

This report was prepared by the Kentucky Water Research Institute as a product of the statewide Kentucky Watershed Management process. Information presented in this report was collected from many sources. Reasonable attempts were made to ensure that information and figures are as accurate as possible, but no representation or guarantee is made as to either the correctness or suitability of information for particular purposes. All critical information should be independently verified. Please address questions or corrections to Basin Coordinator, KWRI, Rm. 233 Mining and Minerals Resources Building, University of Kentucky, Lexington, Kentucky 40506-0107.

Summary of Basin Characteristics and Facilities

General Land-use Characteristics:

Total Land Area (Acres):	114,702	Acres	% of Total		
Residential Area:	10,959		9.6	Number of Mine Permits:	0
Commercial Area:	7,981		7.0	Total Permitted Mining Area (Acres):	0
Industrial Area:	1,610		1.4	Number of Identified Wetland Areas:	56
Agricultural Area:	93,358		81.4	Total Wetland Area (Acres):	86
Rural and Wooded Area:	136		0.1		
Other Land-use Area:	633		0.6		

Withdrawal and Discharge Sites:

Number of Public Water Supplies and Water Withdrawal Sites:	6	Number of KPDES Discharge Permits:	38
Surface Water Withdrawals:	4		
Groundwater Withdrawals:	2		
No. of Potable Water Treatment Facilities:	0		

Sampling Site Statistics:

Number of USGS Gaging Stations:	0
Number of Kentucky Division of Water Sampling Sites:	3
Number of Kentucky Dept. of Fish and Wildlife Sampling Sites:	0
Number of US Forest Service Sampling Sites:	0
Number of US Army Corps of Engineers Sampling Sites:	0
Number of Kentucky River Watershed Watch Sampling Sites:	17
Number of Lexington-Fayette Urban Co. Gov. Sampling Sites:	2

Watershed Indicators and Ranking Categories:

Overall Watershed Ranking:

Protection Ranking	Observed Impacts	Potential Impacts	Restoration Ranking
High	High	High	High

High

Protection Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Wetland Areas	86	Acres	0 - 106	12
Surface Drinking Water Sources	4	No. of sources	0 - 14	2
Ground Drinking Water Sources	2	No. of sources	0 - 17	1
Groundwater Sensitivity	4.82	Score	2 - 5	3.21
KY Dept. of Fish and Wildlife Management Areas	0	Acres	0 - 2951	93
U.S. Forest Service Management Areas	0	Acres	0 - 155253	12,600
Kentucky State Park Areas	11	Acres	0 - 1928	42
Nature Preserves Commission Areas	0	Acres	0 - 1430	32
Nature Conservancy Areas	0	Acres	0 - 2473	28
Reference Reach Watersheds	0.00	Score	0 - 100	3.08
Outstanding Resource Watersheds	0.00	Score	0 - 0	0.00
Recognized Stream Resources	1	No. of resources	0 - 8	1
Kentucky Rivers Assessment Scores	1.88	Score	0 - 11	1.80

Observed Impact Categories:

Human Health Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Flood Declarations	2	Number since 1970	0 - 10	4
Water Supply Inadequacy	0.00	Score	0 - 2	0.22
Observed Impacts to Surface Drinking Water	1.00	Score	1 - 1	1.00
Observed Impacts to Fish Consumption	1.00	Score	1 - 1	1.00
Observed Impacts to Primary Water Contact	1.93	Score	1 - 3	1.33
Contamination Sites Impacting Human Health	48	Number of sites	0 - 71	4

Ecological Health Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Observed Impacts to Aquatic Life	1.50	Score	1 - 3	1.31
Contamination Sites Impacting Ecological Health	48	Number of sites	0 - 71	4

Potential Impact Categories:

Indicator	Value	Units	Range of All Watersheds	Mean of All Watersheds
Potential Contamination Sites	82	Number of sites	1 - 121	12
Potential Pesticide Loading	30	Est. sales in tons	0 - 45	10
Potential Fertilizer Loading	2,113	Est. tons applied	0 - 2747	394
Agricultural Erosion Potential	1.76	Est. tons erosion / acre	0 - 9	3.20
Livestock Operations Potential Impact	30,146	Animal units	55 - 43826	7,021
KPDES Discharge Violations	260	Number of violations	0 - 541	39
KY Division of Water Citizen Complaints	42	Number of complaints	0 - 53	9
Toxic Release Inventory	2,625	Score	0 - 11547626	231,638
Population Change Projection	3,762	Number of persons	-149 - 11030	448
Population Not on Public Sewer Systems	3,587	Number of persons	12 - 4511	1,114
Mining Area	0	Acres	0 - 6305	355
Surface Water Runoff Potential	69.17	SCS Curve Number	60 - 79	68
KPDES Permitted Discharges	38	Number of sites	0 - 56	6

Stream and Waterbody Use Support Summary

Total Stream Miles: 122.29	<i>Number of Segments</i>	<i>Stream Miles Assessed</i>	<i>Miles * Fully Supportina</i>	<i>Miles * Partially Supportina</i>	<i>Miles * Not Supportina</i>	<i>Miles * Threatened</i>
Segments Assessed:	10	67.7	42.1	2.2	23.4	0.0
Designated Uses						
Aquatic Life:	9	66.7	42.1	15.6	9.0	0.0
Primary Contact:	7	49.0	25.8	1.0	22.2	0.0
Fish Consumption:	1	16.3	16.3	0.0	0.0	0.0
Drinking Water:						

* Blank values indicate no assessed segments for this category.

