

Indiana Department of Environmental Management

Office of Water Quality-Watershed Assessment and Planning Branch

Surface Water Results Summary

SiteID: WWL-08-0009 **USGS Hydrologic Unit:** 051202020804
Stream Name: White River **County:** Knox
Description: Washington Road **Latitude:** 38 40 47.82000 **Longitude:** -87 16 24.22560
Drainage: **Site Number:** 24T-002

SiteID: WWL-08-0009 **Sample Date:** 11/21/2023 **IDEM Sample #:** AC37876
Water Flow Type Run **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	99.3 %	ASTM D888-09(C)
				DO	11.11 mg/L	ASTM D888-09(C)
				pH (Field)	8.07 SU	EPA 150.2
				Specific Conductance (Field)	1002 umho/cm	SM2510B
				Temperature	10.3 °C	SM2550B(2)
				Turbidity (Hach)	9.57 NTU	EPA 180.1
				Air Temp	3 Lookup	Observation
				Sky Conditions	4 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50360301002				Alkalinity (as CaCO3)	241 mg/L	10	SM2320B
				Chloride	111 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	300 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	12.5 mg/L	2.5	SM2540D
				Solids, Total (TS)	621 mg/L	10	SM2540B
				Solids, Total Dissolved (TDS)	604 mg/L	10	SM2540C
				Sulfate	125 mg/L	2.5	EPA 300.0
				Calcium (Total)	76900 ug/L	1000	EPA 200.7
				Magnesium (Total)	26100 ug/L	1000	EPA 200.7
				COD	10.5 mg/L	10	EPA 410.4
	QJ	MS##MSD	<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	1.7 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.087 mg/L	0.05	EPA 365.1
				TKN	0.58 mg/L	0.5	EPA 351.2
				TOC	2.8 mg/L	1	SM5310C

SiteID: WWL-08-0009 **Sample Date:** 12/19/2023 **IDEM Sample #:** AC38351
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	104.9 %	ASTM D888-09(C)

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DO		13.69 mg/L	ASTM D888-09(C)
pH (Field)	QJ	8.37 SU	EPA 150.2
Specific Conductance (Field)		944 umho/cm	SM2510B
Temperature		4.1 °C	SM2550B(2)
Turbidity (Hach)		4.15 NTU	EPA 180.1
Air Temp		1 Lookup	Observation
Sky Conditions		1 Lookup	Observation
Wind Direction		27 Lookup	Observation
Wind Strength		0 Lookup	Observation

Lab ID #: 50362023002	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				245 mg/L	10	SM2320B
Chloride				124 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				319 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				4.7 mg/L	2.5	SM2540D
Solids, Total (TS)				642 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				599 mg/L	10	SM2540C
Sulfate	QJ	MS##MSD		151 mg/L	2.5	EPA 300.0
Calcium (Total)				81100 ug/L	1000	EPA 200.7
Magnesium (Total)				28200 ug/L	1000	EPA 200.7
COD	QJ	MS##MSD		11.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia			<	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite				2.4 mg/L	0.1	EPA 353.2
Phosphorus, Total				0.1 mg/L	0.05	EPA 365.1
TKN			<	< 0.5 mg/L	0.5	EPA 351.2
TOC				3.1 mg/L	1	SM5310C

SiteID: WWL-08-0009 **Sample Date:** 1/17/2024 **IDEM Sample #:** AC38434
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Temp check says "UN" on meter #55. Probe 55 for field checks not trustworthy due to extreme temps.

