	BBV 977060 (BC2) BLB 977121 BLB 977158 (LBC2) DGE 977334 DGW 977333 FFM 977075 (FMC3) FFM 977079 (FMC7) FFM 977080 (FMC8) FFM 977332 MMD 977092 (MC1) WLW 977225 WNW 977099 (NWC3) WWG 977109 (Waveland) WWL 977110 (WC1) WWL 977223 WC Trib.	CLI 977326 FFM 977074 (FMC2)	CCM 977067 (CC2) FDR 977309

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WATER QUALITY
MONITORING PROGRAM



Nitrite

NITRITE values ranged from 0 – 1.0 mg/L, well above the threshold of 0.3 mg/L. Twelve percent of sites were dry due to persistent drought conditions. Nitrite concentrations are higher in the presence of pollution and poor water quality caused by slow flow or stagnant waters.

Fall Range 0-1 mg/L

<u>0 mg/L</u>	<u>0.1 – 0.9 mg/L</u>	<u>> 1.0 mg/L</u>	<u>Not reported (dry)</u>
74	3	1	11
83%	3%	1%	12%

	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>
All other sites	BC2 977060	LBC3 977159	FFM 977043
	FLF 977324		FFM 977072
	LFMC1 977090		FFM 977081
			JJR 977150
			WC Trib. 977223
			CBL 977306
			CCR 977307
			C04 977310
			C38 977311
			SSN 977322
			DGW 977333





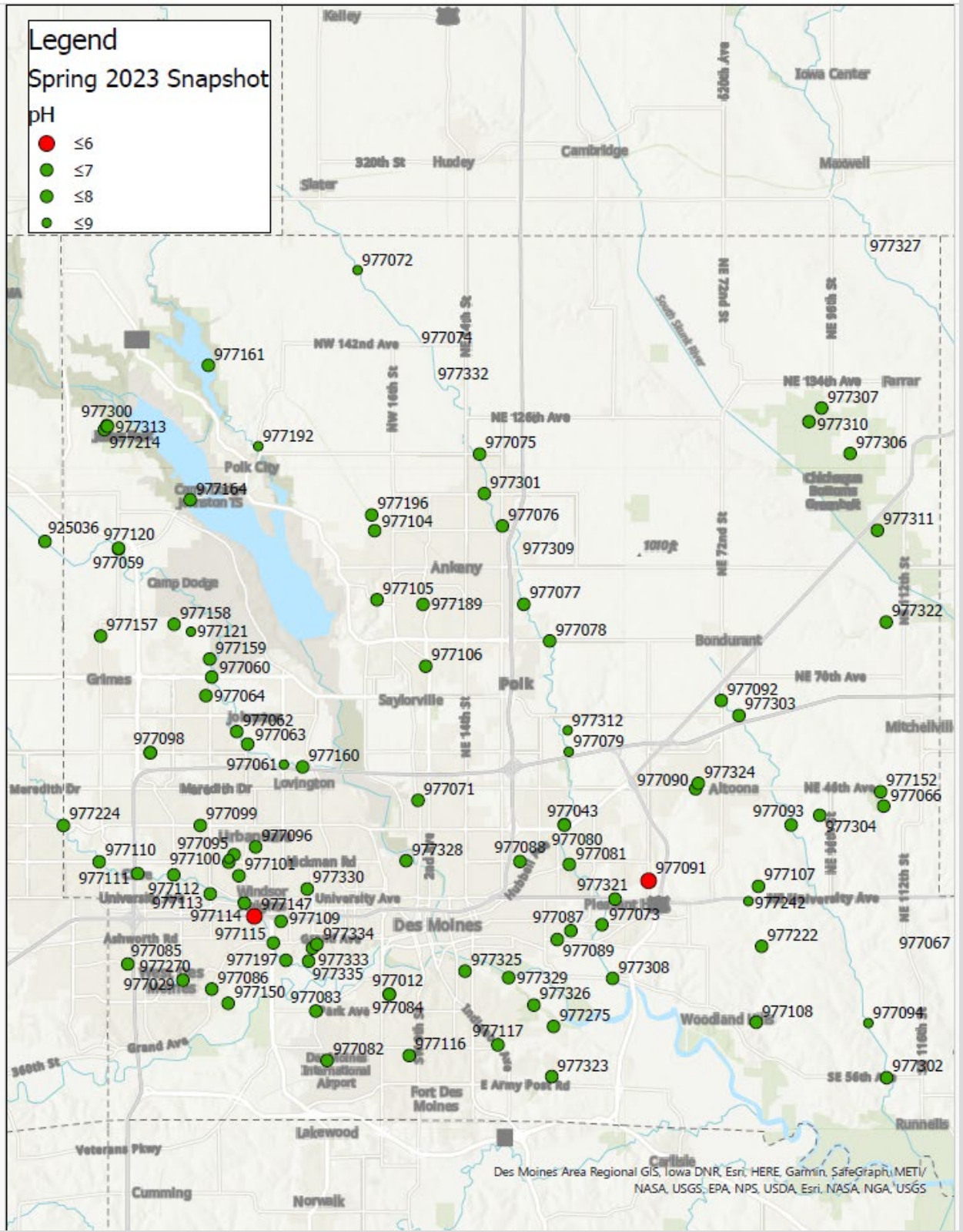
pH - Spring

Legend

Spring 2023 Snapshot

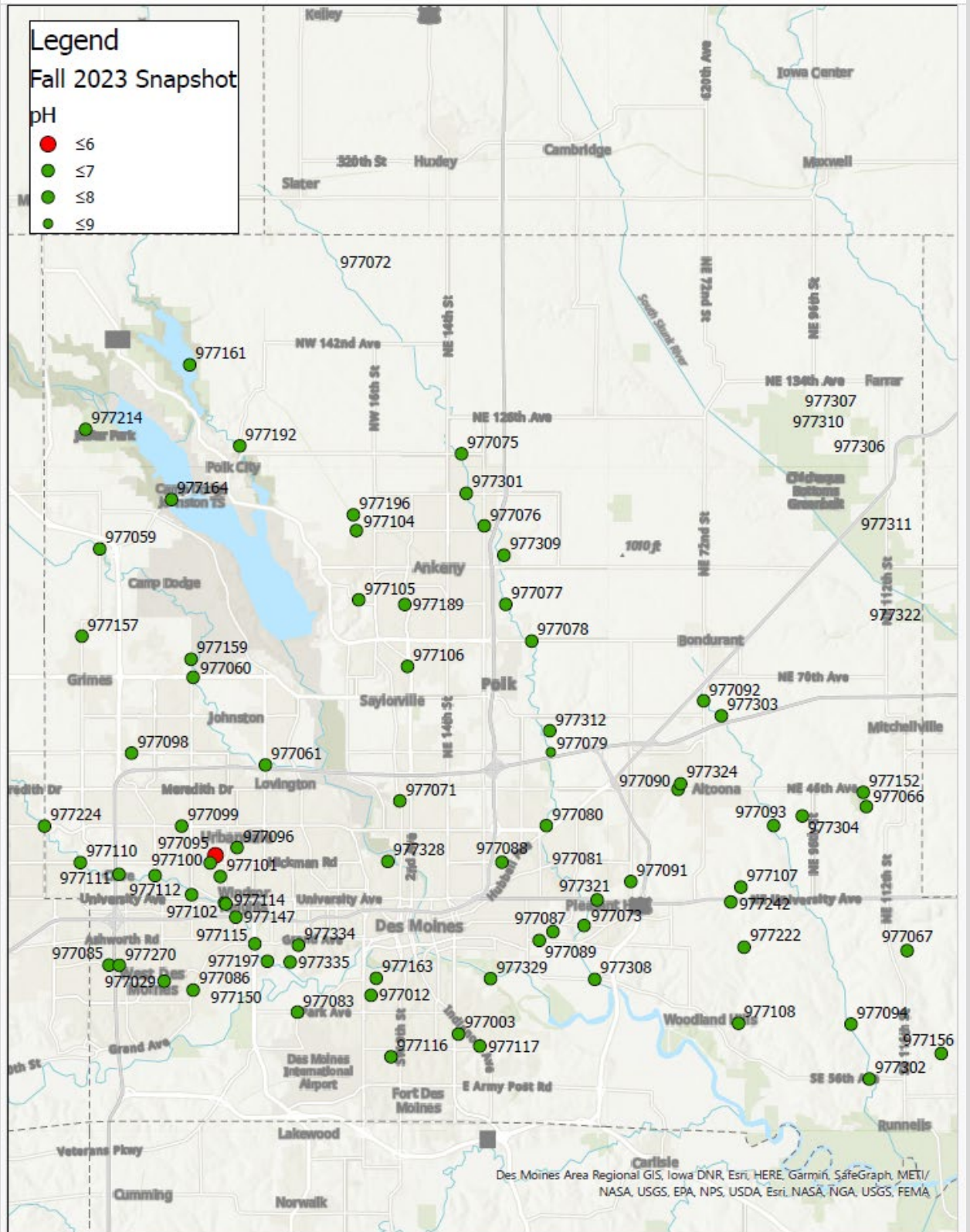
pH

- ≤6
- ≤7
- ≤8
- ≤9





pH - Fall





pH

PH values in the range of 7.0 to 8.5 is considered normal in Iowa. High pH values may be caused by algae growth and low pH values could be associated with wastewater pollution, but also may be caused by organic decomposition and low water levels.

Spring Range 6-9

<u>5</u>	<u>6</u>	<u>7 or 8</u>	<u>9</u>
0	2	92	11
0%	2%	86%	10%

Site # Abbreviation

None

Site # Abbreviation

LFL 977091 (LFMC2)
WWL 977147

Site # Abbreviation

All other sites

Site # Abbreviation

BBG 977192
BBV 977061 (BC3)
BLB 977121
CCM 977156 (CC3)
FFM 977072 (FMC1)
FFM 977079 (FMC7)
MMD 977094 (MC3)
SSP 977242
WNW 977102 (NWC6)
WNW 977252

Fall Range 6-9

<u>5</u>	<u>6</u>	<u>7 or 8</u>	<u>9</u>
0	1	76	2
0%	1%	84%	2%

Site # Abbreviation

None

Site # Abbreviation

977095 NWC Trib. 1

Site # Abbreviation

All others

Site # Abbreviation

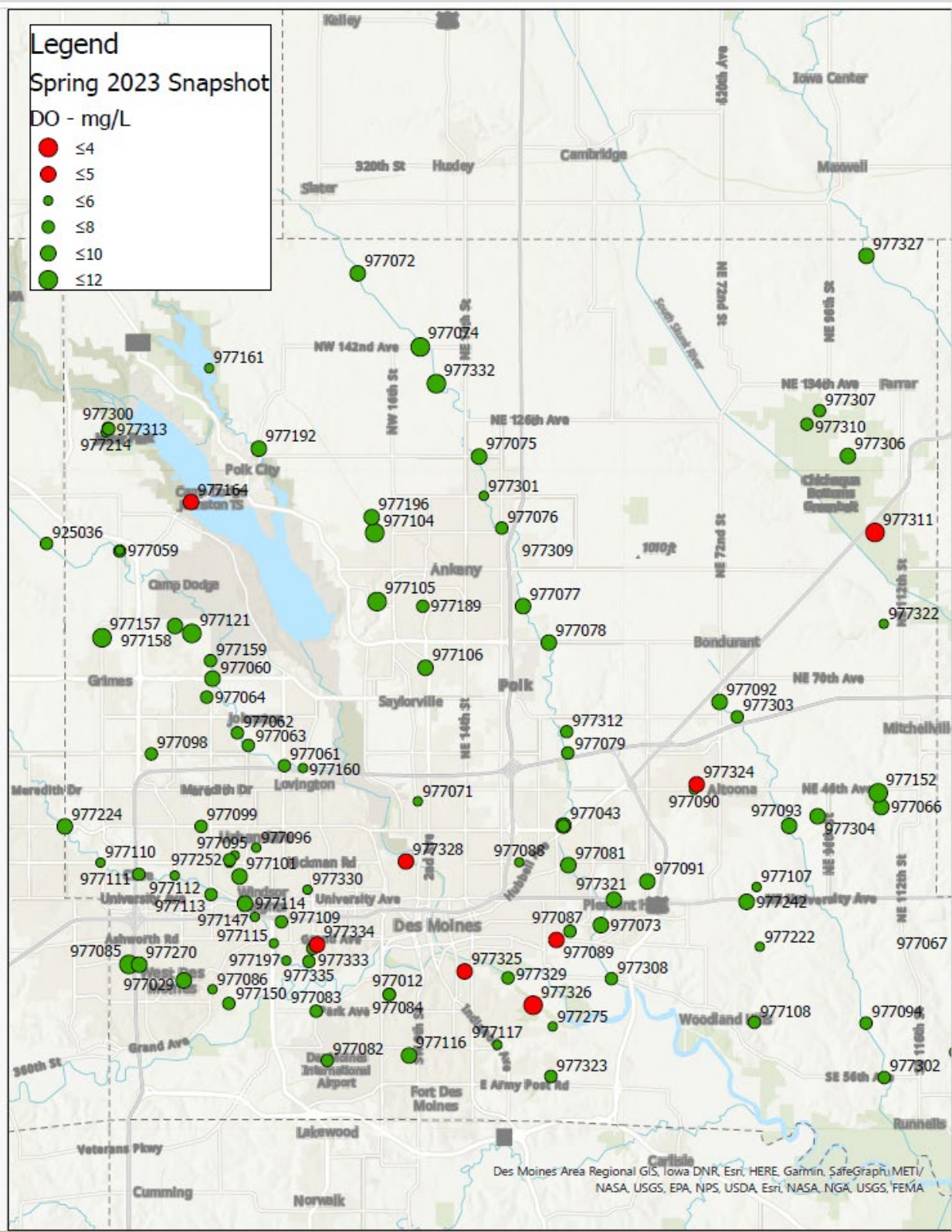
977079 FFM
977097 NWC1

2023 Snapshot Report

Dissolved Oxygen - Spring

Legend
Spring 2023 Snapshot
DO - mg/L

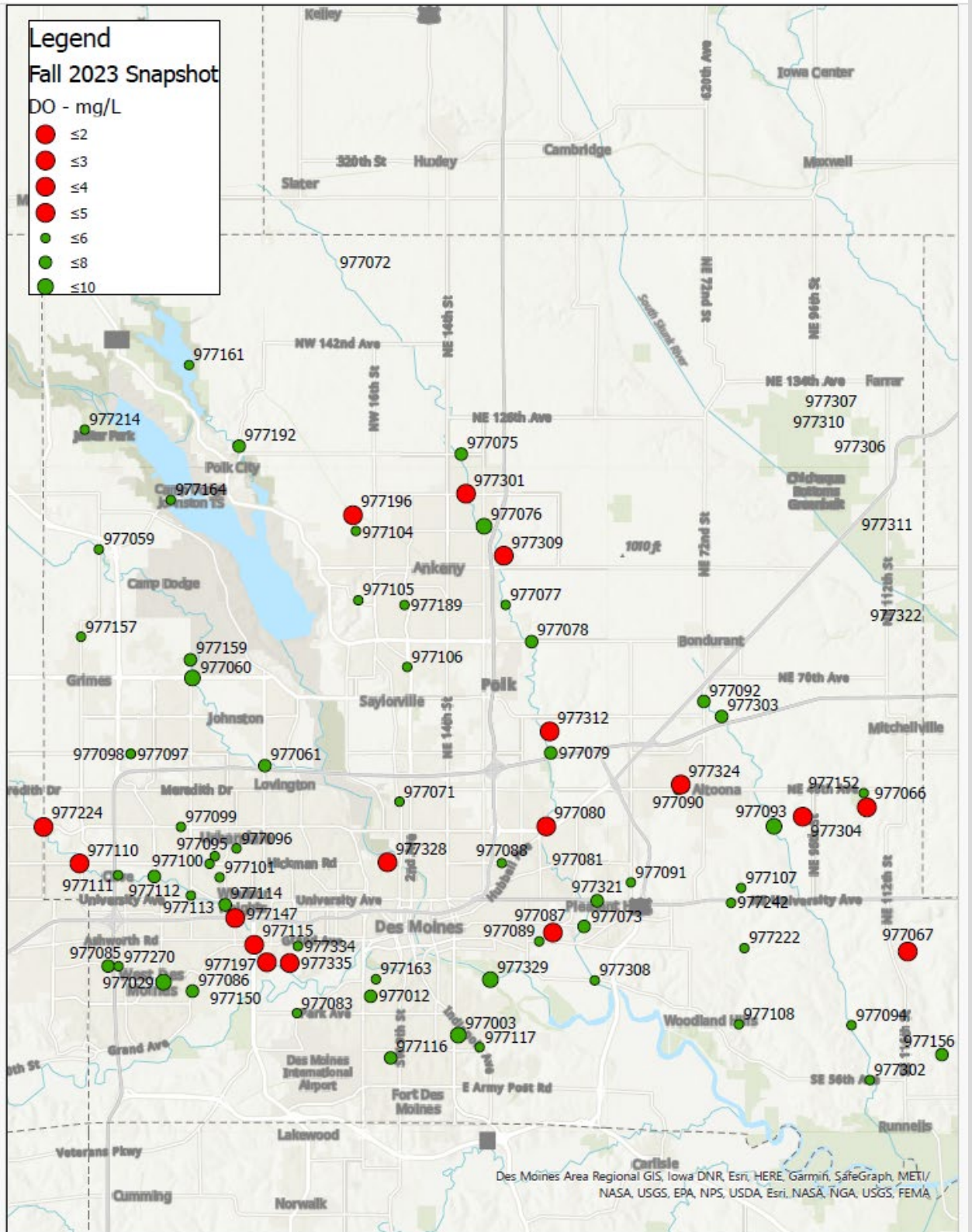
- ≤4
- ≤5
- ≤6
- ≤8
- ≤10
- ≤12



Des Moines Area Regional GIS, Iowa DNR, Esri, HERE, Garmin, SafeGraph, METI/
NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS, FEMA



Dissolved Oxygen - Fall





Dissolved Oxygen

DISSOLVED OXYGEN is necessary for aquatic life with 5 mg/L considered the lower threshold. There can be many causes of low dissolved oxygen such as high temperatures (especially mixed with low water levels), high amounts of biomass in the streams, and excess nutrients. High temperatures and drought conditions can lead to low results.

Spring Range 4– 12 mg/L

<u>0-5 mg/L</u>	<u>6-7 mg/L</u>	<u>8-10 mg/L</u>	<u>12 mg/L</u>
8	25	67	9
7%	23%	61%	8%

<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>
C38 977311	BBV 977120	All others	BLB 977121
CCW 977325	BBV 977160 (Prairie Point)		BLB 977157 (LBC1)
CLI 977326	BCL 977161 (Big Creek)		CCM 977152
DGE 977334	ELO 977275		FFM 977074 (FMC2)
DSM 977328	FFM 977071 (FC1)		FFM 977332
FLF 977324	FFM 977301		JJR 977085 (JC1)
SLL 977164 (Saylorville Lake)	JJR 977086 (JC2)		RRC 977104 (RC1)
977089 (Leetown Creekway 2)	JPP 977214 (Jester Park Pond)		RRC 977105 (RC2)
	LFL 977090 (LFMC1)		WLW 977225
	SSN 977322		
	SSP 977107 (SC1)		
	SSP 977222 SC3		
	977088 (Leetown Creekway 1)		
	WGC 977330		
	WNW 977095 (NWC Trib 1)		
	WNW 977096 (NWC Trib 2)		
	WNW 977097 (NWC1)		
	WNW 977100 (NWC4)		
	WWL 977110 (WC1)		
	WWL 977112 (WC3)		
	WWL 977115 (WC6)		
	WWL 977147		
	WWL 977197		
	WWL 977223 WC Trib		
	YYD 977117 (YC2)		

2023 Snapshot Report



Dissolved Oxygen

DISSOLVED OXYGEN is necessary for aquatic life with 5 mg/L considered the lower threshold. There can be many causes of low dissolved oxygen such as high temperatures (especially mixed with low water levels), high amounts of biomass in the streams, and excess nutrients. High temperatures and drought conditions can lead to low results.

Fall Range		2 – 10 mg/L	
<u>0-5 mg/L</u>	<u>6-7 mg/L</u>	<u>8-10 mg/L</u>	<u>12 mg/L</u>
18	38	23	0
23%	48%	29%	0%
Site # Abbreviation		Site # Abbreviation	
CCM 977066	All others	977060 BC2	None
CCM 977067		977061 BC3	
FDR 977309		BBG 977192	
FFM 977301		CC3 977156	
FLF 977324		DSM 977329	
FLH 977087		FFM 977073	
FMC 977312		FFM 977075	
FMC8 977080		FFM 977078	
MMD 977304		FFM 977079	
RRO 977196		FLF 977321	
WC1 977110		FMC4 977076	
WC6 977115		GLU 977012	
WC8 977224		JC2 977086	
WWL 977147		JJR 977029	
WWL 977197		JJR 977085	
WWL 977225		LBC3 977159	
		MC1 977092	
		MC2 977093	
		MMD 977303	
		WC3 977112	
		WC5977114	
		YC1 977116	
		YYD 977003	

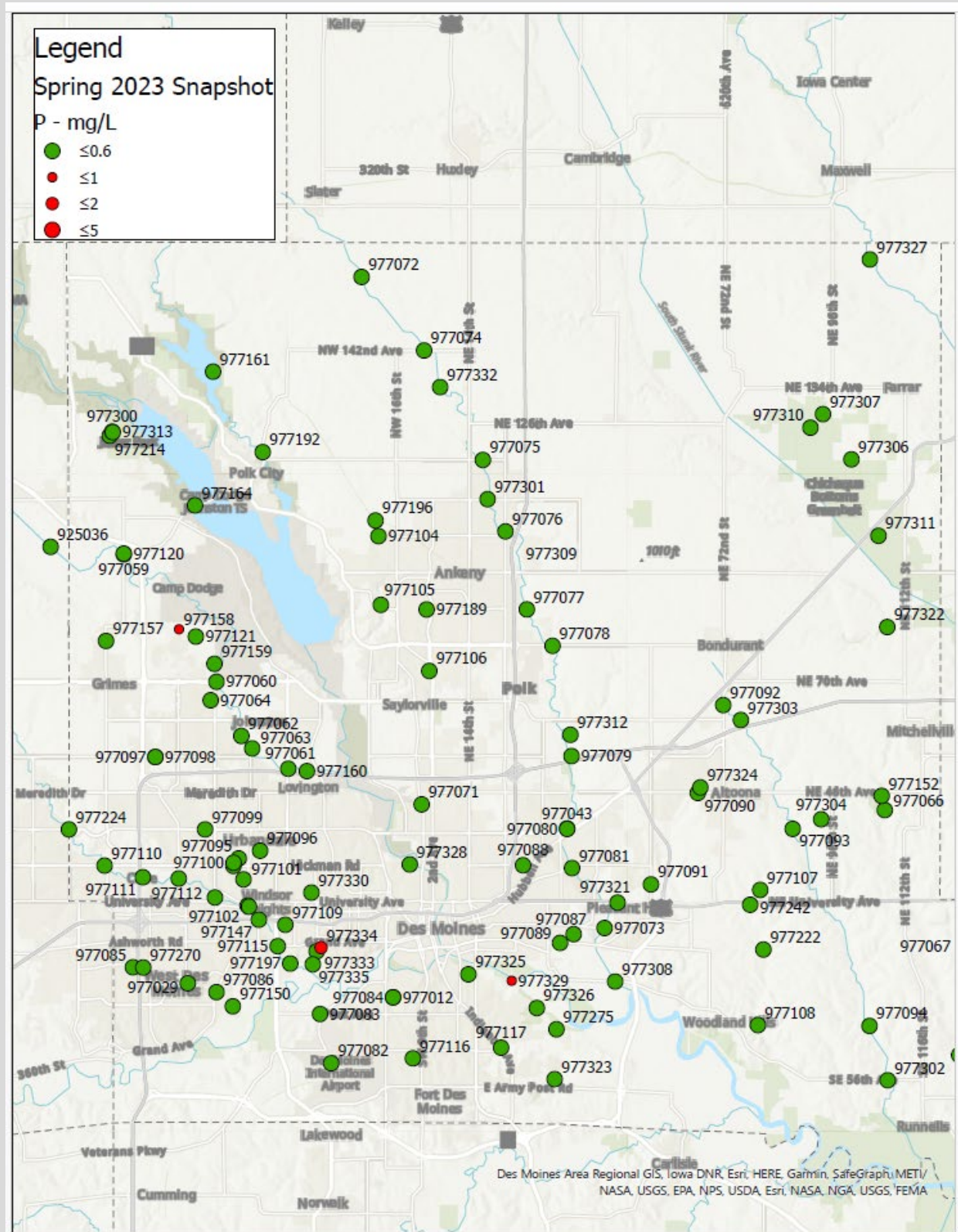


Phosphate - Spring

Legend
Spring 2023 Snapshot

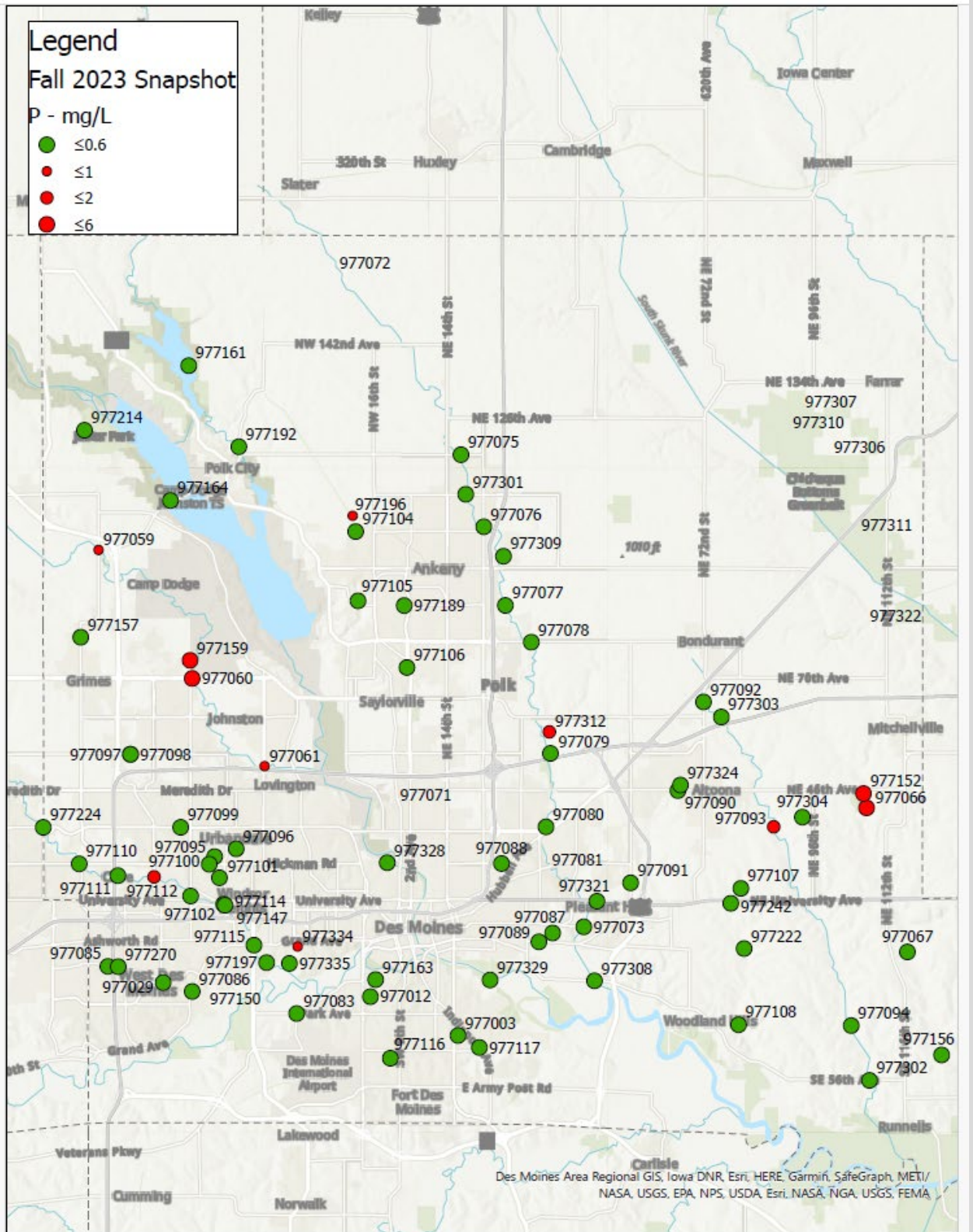
P - mg/L

- ≤0.6
- ≤1
- ≤2
- ≤5





Phosphate - Fall





Phosphate

PHOSPHATE is generally present in low concentrations and excess phosphate can cause nutrient enrichment, increasing algae and nuisance aquatic plant growth. Concentrations over 0.6 mg/L are considered abnormal. Like dissolved oxygen, there are many potential causes for elevated phosphates such as fertilizer run off, human/animal waste, and industrial effluents. Natural phenomenon, such as low water levels, can also cause high phosphate readings due to higher concentration of nutrients.

