

F.W. Kent Park Lake Water Testing Procedure

April 26, 2021

Weekly F.W. Kent Park Lake Watershed Testing under Normal Conditions beginning on Monday of each week we will be testing.

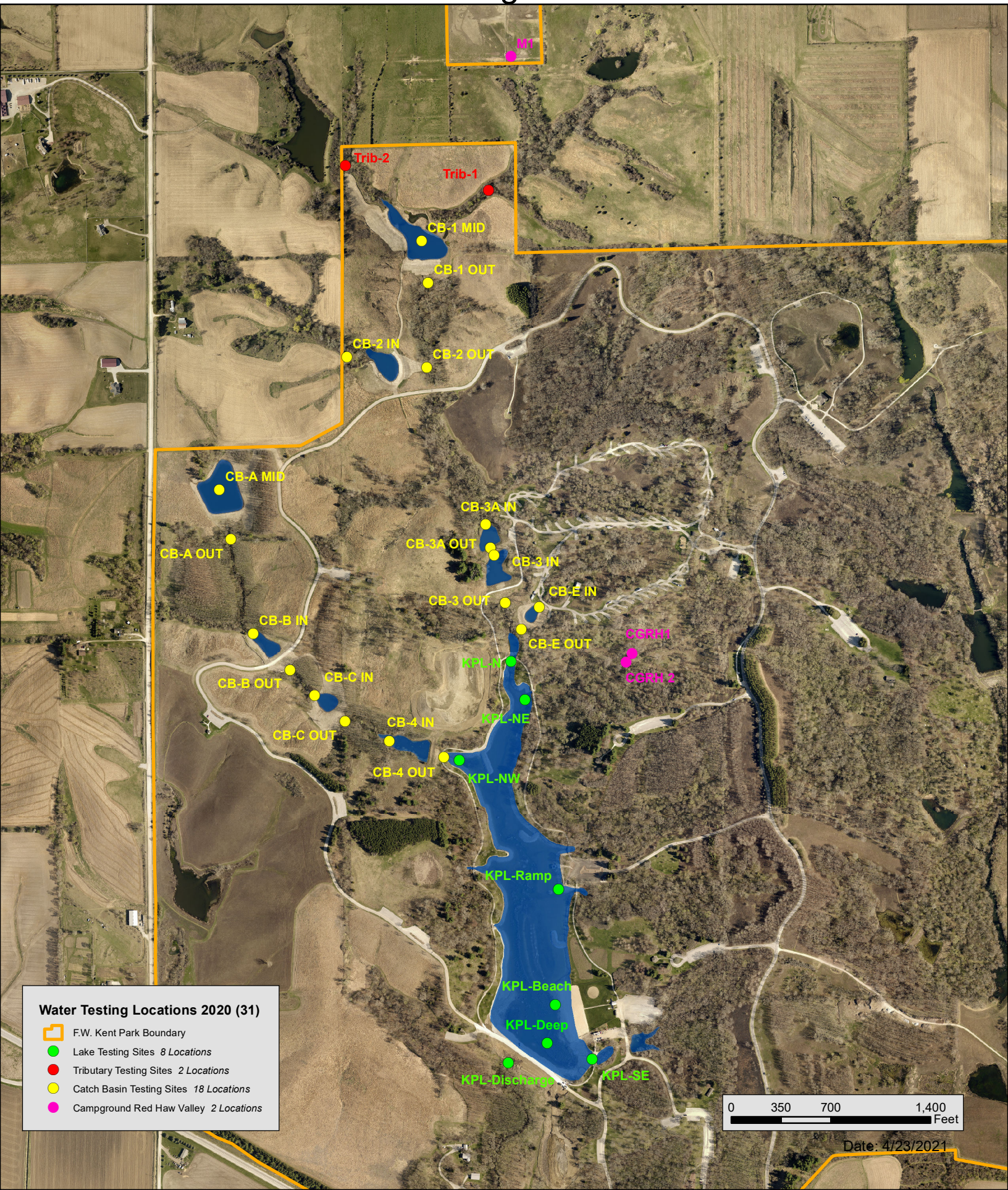
- **All normal parameters at 31 locations.**
- **E. coli bacteria at the following locations.**
 - **Trib-1**
 - **Trib-2**
 - **Outflow of CB-1**
 - **M-1**
 - **CGRH-1**
 - **CGRH-2**
 - **Beach: Once a week on Wednesday or Thursday.**