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
% Sat				91.5 %		ASTM D888-09(C)
DO				13.36 mg/L		ASTM D888-09(C)
pH (Field)				7.97 SU		EPA 150.2
Specific Conductance (Field)				607 umho/cm		SM2510B
Temperature				0 °C		SM2550B(2)
Turbidity (Hach)				47.2 NTU		EPA 180.1
Air Temp				1 Lookup		Observation
Sky Conditions				1 Lookup		Observation
Wind Direction				27 Lookup		Observation
Wind Strength				2 Lookup		Observation

Lab ID #: 50363800002	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				161 mg/L	10	SM2320B
Chloride	fDJ			11.6 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				212 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				44.1 mg/L	3.7	SM2540D

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Solids, Total (TS)			370 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			301 mg/L	10	SM2540C
Sulfate			60.6 mg/L	2.5	EPA 300.0
Calcium (Total)			56900 ug/L	1000	EPA 200.7
Magnesium (Total)			17000 ug/L	1000	EPA 200.7
COD	Q	#MS#	19.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia			0.22 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			1.8 mg/L	0.1	EPA 353.2
Phosphorus, Total			0.17 mg/L	0.05	EPA 365.1
TKN			0.94 mg/L	0.5	EPA 351.2
TOC			4.5 mg/L	4	SM5310C

Weather Code Definitions					
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

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Surface Water Results Summary

SiteID: WWL-08-0010 **USGS Hydrologic Unit:** 051202020803
Stream Name: White River **County:** Daviess
Description: CR 650 North **Latitude:** 38 44 52.75320 **Longitude:** -87 14 15.00000
Drainage: **Site Number:** 24T-005

SiteID: WWL-08-0010 **Sample Date:** 11/21/2023 **IDEM Sample #:** AC37875
Water Flow Type Run **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	97.7 %	ASTM D888-09(C)
				DO	10.95 mg/L	ASTM D888-09(C)
				pH (Field)	8.09 SU	EPA 150.2
				Specific Conductance (Field)	1026 umho/cm	SM2510B
				Temperature	10.2 °C	SM2550B(2)
				Turbidity (Hach)	9.03 NTU	EPA 180.1
				Air Temp	3 Lookup	Observation
				Sky Conditions	4 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50360301001				Alkalinity (as CaCO3)	239 mg/L	10	SM2320B
				Chloride	114 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	294 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	12.7 mg/L	2.5	SM2540D
				Solids, Total (TS)	628 mg/L	10	SM2540B
				Solids, Total Dissolved (TDS)	620 mg/L	10	SM2540C
				Sulfate	121 mg/L	2.5	EPA 300.0
				Calcium (Total)	76100 ug/L	1000	EPA 200.7
				Magnesium (Total)	25300 ug/L	1000	EPA 200.7
		QJ	MS##MSD	COD	13.7 mg/L	10	EPA 410.4
			<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	1.7 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.076 mg/L	0.05	EPA 365.1
				TKN	0.6 mg/L	0.5	EPA 351.2
				TOC	3.3 mg/L	1	SM5310C

SiteID: WWL-08-0010 **Sample Date:** 12/19/2023 **IDEM Sample #:** AC38350
Water Flow Type Eddy **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	99.9 %	ASTM D888-09(C)

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DO		13.28 mg/L	ASTM D888-09(C)
pH (Field)	QJ	8.38 SU	EPA 150.2
Specific Conductance (Field)		1100 umho/cm	SM2510B
Temperature		3.3 °C	SM2550B(2)
Turbidity (Hach)		4.2 NTU	EPA 180.1
Air Temp		1 Lookup	Observation
Sky Conditions		1 Lookup	Observation
Wind Direction		27 Lookup	Observation
Wind Strength		0 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50362023001							
				Alkalinity (as CaCO3)	244 mg/L	10	SM2320B
				Chloride	122 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	317 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	5.9 mg/L	2.5	SM2540D
				Solids, Total (TS)	651 mg/L	10	SM2540B
				Solids, Total Dissolved (TDS)	630 mg/L	10	SM2540C
	QJ	MS##MSD		Sulfate	139 mg/L	2.5	EPA 300.0
				Calcium (Total)	81200 ug/L	1000	EPA 200.7
				Magnesium (Total)	27800 ug/L	1000	EPA 200.7
	QJ	MS##MSD		COD	16.4 mg/L	10	EPA 410.4
			<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	2.5 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.075 mg/L	0.05	EPA 365.1
				TKN	0.53 mg/L	0.5	EPA 351.2
				TOC	3.5 mg/L	1	SM5310C