Assessed Stream Segments and Waterbodies					
<i>Stream or Waterbody Name *</i>	<i>Starting Milepoint</i>	<i>Ending Milepoint</i>	<i>Segment Length (miles)</i>	<i>Designated Uses *</i>	<i>Overall Level of Support</i>
Cane Run	9.6	17.4	7.8	AL, PC	Not Supporting
Lee Branch	0	1	1	PC	Partially Supporting
South Elkhorn Creek	39.9	48	8.1	AL, PC	Fully Supporting
South Elkhorn Creek	34	35.2	1.2	AL	Not Supporting
South Elkhorn Creek	16.3	34	17.7	AL, PC	Fully Supporting
South Elkhorn Creek	0	16.3	16.3	AL, FC	Fully Supporting
Town Branch	10.3	11.5	1.2	AL	Partially Supporting
Town Branch	8.8	10.3	1.5	PC, AL	Not Supporting
Town Branch	0	8.8	8.8	PC, AL	Not Supporting
Wolf Run	0	4.1	4.1	PC, AL	Not Supporting

**Abbreviations: AL - Aquatic Life Support, PC - Primary Contact Recreation, SC - Secondary Contact Recreation, FC - Fish Consumption, DW - Drinking Water Supply, UT - Unnamed Tributary*

Causes for Nonsupport or Impairment of Designated Uses					
<i>Stream or Waterbody Name *</i>	<i>Starting Milepoint</i>	<i>Ending Milepoint</i>	<i>Segment Length (miles)</i>	<i>Impaired or Threatened Designated Use</i>	<i>Level of Support</i>
Cane Run	9.6	17.4	7.8	Primary Contact (Recr)	Not Supporting
Cane Run	9.6	17.4	7.8	Aquatic Life Support	Not Supporting
<i>Possible Causes of Impairment:</i> Organic enrichment/Low DO, Pathogens			<i>Possible Sources For Impairment:</i> Agriculture, Grazing related Sources, Urban Runoff/Storm Sewers		
Lee Branch	0	1	1	Primary Contact (Recr)	Partially Supporting
<i>Possible Causes of Impairment:</i> Pathogens			<i>Possible Sources For Impairment:</i> Minor Municipal Point Source, Municipal Point Sources		
South Elkhorn Creek	34	35.2	1.2	Aquatic Life Support	Not Supporting

Watershed Name: South Elkhorn Creek

11-Digit Watershed Identity Number: 05100205270

<i>Possible Causes of Impairment:</i> Siltation		<i>Possible Sources For Impairment:</i> Habitat Modification (other than Hydromodification), Hydromodification			
Town Branch	0	8.8	8.8	Primary Contact (Recr)	Not Supporting
Town Branch	0	8.8	8.8	Aquatic Life Support	Partially Supporting
<i>Possible Causes of Impairment:</i> Nutrients, Pathogens		<i>Possible Sources For Impairment:</i> Agriculture, Major Municipal Point Source, Municipal Point Sources, Urban Runoff/Storm Sewers			
Town Branch	8.8	10.3	1.5	Primary Contact (Recr)	Not Supporting
Town Branch	8.8	10.3	1.5	Aquatic Life Support	Partially Supporting
<i>Possible Causes of Impairment:</i> Pathogens		<i>Possible Sources For Impairment:</i> Major Municipal Point Source, Municipal Point Sources, Urban Runoff/Storm Sewers			
Town Branch	10.3	11.5	1.2	Aquatic Life Support	Partially Supporting
<i>Possible Causes of Impairment:</i> Flow alteration		<i>Possible Sources For Impairment:</i> Urban Runoff/Storm Sewers			
Wolf Run	0	4.1	4.1	Primary Contact (Recr)	Not Supporting
Wolf Run	0	4.1	4.1	Aquatic Life Support	Partially Supporting
<i>Possible Causes of Impairment:</i> Nutrients, Other habitat alterations, Pathogens		<i>Possible Sources For Impairment:</i> Channelization, Hydromodification, Urban Runoff/Storm Sewers			
<i>*Abbreviations: UT - Unnamed Tributary</i>					

Applicable Total Maximum Daily Load (TMDL) Reports:	
<i>Stream or Waterbody</i>	<i>TMDL Report Status</i>
Town Branch	High priority - preliminary draft complete
Wolf Run	Data collection in progress

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Withdrawal Sites and Discharge Facilities:

<i>Public Water Supplies and Water Withdrawal</i>			
<i>Facility</i>	<i>Origin of Source</i>	<i>Type of Facility</i>	<i>Permit ID Number</i>
CAMPBELL HOUSE COUNTRY CLUB	Groundwater	Water Withdrawal Site	WW1102
FRANKFORT COUNTRY CLUB	Surface Water	Water Withdrawal Site	WW1172
LINKS AT DUCKERS LAKE, LTD. (THE)	Surface Water	Water Withdrawal Site	WW1324
PLAYERS CLUB OF LEXINGTON	Surface Water	Water Withdrawal Site	WW1325
PLAYERS CLUB OF LEXINGTON	Surface Water	Water Withdrawal Site	WW1326
SPRING VALLEY GOLF CLUB	Groundwater	Water Withdrawal Site	WW1128

<i>KPDES Permitted Discharge Facilities</i>			<i>KPDES Site ID Number</i>
<i>Facility</i>	<i>Type of Facility</i>		
AIRPORT FOOD MART	GROCERY STORES	KY0083062	
BLACKBURN CORRECTIONAL COMPLEX	CORRECTIONAL INSTITUTIONS	KY0074586	
BRANDEIS INC	CONST & MINING MACHINE & EQUIP	KY0101702	
CHEVRON USA LEXINGTON TERMINAL	PETROLEUM BULK STATIONS & TERM	KY0058009	
CHEVRON USA RETAIL FACILITY	GASOLINE SERVICE STATIONS	KY0097039	
FANSTEEL VR / WESSON	2NDARY SMELT/NONFERROUS METALS	KY0099465	
FEDERAL MEDICAL CENTER	CORRECTIONAL INSTITUTIONS	KY0020141	
FRANKFORT PLASTICS	PLASTICS PRODUCTS, NEC	KY0097497	
FT JAMES OPERATING CO	SANITARY FOOD CONTAINERS	KY0002623	
HILLENMEYER NURSERIES		KY0101427	
KDMA NATIONAL GUARD ARMORY LEX	NATIONAL SECURITY	KY0072851	
KTC FAYETTE CO MAINT GARAGE	BUS TERMINAL & SERVICE FACILIT	KY0099155	
KTC WOODFORD CO MAINT LOT	BUS TERMINAL & SERVICE FACILIT	KYG500058	
LEXINGTON TOWN BRANCH STP	SEWERAGE SYSTEMS	KY0021491	
MARATHON ASHLAND PETROLEUM LLC	PETROLEUM BULK STATIONS & TERM	KY0022080	
MIDWAY STP	SEWERAGE SYSTEMS	KY0028410	
OSCAR HORNSBY INC	PETROLEUM BULK STATIONS & TERM	KY0042951	
THE TRANE CO	REFRIGERATION & HEATING EQUIP	KY0074420	
VAUGHAN TOBACCO CO INC	TOBACCO STEMMING AND REDRYING	KY0096008	
VULCAN MATERIALS CO		KY0001805	
VULCAN MATERIALS CO	CRUSHED AND BROKEN LIMESTONE	KYG840195	
W T CONGLETON CO INC	READY-MIXED CONCRETE	KY0087807	

Gaging Stations and Sampling Sites:

<i>US Geological Survey and US Army Corps of Engineers Stream Gaging Stations</i>			
<i>Stream Location</i>	<i>Agency</i>	<i>Station ID Number</i>	<i>Sampling Parameter</i>
South Elkhorn Creek	USGS	USGS03289410	Flow
South Elkhorn Creek	USGS	USGS03289000	Flow
Cave Creek	USGS	USGS03288500	Flow

<i>KY Division of Water Sampling Sites</i>	
<i>Stream Name</i>	<i>Type of Sampling</i>
South Elkhorn Creek	Biological Monitoring

Watershed Name: South Elkhorn Creek

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South Fork Elkhorn	Other Monitoring
South Elkhorn Creek	Physical/Chemical Monitoring

<i>Lexington-Fayette Urban County Government Sampling Sites</i>	
<i>Stream Segment</i>	<i>LFUCG Site ID</i>
Town Branch	Town Branch
Wolf Run	Wolf Run

<i>KY River Watershed Watch Sampling Sites</i>		
<i>Stream Name</i>	<i>KRWW Sample ID No.</i>	<i>Site Description</i>
Beals Run	K32	Just below US 421
Graddy Springs	K96	Spring on Greenwood Farm, Steele Rd.
Lee's Branch	K02	150yds downstream of Stephens St.
Lee's Branch	K01	100yds North of US 421 bridge
McConnell Springs	K54	McConnell Spring, Fayette Co.
South Elkhorn	K24	Upstream of US 60 near Airport
South Elkhorn	K25	Below Dam near Confl of Town Branch
South Elkhorn	K26	0.5mi upstrm of SR 341
South Elkhorn	K33	210 Ironworks Estate Subdivision UT
South Elkhorn	K84	Tributary A of South Elkhorn Creek
South Elkhorn Creek	K31	Just Upstream of SR 1685 Bridge
South Fork Elkhorn	K71	US 68 Harrodsburg Rd. Bridge
Spring Stn	K57	At spring
Steele's Branch	K72	Redd Rd. Bridge off Old Frankfort Pk
Town Branch	K55	Jimmy Campbell Lane Bridge
Town Branch	K75	Yarnellton Rd. Bridge
Wolfe Run	K34	At Valley Park off Cambridge Dr.