F.W. Kent Park Lake Watershed Testing after Rainfall Events

After a 1.25" Rainfall event or greater we will be conducting water testing at:

- **All normal parameters at 31 locations.**
- **E. coli bacteria at the following locations.**
 - **Trib-1**
 - **Trib-2**
 - **Outflow of CB-3**
 - **M-1**
 - **CGRH-1**
 - **CGRH-2**

F.W. Kent Park Water Testing Sites 2021



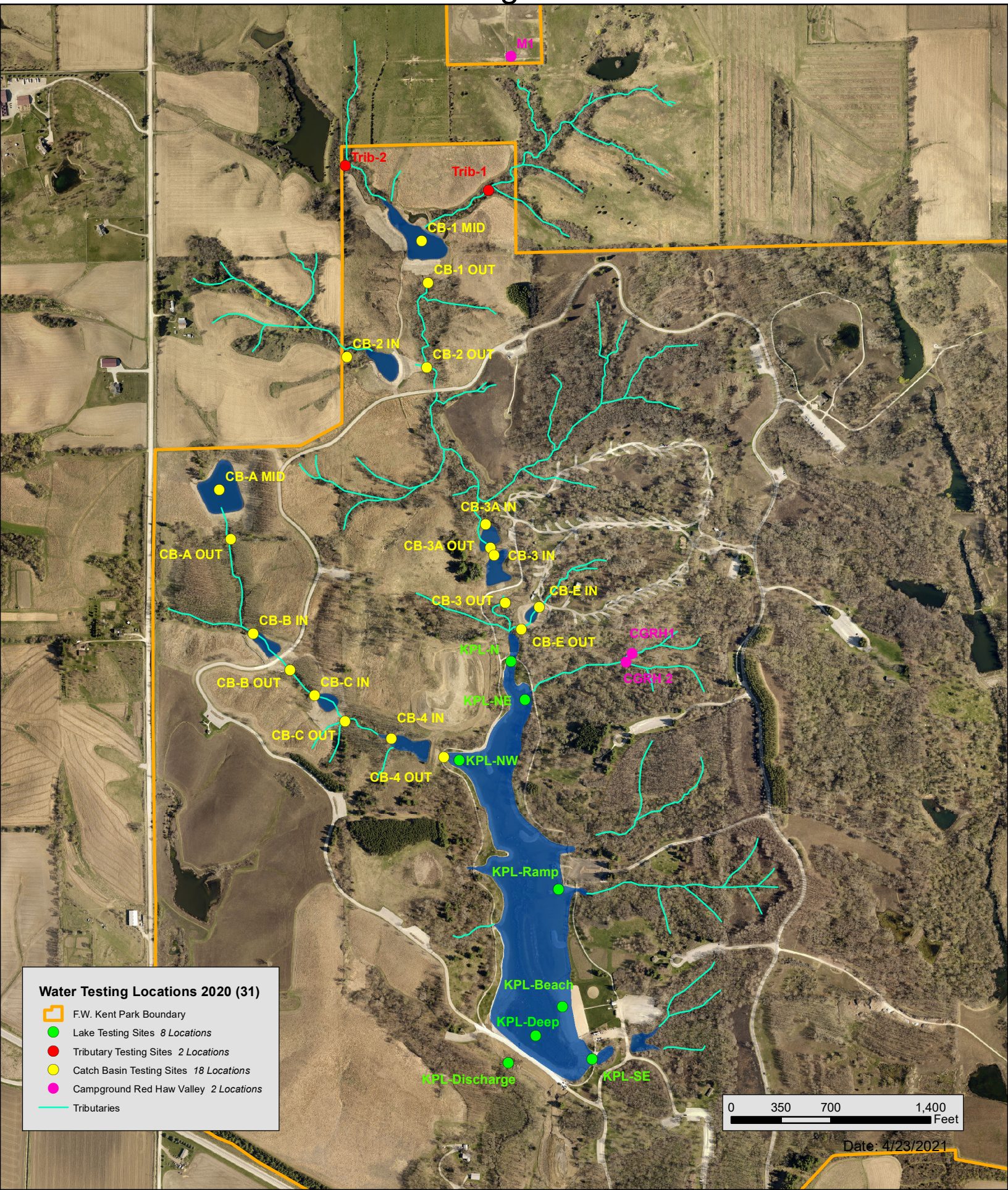
Water Testing Locations 2020 (31)