SiteID: WWL-08-0010 **Sample Date:** 1/17/2024 **IDEM Sample #:** AC38433
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	105.4 %	ASTM D888-09(C)
				DO	15.39 mg/L	ASTM D888-09(C)
				pH (Field)	8.18 SU	EPA 150.2
				Specific Conductance (Field)	578 umho/cm	SM2510B
				Temperature	0 °C	SM2550B(2)
				Turbidity (Hach)	55.9 NTU	EPA 180.1
				Air Temp	1 Lookup	Observation
				Sky Conditions	1 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50363800001				Alkalinity (as CaCO3)	152 mg/L	10	SM2320B
				Chloride	52.2 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	213 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	40.8 mg/L	5	SM2540D

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Solids, Total (TS)			364 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			251 mg/L	10	SM2540C
Sulfate			46.7 mg/L	2.5	EPA 300.0
Calcium (Total)			57300 ug/L	1000	EPA 200.7
Magnesium (Total)			17000 ug/L	1000	EPA 200.7
COD	Q	#MS#	16.2 mg/L	10	EPA 410.4
Nitrogen, Ammonia			0.18 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			1.7 mg/L	0.1	EPA 353.2
Phosphorus, Total			0.16 mg/L	0.05	EPA 365.1
TKN			0.86 mg/L	0.5	EPA 351.2
TOC			4.8 mg/L	4	SM5310C

Weather Code Definitions					
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

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Surface Water Results Summary

SiteID: WWL-08-0011 **USGS Hydrologic Unit:** 051202020802
Stream Name: Indian Creek **County:** Knox
Description: River Road **Latitude:** 38 44 22.76520 **Longitude:** -87 15 49.71600
Drainage: **Site Number:** 24T-006

SiteID: WWL-08-0011 **Sample Date:** 11/21/2023 **IDEM Sample #:** AC37877
Water Flow Type Riffle **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Stream filled with trash

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	89.3 %	ASTM D888-09(C)
				DO	10.25 mg/L	ASTM D888-09(C)
				pH (Field)	7.68 SU	EPA 150.2
				Specific Conductance (Field)	1221 umho/cm	SM2510B
				Temperature	9.1 °C	SM2550B(2)
				Turbidity (Hach)	3.09 NTU	EPA 180.1
				Air Temp	3 Lookup	Observation
				Sky Conditions	4 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50360301003				Alkalinity (as CaCO3)	260 mg/L	10	SM2320B
				Chloride	33.3 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	513 mg/L	10	SM2340B
			<	Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
				Solids, Total (TS)	916 mg/L	20	SM2540B
				Solids, Total Dissolved (TDS)	910 mg/L	20	SM2540C
				Sulfate	397 mg/L	2.5	EPA 300.0
				Calcium (Total)	130000 ug/L	1000	EPA 200.7
				Magnesium (Total)	45700 ug/L	1000	EPA 200.7
	QJ	MS##MSD		COD	13.3 mg/L	10	EPA 410.4
			<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	2 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.2 mg/L	0.05	EPA 365.1
				TKN	0.53 mg/L	0.5	EPA 351.2
				TOC	4.3 mg/L	1	SM5310C

SiteID: WWL-08-0011 **Sample Date:** 12/19/2023 **IDEM Sample #:** AC38352
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	115.9 %	ASTM D888-09(C)

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DO		14.64 mg/L	ASTM D888-09(C)
pH (Field)	QJ	8.17 SU	EPA 150.2
Specific Conductance (Field)		1106 umho/cm	SM2510B
Temperature		5.3 °C	SM2550B(2)
Turbidity (Hach)		5.95 NTU	EPA 180.1
Air Temp		2 Lookup	Observation
Sky Conditions		1 Lookup	Observation
Wind Direction		27 Lookup	Observation
Wind Strength		0 Lookup	Observation