Spring Range

0 – 2.0 mg/L

<u>0 – 0.1 mg/L</u>	<u>0.2 mg/L</u>	<u>0.3 – 0.4 mg/L</u>	<u>>0.4 mg/L</u>
71	14	17	6
65%	14%	16%	6%

Site # Abbreviation

Site # Abbreviation

Site # Abbreviation

Site # Abbreviation

All others

BBV 977059 (BC1)

BBV 977061 (BC3)

BLB 977121

BBV 977060 (BC2)

BBG 977192

BLB 977158 (LBC2)

BBV 977062 (Creekside 1)

BBV 977063 (Creekside 2)

CCM 977152

BLB 977157 (LBC1)

BLB 977159 (LBC3)

DGE 977334

C04 977310

C38 977311

DGW 977333

CCW 977325

CCM 977066

DSM 977329

FLH 977087 (Laurel Hill)

CCM 977156 (CC3)

GLU 977012

CLI 977326

GLU 977084 (Grays Trib)

DGS 977335

SLL 977164 (Saylorville Lake)

FFM 977071 (FC1)

SSN 977322

FFM 977072 (FMC1)

SSP 977222 SC3

FFM 977074 (FMC2)

WNW 977096 (NWC Trib 2)

IIN 977327

YYD 977117 (YC2)

RRO 977196

977088 (Leetown Creekway 1)

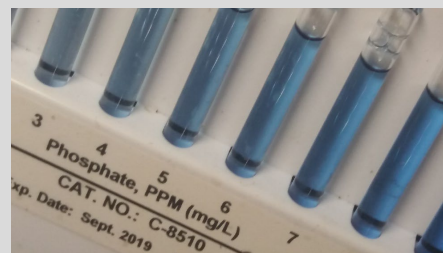
WNW 977095 (NWC Trib 1)

WWG 977109 (Waveland)

2023 Snapshot Report

POLK COUNTY

WATER QUALITY
MONITORING PROGRAM





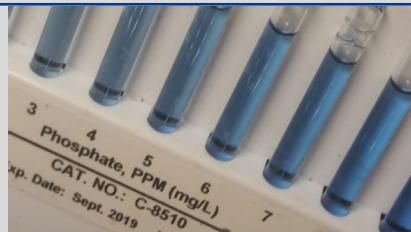
Phosphate

PHOSPHATE is generally present in low concentrations and excess phosphate can cause nutrient enrichment, increasing algae and nuisance aquatic plant growth. Concentrations over 0.6 mg/L are considered abnormal. Like dissolved oxygen, there are many potential causes for elevated phosphates such as fertilizer run off, human/animal waste, and industrial effluents. Natural phenomenon, such as low water levels, can also cause high phosphate readings due to higher concentration of nutrients.

Fall Range 0 – 6.0 mg/L

<u>0 – 0.1 mg/L</u>	<u>0.2 mg/L</u>	<u>0.3 – 0.4 mg/L</u>	<u>>0.4 mg/L</u>
22	15	25	15
29%	19%	32%	19%

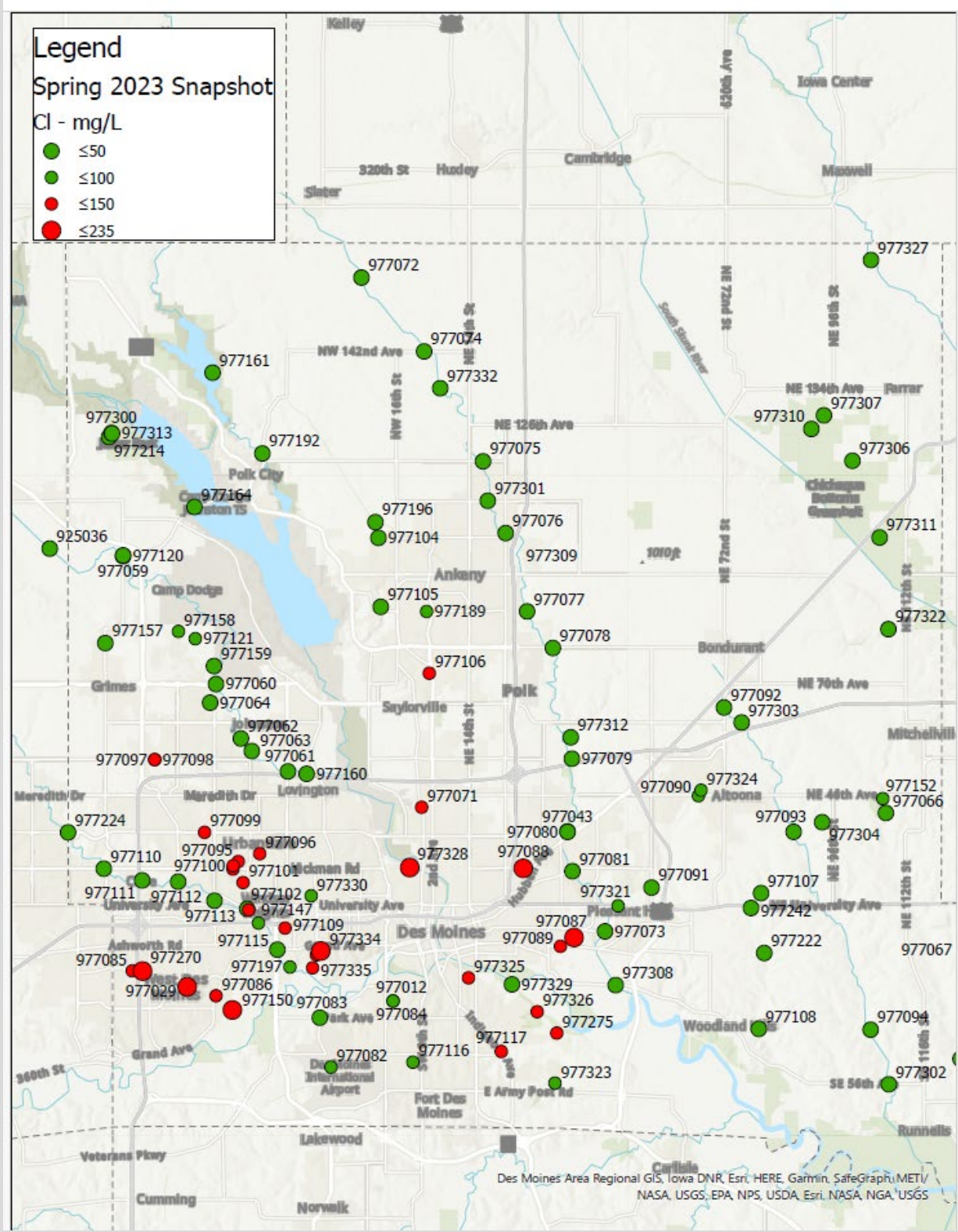
<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>	<u>Site # Abbreviation</u>
Big Creek 977161	BBG 977192	DSM 977328	BC1 977059
FMC8 977080	CC3 977156	DSM 977329	BC2 977060
Grays Lake 977163	DGS 977335	FDR 977309	BC3 977061
JC2 977086	FFM 977078	FFM 977073	CCM 977066
Jester Park Pond 977214	FMC5 977077	FFM 977075	CCM 977067
JJR 977029	FRC2 977083	FFM 977079	CCM 977152
JJR 977270	JJR 977085	FFM 977301	DGE 977334
LFMC1 977090	LFMC2 977091	FLF 977321	FMC 977312
MMD 977302	NWC Trib1 977095	FLF 977324	GLU 977012
MMD 977303	NWC5 977101	FLH 977087	LBC3 977159
NWC2 977098	SC1 977107	FMC 977308	Leetown Creekway1 977088
NWC4 977100	SSP 977242	FMC4 977076	MC2 977093
RRC 977105	WC1 977110	LBC1 977157	NWC1 977097
Saylorville Lake 977164	WC4 977113	Leetown Creekway2 977089	RRO 977196
SSP 977108	YYD 977003	MC1 977092	WC3 977112
SSY 977106		MC3 977094	
SSY 977189		MMD 977304	
WC2 977111		NWC Trib2 977096	
WC8 977224		NWC6 977102	
WCL 977225		RRC 977104	
WWL 977197		SC3 977222	
YC1 977116		WC5 977114	
		WC6 977115	
		WNW 977099	
		YYD 977117	



Chloride - Spring

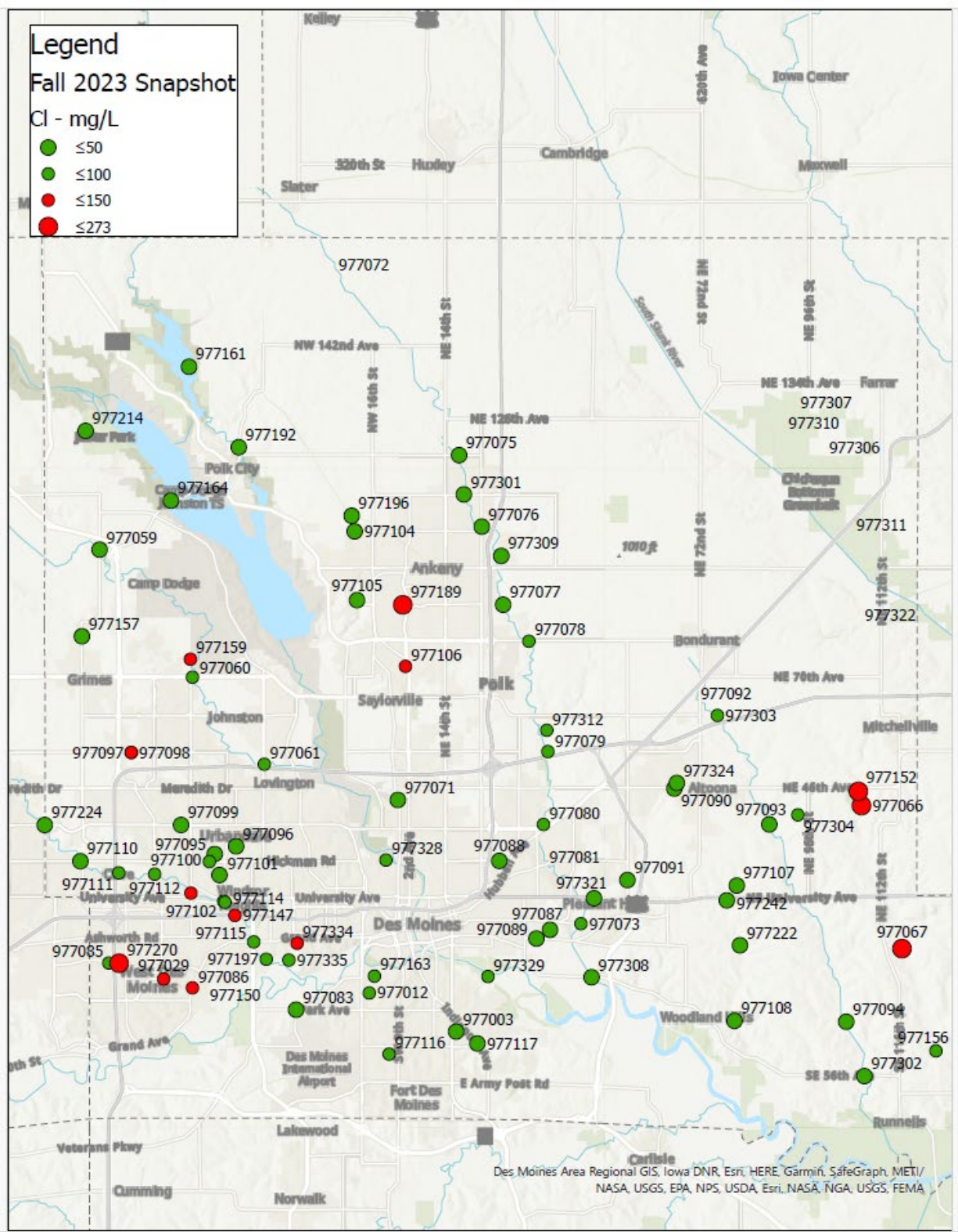
Legend
Spring 2023 Snapshot
Cl - mg/L

- ≤50
- ≤100
- ≤150
- ≤235





Chloride – Fall





Chloride

CHLORIDE concentrations above the threshold of 100 mg/L were seen both in spring and fall events. These elevated chloride levels were unexpected as high chloride levels are most common in winter and early spring when road salts are being applied. This may indicate a concerning chronic issue in some of our urban streams. Similar to other nutrients, these elevated levels could be due to low water levels and increased concentration.

Spring Range

<25 – 235 mg/L

Below 60 mg/L	60 - 79 mg/L	80 – 98 mg/L	>99 mg/L
65	7	7	29
60%	6%	6%	27%

Site # Abbreviation

All others

Site # Abbreviation

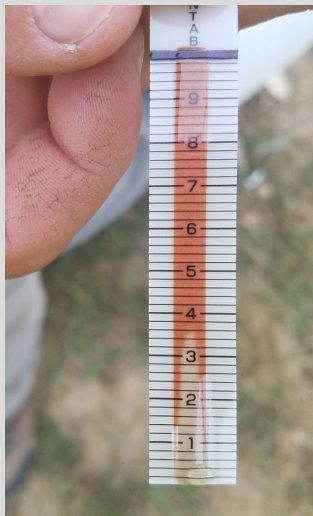
CCM 977152
 FFR 977082 (FRC1)
 FLF 977321
 LFL 977090 (LFMC1)
 WGC 977330
 WWL 977147
 WWL 977197

Site # Abbreviation

BLB 977121
 BLB 977158 (LBC2)
 ELM 977323
 FLF 977324
 GLU 977012
 GLU 977084 (Grays Trib)
 YYD 977116 (YC1)

Site # Abbreviation

CCW 977325
 CLI 977326
 DGE 977334
 DGS 977335
 DGW 977333
 DSM 977328
 ELO 977275
 FFM 977071 (FC1)
 FLH 977087 (Laurel Hill)
 JJC 977150
 JJC 977270
 JJR 977029
 JJR 977085 (JC1)
 JJR 977086 (JC2)
 SSY 977106 (Saylor Ck)
 SSY 977189
 977088 (Leetown Creekway 1)
 977089 (Leetown Creekway 2)
 WNW 977095 (NWC Trib 1)
 WNW 977096 (NWC Trib 2)
 WNW 977097 (NWC1)
 WNW 977098 (NWC2)
 WNW 977099 (NWC3)
 WNW 977100 (NWC4)
 WNW 977101 (NWC5)
 WNW 977252
 WWG 977109 (Waveland)
 WWL 977114 (WC5)
 YYD 977117 (YC2)



2023 Snapshot Report

POLK COUNTY

WATER QUALITY
 MONITORING PROGRAM

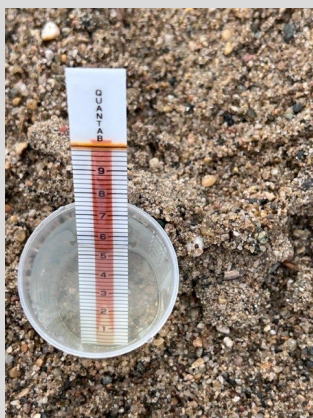


Chloride

CHLORIDE concentrations above the threshold of 100 mg/L were seen both in spring and fall events. These elevated chloride levels were unexpected as high chloride levels are most common in winter and early spring when road salts are being applied. This may indicate a concerning chronic issue in some of our urban streams. Similar to other nutrients, these elevated levels could be due to low water levels and increased concentration.

Fall Range <25 – 273

<u>Below 60 mg/L</u>	<u>60 - 79 mg/L</u>	<u>80 – 98 mg/L</u>	<u>>99 mg/L</u>
45	8	10	15
58%	10%	13%	19%
	Site # Abbreviation	Site # Abbreviation	Site # Abbreviation
All others	DSM 977329	BC2 977060	CCM 977066
	FFM 977073	BC3 977061	CCM 977067
	FMC8 977080	CC3 977156	CCM 977152
	MMD 977303	DSM 977328	DGE 977334
	MMD 977304	FFM 977079	JC2 977086
	NWC6 977102	Grays Lake 977163	JJR 977029
	WC2 977111	JJR 977085	JJR 977270
	WC5 977114	NWC4 977100	LBC3 977159
		WC3 977112	NWC1 977097
		WC6 977115	NWC2 977098
			SSY 977106
			SSY 977189
			WC4 977113
			WWL 977147
			WWL 977197



Summary of Site Data

LAB ANALYSIS

In addition to field assessment data collection, field monitors and volunteers obtained water samples at 32 (spring) and 33 (fall) sites. Analysis by Des Moines Water Works Lab included 16 substances, most related to water hardness. Those included in this report include total coliforms and E. coli (MPN/100ml) used to indicate a fecal bacteria and nutrients nitrate as N (mg/L), nitrite (mg/L) and Phosphorus-O (mg/L).

Results are used to provide information on the health of the streams using E. coli bacteria as an indicator and comparison of volunteer and field monitor water quality assessment data. Most snapshot sites are designated for swimming and children's recreational uses (either A1, Presumptive A1, or A3) and are required to meet the E. coli primary contact standard. These Water Quality Standards are set by the Iowa Department of Natural Resources and can be found on their website www.iowadnr.gov.



Spring	Fall
977059 BC1	977059 BC1
977060 BC2	977060 BC2
977066 CC1	977066 CC1
977061 BC3	977061 BC3
977156 CC3	977156 CC3
977072 FMC1	977072 FMC1
977075 FMC3	977075 FMC3
977077 FMC5	977077 FMC5
977079 FMC7	977079 FMC7
977073 FMC10	977073 FMC10
977083 FRC2	977083 FRC2
977084 Grays Trib	977084 Grays Trib
977086 JC2	977086 JC2
977157 LBC1	977157 LBC1
977159 LBC3	977159 LBC3
977225 Little Walnut Creek	977090 LFMC1
977092 MC1	977091 LFMC2
977094 MC3	977225 Little Walnut Creek
977097 NWC1	977092 MC1
977099 NWC3	977094 MC3
977102 NWC6	977097 NWC1
977105 RC2	977099 NWC3
977106 Saylor Ck	977102 NWC6
977108 SC2	977105 RC2
977222 SC3	977108 SC2
977111 WC2	977222 SC3
977113 WC4	977111 WC2
977115 WC6	977113 WC4
977224 WC8	977115 WC6
977223 WC Trib	977224 WC8
977117 YC2	977088 Leetown Creekway 1
977088 Leetown Creekway 1	977117 YC2
	977163 Grays Lake

2023 Snapshot Report

Spring Lab Data

Spring 2023	Results MPN/100ml		Results in mg/L				
5/16/2023	Coliform Bacteria quantitray	E-coli quantitray	anions by ion chromatography				
Sample ID	Total Coliforms	E. coli	Chloride	Nitrate as N	Nitrite as N	Phosphorus- O as P	Sulfate
BC1	>2420	236	35.7	9.22	0.04	0.15	27.4
BC2	>2420	179	38.6	9	0.04	< 0.1	37.3
CC1	>2420	249	42.7	10.42	0.06	0.12	19.9
BC3	>2420	194	40.4	8.65	0.05	< 0.1	39.0
CC3	>2420	770	41.6	7.8	0.06	< 0.1	21.2
FMC1	>2420	1203	47.7	11.61	0.06	0.16	29.7
FMC3	>2420	1414	35.3	10.96	0.11	< 0.1	20.2
FMC5	>2420	435	42.3	10.44	0.08	< 0.1	23.5
FMC7	1986	225	45.7	10.19	0.08	< 0.1	24.8
FMC10	>2420	261	52.4	8.1	0.05	< 0.1	28.9
FRC2	>2420	308	35.9	0.53	0.01	< 0.1	69.6
GRAYS TRIB	>2420	1986	103.9	1.13	ND	< 0.1	62.5
JC2	>2420	285	165.7	0.07	0.01	< 0.1	65.1
LBC1	1986	727	28.9	14.82	0.07	< 0.1	21.6
LBC3	>2420	194	38.3	8.9	0.04	< 0.1	37.1
LFMC1	2420	152	88.7	0.53	0.03	< 0.1	47.0
LFMC2	>2420	1733	67.4	2.22	0.03	< 0.1	40.7
LWC1	>2420	119	39.7	21.05	0.09	< 0.1	37.5
MC1	>2420	222	43.6	13.15	0.1	< 0.1	26.3
MC3	>2420	308	35.6	7.05	0.06	< 0.1	24.5
NWC1	>2420	548	121.3	3.77	0.06	0.23	28.8
NWC3	>2420	365	148.5	0.9	0.04	< 0.1	33.0
NWC6	1986	238	61.3	10.4	0.06	< 0.1	30.2
RC2	>2420	172	41.4	10.05	0.04	< 0.1	31.4
SAYLOR CK	>2420	309	129.0	0.27	0.01	< 0.1	38.8
SC2	2420	517	28.9	3.19	0.08	< 0.1	28.7
SC3	>2420	238	29.7	3.72	0.04	< 0.1	32.9
WC2	2420	205	50.8	11.64	0.07	< 0.1	28.8
WC4	>2420	276	59.5	10.67	0.06	< 0.1	29.8
WC6	>2420	291	75.4	8.89	0.05	< 0.1	33.3
WC8	>2420	249	39.5	13.49	0.09	< 0.1	27.5
WC Trib	>2420	1553	32.2	15.87	0.09	< 0.1	25.3
YC2	>2420	121	124.6	0.15	0.01	< 0.1	67.9
LEETOWN CREEKWAY 2	>2420	548	153.4	0.05	0.01	< 0.1	78.5

Designation

Examples

E. coli colonies/100 ml

A1 and A3

swimming and children's recreational uses

one-time maximum

235

secondary contact recreational uses

fishing, wading, activities with no significant risk of ingesting water

one-time maximum

2880

Fall Lab Data

Fall 2023		Results MPN/100ml		Results in mg/L			
9/19//2023		Coliform Bacteria quantitray	E-coli quantitray	anions by ion chromatography			
Sample ID	Total Coliforms	E. coli	Chloride	Nitrate as N	Nitrite as N	Phosphorus- O as P	Sulfate
BC1	24890	3830	52.8	2.23	<0.1	0.2	37.7
BC2	27550	1890	114.3	3.02	0.65	0.73	396.4
BC3	7800	520	99.4	2.17	0.18	0.19	313.7
CC1	13740	850	280.1	6.67	<0.1	2.06	43.2
CC3	32550	1480	80.3	0.06	<0.1	<0.1	35.5
FMC1	141360	2160	86.9	0.05	<0.1	1.49	29.5
FMC10	111990	8620	67.7	0.08	<0.1	0.19	41.4
FMC3	43520	4870	55.9	2.16	<0.1	<0.1	99.9
FMC5	8600	410	54.3	<0.05	<0.1	<0.1	40.8
FMC7	8360	100	74.9	<0.05	<0.1	0.37	39.9
FRC2	43520	1730	38.1	0.08	<0.1	<0.1	126.1
GRAY'S TRIB	>241960	198630	45.9	0.95	<0.1	0.18	36.3
JC2	9080	970	111.8	<0.05	0.21	<0.1	81.2
LBC1	198630	9880	31.7	1.58	0.03	<0.1	50.6
LBC3	24810	1340	154.8	4.32	1	1.93	594.1
LWC1	9850	1350	30.9	<0.05	<0.1	<0.1	41.5
MC1	81640	3230	72.3	0.51	<0.1	<0.1	30.5
MC3	24810	2620	17.4	0.06	<0.1	0.26	32.0
NWC1	98040	4870	158.4	0.4	0.31	0.1	50.5
NWC3	173290	3050	57.3	0.8	<0.1	0.11	19.9
NWC6	64880	11120	93.1	0.14	0.16	<0.1	44.3
RC2	5290	100	54.4	<0.05	<0.1	<0.1	54.8
SC2	54750	2010	30.2	<0.05	<0.1	<0.1	50.4
SC3	120330	1210	47.9	<0.05	<0.1	<0.1	52.3
WC2	16640	520	78.9	<0.05	0.12	<0.1	49.2
WC4	51720	5940	86.4	0.09	<0.1	<0.1	40.2
WC6	241960	20140	102.7	0.16	0.19	0.17	48.5
WC8	9600	980	36.2	<0.05	<0.1	<0.1	47.7
YC2	>241960	81640	39.6	0.45	<0.1	0.2	27.0
LEETOWN CREEKWAY	>241960	198630	21.0	0.9	<0.1	0.24	18.3
LFMC1	>241960	6240	6.0	0.96	<0.1	<0.1	10.0
LFMC2	>241960	129970	47.0	0.51	<0.1	0.16	22.5
SAYLOR CK	6310	410	115.2	<0.05	0.21	<0.1	35.2

Designation

A1 and A3

secondary contact recreational uses

Examples

swimming and children's recreational uses

fishing, wading, activities with no significant risk of ingesting water

E coli colonies/100 ml

one-time maximum

235

one-time maximum

2880



Microbial Source Tracking

Fall 2023

Drake University, Claire Hruby
Claire.hruby@drake.edu

Microbial Source Tracking Trial Run

Water-borne pathogens have the potential to make recreational water users sick. Gray's Lake is a popular beach for Des Moines' residents in the summer months, and, therefore, it is important to study and protect water quality in the lake and its watershed. With a better understanding of where microbial contamination is coming from, it will be possible to target improvements and protect public health more effectively.

On September 19, 2023, Drake Environmental Science and Sustainability students, April Cunningham and Ethan Wing, and Professor Claire Hruby, conducted sampling in conjunction with Polk County Conservation's countywide snapshot. The goal of this effort was to become familiar with the sampling procedures for microbial source tracking (MST) and to determine the possible causes of historically high *E. coli* levels in an unnamed tributary of Gray's Lake in Des Moines.

Microbial source tracking is a method of using genetic sequences that are unique to microbes that live in the guts of specific animal hosts. By looking for these sequences, it may be possible to determine the sources of fecal material in surface waters. The unnamed tributary that runs past the Unitarian Church on Bell Avenue south of Gray's Lake has had consistently high levels of *E. coli* in past snapshot sampling events, therefore, it was a good candidate for a trial run. For this sampling event, three sites were selected: 1) the tributary upstream (south) of the church, 2) the location where the tributary enters Gray's Lake, and 3) the Gray's Lake beach on the north side of the lake.



On the day of the sampling a short downpour occurred, which started around 8:30 am, shortly before the sampling began, and continued for approximately one hour. 2023 has been an exceptionally dry year, and prior to this event, very little precipitation had taken place. It is possible that there would have been little or no flow in the stream if this rain event had not taken place.



Microbial Source Tracking

Fall 2023

Drake University, Claire Hruby
Claire.hruby@drake.edu

The sampling procedure was relatively simple. After putting on gloves, the students filled a sterile syringe, then attached a small filter to the end of the syringe, and they pushed the water through the filter. This process was repeated until the water would no longer pass through the filter, and a water volume was recorded. Next, a vial of preservative was injected into the filter. Last, the filter was placed in a marked envelope with a unique sample code. All samples were shipped a few days later to Jonah Ventures Lab in Denver, Colorado, for analysis.

The results are interesting and even a little surprising. First, at the time of sampling, the worst water quality was found at the discharge point (site #2), where the unnamed tributary enters Gray's Lake. At this location, the actual *E. coli* concentration reported was 198,630 MPN/100ml, and the MST indicated the presence of genes specific to humans (66.33 gene copies/100 milliliters), raccoons (117.33 gc/100ml), swine (565 gc/100ml), bovine (43 gc/100ml), poultry (22 gc/100ml), sheep (1 gc/100ml), and dogs (19.33 gc/100ml). Follow-up with the City of Des Moines water quality staff indicates that they suspect a leaky sewer main may be intersecting the tributary as it passes under Bell Avenue. Additional monitoring would be necessary to confirm this suspicion.

Across the lake at the beach (site #3), no *E. coli* were detected, and only a small concentration of the human waste indicator genes (91.33 gc/100ml) were detected. This is good news, because, at least under the conditions at the time of sampling, it does not appear that the *E. coli* being transported to the lake is reaching the beach. It would be useful to do some additional sampling during wetter and warmer conditions to assess the risk of infections from pathogens at the beach.

At the stream crossing just upstream of the Unitarian Church (site #1), human (18 gc/100ml), raccoon (10.33 gc/100ml), swine (53.33 gc/100ml), and dog-specific (29.33 gc/100ml) genes were found. *E. coli* were not measured at this location. Based on this individual sample, it appears that the watershed upstream of the Unitarian Church is contributing lower levels of fecal waste to the unnamed stream than some source between the Church and Gray's Lake.

These samples were taken in a very urban watershed. Although it is possible that people have farm animals in their backyards, pigs would be very rare. This raises the question of where the swine-specific genetic sequences came from. In some studies, others have found animal-specific genes in human waste that came from meat in human diets. This is the most likely explanation for the presence of these indicators in these samples. One thing to be aware of is that these genetic targets are not all equally sensitive, so one should not assign relative contributions to each animal/human based on the relative concentrations of genes in a single sample unless there are several orders of magnitude differences in the concentrations. For comparison, the concentrations of swine-specific genes found in a water sample shortly after a known swine manure spill in Greene County, Iowa, was on the order of 40,000 gc/100ml. In that case, the primary source of microbial contamination was very clear.