Results from 1999 KY River Watershed Watch Sampling:

Conventional Parameters:

Sample ID Number: K01 Stream: Lee's Branch

Physical Data (May):

pH		Alkalinity	107
Temperature		Total Hardness	286
Dissolved Oxygen		Chlorides	87.3
		Conductivity	1094
		Total Organic Carbon	16.2
		Total Suspended Solids	

Fecal Data (July / August):

	Coliform Count	Strep Count	Coliform/Strep Ratio
July	60	340	0.18
August			

Sample ID Number: K02 Stream: Lee's Branch

Physical Data (May):

pH	5.5	Alkalinity	210
Temperature	19	Total Hardness	240
Dissolved Oxygen	10	Chlorides	8.7
		Conductivity	442
		Total Organic Carbon	4.3
		Total Suspended Solids	15

Fecal Data (July / August):

	Coliform Count	Strep Count	Coliform/Strep Ratio
July	180	4600	0.039
August			

Sample ID Number: K24 Stream: South Elkhorn Creek

Physical Data (May):

pH	7.9	Alkalinity	
Temperature	0	Total Hardness	
Dissolved Oxygen	8.8	Chlorides	
		Conductivity	
		Total Organic Carbon	
		Total Suspended Solids	

Fecal Data (July / August):

	Coliform Count	Strep Count	Coliform/Strep Ratio
July			
August			

Sample ID Number: K25 Stream: South Elkhorn Creek

Physical Data (May):

pH	7.7	Alkalinity	99
Temperature	0	Total Hardness	290
Dissolved Oxygen	6.4	Chlorides	107
		Conductivity	1011
		Total Organic Carbon	5.3
		Total Suspended Solids	

Fecal Data (July / August):

	Coliform Count	Strep Count	Coliform/Strep Ratio
July	150	300	0.5
August			

Sample ID Number: K26 Stream: South Elkhorn Creek

Physical Data (May):

pH	0	Alkalinity	97
Temperature	0	Total Hardness	298
Dissolved Oxygen	0	Chlorides	118
		Conductivity	1106
		Total Organic Carbon	5.1
		Total Suspended Solids	4

Fecal Data (July / August):

	Coliform Count	Strep Count	Coliform/Strep Ratio
July	60	800	0.0075
August			

Sample ID Number: K31 Stream: South Elkhorn Creek																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Physical Data (May):</th> </tr> </thead> <tbody> <tr> <td style="width: 30%;">pH</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Temperature</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Dissolved Oxygen</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	Physical Data (May):		pH	0	Temperature	0	Dissolved Oxygen	0	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Fecal Data (July / August):</th> </tr> <tr> <th>Coliform Count</th> <th>Strep Count</th> <th>Coliform/Strep Ratio</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">1200</td> <td style="text-align: center;">0.023</td> </tr> <tr> <td style="text-align: center;">July</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">August</td> <td></td> <td></td> </tr> </tbody> </table>	Fecal Data (July / August):		Coliform Count	Strep Count	Coliform/Strep Ratio	30	1200	0.023	July			August		
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July																							
August																							

Sample ID Number: K57		Stream: Spring Station	
Physical Data (May):			
pH	8	Alkalinity	223
Temperature	15	Total Hardness	276
Dissolved Oxygen	8.1	Chlorides	15.5
		Conductivity	528
		Total Organic Carbon	0.7
		Total Suspended Solids	6
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	300	<0.33	
August			
Sample ID Number: K71		Stream: South Elkhorn Creek	
Physical Data (May):			
pH	7.7	Alkalinity	214
Temperature	15.6	Total Hardness	362
Dissolved Oxygen	6.68	Chlorides	33.5
		Conductivity	756
		Total Organic Carbon	3.8
		Total Suspended Solids	
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	300	<0.033	
August			
Sample ID Number: K72		Stream: Steele's Branch	
Physical Data (May):			
pH	7.5	Alkalinity	170
Temperature	13.8	Total Hardness	238
Dissolved Oxygen	6.76	Chlorides	25.9
		Conductivity	516
		Total Organic Carbon	3.8
		Total Suspended Solids	
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	2900	0.21	
August	1000	0.5	
Sample ID Number: K75		Stream: Town Branch	
Physical Data (May):			
pH	7.5	Alkalinity	69
Temperature	16.8	Total Hardness	290
Dissolved Oxygen	4.79	Chlorides	114
		Conductivity	1123
		Total Organic Carbon	5.2
		Total Suspended Solids	
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	360	0.31	
August			
Sample ID Number: K84		Stream: South Elkhorn Creek	
Physical Data (May):			
pH	8.2	Alkalinity	220
Temperature	21.1	Total Hardness	258
Dissolved Oxygen	8	Chlorides	16.1
		Conductivity	489
		Total Organic Carbon	3.8
		Total Suspended Solids	10
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	14000	0.44	
August	3200	0.062	
Sample ID Number: K96		Stream: Graddy Springs	
Physical Data (May):			
pH	0	Alkalinity	253
Temperature	0	Total Hardness	278
Dissolved Oxygen	0	Chlorides	3.8
		Conductivity	518
		Total Organic Carbon	0.7
		Total Suspended Solids	
Fecal Data (July / August):			
Coliform Count	Strep Count	Coliform/Strep Ratio	
July	240	0.042	
August			