Lab ID #: 50362023003	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				231 mg/L	10	SM2320B
Chloride				38.1 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				479 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				3.8 mg/L	2.5	SM2540D
Solids, Total (TS)				877 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				734 mg/L	10	SM2540C
Sulfate	QJ	MS##MSD		314 mg/L	2.5	EPA 300.0
Calcium (Total)				122000 ug/L	1000	EPA 200.7
Magnesium (Total)				42300 ug/L	1000	EPA 200.7
COD	QJ	MS##MSD	<	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia			<	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite				6.7 mg/L	0.5	EPA 353.2
Phosphorus, Total				0.44 mg/L	0.05	EPA 365.1
TKN			<	< 0.5 mg/L	0.5	EPA 351.2
TOC				3.5 mg/L	1	SM5310C

SiteID: WWL-08-0011 **Sample Date:** 1/17/2024 **IDEM Sample #:** AC38435
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
% Sat				86.6 %		ASTM D888-09(C)
DO				12.62 mg/L		ASTM D888-09(C)
pH (Field)				7.63 SU		EPA 150.2
Specific Conductance (Field)				791 umho/cm		SM2510B
Temperature				0 °C		SM2550B(2)
Turbidity (Hach)				31.8 NTU		EPA 180.1
Air Temp				1 Lookup		Observation
Sky Conditions				1 Lookup		Observation
Wind Direction				27 Lookup		Observation
Wind Strength				2 Lookup		Observation

Lab ID #: 50363800003	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				186 mg/L	10	SM2320B
Chloride	fDJ			41.6 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				313 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				20.7 mg/L	2.5	SM2540D

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Solids, Total (TS)			466 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			417 mg/L	10	SM2540C
Sulfate			131 mg/L	2.5	EPA 300.0
Calcium (Total)			79600 ug/L	1000	EPA 200.7
Magnesium (Total)			27800 ug/L	1000	EPA 200.7
COD	Q	#MS#	17.7 mg/L	10	EPA 410.4
Nitrogen, Ammonia			0.21 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			2.1 mg/L	0.1	EPA 353.2
Phosphorus, Total			0.19 mg/L	0.05	EPA 365.1
TKN			0.71 mg/L	0.5	EPA 351.2
TOC			4.9 mg/L	4	SM5310C

Weather Code Definitions					
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

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Surface Water Results Summary**

SiteID: WWL-08-0016 **USGS Hydrologic Unit:** 051202020803
Stream Name: White River **County:** Daviess
Description: Dinkens Road **Latitude:** 38 48 48.98880 **Longitude:** -87 12 59.01480
Drainage: **Site Number:** 24T-013

SiteID: WWL-08-0016 **Sample Date:** 11/21/2023 **IDEM Sample #:** AC37878
Water Flow Type Run **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	105.7 %	ASTM D888-09(C)
				DO	11.91 mg/L	ASTM D888-09(C)
				pH (Field)	8.11 SU	EPA 150.2
				Specific Conductance (Field)	1030 umho/cm	SM2510B
				Temperature	9.9 °C	SM2550B(2)
				Turbidity (Hach)	4.76 NTU	EPA 180.1
				Air Temp	2 Lookup	Observation
				Sky Conditions	4 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50360301004				Alkalinity (as CaCO3)	244 mg/L	10	SM2320B
				Chloride	115 mg/L	2.5	EPA 300.0
				Hardness (as CaCO3)	296 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	7.2 mg/L	2.5	SM2540D
				Solids, Total (TS)	638 mg/L	10	SM2540B
				Solids, Total Dissolved (TDS)	622 mg/L	10	SM2540C
				Sulfate	120 mg/L	2.5	EPA 300.0
				Calcium (Total)	77000 ug/L	1000	EPA 200.7
				Magnesium (Total)	25200 ug/L	1000	EPA 200.7
				COD	15.4 mg/L	10	EPA 410.4
	QJ	MS##MSD	<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	1.9 mg/L	0.1	EPA 353.2
			<	Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
				TKN	0.56 mg/L	0.5	EPA 351.2
				TOC	3.2 mg/L	1	SM5310C

SiteID: WWL-08-0016 **Sample Date:** 12/19/2023 **IDEM Sample #:** AC38353
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	119.3 %	ASTM D888-09(C)