This sampling effort made it clear that microbial source tracking, combined with traditional monitoring techniques, will be helpful for identification of fecal contamination sources. The newly minted Drake University Soil and Water Assessment Team (DuSWAT) is excited to continue this type of work to inform and improve water quality in Iowa. Please contact Claire Hruby at Claire.hruby@drake.edu if you are interested in learning more!

Site data

Individual site data follows by the numeric site number. Specific site data is provided in the following format:

977060 Polk County Conservation Water Quality Monitoring Program
Beaver Creek at Water Trail Access site at 70th and 86th Johnston

Site Details
BC2
BBV 977060
Watershed: Beaver Creek
Field Monitors: Doug & Sandy Johanson

Lab sample results

5/17/2022		9/20/2022
4,374	Total Coliforms MPN/100ml	20,140
172	E. coli MPN/100ml	980
38.82	Chloride mg/L	78.96
14.23	Nitrate as N mg/L	4.46
<0.1	Nitrite as N mg/L	0.46
<0.1	Phosphorus-O as P mg/L	0.28

Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L

2022 Snapshot Report
POLK COUNTY
WATER QUALITY MONITORING PROGRAM

Site number, snapshot abbreviation, watershed and monitors.

When obtained, Des Moines Water Works analyzed lab results

Physical and chemical test results performed by field monitors and volunteers

Circled numbers indicate snapshot results obtained by field monitors and volunteers. These results fall within the parameter ranges below.

The color scale provides a visual cue related to the result. Green represents optimal range for the parameter, yellow is less optimal while orange and red indicates results outside of the optimal range.

NAVIGATION

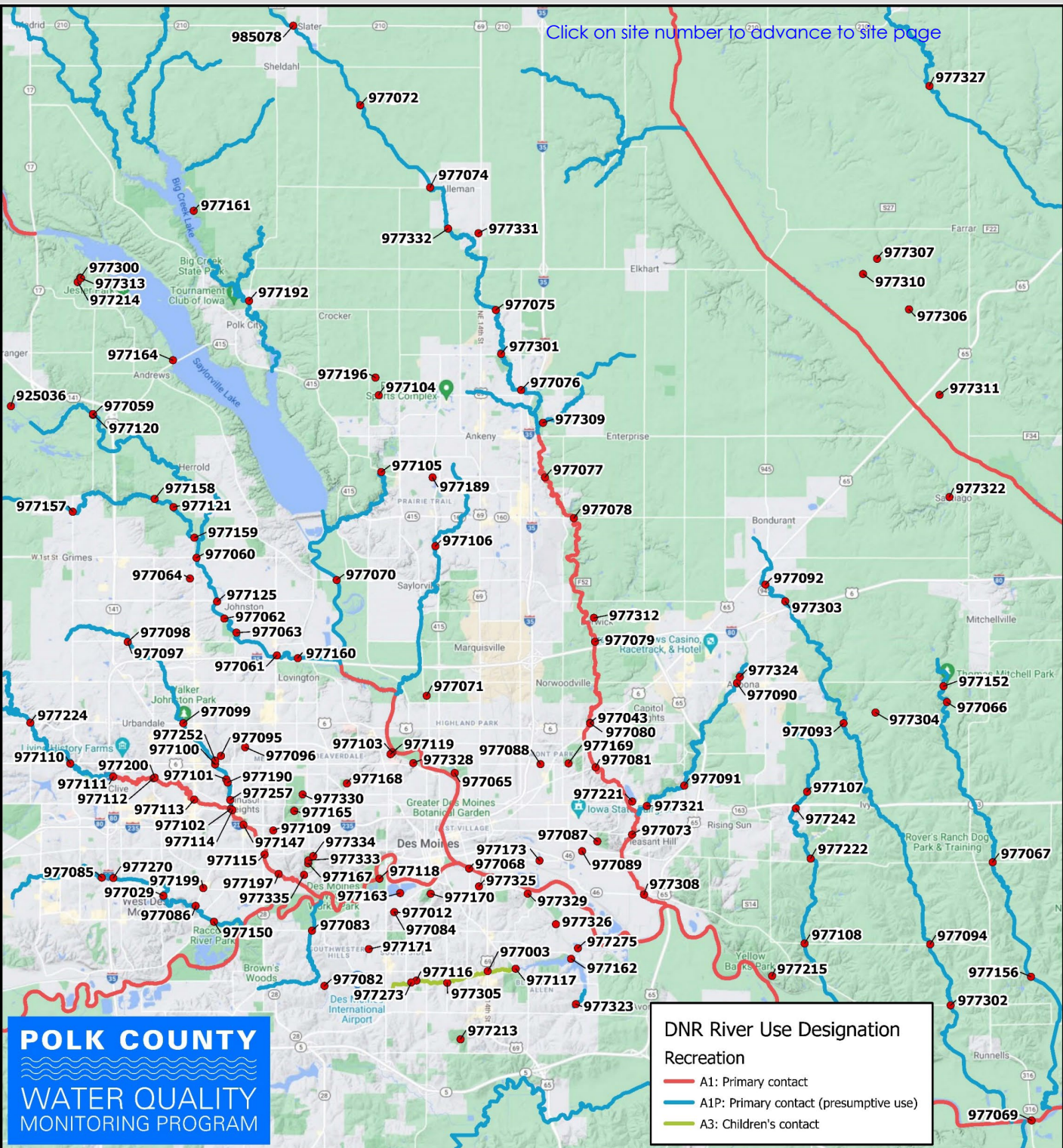
Navigating to an individual site can be done three ways.

1. Use the **thumbnail bookmarks** to access the information you would like to view.
2. Click on the **site number** on the map found on the following page.
3. Simply continue to **page down**.

2023 Snapshot Report

Map of Sites

Click on site number to advance to site page



POLK COUNTY
WATER QUALITY
MONITORING PROGRAM

Monitoring Sites

Spring	Fall	Site	Spring	Fall	Site	Spring	Fall	Site
		925036 BBV			977096 (NWC Trib. 2)			977197 WWL
		977003 YYD			977097 (NWC1)			977214 (Jester Pond)
		977012 Unnamed-into Gray's Lake			977098 (NWC2)			977222 SC3
		977029 JJR			977099 (NWC3)			977223 WC Trib.
		977043 FFM			977100 (NWC4)			977224 WC8
		977059 (BC1)			977101 (NWC5)			977225 Little Walnut Creek
		977060 (BC2)			977102 (NWC6)			977242 SSP
		977061 (BC3)			977104 (RC1)			977252 WNW
		977062 (Creekside 1)			977105 (RC2)			977270 JJE
		977063 (Creekside 2)			977106 (Saylor Ck)			977273 YYD
		977064 (Beaver Creek Elem)			977107 (SC1)			977275 ELO
		977065 (Birdland)			977108 (SC2)			977300 JPW
		977066 (CC1)			977109 WWG			977301 FFM
		977067 CCM			977110 (WC1)			977302 MMD
		977071 (FC1)			977111 (WC2)			977303 MMD
		977072 (FMC1)			977112 (WC3)			977304 MMD
		977073 (FMC10)			977113 (WC4)			977305 YYD
		977074 (FMC2)			977114 (WC5)			977306 CBL
		977075 (FMC3)			977115 (WC6)			977307 CCR
		977076 (FMC4)			977116 (YC1)			977308 FFM
		977077 (FMC5)			977117 (YC2)			977309 FDR
		977078 (FMC6)			977120 BBV			977310 C04
		977079 (FMC7)			977121 BLB			977311 C38
		977080 (FMC8)			977147 WWL			977312 FMC
		977081 FFM			977150 JJR			977313 JPW
		977082 (FRC1)			977152 CCM			977321 FLF
		977083 (FRC2)			977156 (CC3)			977322 SSN
		977084 (Grays Trib.)			977157 (LBC1)			977323 ELM
		977085 JJR			977158 (LBC1)			977324 FLF
		977086 (JC2)			977159 (LBC3)			977325 CCW
		977087 FLH			977160 BBV			977326 CLI
		977088 (Leetown Crkwy 1)			977161 (Big Creek)			977327 IIN
		977089 (Leetown Crkwy 2)			977163 (Gray's Lake)			977328 DSM
		977090 (LFMC1)			977164 (Saylorville Lake)			977329 DSM
		977091 (LFMC2)			977170 MacRae Pond			977330 WGC
		977092 (MC1)			977173 Deans Lake			977332 FFM
		977093 (MC2)			977189 Saylor Creek			977333 DGW
		977094 (MC3)			977192 Big Creek			977334 DGE
		977095 (NWC Trib 1)			977196 Rock Creek			977335 DGS

2023 Snapshot Report

POLK COUNTY





BBV 925036

Polk County Conservation
Water Quality Monitoring
Program



Beaver Creek along gravel road
south of Granger, Iowa

Site Details

BBV 925036

Watershed

Beaver Creek

Field Monitors

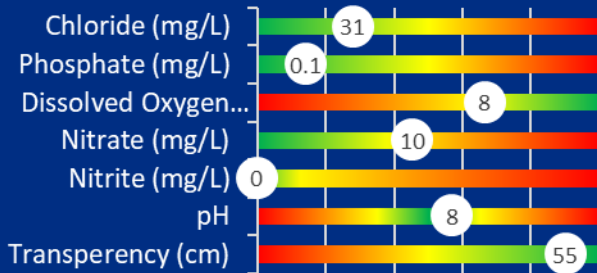
Spring – Lindsey Page

Fall – No Report

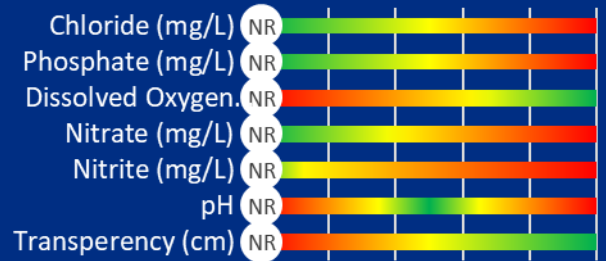
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

2023 Snapshot Report

POLK COUNTY
WATER QUALITY
MONITORING PROGRAM

[Return to Site Map](#)



YYD 977003

Polk County Conservation
Water Quality Monitoring
Program



Yeader Creek along SE 14th Street



Site Details

YYD 977003

Watershed

Easter Lake

Field Monitors

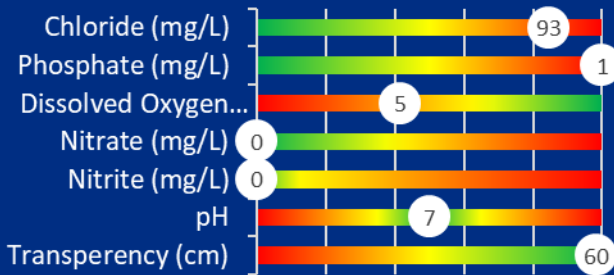
Spring – Team 10

Fall – Team 10

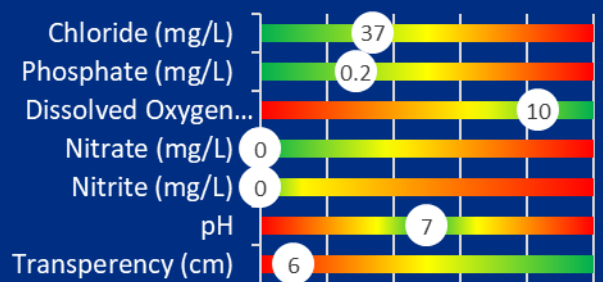
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



GLU 977012

Polk County Conservation
Water Quality Monitoring
Program



Unnamed creek which flows to
Gray's Lake along Bell Avenue

Site Details

GLU 977012

Watershed

Gray's Lake

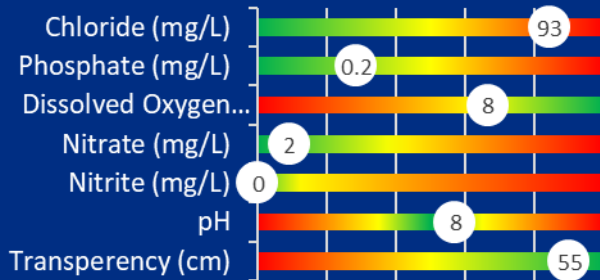
Field Monitors

Spring and Fall –
Rich and Jody
Anderson

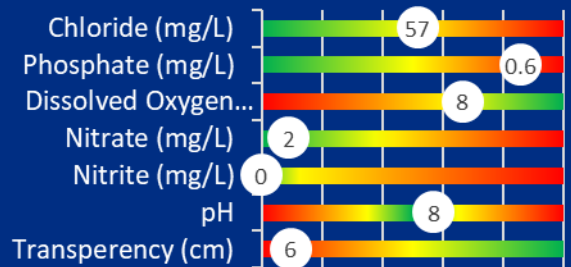
Lab sample results

See site 977084 for lab results

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



JJR 977029

Polk County Conservation
Water Quality Monitoring
Program



Jordan Creek off recreation trail.
Downstream from culvert at EP True Pkwy.

Site Details

JJR 977029

Watershed

Jordan Creek

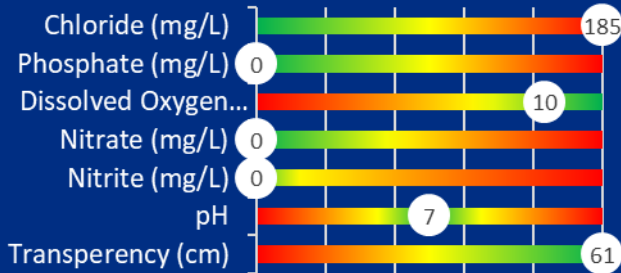
Field Monitors

Spring and Fall –
Missy Smith, PCC

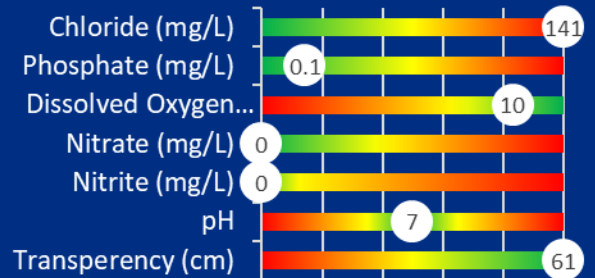
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FMC 977043

Polk County Conservation
Water Quality Monitoring
Program



Fourmile Creek at Sargent Park



Site Details

FFM 977043

Watershed

Fourmile Creek

Field Monitors

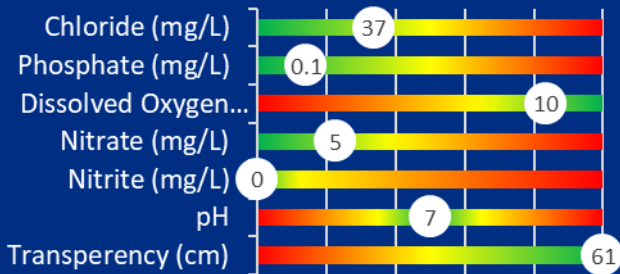
Spring – Ken
Trytek, DMPR

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report due
to lightening

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977059



Snapshot site BC1



Site Details

BC1

BBV 977059

Watershed

Beaver Creek

Field Monitors

Spring - Team #9

Fall - Team #10

Lab sample results

Spring

>2420

236

35.7

9.22

0.04

0.15

Total Coliforms MPN/100ml

E. coli MPN/100ml

Chloride mg/L

Nitrate as N mg/L

Nitrite as N mg/L

Phosphorus-O as P mg/L

Fall

24,890

3830

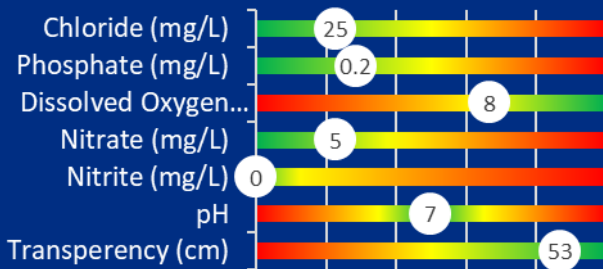
52.8

2.23

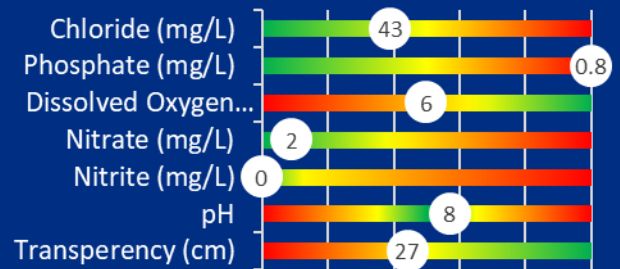
<0.1

0.2

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



BBV 977060

Polk County Conservation
Water Quality Monitoring
Program



Beaver Creek at Water Trail Access
site at 70th and 86th Johnston



Site Details

BC2

BBV 977060

Watershed

Beaver Creek

Field Monitors

Spring - Doug &
Sandy Johanson
Fall - Team #7

Lab sample results

Spring

>2420

121

124.6

0.15

0.01

< 0.1

Total Coliforms MPN/100ml

E. coli MPN/100ml

Chloride mg/L

Nitrate as N mg/L

Nitrite as N mg/L

Phosphorus-O as P mg/L

Fall

27,550

1890

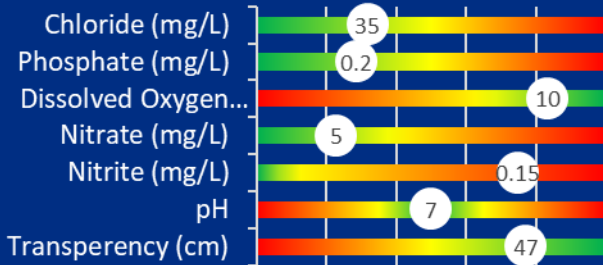
114.3

3.02

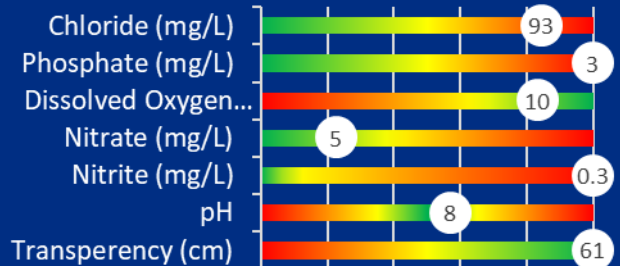
0.65

0.73

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977061



Site Details

BC3

BBV 977061

Watershed

Beaver Creek

Field Monitors

Spring - Team #7

Fall - Team #8

Lab sample results

Spring

>2420

179

38.6

9

0.04

< 0.1

Total Coliforms MPN/100ml

E. coli MPN/100ml

Chloride mg/L

Nitrate as N mg/L

Nitrite as N mg/L

Phosphorus-O as P mg/L

Fall

7800

520

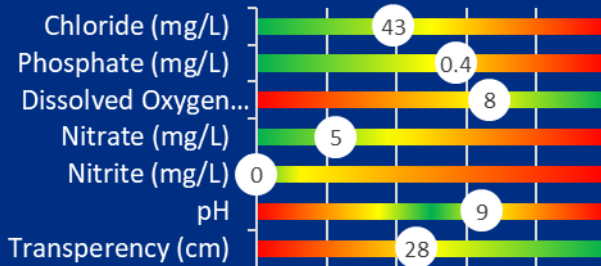
99.4

2.17

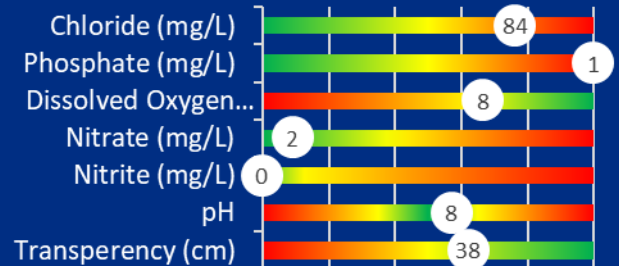
0.18

0.19

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977062



Polk County Conservation
Water Quality Monitoring
Program



Site Details

Creekside 1
BBV 977062

Watershed

Beaver Creek

Field Monitors

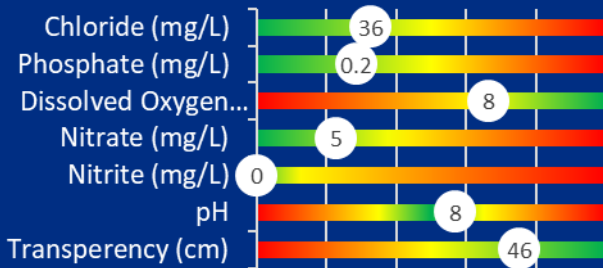
Spring - Team #4

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977063



Polk County Conservation
Water Quality Monitoring
Program



Site Details

Creekside 2
BBV 977063

Watershed

Beaver Creek

Field Monitors

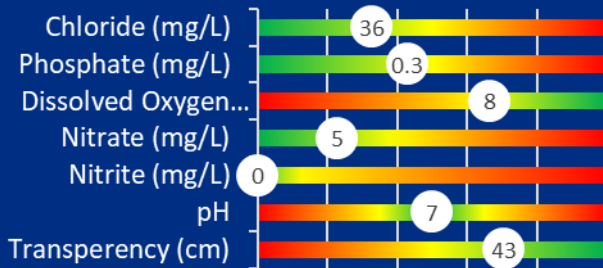
Spring - Team #4

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977064



Polk County Conservation
Water Quality Monitoring
Program



Site Details

Beaver Cr Elem
BBV 977064

Watershed

Beaver Creek

Field Monitors

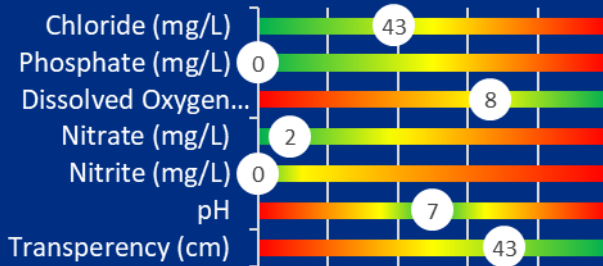
Spring - Team #4

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BBV 977065



Polk County Conservation
Water Quality Monitoring
Program



Site Details

Birdland
BBV 977065

Watershed
Des Moines River

Field Monitors
Spring – no data
Fall – no data

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



CCM 977066

Polk County Conservation
Water Quality Monitoring
Program



Bridge crossing in Thomas Mitchell Park



Site Details

CC1
CCM 977066

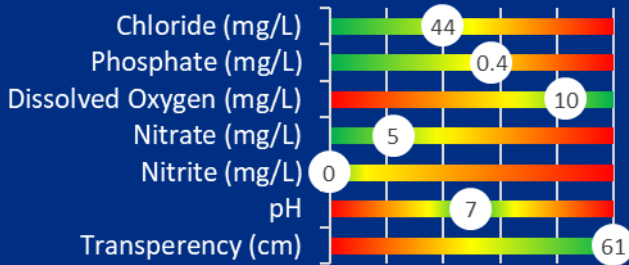
Watershed
Camp Creek

Field Monitors
Zach Deutmeyer,
Al Pasker, PCC

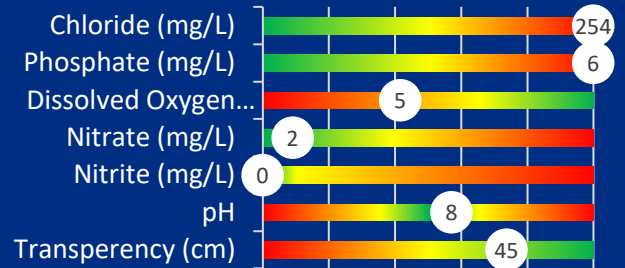
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	13740
E. coli MPN/100ml	249	850
Chloride mg/L	42.7	280.1
Nitrate as N mg/L	10.42	6.67
Nitrite as N mg/L	0.06	<0.1
Phosphorus-O as P mg/L	0.12	2.06

Spring



Fall



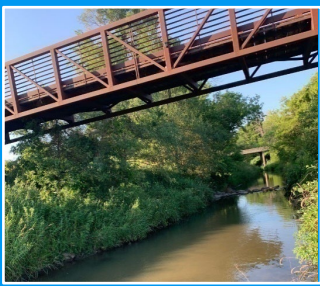
Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



CCM 977067

Polk County Conservation
Water Quality Monitoring
Program



SE 6th Ave.- SE Polk Environmental Learning Center



Site Details

CC2

CCM 977067

Watershed

Camp Creek

Field Monitors

Spring – no report

Fall - Zach

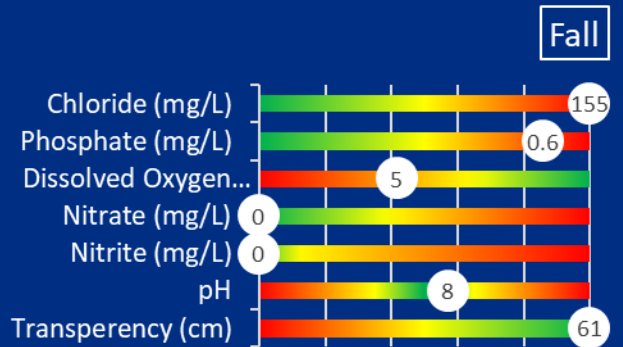
Deutmeyer, Al

Pasker, PCC

Lab sample results

No samples obtained

Spring–
No report



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

DSM 977071

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FC1)
Unnamed Creek Near Firestone



Site Details

FC1
DSM 977071

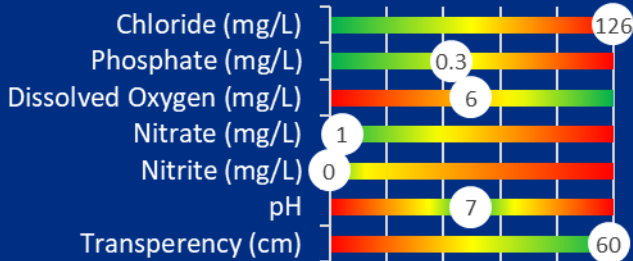
Watershed
Des Moines River

Field Monitors
Spring – Team #8
Fall – Team #8

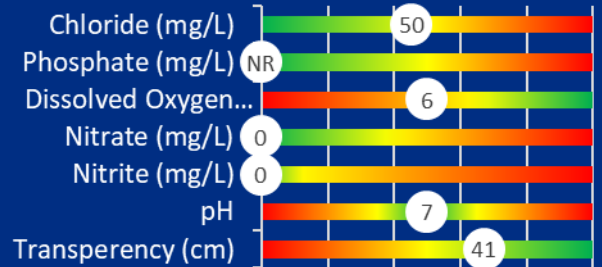
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



FFM 977072



Polk County Snapshot (Site FMC1)
NW 158th, north of Alleman

Site Details

FMC1
FFM 977072

Watershed
Fourmile Creek

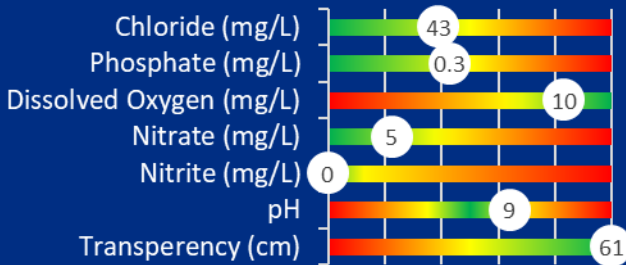
Field Monitors

Spring - Heidi
Anderson, PCC
Fall – No Report

Lab sample results

	Spring		Fall
	>2420	Total Coliforms MPN/100ml	141,360
	1203	E. coli MPN/100ml	2160
	47.7	Chloride mg/L	86.9
	11.61	Nitrate as N mg/L	0.05
	0.06	Nitrite as N mg/L	<0.1
	0.16	Phosphorus-O as P mg/L	1.49

Spring



Fall –
Unable to
complete report
due to lightning

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977073

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC10)
Dean Ave. by Sleepy Hollow

Site Details

FMC10
FFM 977073

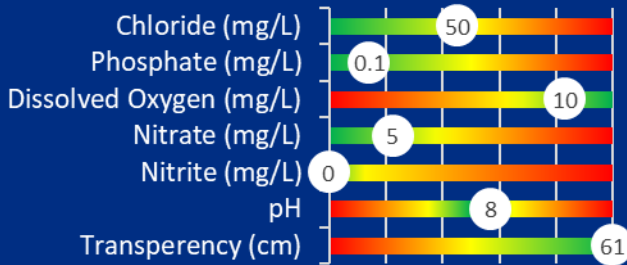
Watershed
Fourmile Creek

Field Monitors
Spring – Penny
Thomsen & John Harri
Fall – John Harri

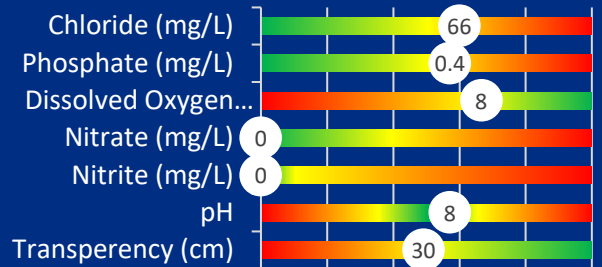
Lab sample results

	Spring		Fall
	>2420	Total Coliforms MPN/100ml	111990
	261	E. coli MPN/100ml	8620
	52.4	Chloride mg/L	67.7
	8.1	Nitrate as N mg/L	0.08
	0.05	Nitrite as N mg/L	<0.1
	< 0.1	Phosphorus-O as P mg/L	0.19