-  F.W. Kent Park Boundary
-  Lake Testing Sites 8 Locations
-  Tributary Testing Sites 2 Locations
-  Catch Basin Testing Sites 18 Locations
-  Campground Red Haw Valley 2 Locations

0 350 700 1,400
Feet

Date: 4/23/2021

F.W. Kent Park Water Testing Sites 2021



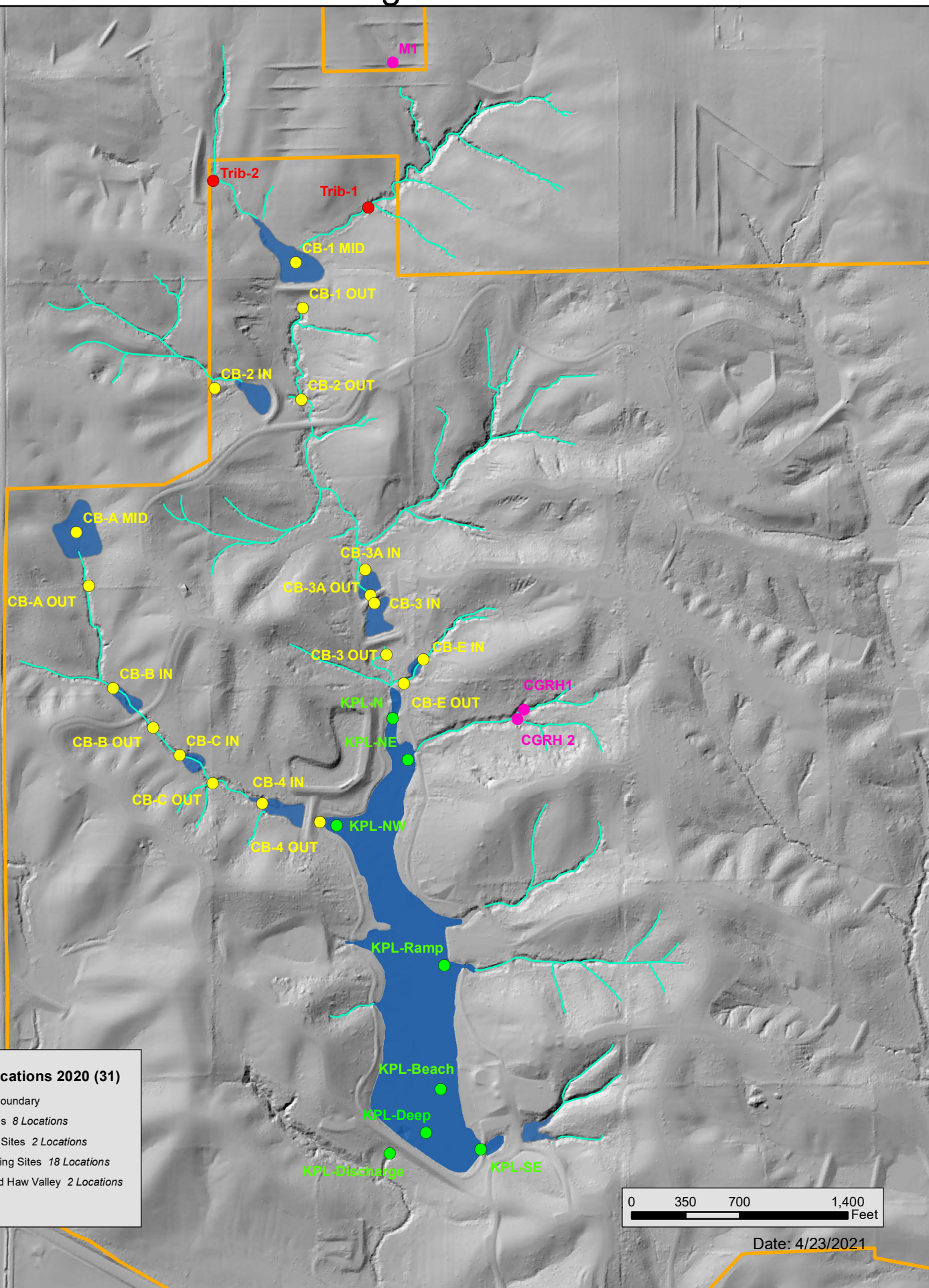
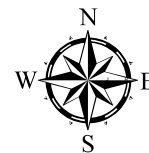
Water Testing Locations 2020 (31)