Watershed Name: South Elkhorn Creek

11-Digit Watershed Identity Number: 05100205270

Note: Most indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm). Temperature is in Celsius degrees. Alkalinity and hardness are as mg/L of calcium carbonate. Bacterial counts are in colonies per 100 milliliters. Conductivity units are micro-mhos per centimeter.

Nutrient Parameters:

Sample ID Number: K01 Stream: Lee's Branch

Ammonia	18.71	Orthophosphate as Phosphate	10.045	Sulfate	294
Ammonia Nitrogen	15.39	Orthophosphate as Phosphorus	3.276		
Total Kjeldahl Nitrogen as NH3	18.80	Total Recoverable Phosphorus	5.72		
Total Kjeldahl Nitrogen as N	15.46				
Nitrate	0.5				
Nitrate Nitrogen	0.11				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K02 Stream: Lee's Branch

Ammonia		Orthophosphate as Phosphate	0.542	Sulfate	20.4
Ammonia Nitrogen		Orthophosphate as Phosphorus	0.177		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.29		
Total Kjeldahl Nitrogen as N					
Nitrate	3.0				
Nitrate Nitrogen	0.68				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K24 Stream: South Elkhorn Creek

Ammonia		Orthophosphate as Phosphate		Sulfate	
Ammonia Nitrogen		Orthophosphate as Phosphorus			
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus			
Total Kjeldahl Nitrogen as N					
Nitrate					
Nitrate Nitrogen					

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K25 Stream: South Elkhorn Creek

Ammonia	0.05	Orthophosphate as Phosphate	3.850	Sulfate	185
Ammonia Nitrogen	0.04	Orthophosphate as Phosphorus	1.256		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	1.21		
Total Kjeldahl Nitrogen as N					
Nitrate	50.5				
Nitrate Nitrogen	11.41				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K26 Stream: South Elkhorn Creek

Ammonia		Orthophosphate as Phosphate	2.174	Sulfate	202
Ammonia Nitrogen		Orthophosphate as Phosphorus	0.709		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.93		
Total Kjeldahl Nitrogen as N					
Nitrate	59.7				
Nitrate Nitrogen	13.49				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K31 **Stream:** South Elkhorn Creek

Ammonia	<input type="text"/>	Orthophosphate as Phosphate	<input type="text" value="2.071"/>	Sulfate	<input type="text" value="198"/>
Ammonia Nitrogen	<input type="text"/>	Orthophosphate as Phosphorus	<input type="text" value="0.675"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text"/>	Total Recoverable Phosphorus	<input type="text" value="0.63"/>		
Total Kjeldahl Nitrogen as N	<input type="text"/>				
Nitrate	<input type="text" value="54.7"/>				
Nitrate Nitrogen	<input type="text" value="12.4"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K32 **Stream:** Beals Run

Ammonia	<input type="text"/>	Orthophosphate as Phosphate	<input type="text"/>	Sulfate	<input type="text"/>
Ammonia Nitrogen	<input type="text"/>	Orthophosphate as Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text"/>	Total Recoverable Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as N	<input type="text"/>				
Nitrate	<input type="text"/>				
Nitrate Nitrogen	<input type="text"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K33 **Stream:** South Elkhorn Creek

Ammonia	<input type="text"/>	Orthophosphate as Phosphate	<input type="text"/>	Sulfate	<input type="text"/>
Ammonia Nitrogen	<input type="text"/>	Orthophosphate as Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text"/>	Total Recoverable Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as N	<input type="text"/>				
Nitrate	<input type="text"/>				
Nitrate Nitrogen	<input type="text"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K34 **Stream:** Wolfe Run

Ammonia	<input type="text"/>	Orthophosphate as Phosphate	<input type="text"/>	Sulfate	<input type="text"/>
Ammonia Nitrogen	<input type="text"/>	Orthophosphate as Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text"/>	Total Recoverable Phosphorus	<input type="text"/>		
Total Kjeldahl Nitrogen as N	<input type="text"/>				
Nitrate	<input type="text"/>				
Nitrate Nitrogen	<input type="text"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K54 **Stream:** McConnell Springs