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977074

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC2)

Site Details

FMC2
FFM 977074

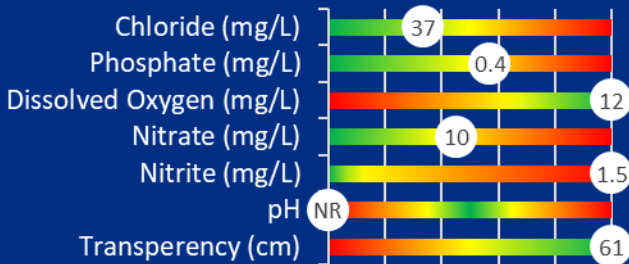
Watershed
Fourmile Creek

Field Monitors
Spring – Team #11
Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977075

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC3)
NE 54th Street (north of bridge)

Site Details

FMC3
FFM 977075

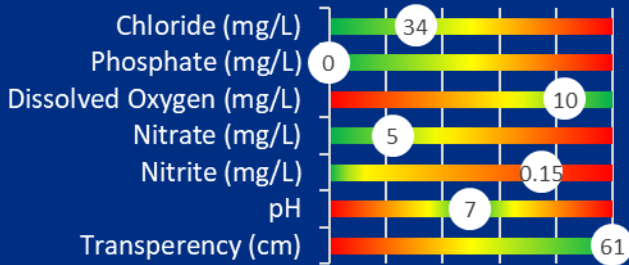
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
City of Ankeny

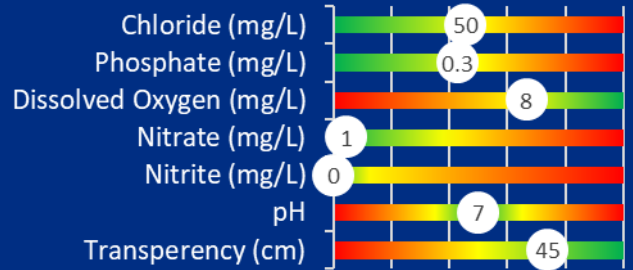
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	43,520
E. coli MPN/100ml	1414	4,870
Chloride mg/L	35.3	55.9
Nitrate as N mg/L	10.96	2.16
Nitrite as N mg/L	0.11	<0.1
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

FFM 977076



Site Details

FMC4
FFM 977076

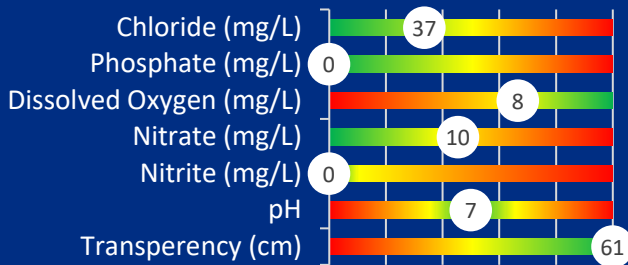
Watershed
Fourmile Creek

Field Monitors
Spring – Team #5
Fall – Team #4

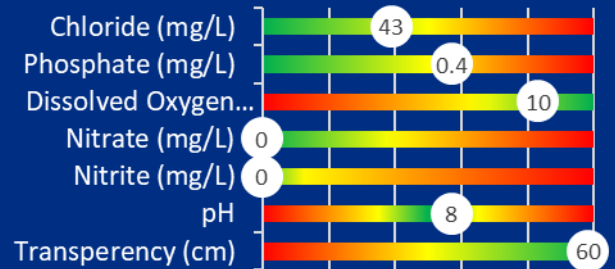
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

FFM 977077



Site Details

FMC5
FFM 977077

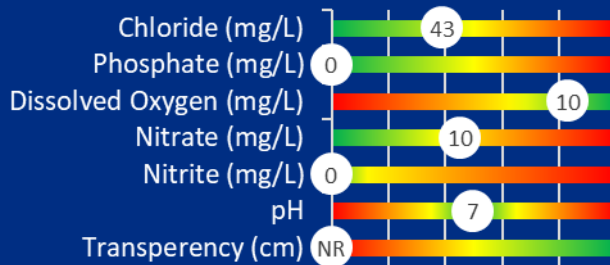
Watershed
Fourmile Creek

Field Monitors
Spring – Team #5
Fall – Team #4

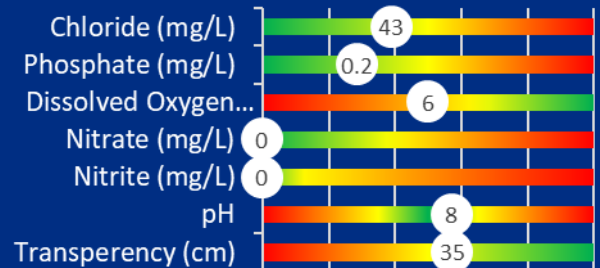
Lab sample results

	Spring		Fall
	>2420	Total Coliforms MPN/100ml	8600
	435	E. coli MPN/100ml	410
	42.3	Chloride mg/L	54.3
	10.44	Nitrate as N mg/L	<0.05
	0.08	Nitrite as N mg/L	<0.1
	< 0.1	Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977078

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC6)
SE Oralabor Road (north of bridge)

Site Details

FMC6
FFM 977078

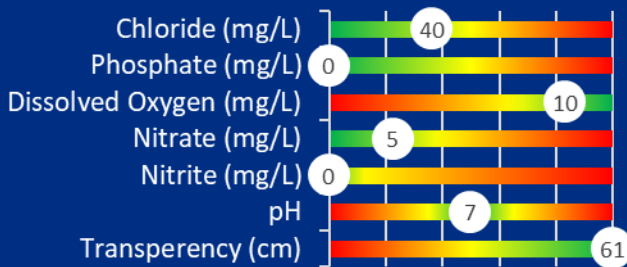
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
City of Ankeny

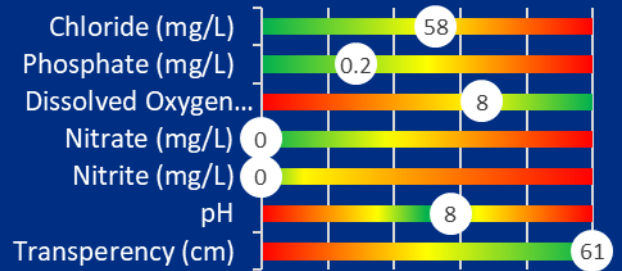
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977079

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC7)
Mally's Park at boat launch



Site Details

FMC7
FFM 977079

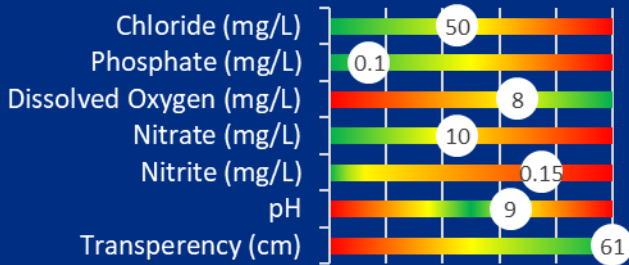
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
Michael French,
PCC

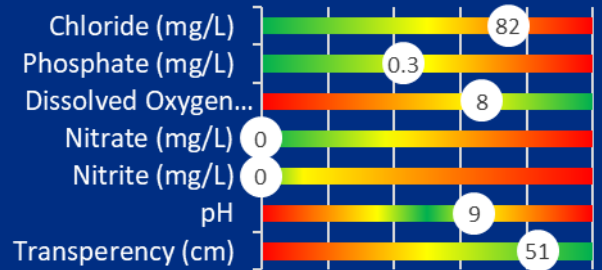
Lab sample results

	Spring		Fall
	1986	Total Coliforms MPN/100ml	8360
	225	E. coli MPN/100ml	100
	45.7	Chloride mg/L	74.9
	10.19	Nitrate as N mg/L	<0.05
	0.08	Nitrite as N mg/L	<0.1
	< 0.1	Phosphorus-O as P mg/L	0.37

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

FFM 977080

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC8)



Site Details

FMC8
FFM 977080

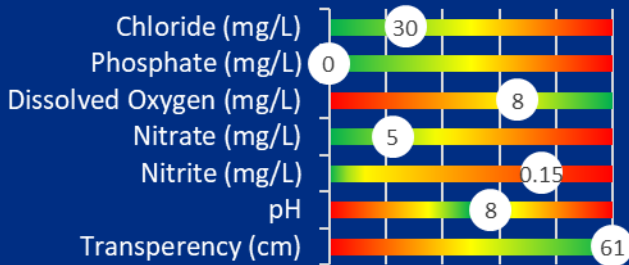
Watershed
Fourmile Creek

Field Monitors
Spring – Team #3
Fall – Team #3

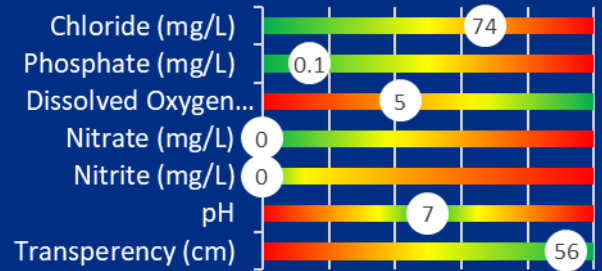
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977081

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site FMC9)



Site Details

FMC9
FFM 977081

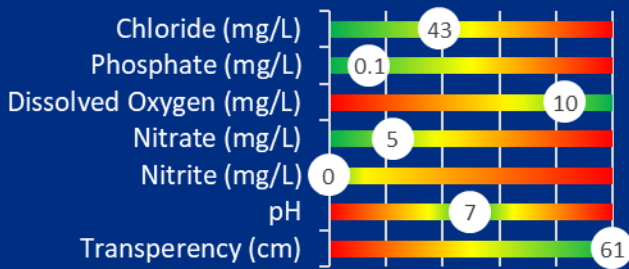
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
Ken Trytek, DMPR

Lab sample results

No samples obtained

Spring



Fall –
No report due
to lightening

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFR 977082



Polk County Snapshot (Site FRC1) downstream
of confluence of tributary and Frink Creek



Site Details

FRC1
FFR 977082

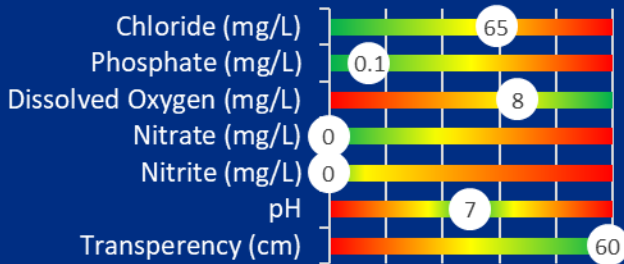
Watershed
Frink Creek

Field Monitors
Spring & Fall - City
of Des Moines
Clean Water
Program

Lab sample results

No samples obtained

Spring



Fall –
No report due
to lightening

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

FFR 977083



Polk County Snapshot (Site FRC2)



Site Details

FRC2
FFR 977083

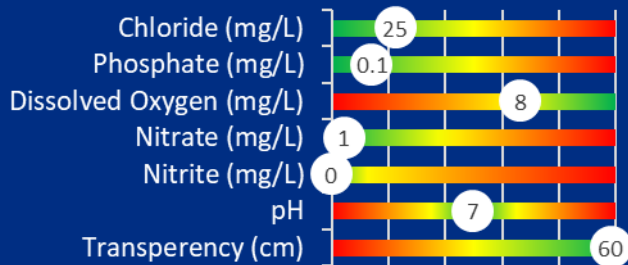
Watershed
Frink Creek

Field Monitors
Spring – Team #10
Fall – Team #10

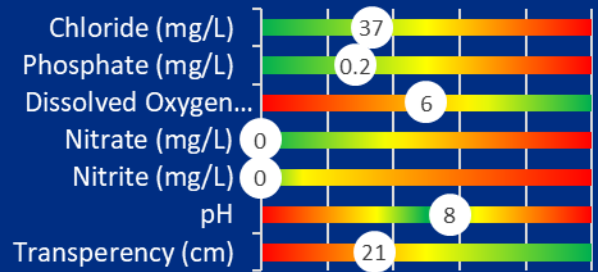
Lab sample results

	Spring		Fall
>2420		Total Coliforms MPN/100ml	43,520
308		E. coli MPN/100ml	1730
35.9		Chloride mg/L	38.1
0.53		Nitrate as N mg/L	0.08
0.01		Nitrite as N mg/L	<0.1
< 0.1		Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



GLU 977084

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Grays Trib)



Site Details

Grays Trib.
GLU 977084

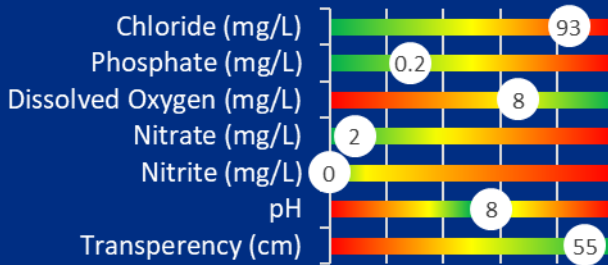
Watershed
Gray's Lake

Field Monitors
Spring & Fall –
Rich and Jody
Anderson

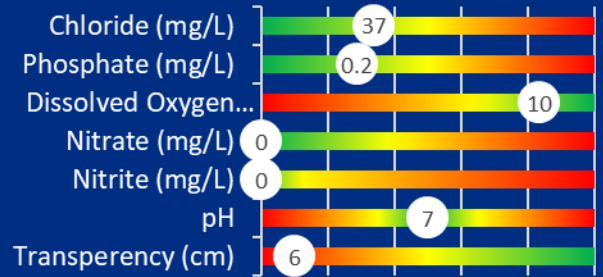
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	>241,960
E. coli MPN/100ml	1986	198,630
Chloride mg/L	103.9	45.9
Nitrate as N mg/L	1.13	0.95
Nitrite as N mg/L	ND	<0.1
Phosphorus-O as P mg/L	< 0.1	0.18

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



JJR 977085



Polk County Snapshot (Site JC1)
at Prairie View Drive, north of EP True Pkwy

Site Details

JC1
JJR 977085

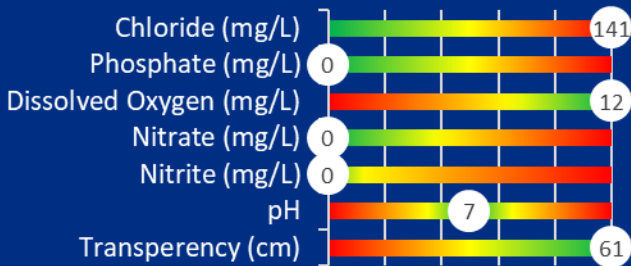
Watershed
Jordan Creek

Field Monitors
Spring and Fall –
Missy Smith, PCC

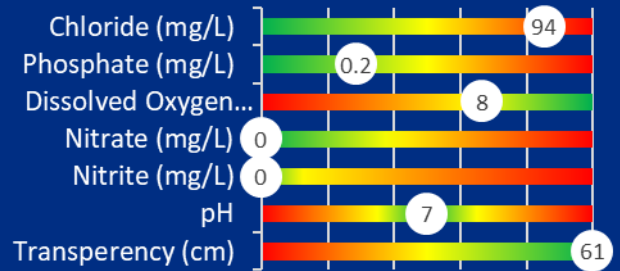
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

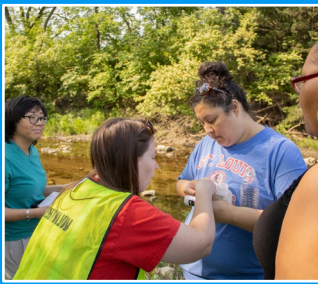
Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



JJR 977086

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site JC2)



Site Details

JC2
JJR 977086

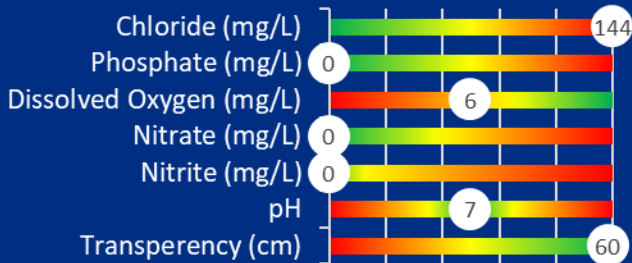
Watershed
Jordan Creek

Field Monitors
Spring – Team #10
Fall – Team #10

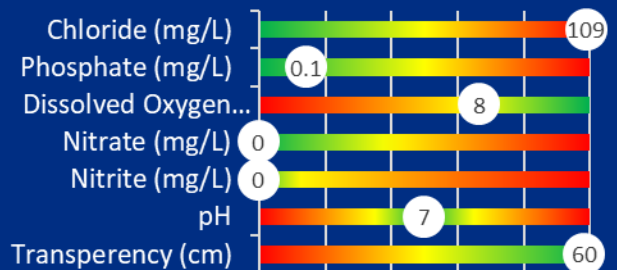
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	9,080
E. coli MPN/100ml	285	970
Chloride mg/L	165.7	111.8
Nitrate as N mg/L	0.07	<0.05
Nitrite as N mg/L	0.01	0.21
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



FLH 977087



Site Details

Laurel Hill
FLH 977087

Watershed

Fourmile Creek

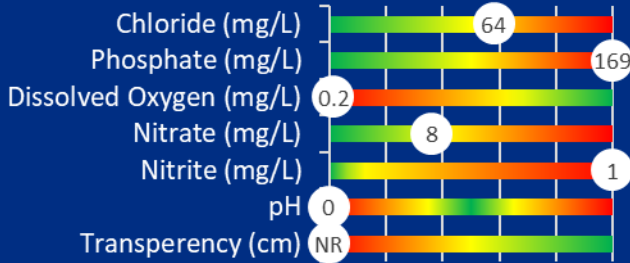
Field Monitors

Spring & Fall –
Rachel Haindfield,
DMPR

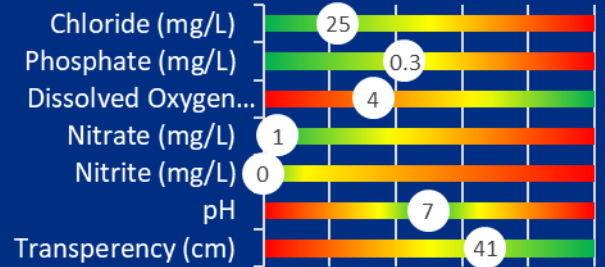
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

977088



Polk County Snapshot
(Site Leetown Creekway 1)



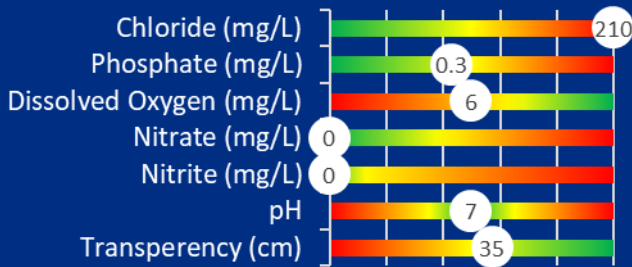
Site Details

Leetown
Creekway 1
977088
Watershed
Fourmile Creek
Field Monitors
Spring – Team #8
Fall – Team #8

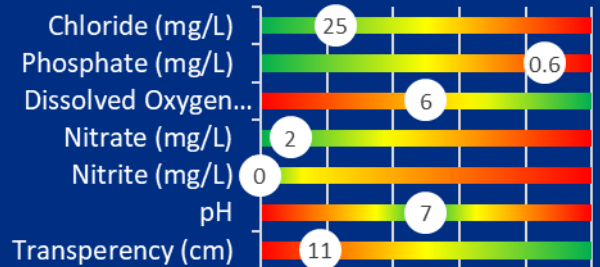
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



977089

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot
(Site Leetown Creekway 2)

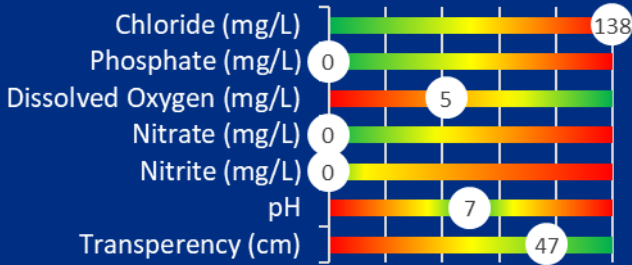
Site Details

Leetown
Creekway 2
977089
Watershed
Fourmile Creek
Field Monitors
Spring – Team #8
Fall – Team #8

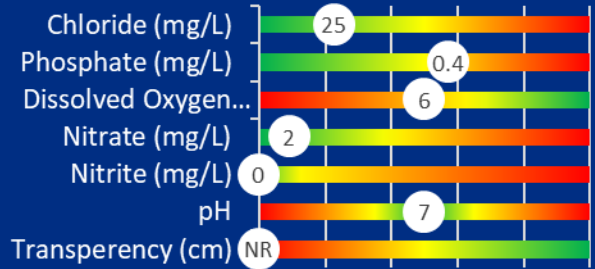
Lab sample results

	Spring		Fall
Total Coliforms MPN/100ml	>2420		>241960
E. coli MPN/100ml	548		198630
Chloride mg/L	153.4		21.0
Nitrate as N mg/L	0.05		0.9
Nitrite as N mg/L	0.01		<0.1
Phosphorus-O as P mg/L	<0.1		0.24

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



FLF 977090



Polk County Snapshot (Site LFMC1)



Site Details

LFMC1
FLF 977090

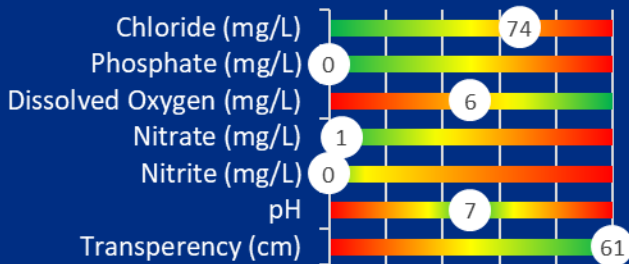
Watershed
Fourmile Creek

Field Monitors
Spring – Team #3
Fall – Team #3

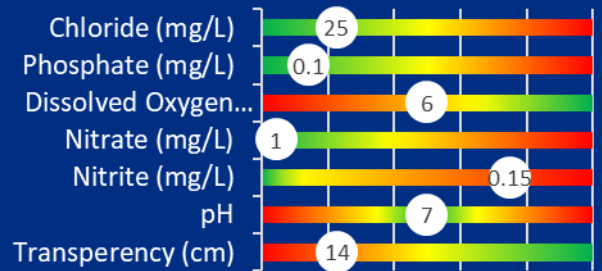
Lab sample results

	Spring		Fall
	2420	Total Coliforms MPN/100ml	>241,960
	152	E. coli MPN/100ml	6,240
	86.7	Chloride mg/L	6.0
	0.53	Nitrate as N mg/L	0.96
	0.03	Nitrite as N mg/L	<0.1
	<0.1	Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

FLF 977091



Site Details

LFMC2

FLF 977091

Watershed

Fourmile Creek

Field Monitors

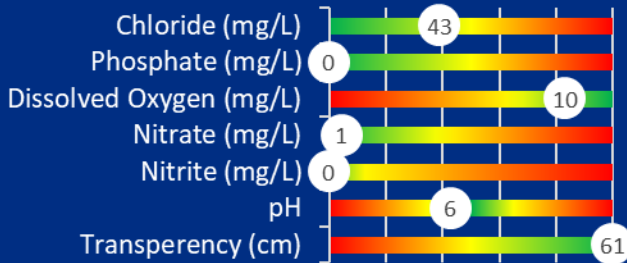
Spring – Team #3

Fall – Team #3

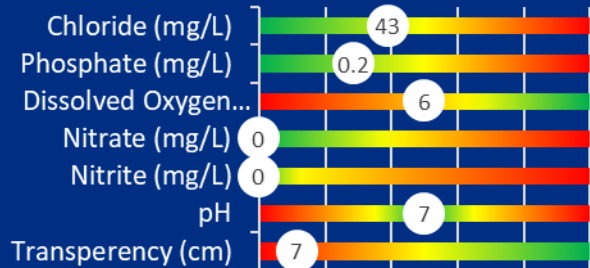
Lab sample results

		Fall
>2,420	Total Coliforms MPN/100ml	>241,960
1,733	E. coli MPN/100ml	129,970
67.4	Chloride mg/L	47.0
2.22	Nitrate as N mg/L	0.51
0.03	Nitrite as N mg/L	<0.1
<0.1	Phosphorus-O as P mg/L	0.16

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



FLF 977092



Polk County Snapshot (Site MC1)

Site Details

MC1
MMD 977092

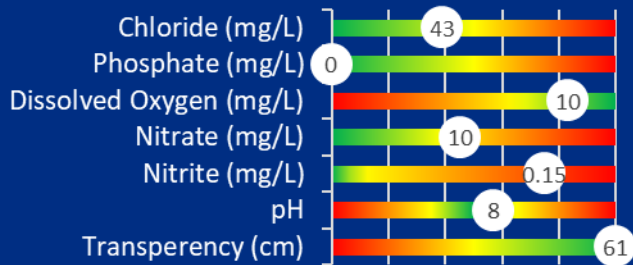
Watershed
Mud Creek

Field Monitors
Spring – Team #5
Fall – Team #4

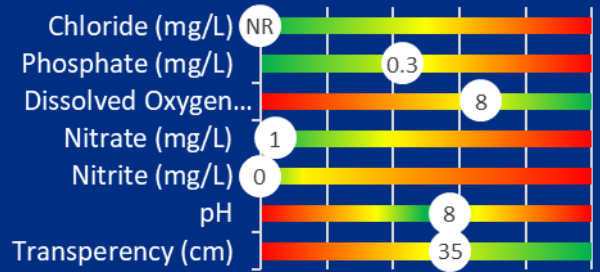
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	81,640
E. coli MPN/100ml	222	3230
Chloride mg/L	43.6	72.3
Nitrate as N mg/L	13.15	0.51
Nitrite as N mg/L	0.1	<0.1
Phosphorus-O as P mg/L	<0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L

[Return to Site Map](#)



MMD 977093

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site MC2)

Site Details

MC2

MMD 977093

Watershed

Mud Creek

Field Monitors

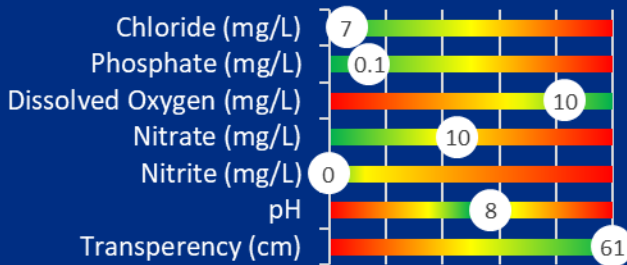
Spring – Team #5

Fall – Team #4

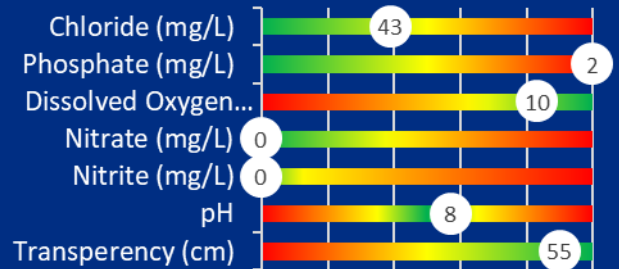
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



MMD 977094

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site MC3)

Site Details

MC3

MMD 977094

Watershed

Mud Creek

Field Monitors

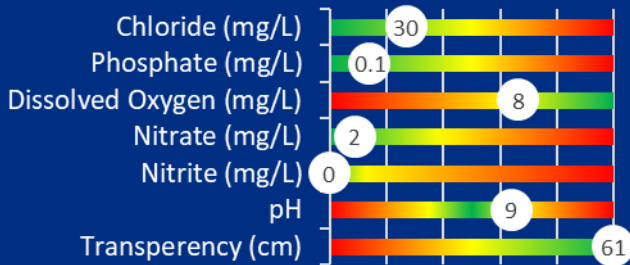
Spring – Team #2

Fall – Team #2

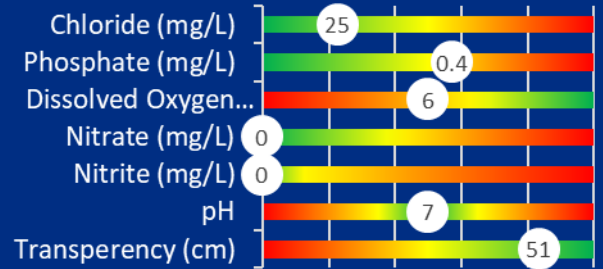
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2,420	24,810
E. coli MPN/100ml	308	2,620
Chloride mg/L	35.6	17.4
Nitrate as N mg/L	7.05	0.06
Nitrite as N mg/L	0.06	<0.1
Phosphorus-O as P mg/L	< 0.1	0.26

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WNW 977095



Polk County Snapshot
(Site NWC Trib 1)