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DO		14.96 mg/L	ASTM D888-09(C)
pH (Field)	QJ	8.42 SU	EPA 150.2
Specific Conductance (Field)		1039 umho/cm	SM2510B
Temperature		5.6 °C	SM2550B(2)
Turbidity (Hach)		3.36 NTU	EPA 180.1
Air Temp		2 Lookup	Observation
Sky Conditions		2 Lookup	Observation
Wind Direction		27 Lookup	Observation
Wind Strength		1 Lookup	Observation

Lab ID #: 50362023004	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				245 mg/L	10	SM2320B
Chloride				122 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				303 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				3.9 mg/L	2.5	SM2540D
Solids, Total (TS)				644 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				634 mg/L	10	SM2540C
Sulfate	QJ	MS##MSD		129 mg/L	2.5	EPA 300.0
Calcium (Total)				78400 ug/L	1000	EPA 200.7
Magnesium (Total)				26100 ug/L	1000	EPA 200.7
COD	QJ	MS##MSD		11.7 mg/L	10	EPA 410.4
Nitrogen, Ammonia			<	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite				2.4 mg/L	0.1	EPA 353.2
Phosphorus, Total				0.068 mg/L	0.05	EPA 365.1
TKN			<	< 0.5 mg/L	0.5	EPA 351.2
TOC				3.4 mg/L	1	SM5310C

SiteID: WWL-08-0016 **Sample Date:** 1/17/2024 **IDEM Sample #:** AC38436
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
% Sat				97.2 %		ASTM D888-09(C)
DO				14.15 mg/L		ASTM D888-09(C)
pH (Field)				8.1 SU		EPA 150.2
Specific Conductance (Field)				605 umho/cm		SM2510B
Temperature				0.1 °C		SM2550B(2)
Turbidity (Hach)				33.6 NTU		EPA 180.1
Air Temp				1 Lookup		Observation
Sky Conditions				1 Lookup		Observation
Wind Direction				27 Lookup		Observation
Wind Strength				3 Lookup		Observation

Lab ID #: 50363800004	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
Alkalinity (as CaCO3)				165 mg/L	10	SM2320B
Chloride	fDJ			58 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)				208 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)				36.1 mg/L	3.6	SM2540D

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Surface Water Results Summary**

Solids, Total (TS)			344 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			292 mg/L	10	SM2540C
Sulfate			46.4 mg/L	0.25	EPA 300.0
Calcium (Total)			55600 ug/L	1000	EPA 200.7
Magnesium (Total)			16700 ug/L	1000	EPA 200.7
COD	Q	#MS#	11.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia			0.15 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			1.6 mg/L	0.1	EPA 353.2
Phosphorus, Total			0.14 mg/L	0.05	EPA 365.1
TKN			0.6 mg/L	0.5	EPA 351.2
TOC			4.4 mg/L	4	SM5310C

Weather Code Definitions					
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

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Surface Water Results Summary

SiteID: WWL070-0002 **USGS Hydrologic Unit:** 051202020801
Stream Name: Pollard Ditch **County:** Knox
Description: CR 725 North **Latitude:** 38 49 59.74320 **Longitude:** -87 14 5.31600
Drainage: 25.3 **Site Number:** 24T-015

SiteID: WWL070-0002 **Sample Date:** 11/21/2023 **IDEM Sample #:** AC37879
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	73.1 %	ASTM D888-09(C)
				DO	8.31 mg/L	ASTM D888-09(C)
				pH (Field)	7.74 SU	EPA 150.2
				Specific Conductance (Field)	2424 umho/cm	SM2510B
				Temperature	9.4 °C	SM2550B(2)
				Turbidity (Hach)	5.49 NTU	EPA 180.1
				Air Temp	3 Lookup	Observation
				Sky Conditions	4 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	2 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50360301005				Alkalinity (as CaCO3)	385 mg/L	10	SM2320B
				Chloride	19.1 mg/L	0.25	EPA 300.0
				Hardness (as CaCO3)	971 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	2.8 mg/L	2.5	SM2540D
				Solids, Total (TS)	2130 mg/L	40	SM2540B
				Solids, Total Dissolved (TDS)	2070 mg/L	20	SM2540C
				Sulfate	1350 mg/L	25	EPA 300.0
				Calcium (Total)	190000 ug/L	1000	EPA 200.7
				Magnesium (Total)	121000 ug/L	1000	EPA 200.7
		QJ	MS##MSD	COD	11.9 mg/L	10	EPA 410.4
			<	Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
			<	Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.08 mg/L	0.05	EPA 365.1
			<	TKN	< 0.5 mg/L	0.5	EPA 351.2
				TOC	3.9 mg/L	1	SM5310C