Ammonia	<input type="text" value="0.10"/>	Orthophosphate as Phosphate	<input type="text" value="1.007"/>	Sulfate	<input type="text" value="80.0"/>
Ammonia Nitrogen	<input type="text" value="0.08"/>	Orthophosphate as Phosphorus	<input type="text" value="0.328"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text"/>	Total Recoverable Phosphorus	<input type="text" value="0.32"/>		
Total Kjeldahl Nitrogen as N	<input type="text"/>				
Nitrate	<input type="text" value="7.3"/>				
Nitrate Nitrogen	<input type="text" value="1.65"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K55 **Stream:** Town Branch

Ammonia	<input type="text" value="0.83"/>	Orthophosphate as Phosphate	<input type="text" value="0.815"/>	Sulfate	<input type="text" value="52.1"/>
Ammonia Nitrogen	<input type="text" value="0.68"/>	Orthophosphate as Phosphorus	<input type="text" value="0.266"/>		
Total Kjeldahl Nitrogen as NH3	<input type="text" value="0.94"/>	Total Recoverable Phosphorus	<input type="text" value="0.36"/>		
Total Kjeldahl Nitrogen as N	<input type="text" value="0.77"/>				
Nitrate	<input type="text" value="8.5"/>				
Nitrate Nitrogen	<input type="text" value="1.92"/>				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K57 **Stream:** Spring Station

Ammonia		Orthophosphate as Phosphate	0.965	Sulfate	22.6
Ammonia Nitrogen		Orthophosphate as Phosphorus	0.315		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.35		
Total Kjeldahl Nitrogen as N					
Nitrate	19.6				
Nitrate Nitrogen	4.43				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K71 **Stream:** South Elkhorn Creek

Ammonia	0.06	Orthophosphate as Phosphate	0.736	Sulfate	143
Ammonia Nitrogen	0.05	Orthophosphate as Phosphorus	0.240		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.30		
Total Kjeldahl Nitrogen as N					
Nitrate	2.3				
Nitrate Nitrogen	0.52				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K72 **Stream:** Steele's Branch

Ammonia		Orthophosphate as Phosphate	0.774	Sulfate	72.6
Ammonia Nitrogen		Orthophosphate as Phosphorus	0.252		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.25		
Total Kjeldahl Nitrogen as N					
Nitrate	0.1				
Nitrate Nitrogen	0.02				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K75 **Stream:** Town Branch

Ammonia	0.02	Orthophosphate as Phosphate	6.060	Sulfate	200
Ammonia Nitrogen	0.02	Orthophosphate as Phosphorus	1.976		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	1.49		
Total Kjeldahl Nitrogen as N					
Nitrate	73.8				
Nitrate Nitrogen	16.68				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K84 **Stream:** South Elkhorn Creek

Ammonia	0.10	Orthophosphate as Phosphate	0.459	Sulfate	22.7
Ammonia Nitrogen	0.08	Orthophosphate as Phosphorus	0.150		
Total Kjeldahl Nitrogen as NH3	0.10	Total Recoverable Phosphorus	0.24		
Total Kjeldahl Nitrogen as N	0.08				
Nitrate	0.8				
Nitrate Nitrogen	0.18				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K96 **Stream:** Graddy Springs

Ammonia		Orthophosphate as Phosphate	1.100	Sulfate	17.2
Ammonia Nitrogen		Orthophosphate as Phosphorus	0.359		
Total Kjeldahl Nitrogen as NH3		Total Recoverable Phosphorus	0.39		
Total Kjeldahl Nitrogen as N					
Nitrate	19.1				
Nitrate Nitrogen	4.32				

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Metals and Mineral Parameters:

Watershed Name:

South Elkhorn Creek

11-Digit Watershed Identity Number:

05100205270

Sample ID Number: K01 Stream: Lee's Branch

Aluminum	0.22	Calcium	63.03	Lead		Selenium	0.02	Thallium	0.17
Antimony	0.13	Chromium		Lithium	0.03	Silicon	3.45	Vanadium	
Barium	0.02	Cobalt	0.003	Magnesium	35.09	Sodium	83.15	Zinc	0.03
Beryllium		Copper	0.01	Manganese	0.41	Strontium	0.48		
Boron	0.56	Iron	0.37	Potassium	16.84	Sulfur	81.46		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K02 Stream: Lee's Branch

Aluminum	1.80	Calcium	83.67	Lead		Selenium	0.01	Thallium	
Antimony		Chromium		Lithium	0.008	Silicon	4.85	Vanadium	
Barium	0.03	Cobalt	0.002	Magnesium	6.70	Sodium	4.25	Zinc	0.01
Beryllium		Copper		Manganese	0.09	Strontium	0.12		
Boron	0.07	Iron	0.36	Potassium	1.74	Sulfur	6.45		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K24 Stream: South Elkhorn Creek

Aluminum		Calcium		Lead		Selenium		Thallium	
Antimony		Chromium		Lithium		Silicon		Vanadium	
Barium		Cobalt		Magnesium		Sodium		Zinc	
Beryllium		Copper		Manganese		Strontium			
Boron		Iron		Potassium		Sulfur			

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K25 Stream: South Elkhorn Creek