Polk County Conservation
Water Quality Monitoring
Program



Site Details

NWC Trib 1

WNW 977095

Watershed

Walnut Creek

Field Monitors

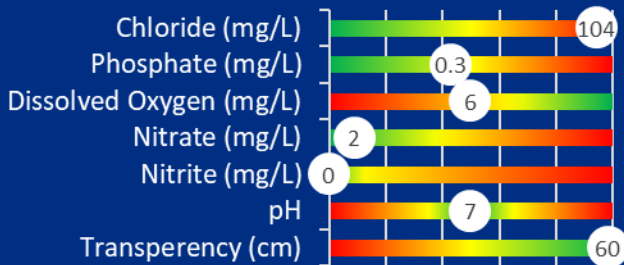
Spring – Team #7

Fall – Team #7

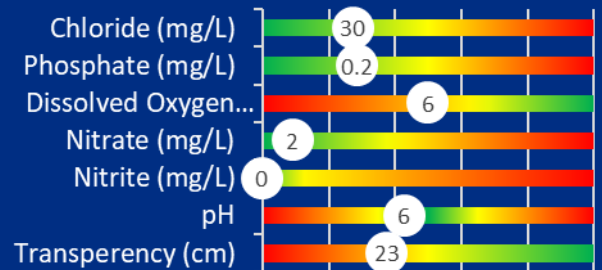
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WNW 977096



Polk County Snapshot
(Site NWC Trib 2)

Polk County Conservation
Water Quality Monitoring
Program



Site Details

NWC Trib 2

WNW 977096

Watershed

Walnut Creek

Field Monitors

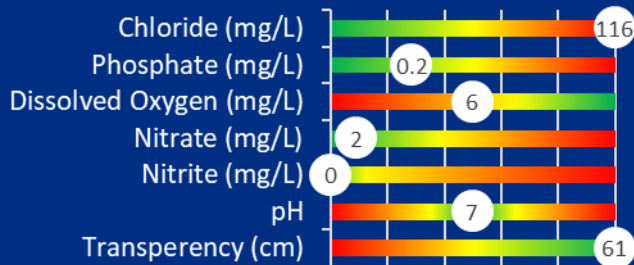
Spring – Team #12

Fall – No Report

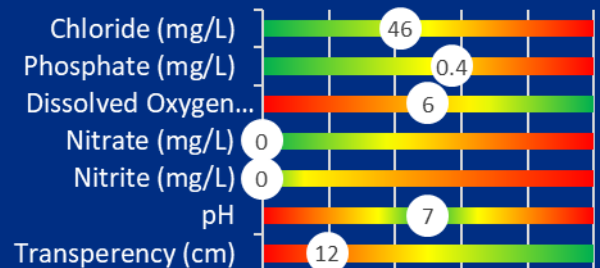
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WNW 977097



Polk County Snapshot
(Site NWC1)

Polk County Conservation
Water Quality Monitoring
Program



Site Details

NWC1

WNW 977097

Watershed

Walnut Creek

Field Monitors

Spring – Team #13

Fall – Team #9

Lab sample results

Spring

>2420

548

121.3

3.77

0.06

0.23

Total Coliforms MPN/100ml

E. coli MPN/100ml

Chloride mg/L

Nitrate as N mg/L

Nitrite as N mg/L

Phosphorus-O as P mg/L

Fall

98,040

4870

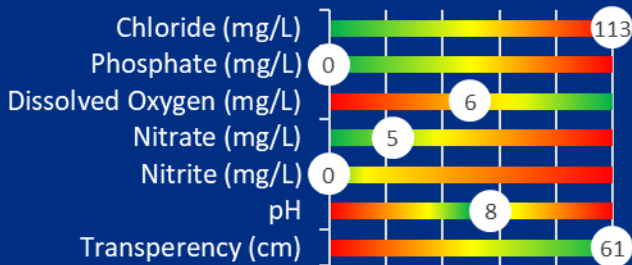
158.4

0.4

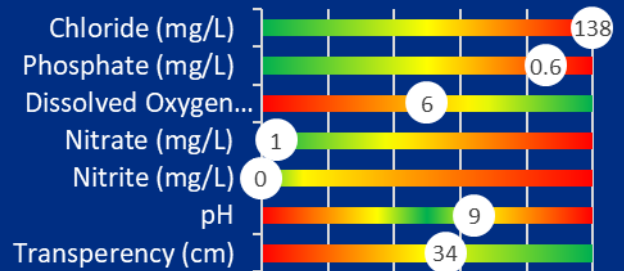
0.31

0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WNW 977098



Polk County Snapshot
(Site NWC2)

Polk County Conservation
Water Quality Monitoring
Program



Site Details

NWC2

WNW 977098

Watershed

Walnut Creek

Field Monitors

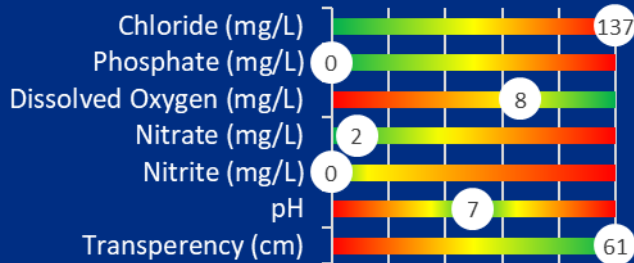
Spring – Team #13

Fall – Team #11

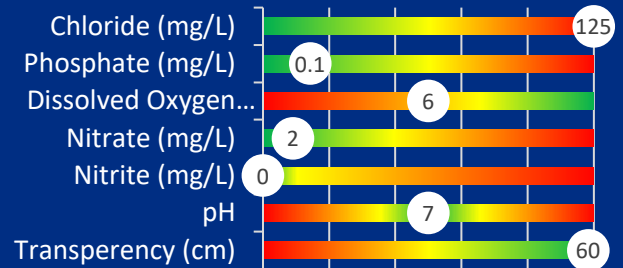
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WNW 977099

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site NWC3)
Walker Johnson Park, Urbandale

Site Details

NWC3
WNW 977099

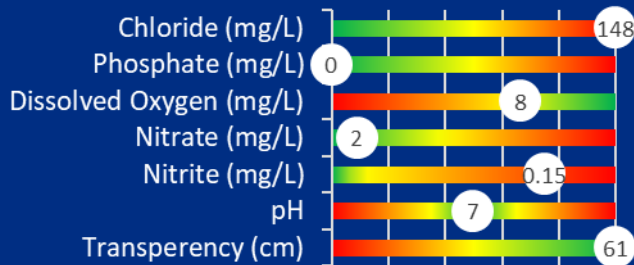
Watershed
Walnut Creek

Field Monitors
Spring – Lori
Foresman-Kirpes, PCC
Fall – Team #5

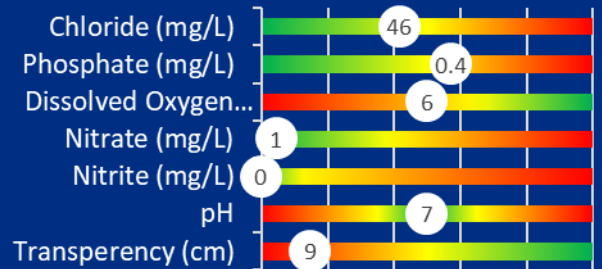
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	173,290
E. coli MPN/100ml	365	3050
Chloride mg/L	148.5	57.3
Nitrate as N mg/L	0.9	0.8
Nitrite as N mg/L	0.04	<0.1
Phosphorus-O as P mg/L	< 0.1	0.11

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WNW 977100

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site NWC4)



Site Details

NWC4
WNW 977100

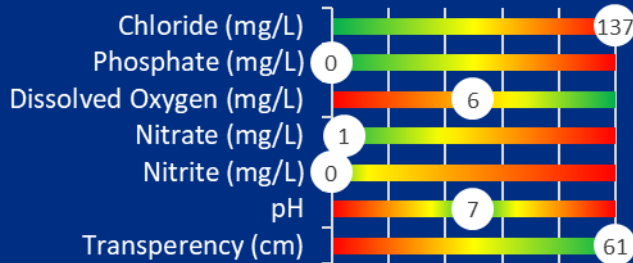
Watershed
Walnut Creek

Field Monitors
Spring – Team #13
Fall – Team #11

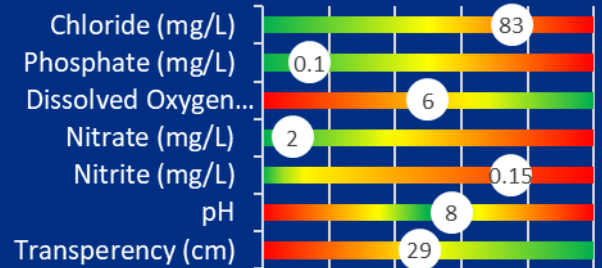
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WNW 977101

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site NWC5)



Site Details

NWC5
WNW 977101

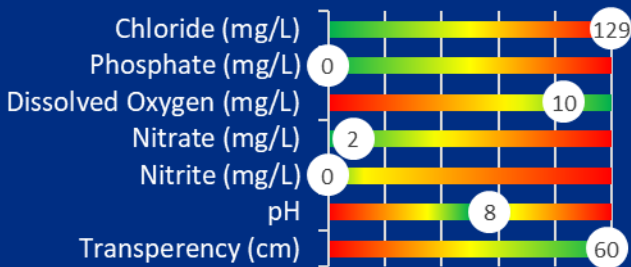
Watershed
Walnut Creek

Field Monitors
Spring – Team #6
Fall – Team #11

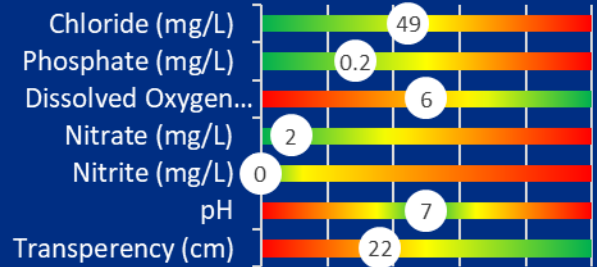
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WNW 977102

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site NWC6)



Site Details

NWC6
WNW 977102

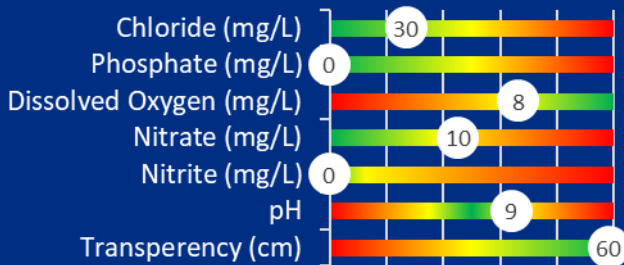
Watershed
Walnut Creek

Field Monitors
Spring – Team #6
Fall – Team #6

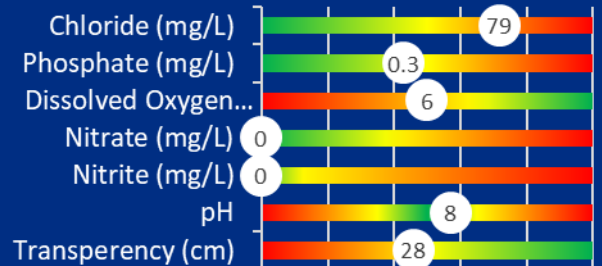
Lab sample results

	Spring		Fall
	1986	Total Coliforms MPN/100ml	64,880
	238	E. coli MPN/100ml	11,120
	61.3	Chloride mg/L	93.1
	10.4	Nitrate as N mg/L	0.14
	0.06	Nitrite as N mg/L	0.16
	< 0.1	Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



RRC 977104

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site RC1)
NW 18th Street (upstream of box culvert)

Site Details

RC1
RRC 977104

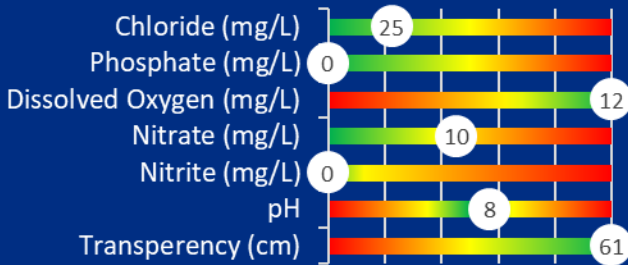
Watershed
Rock Creek

Field Monitors
Spring & Fall –
City of Ankeny

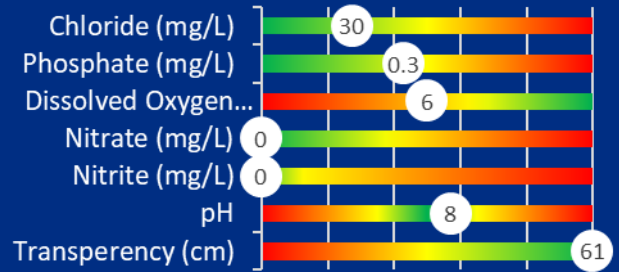
Lab sample results

Total Coliforms MPN/100ml
E. coli MPN/100ml
Chloride mg/L
Nitrate as N mg/L
Nitrite as N mg/L
Phosphorus-O as P mg/L

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



RRC 977105

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site RC2)
NW Polk City Drive (upstream of box culvert)



Site Details

RC2
RRC 977105

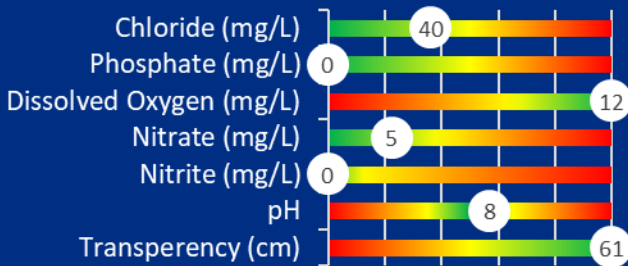
Watershed
Rock Creek

Field Monitors
Spring & Fall –
City of Ankeny

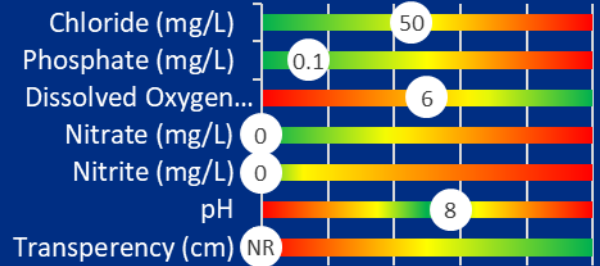
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	5290
E. coli MPN/100ml	172	100
Chloride mg/L	41.4	54.4
Nitrate as N mg/L	10.05	<0.05
Nitrite as N mg/L	0.04	<0.1
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



SSY 977106



Polk County Snapshot (Site Saylor Creek)
NW 72nd Place (north of bridge)



Site Details

Saylor Ck
SSY 977106

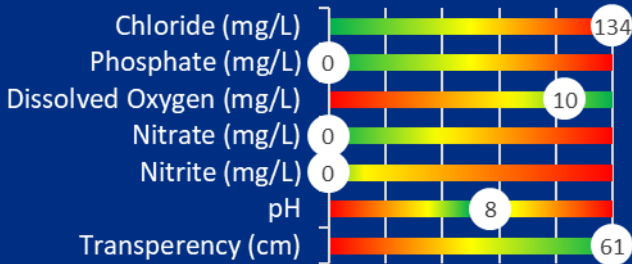
Watershed
Saylor Creek

Field Monitors
Spring & Fall –
City of Ankeny

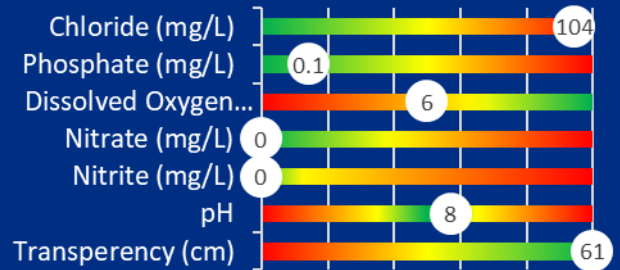
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	6310
E. coli MPN/100ml	309	410
Chloride mg/L	129.0	115.2
Nitrate as N mg/L	0.27	<0.05
Nitrite as N mg/L	0.01	0.21
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



SSP 977107



Polk County Snapshot (Site SC1)

Site Details

SC1
SSP 977107

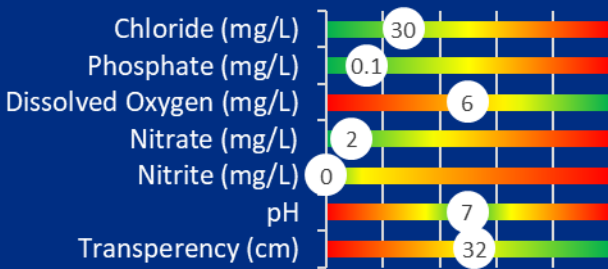
Watershed
Spring Creek

Field Monitors
Spring – Team #2
Fall – Team #2

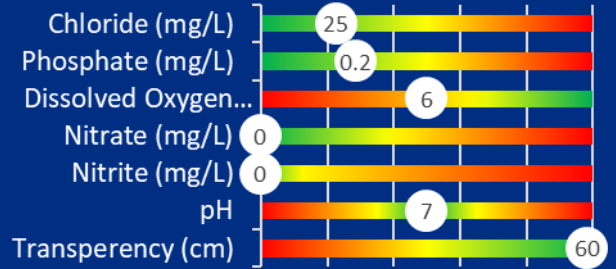
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



SSP 977108

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site SC2)
Vandalia Ave.

Site Details

SC2
SSP 977108

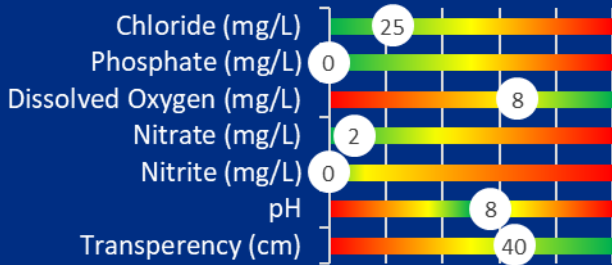
Watershed
Spring Creek

Field Monitors
Spring & Fall –
Charlie Finch,
PCC

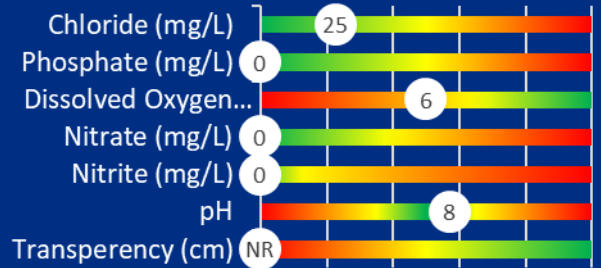
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	2420	54,750
E. coli MPN/100ml	517	2010
Chloride mg/L	28.9	30.2
Nitrate as N mg/L	3.19	<0.05
Nitrite as N mg/L	0.08	<0.1
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WWG 977109

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Waveland)
bike trail and Pleasant St. (between Cummins Pkwy
and 56th St.)

Site Details

WWG 977109
Waveland

Watershed

Walnut Creek

Field Monitors

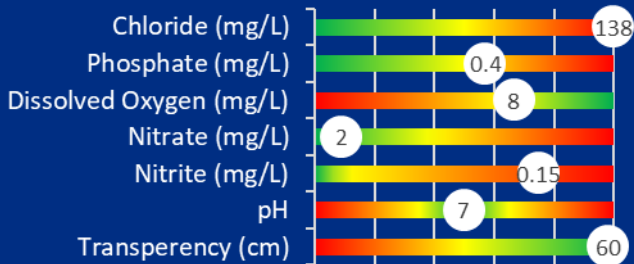
Spring – Shane
Laycock, DMPR

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WWL 977110

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site WC1)



Site Details

WC1
WWL 977110

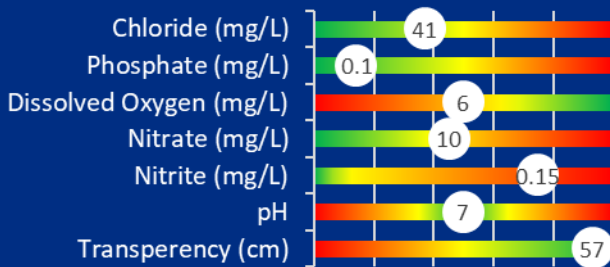
Watershed
Walnut Creek

Field Monitors
Spring & Fall –
City of Clive Public
Works Team #1

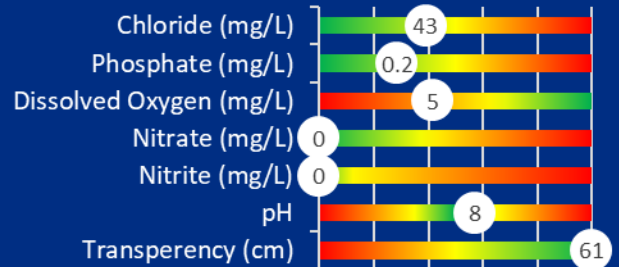
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WWL 977111



Site Details

WC2
WWL 977111

Watershed
Walnut Creek

Field Monitors

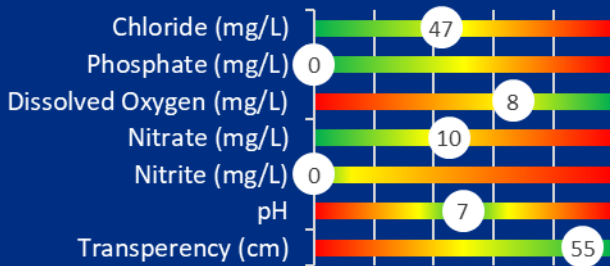
Spring & Fall –

City of Clive Public
Works Team #1

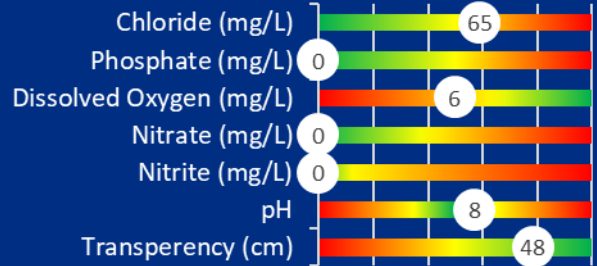
Lab sample results

	Spring		Fall
	2420	Total Coliforms MPN/100ml	16,640
	205	E. coli MPN/100ml	520
	50.8	Chloride mg/L	78.9
	11.64	Nitrate as N mg/L	<0.05
	0.07	Nitrite as N mg/L	0.12
	< 0.1	Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



WWL 977112

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site WC3)
100th St., Clive

Site Details

WC3
WWL 977112

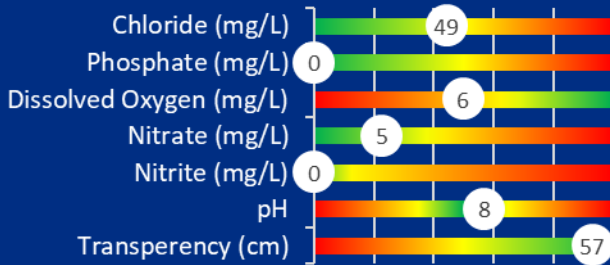
Watershed
Walnut Creek

Field Monitors
Spring – Team #13
Fall – Team #11

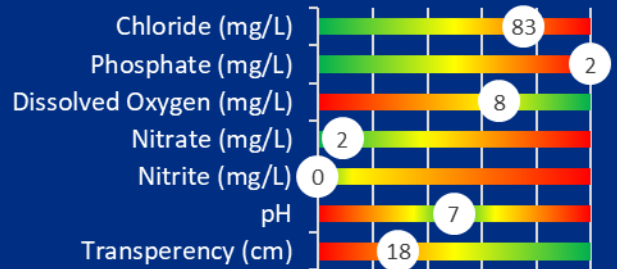
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WWL 977113



Polk County Snapshot (Site WC4)



Site Details

WC4
WWL 977113

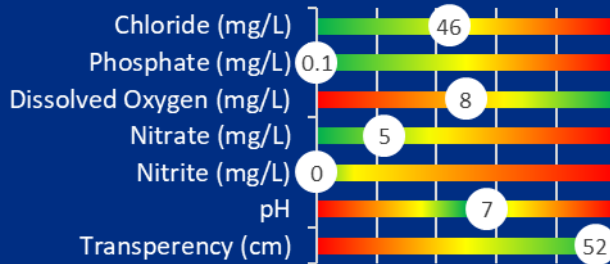
Watershed
Walnut Creek

Field Monitors
Spring – Team #6
Fall – Team #9

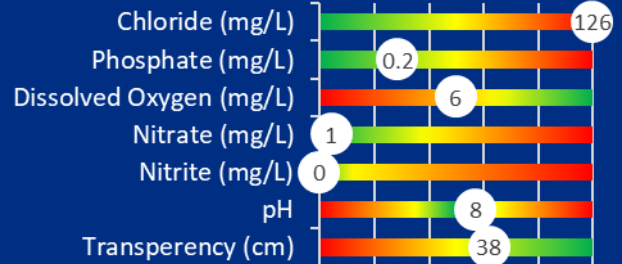
Lab sample results

	Spring		Fall
	>2420	Total Coliforms MPN/100ml	51,720
	276	E. coli MPN/100ml	5940
	59.5	Chloride mg/L	86.4
	10.67	Nitrate as N mg/L	0.09
	0.06	Nitrite as N mg/L	<0.1
	< 0.1	Phosphorus-O as P mg/L	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WWL 977114

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site WC5)



Site Details

WC5
WWL 977114

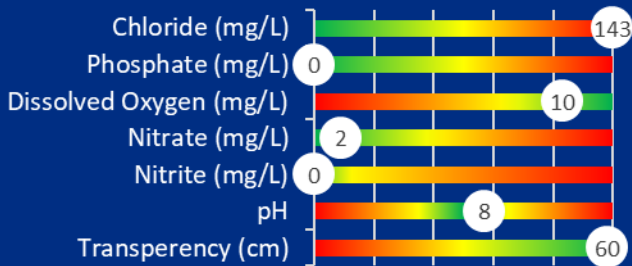
Watershed
Walnut Creek

Field Monitors
Spring – Team #6
Fall – Team #6

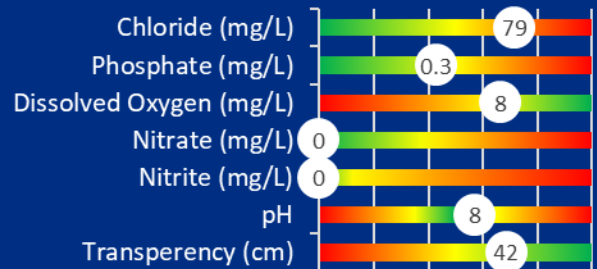
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WWL 977115

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site WC6)



Site Details

WC6
WWL 977115

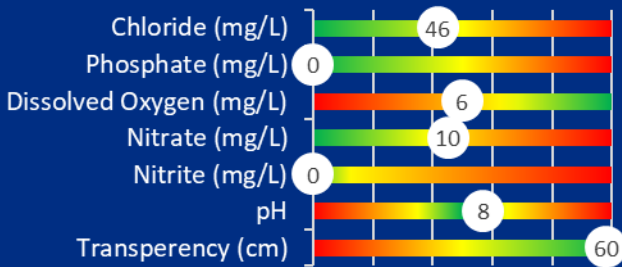
Watershed
Walnut Creek

Field Monitors
Spring – Team #6
Fall – Team #6

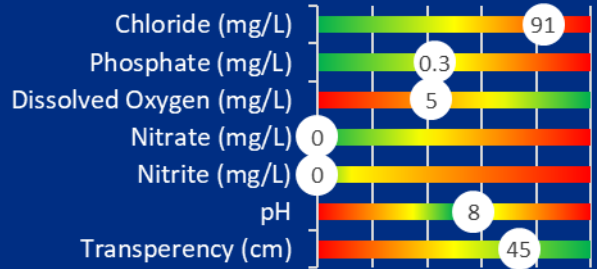
Lab sample results

	Spring		Fall
Total Coliforms MPN/100ml	>2420		241,960
E. coli MPN/100ml	291		20,140
Chloride mg/L	75.4		102.7
Nitrate as N mg/L	8.89		0.16
Nitrite as N mg/L	0.05		0.19
Phosphorus-O as P mg/L	< 0.1		0.17

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

YYD 977116

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site YC1)



Site Details

YC1
YYD 977116

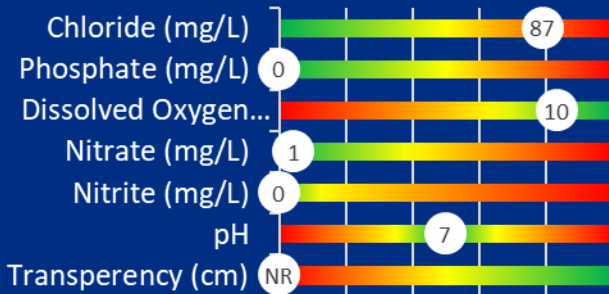
Watershed
Yeader Creek

Field Monitors
Spring – Team #10
Fall – Team #10

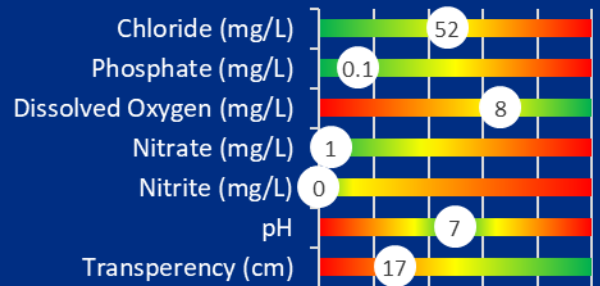
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