-  F.W. Kent Park Boundary
-  Lake Testing Sites 8 Locations
-  Tributary Testing Sites 2 Locations
-  Catch Basin Testing Sites 18 Locations
-  Campground Red Haw Valley 2 Locations
-  Tributaries

0 350 700 1,400
Feet

Date: 4/23/2021

F.W. Kent Park Water Testing Sites 2021



Water Testing Locations 2020 (31)

- F.W. Kent Park Boundary
- Lake Testing Sites 8 Locations
- Tributary Testing Sites 2 Locations
- Catch Basin Testing Sites 18 Locations
- Campground Red Haw Valley 2 Locations
- Tributaries

0 350 700 1,400
Feet

Date: 4/23/2021

F.W. Kent Park Lake Water Quality Results				Proposed State Standards											
				> 5 mg/L	> 1M	6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L					
8/31/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Secchi (M)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Air Temp (°F)
KPL-N	8:50 AM	27.1	80.8	5.51	1.50	8.19	0.0	0.0	0.12	120	0.1	0.0	Cloudy	5-10 ENE	70
KPL-NE	9:01 AM	27.3	81.1	8.83	1.70	9.09	0.0	0.0	0.09	90	0.1	0.0	Cloudy	5-10 ENE	70
KPL-NW	9:20 AM	27.4	81.3	8.21	1.50	9.06	0.0	0.0	0.08	80	0.2	0.0	Cloudy	5-10 ENE	70
KPL-Ramp	10:24 AM	27.4	81.3	8.53	1.00	9.13	0.0	0.0	0.09	90	0.2	0.0	Cloudy	5-10 ENE	70
KPL- Beach	10:06 AM	27.4	81.3	9.85	1.55	9.20	0.0	0.0	0.09	90	0.1	0.0	Cloudy	5-10 ENE	70
KPL- SE	9:56 AM	27.5	81.5	7.55	2.00	9.18	0.0	0.0	0.05	50	0.2	0.0	Cloudy	5-10 ENE	70
KPL-Deep	9:42 AM	27.5	81.5	8.32	1.55	9.12	0.0	0.0	0.08	80	0.2	0.0	Cloudy	5-10 ENE	70
KPL-Discharge	No Flowing Water For Sampling											0.0	Cloudy	5-10 ENE	70