Aluminum	0.65	Calcium	77.97	Lead	0.02	Selenium	0.02	Thallium	0.09
Antimony		Chromium		Lithium	0.03	Silicon	4.26	Vanadium	
Barium	0.03	Cobalt	0.002	Magnesium	31.68	Sodium	92.76	Zinc	0.03
Beryllium		Copper	0.009	Manganese	0.12	Strontium	0.44		
Boron	0.38	Iron	0.24	Potassium	14.33	Sulfur	57.4		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K26 Stream: South Elkhorn Creek

Aluminum		Calcium	75.37	Lead	0.02	Selenium	0.01	Thallium	0.11
Antimony	0.09	Chromium		Lithium	0.03	Silicon	3.91	Vanadium	
Barium	0.03	Cobalt		Magnesium	31.08	Sodium	108.99	Zinc	0.03
Beryllium		Copper	0.01	Manganese	0.04	Strontium	0.39		
Boron	0.34	Iron	0.08	Potassium	14.51	Sulfur	59.36		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K31 Stream: South Elkhorn Creek

Aluminum		Calcium	79.13	Lead		Selenium	0.01	Thallium	0.08
Antimony		Chromium		Lithium	0.03	Silicon	3.46	Vanadium	
Barium	0.03	Cobalt	0.004	Magnesium	25.82	Sodium	115.77	Zinc	
Beryllium		Copper		Manganese	0.02	Strontium	0.36		
Boron	0.40	Iron	0.01	Potassium	12.71	Sulfur	57.34		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Watershed Name:

South Elkhorn Creek

11-Digit Watershed Identity Number:

05100205270

Sample ID Number: K32 Stream: Beals Run

Aluminum	<input type="text"/>	Calcium	<input type="text"/>	Lead	<input type="text"/>	Selenium	<input type="text"/>	Thallium	<input type="text"/>
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	<input type="text"/>	Silicon	<input type="text"/>	Vanadium	<input type="text"/>
Barium	<input type="text"/>	Cobalt	<input type="text"/>	Magnesium	<input type="text"/>	Sodium	<input type="text"/>	Zinc	<input type="text"/>
Beryllium	<input type="text"/>	Copper	<input type="text"/>	Manganese	<input type="text"/>	Strontium	<input type="text"/>		
Boron	<input type="text"/>	Iron	<input type="text"/>	Potassium	<input type="text"/>	Sulfur	<input type="text"/>		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K33 Stream: South Elkhorn Creek

Aluminum	<input type="text"/>	Calcium	<input type="text"/>	Lead	<input type="text"/>	Selenium	<input type="text"/>	Thallium	<input type="text"/>
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	<input type="text"/>	Silicon	<input type="text"/>	Vanadium	<input type="text"/>
Barium	<input type="text"/>	Cobalt	<input type="text"/>	Magnesium	<input type="text"/>	Sodium	<input type="text"/>	Zinc	<input type="text"/>
Beryllium	<input type="text"/>	Copper	<input type="text"/>	Manganese	<input type="text"/>	Strontium	<input type="text"/>		
Boron	<input type="text"/>	Iron	<input type="text"/>	Potassium	<input type="text"/>	Sulfur	<input type="text"/>		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K34 Stream: Wolfe Run

Aluminum	<input type="text"/>	Calcium	<input type="text"/>	Lead	<input type="text"/>	Selenium	<input type="text"/>	Thallium	<input type="text"/>
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	<input type="text"/>	Silicon	<input type="text"/>	Vanadium	<input type="text"/>
Barium	<input type="text"/>	Cobalt	<input type="text"/>	Magnesium	<input type="text"/>	Sodium	<input type="text"/>	Zinc	<input type="text"/>
Beryllium	<input type="text"/>	Copper	<input type="text"/>	Manganese	<input type="text"/>	Strontium	<input type="text"/>		
Boron	<input type="text"/>	Iron	<input type="text"/>	Potassium	<input type="text"/>	Sulfur	<input type="text"/>		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K54 Stream: McConnell Springs

Aluminum	0.30	Calcium	119.88	Lead	<input type="text"/>	Selenium	<input type="text"/>	Thallium	<input type="text"/>
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	<input type="text"/>	Silicon	3.23	Vanadium	<input type="text"/>
Barium	0.06	Cobalt	0.002	Magnesium	13.05	Sodium	35.25	Zinc	0.009
Beryllium	<input type="text"/>	Copper	<input type="text"/>	Manganese	0.21	Strontium	0.20		
Boron	0.11	Iron	0.09	Potassium	3.98	Sulfur	24.11		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K55 Stream: Town Branch

Aluminum	1.84	Calcium	43.63	Lead	0.01	Selenium	0.01	Thallium	0.04
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	0.01	Silicon	2.97	Vanadium	<input type="text"/>
Barium	0.03	Cobalt	0.002	Magnesium	7.76	Sodium	21.60	Zinc	0.10
Beryllium	<input type="text"/>	Copper	0.03	Manganese	0.13	Strontium	0.17		
Boron	0.14	Iron	0.75	Potassium	5.49	Sulfur	17.52		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K57 Stream: Spring Station