YYD 977117

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site YC2)

Indianola Ave at Ewing Park; monitor from pedestrian bridge on trail

Site Details

YC2
YYD 977117

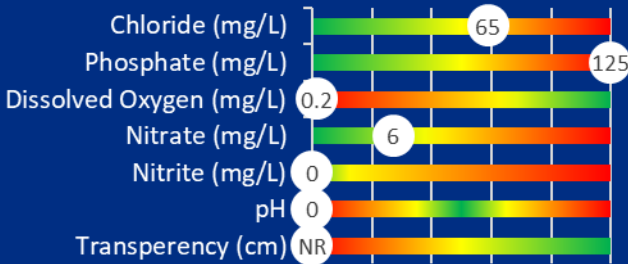
Watershed
Yeader Creek

Field Monitors
Spring & Fall – Tad
Thomas, DMPR

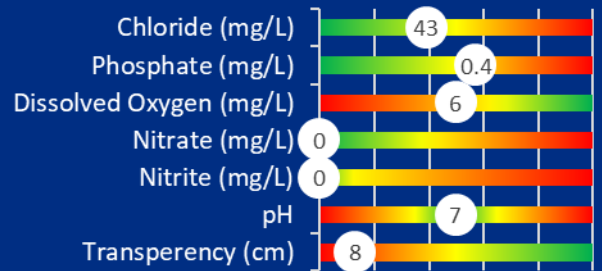
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	>241,960
E. coli MPN/100ml	121	81,640
Chloride mg/L	124.6	39.6
Nitrate as N mg/L	0.15	0.45
Nitrite as N mg/L	0.01	<0.1
Phosphorus-O as P mg/L	< 0.1	0.2

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



BBV 977120



977120 Beaver Creek
NW 121st

Polk County Conservation
Water Quality Monitoring
Program



Site Details

BBV 977120

977120 Beaver Cr

Watershed

Beaver Creek

Field Monitors

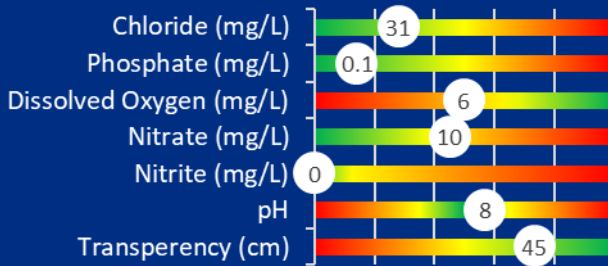
Spring – Lindsey Page,
PCC

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

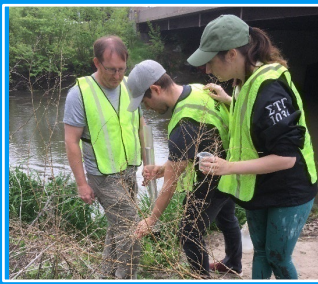
Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



BLB 977121



977121 Little Beaver Creek
NW 100th and Little Beaver about 1/2 mile East South
East where we can access the creek through
Crosshaven Park

Site Details

BLB 977121

977121 Little Beaver Cr

Watershed

Beaver Creek

Field Monitors

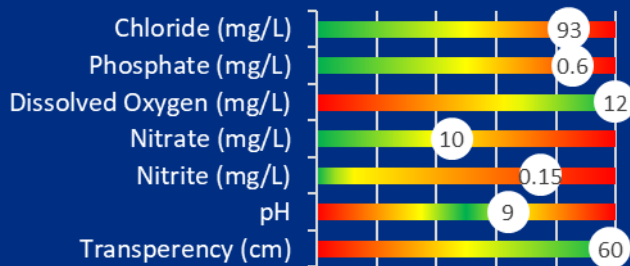
Spring – Dave Croll,
City of Johnston

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WWL 977147



977147 Walnut Creek
Colby Park

Polk County Conservation
Water Quality Monitoring
Program



Site Details

WWL 977147

977147 Walnut Creek

Watershed

Walnut Creek

Field Monitors

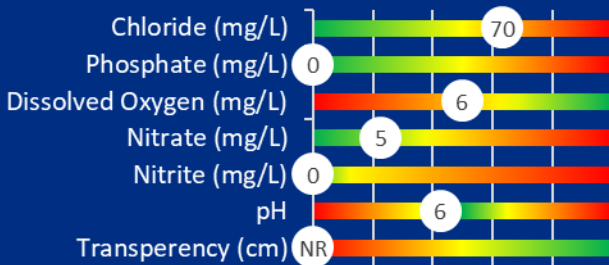
Spring - Steve Falck

Fall - Steve Falck
with Valley High
School students

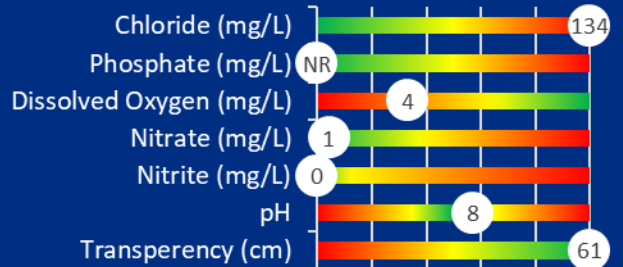
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



JJR 977150

Polk County Conservation
Water Quality Monitoring
Program



977150 Jordan Creek
north of Raccoon River Park Softball Complex
at Jordan Creek Trail and gravel road

Site Details

JJR 977150

977150 Jordan Creek

Watershed

Jordan Creek

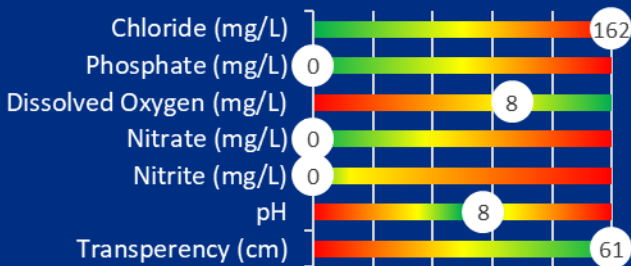
Field Monitors

Spring & Fall -
Melanie Perry,
WDM P&R

Lab sample results

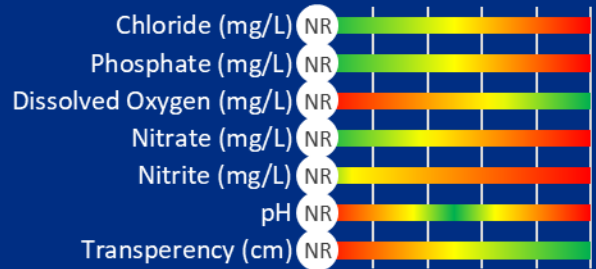
No samples obtained

Spring



Fall – site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



CCM 977152

Polk County Conservation
Water Quality Monitoring
Program



Bridge crossing into TM (low water crossing)



Site Details

CCM 977152

Watershed

Camp Creek

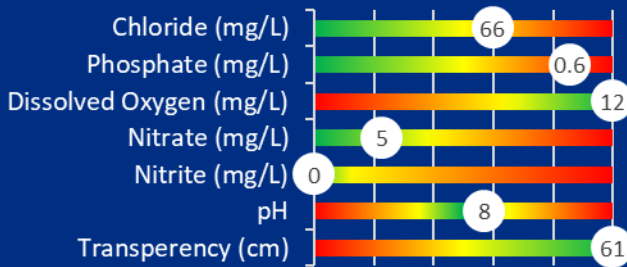
Field Monitors

Zach Deutmeyer,
Al Pasker, PCC

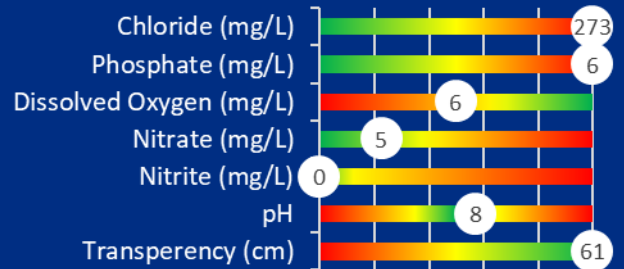
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



CCM 977156

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site CC3)

Site Details

CC3
CCM 977156

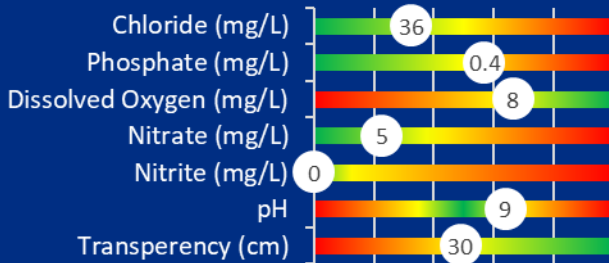
Watershed
Camp Creek

Field Monitors
Spring – Team #2
Fall - Team #2

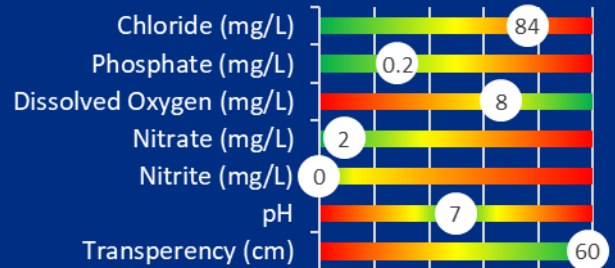
Lab sample results

	Spring		Fall
Total Coliforms MPN/100ml	>2420		32,550
E. coli MPN/100ml	770		1480
Chloride mg/L	41.6		80.3
Nitrate as N mg/L	7.8		0.06
Nitrite as N mg/L	0.06		<0.1
Phosphorus-O as P mg/L	< 0.1		<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

BLB 977157



Site Details

LBC1
BLB 977157

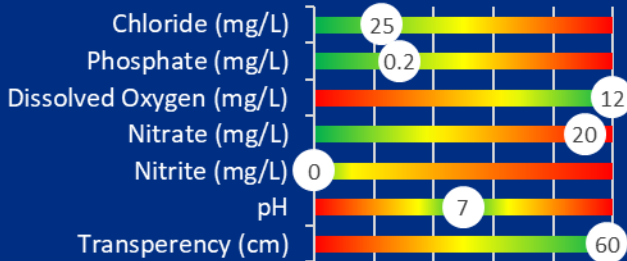
Watershed
Beaver Creek

Field Monitors
Spring – Team #9
Fall - Team #9

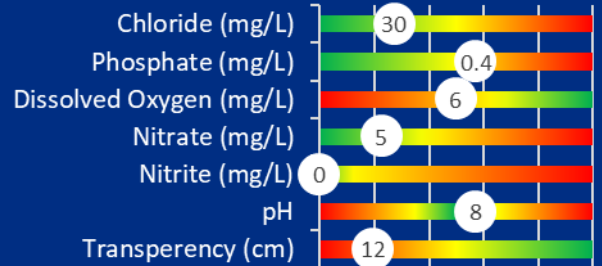
Lab sample results

Spring		Fall
1986	Total Coliforms MPN/100ml	198,630
727	E. coli MPN/100ml	9,880
28.9	Chloride mg/L	31.7
14.82	Nitrate as N mg/L	1.58
0.07	Nitrite as N mg/L	0.03
< 0.1	Phosphorus-O as P mg/L	< 0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

BLB 977158



Site Details

LBC2
BLB 977158

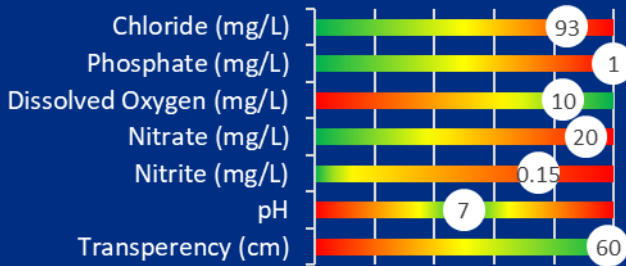
Watershed
Beaver Creek

Field Monitors
Spring – Team #9
Fall - No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

BLB 977159



Site Details

LBC3
BLB 977159

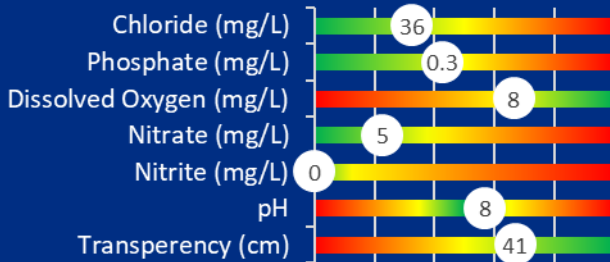
Watershed
Beaver Creek

Field Monitors
Spring – Team #7
Fall - Team #7

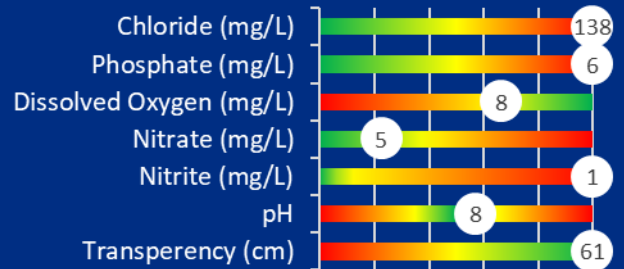
Lab sample results

	Spring		Fall
Total Coliforms MPN/100ml	>2420		24,810
E. coli MPN/100ml	194		1,340
Chloride mg/L	38.3		154.8
Nitrate as N mg/L	8.9		4.32
Nitrite as N mg/L	0.04		1
Phosphorus-O as P mg/L	< 0.1		1.93

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



BBV 977160

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Beaver Creek at Prairie Point)
Trestle to Trestle Trail - Prairie Point. Access via trail , travel
on trail just past water quality kiosk.



Site Details

Prairie Point
BBV 977160

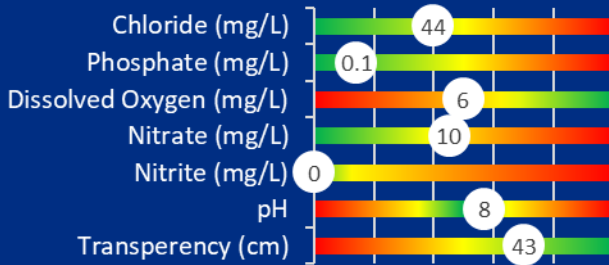
Watershed
Beaver Creek

Field Monitors
Spring – Jenna
Gatzke, PCC
Fall - no data

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

2022 Snapshot Report

POLK COUNTY
WATER QUALITY
MONITORING PROGRAM

BCL 977161

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Big Creek Lake)



Site Details

Big Creek Lake
BCL 977161

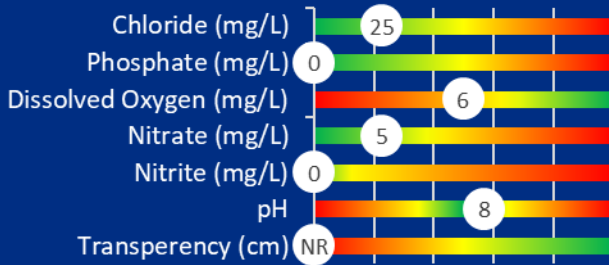
Watershed
Big Creek

Field Monitors
Spring & Fall –
Heidi Anderson
PCC

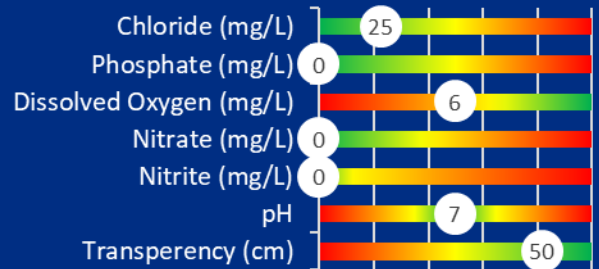
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



SLL 977164

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Saylorville Lake)



Site Details

Saylorville Lake
SLL 977164

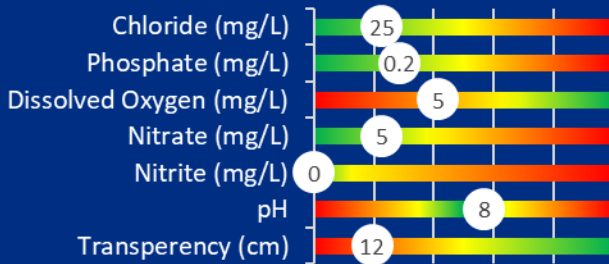
Watershed
Des Moines

Field Monitors
Spring & Fall –
Heidi Anderson
PCC

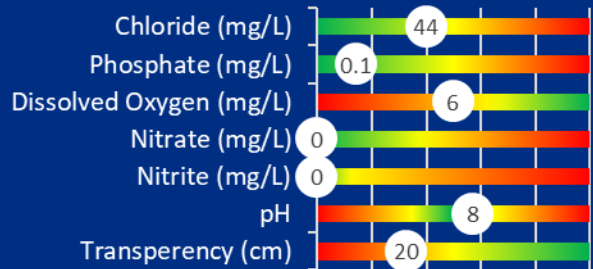
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

DWP 977168

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot Witmer Pond



Site Details

Witmer Pond
DWP 977168

Watershed
Des Moines

Field Monitors
Spring – no data
Fall – no data

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

2022 Snapshot Report

POLK COUNTY

WATER QUALITY
MONITORING PROGRAM

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

DGP 977169

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot Grandview Pond



Site Details

Grandview Pond
DGP 977169

Watershed

Des Moines

Field Monitors

Spring – no data

Fall – no data

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

DMP 977170

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot MacRae Pond



Site Details

MacRae Pond
DMP 977170

Watershed
Des Moines

Field Monitors
Spring – no data
Fall – no data

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

DDL 977173

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot Deans Lake



Site Details

Deans Lake
DDL 977173

Watershed
Des Moines

Field Monitors
Spring – no data
Fall – no data

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L



SSY 977189

Polk County Conservation
Water Quality Monitoring
Program



SAYLOR CREEK

Old Magazine Road (south of John Deere) (south of box culvert; upstream is fenced and private property)

Site Details

SSY 977189
SAYLOR CREEK

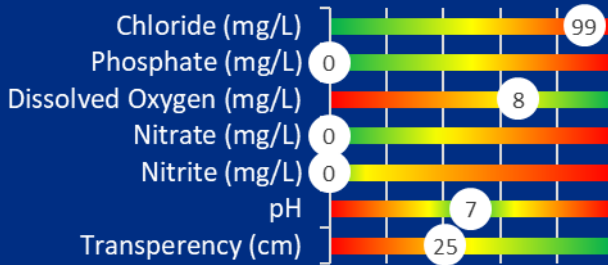
Watershed
SAYLOR CREEK

Field Monitors
Spring & Fall –
City of Ankeny

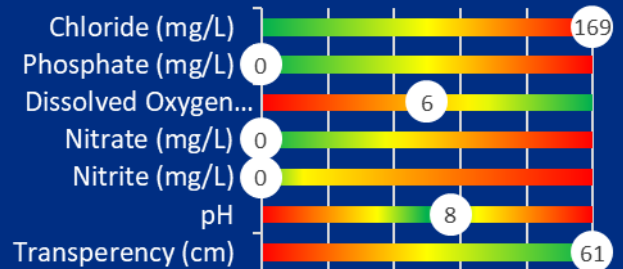
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



BBG 977192



Big Creek

N 3rd St just NW of Polk City town square

Polk County Conservation
Water Quality Monitoring
Program



Site Details

BBG 977192
BIG CREEK

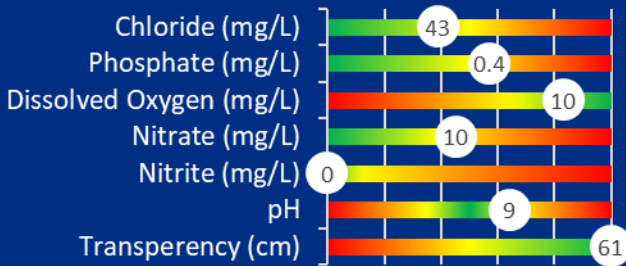
Watershed
BIG CREEK

Field Monitors
Spring & Fall –
Michael French,
PCC

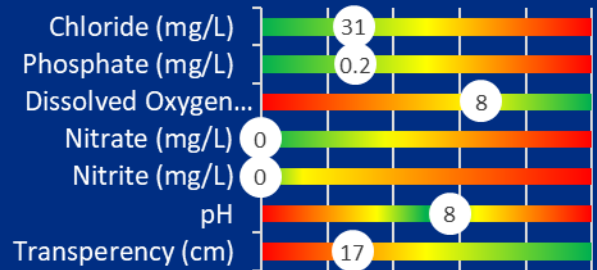
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



RRO 977196



Rock Creek

High Trestle Trail; SE of trail; NE of Weigel Dr.

Site Details

RRO 977196
Rock Creek

Watershed
ROCK CREEK

Field Monitors

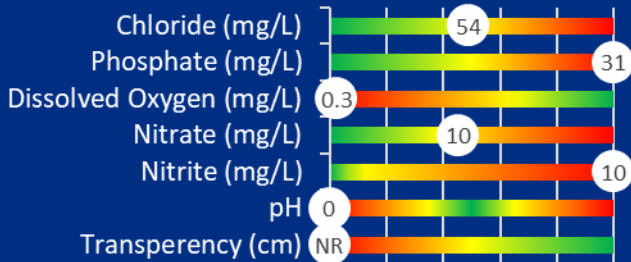
Spring & Fall –

Heidi Anderson,
PCC

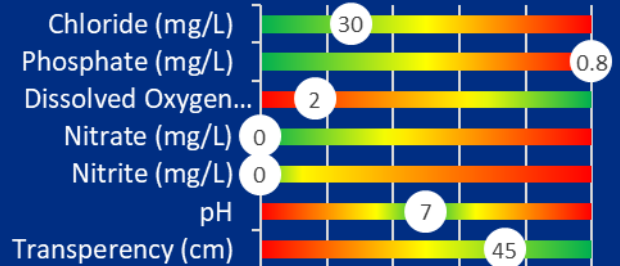
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WWL 977197



Walnut Creek at Valley Dr.

Polk County Conservation
Water Quality Monitoring
Program



Site Details

WWL 977197
Walnut Creek

Watershed
WALNUT CREEK

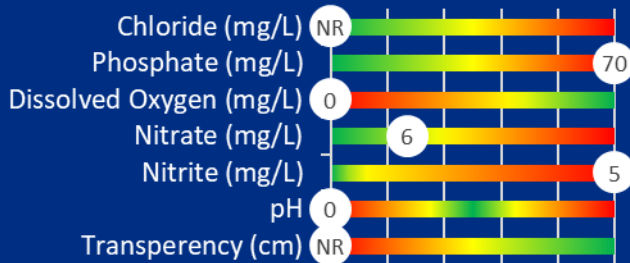
Field Monitors

Spring & Fall -
Steve Falck

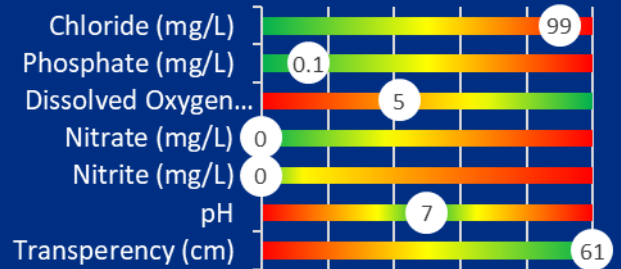
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

JPP 977214

Polk County Conservation
Water Quality Monitoring
Program



Polk County Snapshot (Site Jester Park Pond)



Site Details

Jester Park Pond
JPP 977214

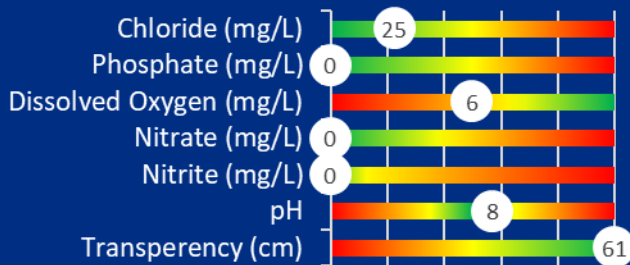
Watershed
DES MOINES

Field Monitors
Spring & Fall –
Heidi Anderson,
PCC

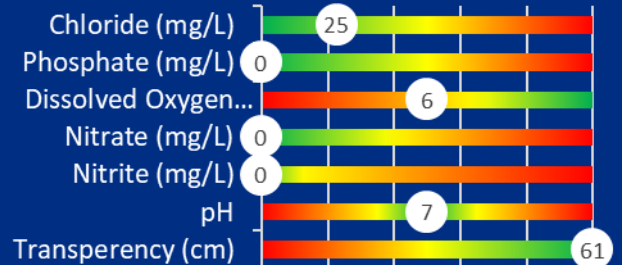
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

SSP 977222



Spring Creek at 80th Street bridge



Site Details

SSP 977222
SC3

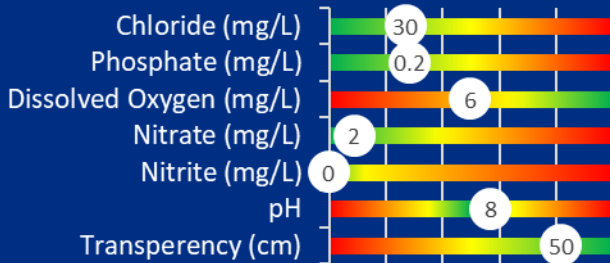
Watershed
SPRING CREEK

Field Monitors
Spring – Team #2
Fall – Team #2

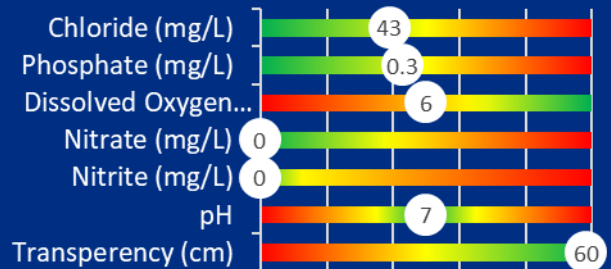
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	120,330
E. coli MPN/100ml	238	1,210
Chloride mg/L	29.7	47.9
Nitrate as N mg/L	3.72	<0.05
Nitrite as N mg/L	0.04	<0.1
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

WWL 977223

Polk County Conservation
Water Quality Monitoring
Program



Walnut Creek Tributary, Clive



Site Details

WWL 977223
WC Trib

Watershed
WALNUT CREEK

Field Monitors
Spring & Fall -

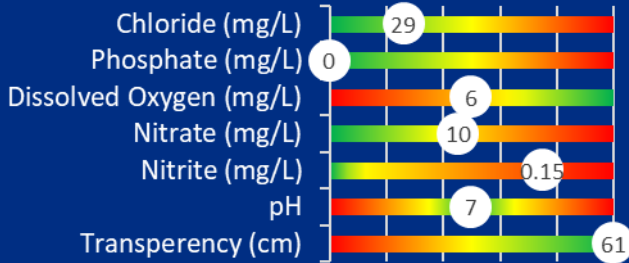
City of Clive Public
Works Team #1

Lab sample results

Spring
>2420
1553
32.2
15.87
0.09
< 0.1

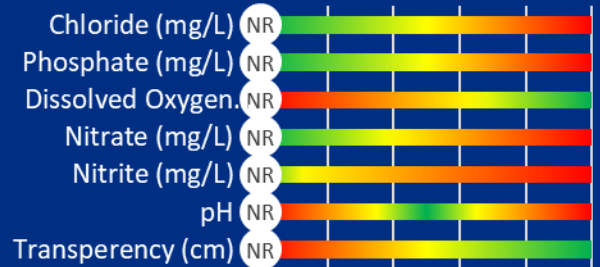
Fall
Total Coliforms MPN/100ml
E. coli MPN/100ml
Chloride mg/L
Nitrate as N mg/L
Nitrite as N mg/L
Phosphorus-O as P mg/L
Site dry

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WWL 977224



Walnut Creek WC8

Polk County Conservation
Water Quality Monitoring
Program



Site Details

WWL 977224
WC8

Watershed
WALNUT CREEK

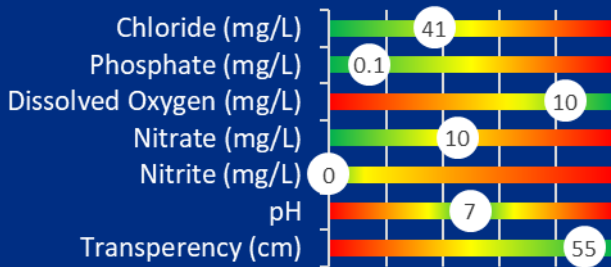
Field Monitors
Spring & Fall –

City of Clive Public
Works Team #1

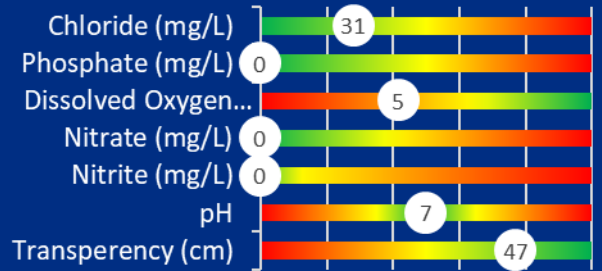
Lab sample results

	Spring	Fall
Total Coliforms MPN/100ml	>2420	9,600
E. coli MPN/100ml	249	980
Chloride mg/L	39.5	36.2
Nitrate as N mg/L	13.49	<0.05
Nitrite as N mg/L	0.09	<0.1
Phosphorus-O as P mg/L	< 0.1	<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