Main Stem Drainage Water Quality Results				Proposed State Standards											
				> 5 mg/L		6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L					
9/1/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube (cm)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Air Temp (°F)
M-1	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
Trib 1	9:37 AM	20.8	69.4	5.60	31	7.58	2.0	0.0	1.08	1080	0.3	0.2	Sunny	10-15 ENE	70
Trib 2	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-1 MID	11:00 AM	27.4	81.3	4.36	>62	8.92	0.0	0.0	0.19	190	0.1	0.2	Sunny	10-15 ENE	70
CB-1 OUT	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-2 IN	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-2 OUT	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-3A IN	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-3A OUT	12:35 PM	27.6	81.7	5.11	>62	8.73	0.0	0.0	0.14	140	0.1	0.2	Sunny	10-15 ENE	70
CB-3 IN	12:50 PM	26.8	80.2	5.59	>62	8.66	0.0	0.0	0.15	150	0.1	0.2	Sunny	10-15 ENE	70
CB-3 OUT	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70
CB-E IN	1:06 PM	27.0	80.6	4.83	>62	7.86	0.0	0.0	0.14	140	0.1	0.2	Sunny	10-15 ENE	70
CB-E OUT	No Flowing Water For Sampling											0.2	Sunny	10-15 ENE	70

Northwest Drainage Water Quality Results				Proposed State Standards											
				> 5 mg/L		6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L					
9/1/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube (cm)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Air Temp (°F)
CB-A MID	1:47 PM	28.3	82.9	5.56	>62	8.68	0.0	0.0	0.09	90	0.1	0.2	Partly Cloudy	5-10 ENE	78
CB-A OUT	No Flowing Water For Sampling											0.2	Partly Cloudy	5-10 ENE	78
CB-B IN	2:05 PM	27.6	81.7	4.08	>62	7.72	0.0	0.0	0.22	220	0.0	0.2	Partly Cloudy	5-10 ENE	78
CB-B OUT	2:19 PM	23.2	73.8	4.29	38	7.32	0.0	0.0	0.80	800	0.6	0.2	Partly Cloudy	5-10 ENE	78
CB-C IN	2:33 PM	27.4	81.3	4.12	>62	7.69	0.0	0.0	0.26	260	0.1	0.2	Partly Cloudy	5-10 ENE	78
CB-C OUT	No Flowing Water For Sampling											0.2	Partly Cloudy	5-10 ENE	78
CB-4 IN	2:55 PM	29.7	85.5	5.88	>62	8.51	0.0	0.0	0.22	220	0.1	0.2	Partly Cloudy	5-10 ENE	78
CB-4 OUT	1:24 PM	22.2	72.0	4.45	>62	7.46	0.0	0.0	0.26	260	0.4	0.2	Partly Cloudy	5-10 ENE	78

Campground - Red Haw Valley Water Quality Results				Proposed State Standards											
				> 5 mg/L		6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L					
8/31/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube (cm)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Air Temp (°F)
CGRH1	11:30 AM	20.1	68.2	6.41	23	7.95	0.0	0.0	0.89	890	0.2	0.0	Cloudy	5-10 ENE	73
CGRH2	No Flowing Water For Sampling											0.0	Cloudy	5-10 ENE	73

Collection Location beach	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1825811
	Collected 2021-09-01 08:00	Received 2021-09-01 11:04	Project
Report To	LARRY GULLETT/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	<10.	10	

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-09-01 15:10 MMK, KFO	3200	2021-09-02 10:10 MMK	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location cgrh1	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1825812
	Collected 2021-09-01 09:14	Received 2021-09-01 11:04	Project
Report To	LARRY GULLETT/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	4100	10	

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-09-01 15:10 MMK, KFO	3200	2021-09-02 10:10 MMK	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.

Collection Location trib 1 OXFORD,	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1825813
	Collected 2021-09-01 09:52	Received 2021-09-01 11:04	Project
Report To	LARRY GULLETT/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	2200	10	

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-09-01 15:10 MMK, KFO	3200	2021-09-02 10:10 MMK	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.