Aluminum	1.52	Calcium	97.95	Lead	<input type="text"/>	Selenium	0.01	Thallium	<input type="text"/>
Antimony	<input type="text"/>	Chromium	<input type="text"/>	Lithium	<input type="text"/>	Silicon	3.72	Vanadium	<input type="text"/>
Barium	0.03	Cobalt	0.006	Magnesium	8.04	Sodium	7.38	Zinc	0.007
Beryllium	<input type="text"/>	Copper	<input type="text"/>	Manganese	0.01	Strontium	0.13		
Boron	0.14	Iron	0.03	Potassium	1.80	Sulfur	7.45		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Watershed Name:

South Elkhorn Creek

11-Digit Watershed Identity Number:

05100205270

Sample ID Number: K71 Stream: South Elkhorn Creek

Aluminum	1.62	Calcium	114.55	Lead		Selenium	0.02	Thallium	
Antimony		Chromium		Lithium	0.008	Silicon	2.61	Vanadium	
Barium	0.06	Cobalt	0.003	Magnesium	21.56	Sodium	25.04	Zinc	0.008
Beryllium		Copper		Manganese	0.06	Strontium	0.31		
Boron	0.12	Iron	0.04	Potassium	5.16	Sulfur	43.77		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K72 Stream: Steele's Branch

Aluminum	1.52	Calcium	79.28	Lead		Selenium	0.01	Thallium	0.03
Antimony		Chromium		Lithium		Silicon	4.02	Vanadium	
Barium	0.03	Cobalt	0.003	Magnesium	12.17	Sodium	15.30	Zinc	0.006
Beryllium		Copper		Manganese	0.07	Strontium	0.16		
Boron	0.10	Iron	0.18	Potassium	3.63	Sulfur	20.79		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K75 Stream: Town Branch

Aluminum	0.31	Calcium	70.77	Lead	0.007	Selenium	0.02	Thallium	0.08
Antimony		Chromium		Lithium	0.03	Silicon	5.18	Vanadium	
Barium	0.01	Cobalt	0.002	Magnesium	34.11	Sodium	118.88	Zinc	0.07
Beryllium		Copper		Manganese	0.02	Strontium	0.46		
Boron	0.42	Iron	0.06	Potassium	17.09	Sulfur	61.69		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K84 Stream: South Elkhorn Creek

Aluminum	1.76	Calcium	87.79	Lead	0.01	Selenium	0.01	Thallium	
Antimony		Chromium		Lithium		Silicon	4.30	Vanadium	
Barium	0.04	Cobalt		Magnesium	10.47	Sodium	7.40	Zinc	0.009
Beryllium		Copper		Manganese	0.36	Strontium	0.14		
Boron	0.09	Iron	0.36	Potassium	3.71	Sulfur	7.88		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Sample ID Number: K96 Stream: Graddy Springs

Aluminum	1.25	Calcium	105.53	Lead		Selenium		Thallium	
Antimony		Chromium		Lithium	0.008	Silicon	5.41	Vanadium	
Barium	0.03	Cobalt	0.002	Magnesium	5.68	Sodium	2.61	Zinc	
Beryllium		Copper		Manganese	0.07	Strontium	0.16		
Boron	0.13	Iron	0.72	Potassium	1.59	Sulfur	5.45		

Note: All indicators are in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Pesticide/Herbicide Parameters:

Sample ID No.	Stream	2,4-D	Chlorpyrifos	Triazines
K01	Lee's Branch			
K02	Lee's Branch			
K24	South Elkhorn Creek			
K25	South Elkhorn Creek			0.07

Watershed Name: South Elkhorn Creek

11-Digit Watershed Identity Number: 05100205270

K26	South Elkhorn Creek	<input type="text"/>	0.15	<input type="text"/>
K31	South Elkhorn Creek	<input type="text"/>	<input type="text"/>	0.06
K32	Beals Run	<input type="text"/>	<input type="text"/>	<input type="text"/>
K33	South Elkhorn Creek	<input type="text"/>	0.14	<input type="text"/>
K34	Wolfe Run	<input type="text"/>	<input type="text"/>	<input type="text"/>
K54	McConnell Springs	<input type="text"/>	<input type="text"/>	<input type="text"/>
K55	Town Branch	<input type="text"/>	<input type="text"/>	<input type="text"/>
K57	Spring Station	<input type="text"/>	<input type="text"/>	<input type="text"/>
K71	South Elkhorn Creek	<input type="text"/>	<input type="text"/>	<input type="text"/>
K72	Steele's Branch	<input type="text"/>	<input type="text"/>	<input type="text"/>
K75	Town Branch	<input type="text"/>	<input type="text"/>	<input type="text"/>
K84	South Elkhorn Creek	<input type="text"/>	<input type="text"/>	0.15
K96	Graddy Springs	<input type="text"/>	<input type="text"/>	0.06

Note: All indicators are in micrograms per liter which is equivalent to parts per billion (ppb).