WLW 977225



Little Walnut Creek
LWC1

Polk County Conservation
Water Quality Monitoring
Program



Site Details

LWC1
WLW 977225

Watershed
WALNUT CREEK

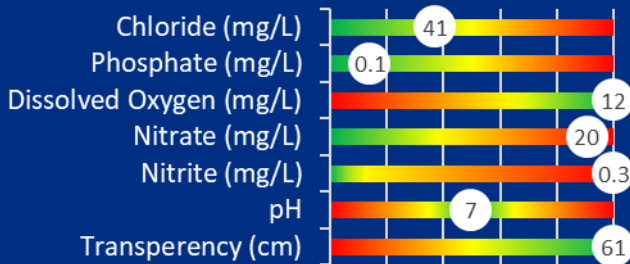
Field Monitors
Spring & Fall –

City of Clive Public
Works Team #1

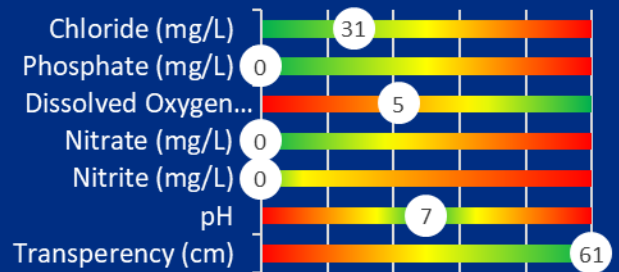
Lab sample results

	Spring		Fall
Total Coliforms MPN/100ml	>2420		9,850
E. coli MPN/100ml	119		1,350
Chloride mg/L	39.7		30.9
Nitrate as N mg/L	21.05		<0.05
Nitrite as N mg/L	0.09		<0.1
Phosphorus-O as P mg/L	< 0.1		<0.1

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



SSP 977242

Polk County Conservation
Water Quality Monitoring
Program



Spring Creek near SE Polk High School



Site Details

SSP 977242
Spring Creek

Watershed
SPRING CREEK

Field Monitors

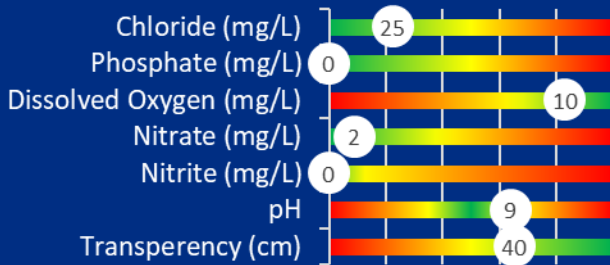
Spring – Melany
Shaw

Fall – Team #3

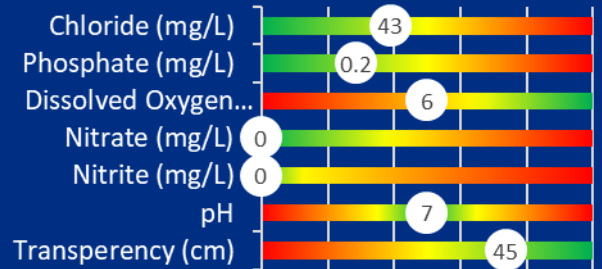
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



WNW 977252



North Walnut Creek
North of Hickman Rd and Colby Woods Drive

Polk County Conservation
Water Quality Monitoring
Program



Site Details

WNW 977252
N Walnut Creek

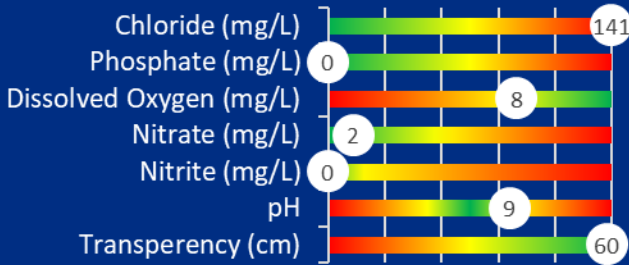
Watershed
WALNUT CREEK

Field Monitors
Spring & Fall –
Allan Goldberg

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



JJR 977270



Jordan Creek
North of University Boulevard

Polk County Conservation
Water Quality Monitoring
Program



Site Details

JJR 977270
Jordan Creek

Watershed
JORDAN CREEK

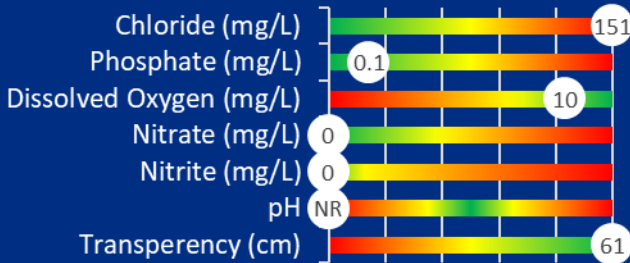
Field Monitors
Spring – Team 8

Fall – Jeff Behan,
Randy Cox, City of
West Des Moines

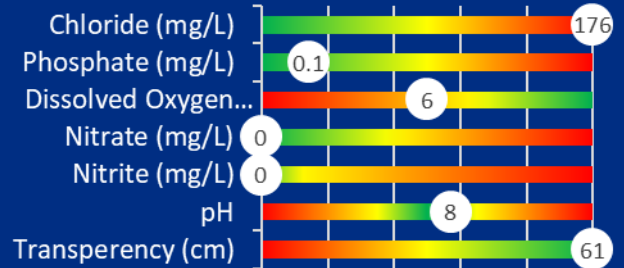
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



YYD 977273

Polk County Conservation
Water Quality Monitoring
Program



SW 13th St. bridge (residential), walk south on hill
at the dead end of SW 13th Street



Site Details

YYD 977273
Yeader Creek

Watershed
YEADER CREEK

Field Monitors
Spring & Fall –
Reed Russell, PCC

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



ELO 977275

Polk County Conservation
Water Quality Monitoring
Program



Hartford Avenue north of Easter Lake



Site Details

ELO 977275
Easter Lake Outlet

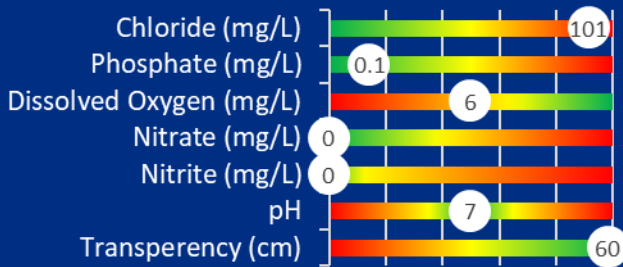
Watershed
Easter Lake

Field Monitors
Spring & Fall -
City of Des Moines,
Clean Water
Program

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L



JPW 977300

Polk County Conservation
Water Quality Monitoring
Program



Foot bridge crossing off of Hickory Ridge Trail

Site Details

JPW 977300
Paw Creek

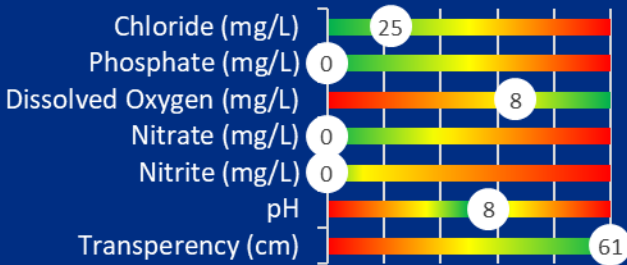
Watershed
Des Moines

Field Monitors
Spring & Fall –
David Weidt, John
Mackey, PCC

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FFM 977301

Polk County Conservation
Water Quality Monitoring
Program



NE 36th, Ankeny; on the north side of NE 36th Street bridge

Site Details

FFM 977301
Fourmile Creek

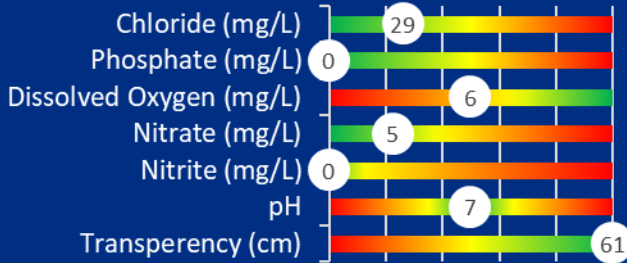
Watershed
Fourmile

Field Monitors
Spring & Fall –
Lew Major, PCC

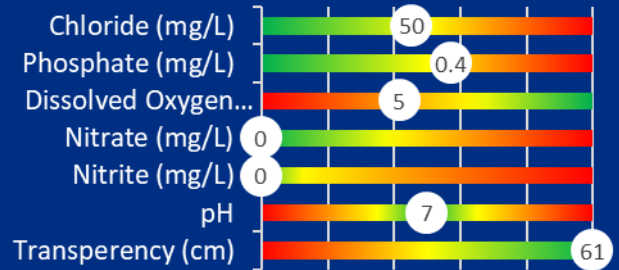
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



MMD 977302

Polk County Conservation
Water Quality Monitoring
Program



SE 56th Ave. NW of Runnells, bridge where the creek crosses Vandalia Rd



Site Details

MMD 977302
Mud Creek

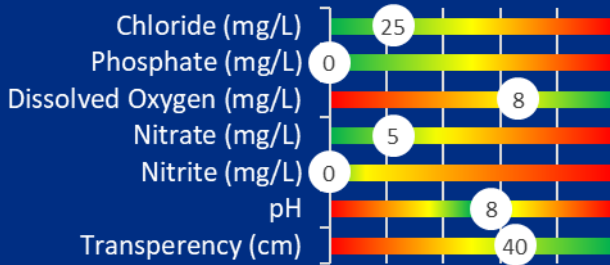
Watershed
Mud Creek

Field Monitors
Spring & Fall –
Charlie Finch, PCC

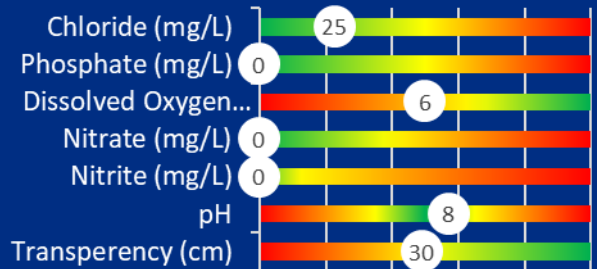
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



MMD 977303

Polk County Conservation
Water Quality Monitoring
Program



NE 62nd Avenue just north of Altoona



Site Details

MMD 977303
Mud Creek

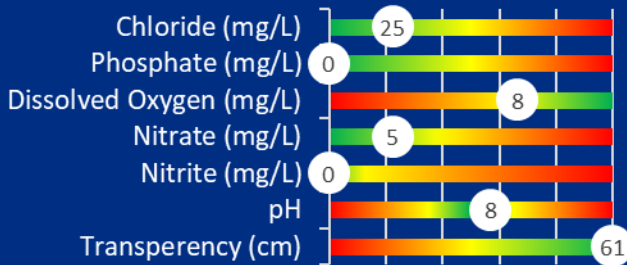
Watershed
Mud Creek

Field Monitors
Spring & Fall –
James Dotzler, PCC

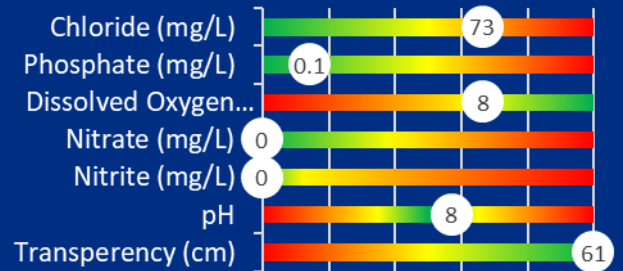
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



MMD 977304

Polk County Conservation
Water Quality Monitoring
Program



NE 12th just off Hwy 163/University Avenue



Site Details

MMD 977304
Mud Creek

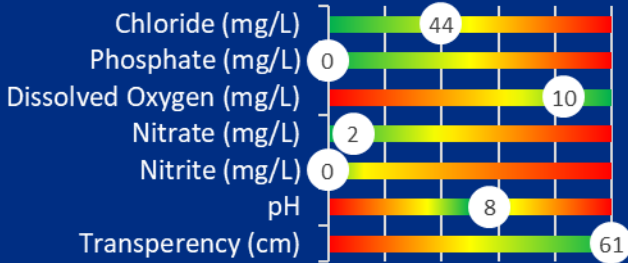
Watershed
Mud Creek

Field Monitors
Spring & Fall – Zach
Deutmeyer, Al
Pasker, PCC

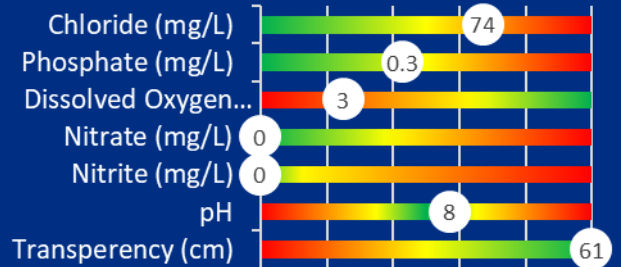
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)

YYD 977305



South Union bridge

Polk County Conservation
Water Quality Monitoring
Program



Site Details

YYD 977305
Yeader Creek

Watershed
Yeader Creek

Field Monitors
Spring & Fall – Reed
Russell, PCC

Lab sample results

No samples obtained

Spring–
No report

Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

2022 Snapshot Report

POLK COUNTY

**WATER QUALITY
MONITORING PROGRAM**

[Return to Site Map](#)



CBL 977306

Polk County Conservation
Water Quality Monitoring
Program



Chichaqua Bottoms Greenbelt, 118th near Bailey
Carpenter

Site Details

CBL 977306
Bluff Creek

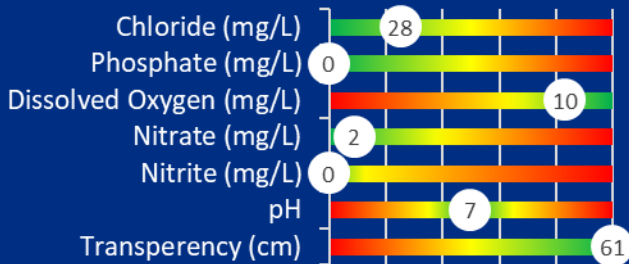
Watershed
Bluff Creek

Field Monitors
Spring & Fall – Lael
Neal, PCC

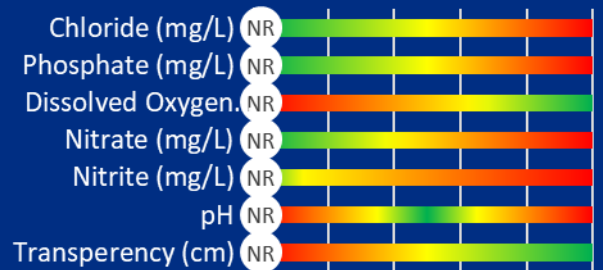
Lab sample results

No samples obtained

Spring



Site dry Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



CCR 977307

Polk County Conservation
Water Quality Monitoring
Program



Chichaqua Bottoms Greenbelt, entering
Buttonbush

Site Details

CCR 977307
Carney Creek

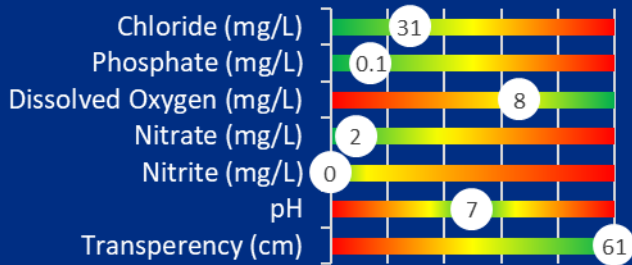
Watershed
Carney Creek

Field Monitors
Spring & Fall –
Dan Hrubes, PCC

Lab sample results

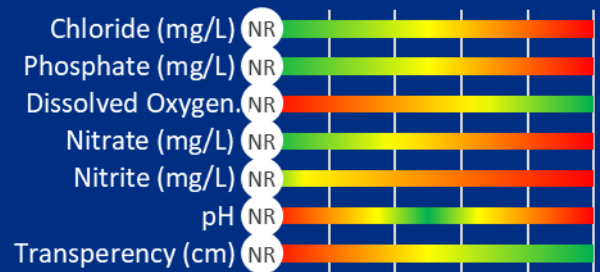
No samples obtained

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

FFM 977308

Polk County Conservation
Water Quality Monitoring
Program



Vandalia Avenue, west of Hwy 5 near the mouth
of the river



Site Details

FFM 977308
Fourmile Creek

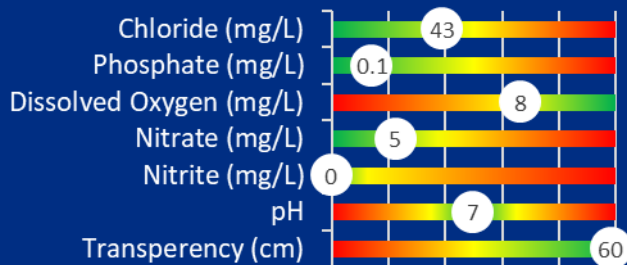
Watershed
Fourmile Creek

Field Monitors
Spring – Team #8
Fall – Team #8

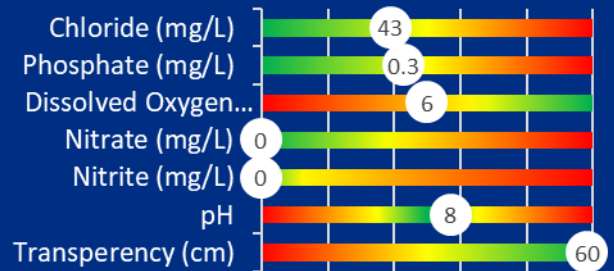
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FDR 977309



Deer Creek tributary-NE Frisk Drive, Ankeny



Site Details

FDR 977309
Deer Creek

Watershed
Fourmile Creek

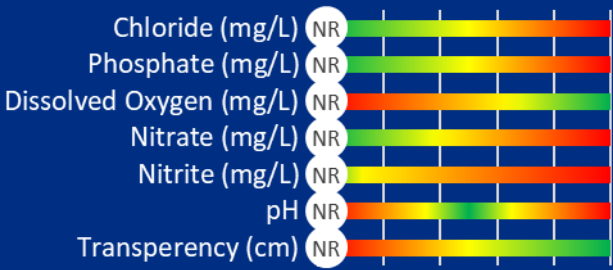
Field Monitors
Spring & Fall –
Lewis Major, PCC

Lab sample results

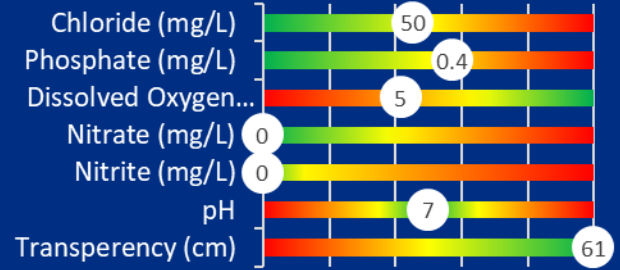
No samples obtained

Spring

Site closed - construction



Fall



Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L



C04 977310

Polk County Conservation
Water Quality Monitoring
Program



Chichaqua Bottoms Greenbelt- water from DD4, original Skunk River near Otter Trail, east of control marsh



Site Details

C04 977310

Drainage Ditch 4

Watershed

Skunk River

Field Monitors

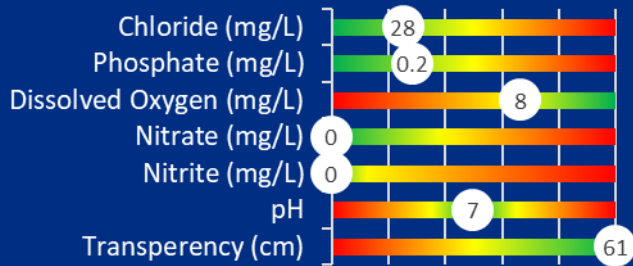
Spring & Fall –

Lael Neal, PCC

Lab sample results

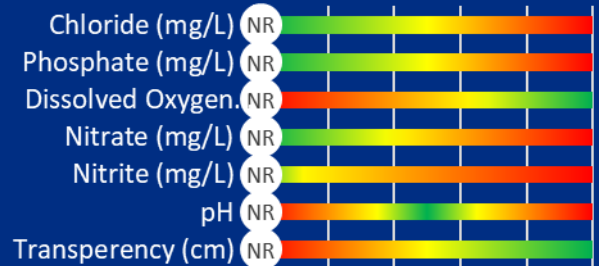
No samples obtained

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

2022 Snapshot Report

POLK COUNTY
WATER QUALITY
MONITORING PROGRAM

[Return to Site Map](#)



C38 977311

Polk County Conservation
Water Quality Monitoring
Program



Chichaqua Bottoms Greenbelt –
Drainage Ditch #38

Site Details

C38 977311

Drainage Ditch 38

Watershed

Skunk River

Field Monitors

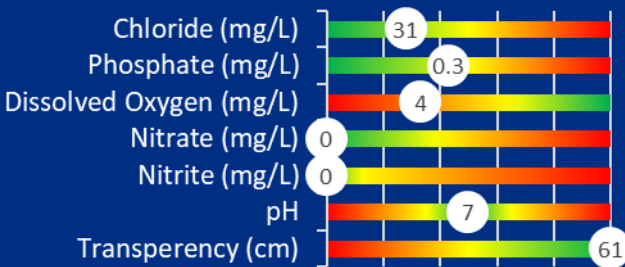
Spring & Fall –

Dan Hrubes, PCC

Lab sample results

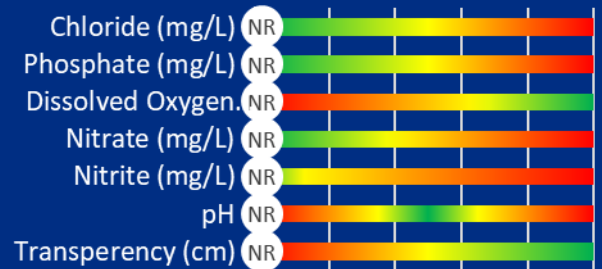
No samples obtained

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FMC 977312

Polk County Conservation
Water Quality Monitoring
Program



Muchiknock Creek - NE Berwick Dr.



Site Details

FMC 977312
Muchiknock Creek

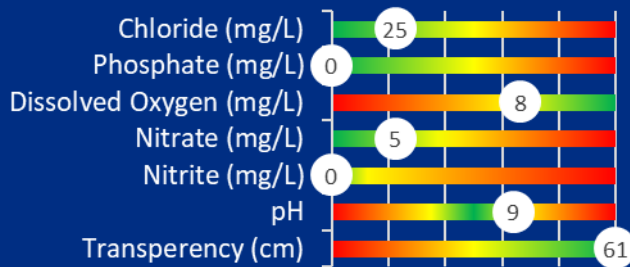
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
Michael French,
PCC

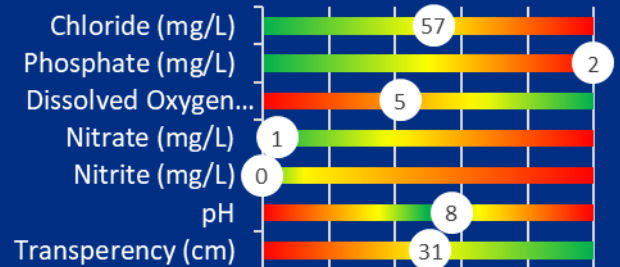
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



JPW 977313

Polk County Conservation
Water Quality Monitoring
Program



Jester Park Golf Course fork of Paw Creek

Site Details

JPW 977313
Paw Creek

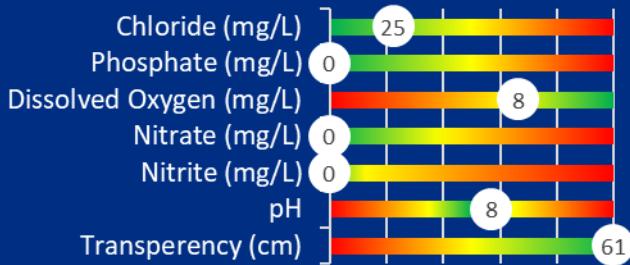
Watershed
Des Moines

Field Monitors
Spring & Fall –
David Weidt, John
Mackey, PCC

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FLF 977321

Polk County Conservation
Water Quality Monitoring
Program



Little Fourmile Creek at East University Avenue
bridge

Site Details

FLF 977321
Little Fourmile

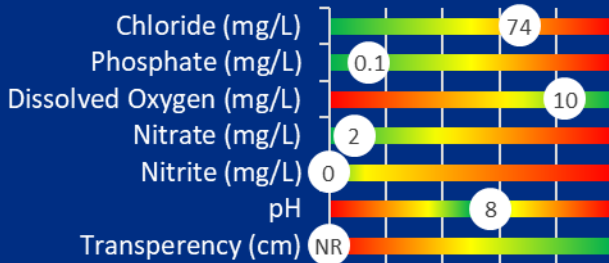
Watershed
Fourmile Creek

Field Monitors
Spring – John Harri &
Penny Thomsen
Fall – John Harri

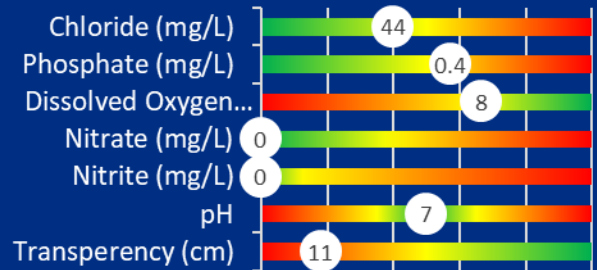
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



SSN 977322

Polk County Conservation Water Quality Monitoring Program



Property on Santiago Drive at bridge near NE
82nd Avenue

Site Details

SSN 977322
Santiago Creek

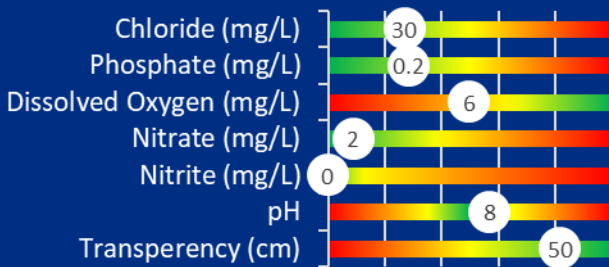
Watershed
Santiago Creek

Field Monitors
Spring & Fall –
Jim Tredway

Lab sample results

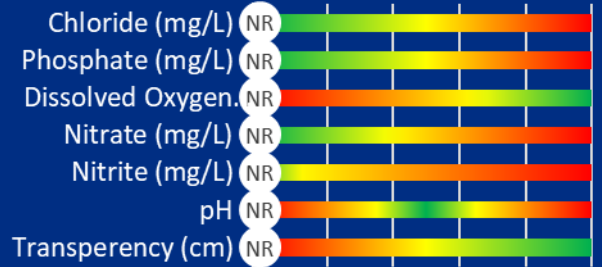
No samples obtained

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



ELM 977323



Three Lakes Estates

Polk County Conservation
Water Quality Monitoring
Program



Site Details

ELM 977323
MAGNOLIA CREEK

Watershed

Easter Lake

Field Monitors

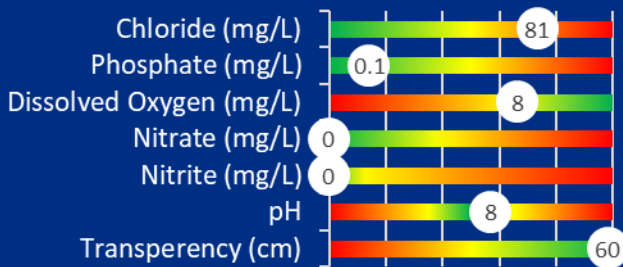
Spring & Fall –

City of Des Moines,
Clean Water
Program

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



FLF 977324

Polk County Conservation
Water Quality Monitoring
Program



Little Fourmile Creek on south side along railroad culvert, Lyon's park in Altoona