SiteID: WWL070-0002 **Sample Date:** 12/19/2023 **IDEM Sample #:** AC38354
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Excessive algae

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	83.3 %	ASTM D888-09(C)

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Surface Water Results Summary**

DO		11.05 mg/L	ASTM D888-09(C)
pH (Field)	QJ	7.99 SU	EPA 150.2
Specific Conductance (Field)		2291 umho/cm	SM2510B
Temperature		3.3 °C	SM2550B(2)
Turbidity (Hach)		6.49 NTU	EPA 180.1
Air Temp		2 Lookup	Observation
Sky Conditions		1 Lookup	Observation
Wind Direction		27 Lookup	Observation
Wind Strength		1 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50362023005							
				Alkalinity (as CaCO3)	335 mg/L	10	SM2320B
				Chloride	17 mg/L	0.25	EPA 300.0
				Hardness (as CaCO3)	920 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	4.5 mg/L	2.5	SM2540D
				Solids, Total (TS)	1930 mg/L	20	SM2540B
				Solids, Total Dissolved (TDS)	1750 mg/L	20	SM2540C
	QJ	MS##MSD		Sulfate	1030 mg/L	25	EPA 300.0
				Calcium (Total)	182000 ug/L	1000	EPA 200.7
				Magnesium (Total)	113000 ug/L	1000	EPA 200.7
	QJ	MS##MSD	<	COD	< 10 mg/L	10	EPA 410.4
				Nitrogen, Ammonia	0.57 mg/L	0.1	EPA 350.1
				Nitrogen, Nitrate+Nitrite	1.4 mg/L	0.1	EPA 353.2
				Phosphorus, Total	0.076 mg/L	0.05	EPA 365.1
				TKN	0.68 mg/L	0.5	EPA 351.2
			<	TOC	< 10 mg/L	10	SM5310C

SiteID: WWL070-0002 **Sample Date:** 1/17/2024 **IDEM Sample #:** AC38437
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method
	IDEM	Memo				
				% Sat	85.6 %	ASTM D888-09(C)
				DO	12.43 mg/L	ASTM D888-09(C)
				pH (Field)	7.94 SU	EPA 150.2
				Specific Conductance (Field)	1721 umho/cm	SM2510B
				Temperature	0 °C	SM2550B(2)
				Turbidity (Hach)	17.4 NTU	EPA 180.1
				Air Temp	1 Lookup	Observation
				Sky Conditions	1 Lookup	Observation
				Wind Direction	27 Lookup	Observation
				Wind Strength	4 Lookup	Observation

Lab ID #:	Flags		Lab	Result	Reporting Limit	Method	
	IDEM	Memo					
50363800005				Alkalinity (as CaCO3)	289 mg/L	10	SM2320B
				Chloride	15.6 mg/L	0.25	EPA 300.0
				Hardness (as CaCO3)	811 mg/L	10	SM2340B
				Solids, Suspended Total, (TSS)	9 mg/L	2.5	SM2540D

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Surface Water Results Summary**

Solids, Total (TS)			1440 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)			1260 mg/L	20	SM2540C
Sulfate			593 mg/L	25	EPA 300.0
Calcium (Total)			165000 ug/L	1000	EPA 200.7
Magnesium (Total)			96700 ug/L	1000	EPA 200.7
COD	Q	#MS#	12.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia			0.11 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			0.33 mg/L	0.1	EPA 353.2
Phosphorus, Total			0.11 mg/L	0.05	EPA 365.1
TKN		<	< 0.5 mg/L	0.5	EPA 351.2
TOC			5.1 mg/L	1	SM5310C

Weather Code Definitions					
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	