Site Details

FLF 977324
Little Fourmile

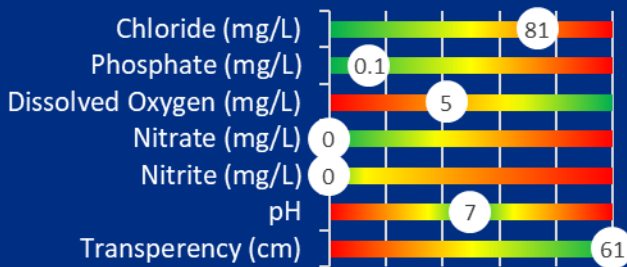
Watershed
Fourmile Creek

Field Monitors
Spring & Fall –
City of Altoona

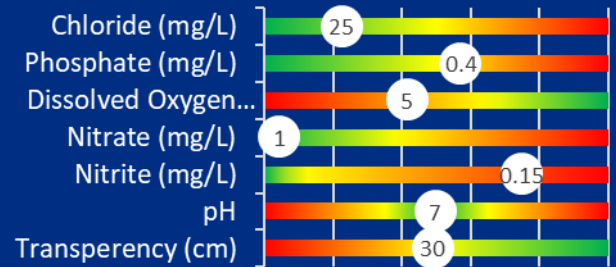
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



CCW 977325

Polk County Conservation
Water Quality Monitoring
Program



Crawford Creek at SE 9th, north of Hartford Avenue

Site Details

CCW 977325
Crawford Creek

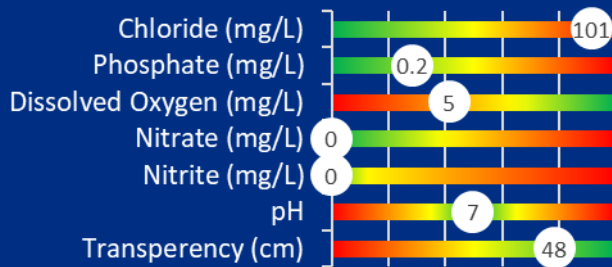
Watershed
Des Moines

Field Monitors
Spring & Fall –
City of Des Moines,
Clean Water
Program

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

[Return to Site Map](#)



CLI 977326

Polk County Conservation
Water Quality Monitoring
Program



Case Lake Inflow on Hartford Avenue north of
East Park Avenue and South of Case Lake

Site Details

CLI 977326
Case Lake Inflow

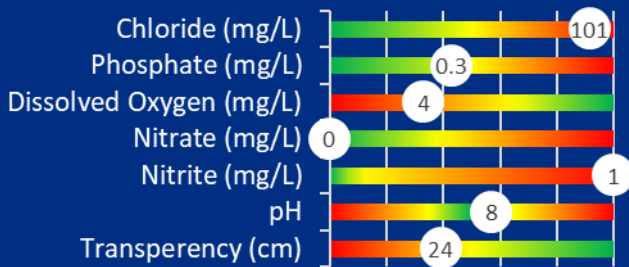
Watershed
Des Moines

Field Monitors
Spring & Fall –
City of Des Moines,
Clean Water
Program

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



IIN 977327

Polk County Conservation
Water Quality Monitoring
Program



Indian Creek, NE 162ND Avenue, east of NE
104TH Street, south of Maxwell

Site Details

IIN 977327
INDIAN CREEK

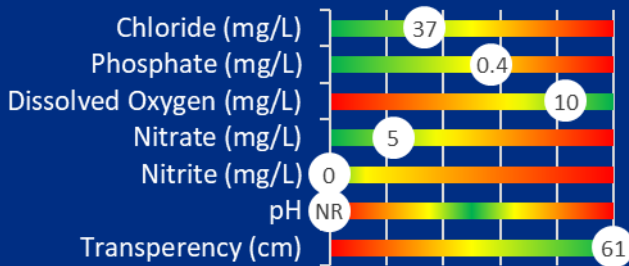
Watershed
Indian Creek

Field Monitors
Spring –Team #11
Fall –No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



DSM 977328

Polk County Conservation
Water Quality Monitoring
Program



Tributary of Des Moines River

Site Details

DSM 977328
DM River Tributary

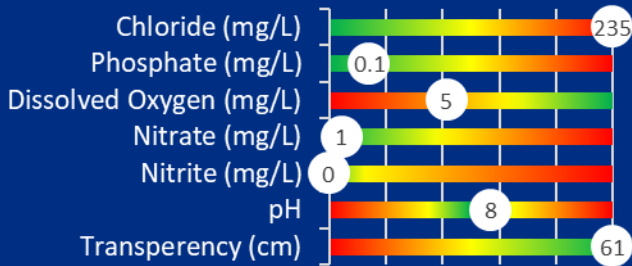
Watershed
Des Moines

Field Monitors
Spring & Fall –
Rachel Hainsfield,
DMPR

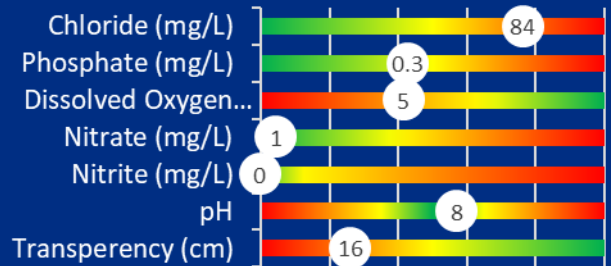
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



DSM 977329



Unnamed creek - Hartford Avenue

Site Details

DSM 977329
Unnamed creek

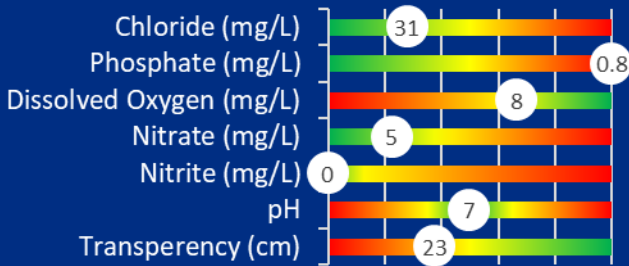
Watershed
Des Moines

Field Monitors
Spring & Fall –
Joel Van Roekel,
DMPR

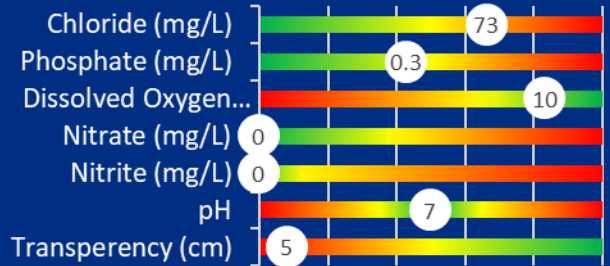
Lab sample results

No samples obtained

Spring



Fall



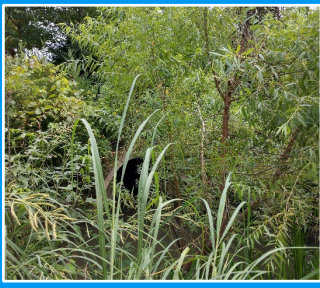
Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



WGC 977330

Polk County Conservation
Water Quality Monitoring
Program



Glendale Cemetery Creek

Site Details

WGC 977330
Glendale Cemetery

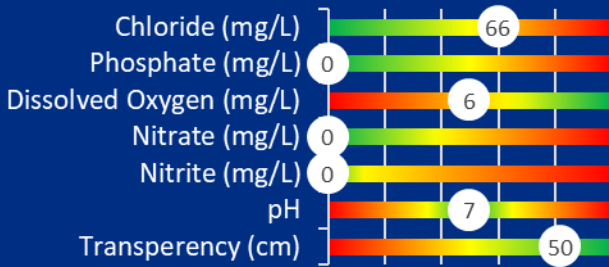
Watershed
Walnut Creek

Field Monitors
Spring & Fall –
Shane Laycock,
DMPR

Lab sample results

No samples obtained

Spring



Fall –
No report -
lightening

Parameter Ranges

Nitrate	0 – 50 mg/L
Phosphate	0 – 10 mg/L
Chloride	25 – 600+ mg/L
Dissolved Oxygen	0 – 12 mg/L



FFM 977332

Polk County Conservation
Water Quality Monitoring
Program



Fourmile creek west of Alleman Country Estates
at NE 134th Avenue between NW 2nd Street and NE 6th
Street



Site Details

FFM 977332

Fourmile Creek

Watershed

Fourmile Creek

Field Monitors

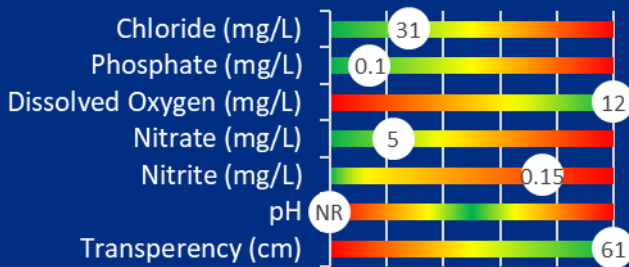
Spring – Team # 11

Fall – No Report

Lab sample results

No samples obtained

Spring



Fall –
No report

Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



DGW 977333

Polk County Conservation
Water Quality Monitoring
Program



Drainage creek going into northwest side
Greenwood Park Pond near Art Center



Site Details

DGW 977333

Greenwood inflow

Watershed

Raccoon River

Field Monitors

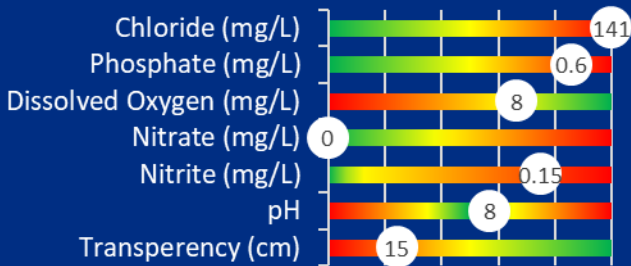
Spring – Abby
Chungath, Team #12

Fall – Abby
Chungath, Team #5

Lab sample results

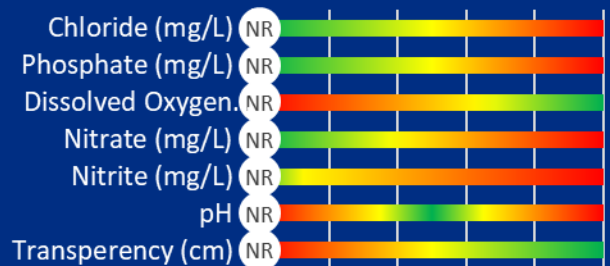
No samples obtained

Spring



Site dry

Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



DGE 977334

Polk County Conservation
Water Quality Monitoring
Program



Drainage creek going into northeast side
Greenwood Park Pond near Art Center



Site Details

DGE 977334

Greenwood inflow

Watershed

Raccoon River

Field Monitors

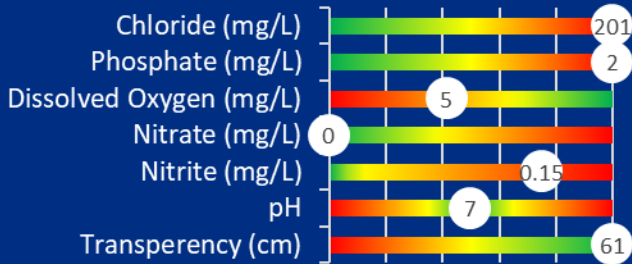
Spring – Abby
Chungath, Team #12

Fall - Abby
Chungath, Team #5

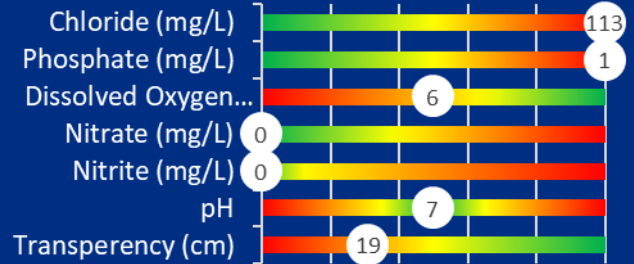
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



DGS 977335

Polk County Conservation
Water Quality Monitoring
Program



Drainage creek leaving Greenwood Park Pond near Art Center

Site Details

DGS 977335

Greenwood outflow

Watershed

Raccoon River

Field Monitors

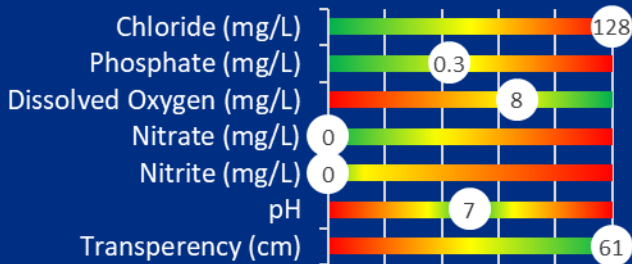
Spring – Abby Chungath, Team #12

Fall – Abby Chungath, Team #5

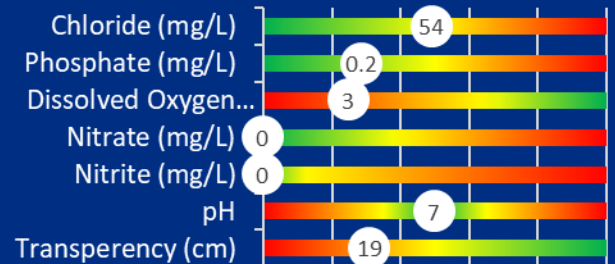
Lab sample results

No samples obtained

Spring



Fall



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L



GLL 977163



Gray's Lake Beach

Polk County Conservation
Water Quality Monitoring
Program



Site Details

GLL 977163

Gray's Lake Beach

Watershed

Raccoon River

Field Monitors

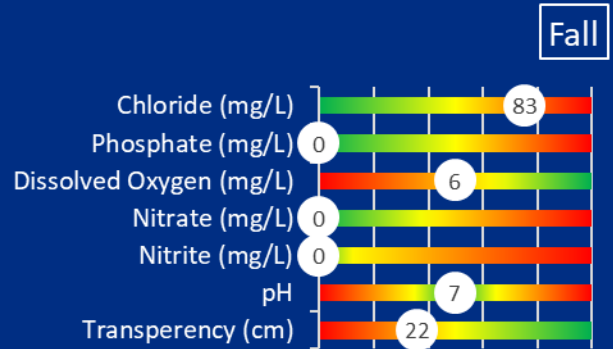
Spring – No Report

Fall – Claire Hruby,
Drake University

Lab sample results

	Fall
Total Coliforms MPN/100ml	6310
E. coli MPN/100ml	410
Chloride mg/L	115.2
Nitrate as N mg/L	<0.05
Nitrite as N mg/L	0.21
Phosphorus-O as P mg/L	<0.1

Spring –
No report



Parameter Ranges

Nitrate 0 – 50 mg/L

Phosphate 0 – 10 mg/L

Chloride 25 – 600+ mg/L

Dissolved Oxygen 0 – 12 mg/L

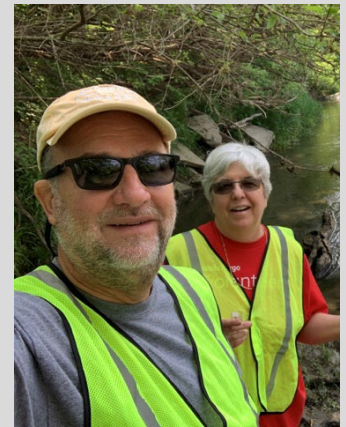
[Return to Site Map](#)

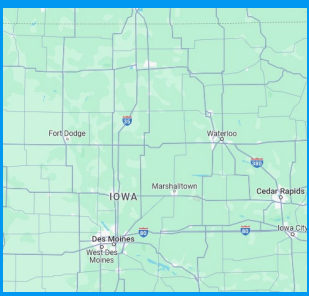
Regional Snapshot

Volunteers, partners and agencies throughout the region join forces to capture data in the 2023 Spring Snapshot

Spring Snapshot partners include Des Moines Water Works, Cities of Altoona, Ankeny, Clive, Des Moines, Johnston, West Des Moines, Izaak Walton League, Iowa Rivers Revival, Wells Fargo, Impact 7G, Inc., ITA Group, Seneca, and efforts from County Conservation Boards, Izaak Walton League and volunteers in:

- Greene County
- Polk County
- Story County
- Whiterock Conservancy
- Cedar River
- Cedar River – Mower County, Minnesota
- Missouri River Watershed
- Middle Raccoon in Panora
- Upper Iowa River





Regional Snapshot

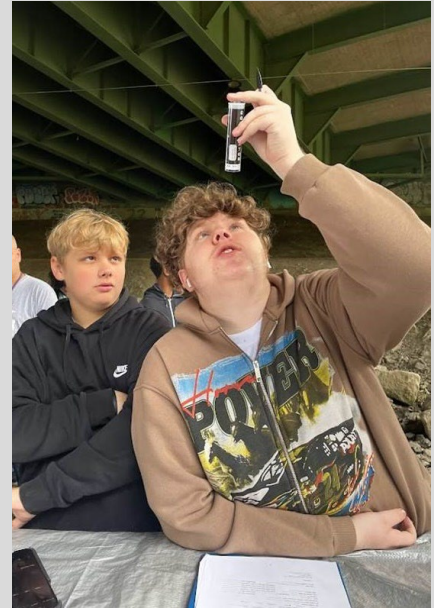
Volunteers, partners and agencies throughout the region join forces to capture data in the Fall 2023 Snapshot

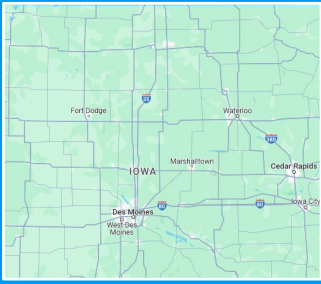
Fall Snapshot partners include

- Des Moines Water Works
- City of Altoona
- City of Ankeny
- City of Clive
- City of Des Moines and Des Moines Parks and Recreation
- City of West Des Moines and WDM Parks and Recreation
- Izaak Walton League
- Impact 7G, Inc.
- ITA Group
- Seneca
- Wells Fargo

Regional efforts led by

- Prairie Rivers of Iowa with Story County Conservation - sites in Story, Boone, and Hamilton counties
- Izaak Walton League, Panora Chapter - sites in Greene County,
- Izaak Walton League, Minnesota chapter - sites along Cedar River headwaters

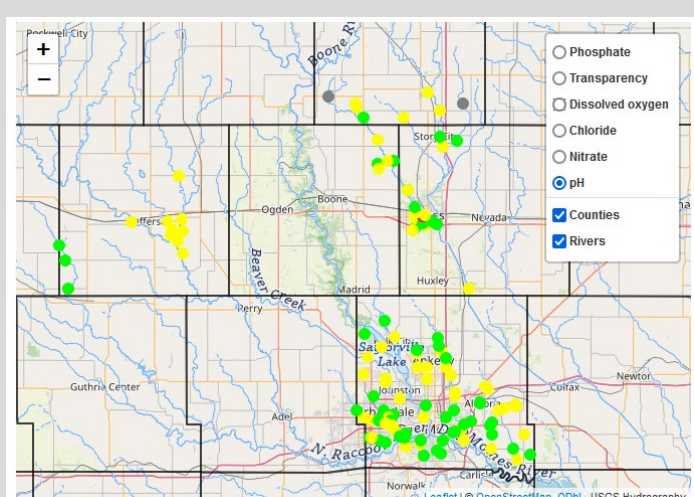
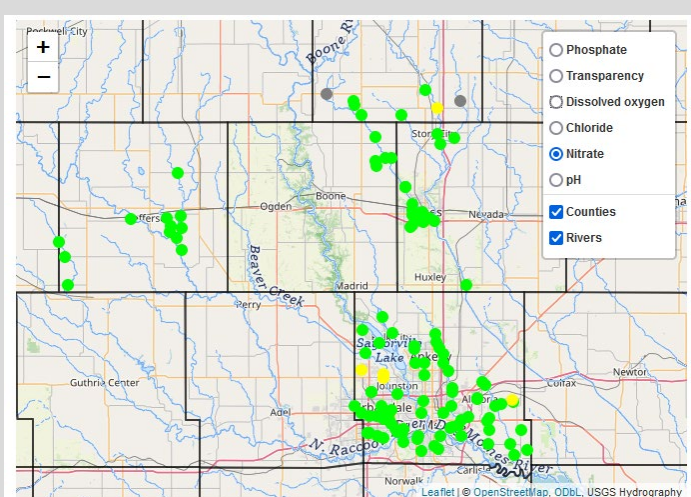
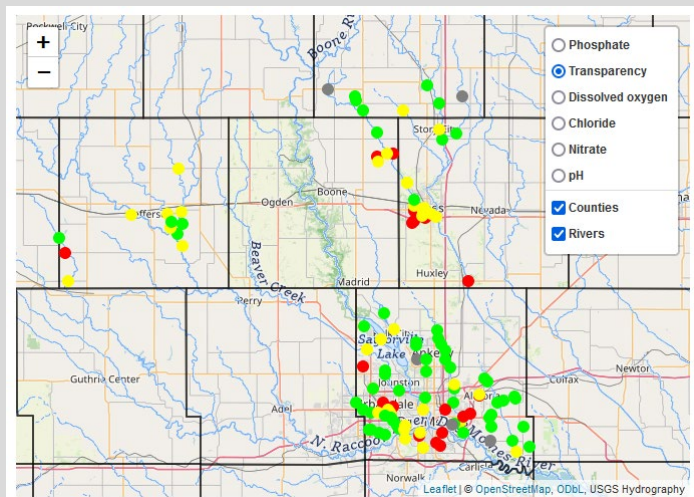
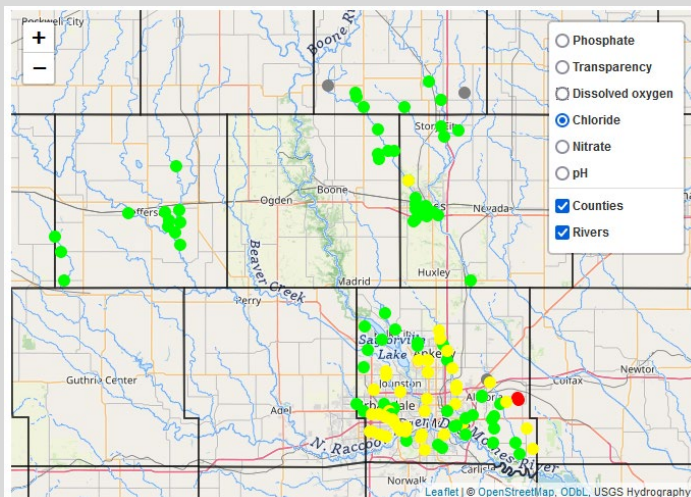
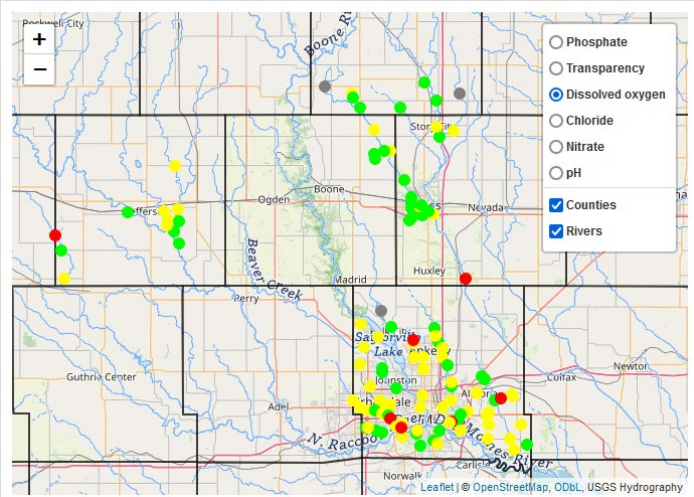
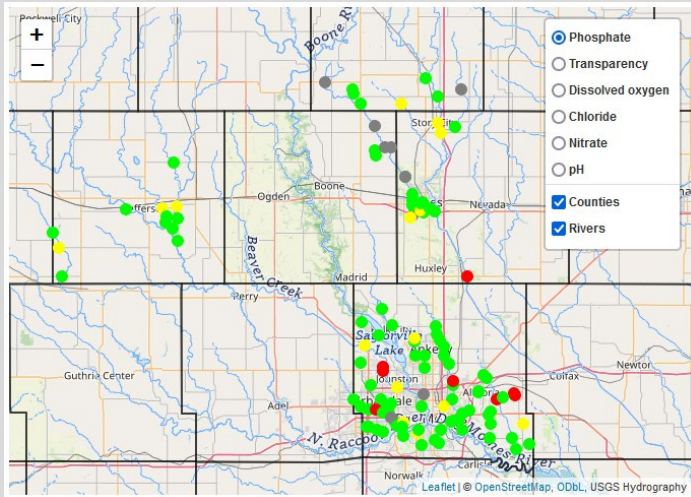




Regional Snapshot

Fall 2023

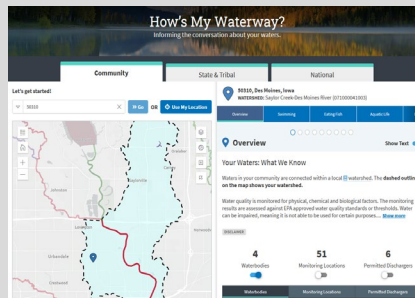
Regional Snapshot results courtesy of Prairie Rivers, Story County



More information

For additional information and summarized annual reports visit our website at polkcountyiowa.gov/conservation/water-quality/

All site records are available on the [EPA Water Quality Exchange \(WQX\) website](#) and on the EPA How's My Waterway website.



To become involved in our program, please contact Ginny Malcomson, Project Coordinator, to learn more.

Ginny Malcomson, Water Quality Coordinator
Ginny.Malcomson@PolkCountyIowa.gov

Polk County Conservation
11204 NE 118th Avenue
Maxwell, Iowa 50161
515-323-5319
www.leadingyououtdoors.org



Volunteers & Partners

Polk County Conservation Water Quality Monitoring Program



Spring Team Participants

Fall Team Participants

#1	City of Clive Public Works – Rai Tokuhisa	#1	City of Clive Public Works – Rai Tokuhisa
#2	Chris Widmer , Chandler and Jacob Flatness	#2	Steven Grund , Lowell DeVries
#3	Andy Curl, Dominic and Kathy Paterno, Jennifer Herker	#3	Joel Havick, Ryan Finestead, Joe Steffan, Hollie Guyer, Julie Medhus
#4	Jennifer Repp, Megan Down	#4	Greg Fay, Jim Hamilton
#5	Lori Danielson, Michelle Schmitt, Steven Grund , Susan Heathcote	#5	Abby Chungath , Elise Pohl
#6	Doug Williams, Greg Fay, Lowell DeVries, Rob Boyd	#6	Jeff Yanecek
#7	James Thayer, Julie Osweiler, Lou Shannon	#7	Susan Heathcote, Nikki Goodell
#8	Tim Gorde, Ashley Collinworth	#8	Megan Down, Jennifer Repp
#9	Andrew Majerus, Jeremy Herselius, Joel Havick	#9	Lou Shannon, Julie Osweiler
#10	Alexandria Houge, Amanda Shepard, Shaylinn Daniels, Alyssa Mounphoxay	#10	Ashley Collinworth, Tim Gorde
#11	Julie Letze, Ron Dunek	#11	Alyssa Bustillos, Robin Fortney
#12	Abby Chungath , Emma Carter	#12	Steve Falck with Valley High student
#13	Alyssa Bustillos, Dennis Schmitt, Moira Leu		Those in bold are PCCWQMP field monitors

Des Moines Water Works
 Izaak Walton League
 City of Altoona
 City of Ankeny
 City of Clive
 City of Johnston

City of Des Moines
 Des Moines Parks and Recreation
 City of West Des Moines
 West Des Moines Parks and Recreation
 Wells Fargo



Field Monitors

Polk County Conservation Water Quality Monitoring Program



Thank you to our regular PCC WQMP Field Monitors who participated in the Snapshot Events

*led teams of volunteers

Spring

* Abby Chungath

Allan Goldberg

City of Altoona - Karen Oppelt

City of Ankeny - Becky Ford, Carla Moore, Jared Bright

DMPR - Callie Leau Courtright

DMPR - Joel Van Roekel

DMPR - Ken Trytek

DMPR - Rachel E. Haindfield

DMPR - Shane Laycock

DMPR - Tad Thomas

Doug Johanson

* Moira Leu

PCC - Al Pasker

PCC - Amanda R. Brown

PCC - Dan Hrubes

PCC - Heidi Anderson

PCC - James Dotzler

PCC - Janean L. Struthers

PCC - Lael Neal

PCC - Lindsey Page

PCC - Missy Smith

PCC - Zachary Deutmeyer

Penny Thomsen

Rich and Jody Anderson

* Ron Dunek

Steve Falck

Steve Grund

Fall

* Abby Chungath

City of Altoona - Karen Oppelt

City of Ankeny - Carla Moore

City of Clive Public Works

City of West Des Moines - Jeff Behan

DMPR - Joel VanRoekel

DMPR - Ken Trytek

DMPR - Rachel Haindfield

DMPR - Tad Thomas

Jim Tredway

John Harri

Melanie Perry

Nikki Goodell

PCC - Al Pasker

PCC - Charlie Finch

PCC - Dan Hrubes

PCC - Heidi Anderson

PCC - James Dotzler

PCC - Lael Neal

PCC - Lewis Major

PCC - Michael French

PCC - Missy Smith

PCC - Zach Deutmeyer

* Rai Tokuhisa

Rich and Jody Anderson

* Steve Falck

* Steven Grund