

Indiana Department of Environmental Management

Office of Water Quality-Watershed Assessment and Planning Branch

Surface Water Results Summary

SiteID: WWL-08-0008 **USGS Hydrologic Unit:** 051202020804
Stream Name: White River **County:** Knox
Description: Apraw Road **Latitude:** 38 42 32.52 **Longitude:** -87 15 22.39
Drainage: 5061.386 **Site Number:** 24T-004

SiteID: WWL-08-0008 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41399
Water Flow Type Run **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	157.3 %		ASTM D888-09(C)
DO	12.09 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	713 umho/cm		SM2510B
Temperature	29 °C		SM2550B(2)
Turbidity (Hach)	25.8 NTU		180.1
pH (Field)	8.29 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50381194011	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	175 mg/L	10	SM2320B
Chloride	88.6 mg/L	2.5	300.0
Hardness (as CaCO3)	216 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	35 mg/L	5	SM2540D
Solids, Total (TS)	436 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	386 mg/L	10	SM2540C
Sulfate	83.7 mg/L	2.5	300.0
Calcium	49700 ug/L	1000	200.7
Magnesium	22400 ug/L	1000	200.7
COD	25.6 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.16 mg/L	0.1	353.2
Phosphorus, Total	.19 mg/L	0.05	365.1
TKN	1.4 mg/L	0.5	351.2
TOC	3.6 mg/L	1	SM5310C

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Lab ID #: AC41399		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		4.1	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0008

Sample Date: 9/2/2024

IDEM Sample #: AC41417

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	132.1	%		ASTM D888-09(C)
DO	10.65	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	848	umho/cm		SM2510B
Temperature	26.2	°C		SM2550B(2)
Turbidity (Hach)	35.3	NTU		180.1
pH (Field)	8.23	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41417	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	7.4	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0008

Sample Date: 9/9/2024

IDEM Sample #: AC41435

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	147	%		ASTM D888-09(C)
DO	12.61	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	853	umho/cm		SM2510B
Temperature	22.9	°C		SM2550B(2)
Turbidity (Hach)	26.7	NTU		180.1
pH (Field)	8.37	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41435	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	2	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0008

Sample Date: 9/16/2024

IDEM Sample #: AC41453

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	165.1	%		ASTM D888-09(C)
DO	12.89	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	841	umho/cm		SM2510B
Temperature	28	°C		SM2550B(2)
Turbidity (Hach)	25.1	NTU		180.1
pH (Field)	8.36	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID #: AC41453	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	< 1	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0008

Sample Date: 9/24/2024

IDEM Sample #: AC41471

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	109.6 %		ASTM D888-09(C)
DO	9.34 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	593 umho/cm		SM2510B
Temperature	23.3 °C		SM2550B(2)
Turbidity (Hach)	28.6 NTU		180.1
pH (Field)	8.21 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50383292011	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	199 mg/L	10	SM2320B
Chloride	117 mg/L	2.5	300.0
Hardness (as CaCO3)	266 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	17.8 mg/L	5	SM2540D
Solids, Total (TS)	572 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	528 mg/L	10	SM2540C
Sulfate	126 mg/L	2.5	300.0
Calcium	62000 ug/L	1000	200.7
Magnesium	27100 ug/L	1000	200.7
COD	17.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.5 mg/L	0.1	353.2
Phosphorus, Total	.083 mg/L	0.05	365.1
TKN	1.2 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC41471	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	488.4 MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0008

Sample Date: 10/15/2024

IDEM Sample #: AC42020

Water Flow Type Riffle

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	118.7 %		ASTM D888-09(C)
DO	11.62 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	798 umho/cm		SM2510B
Temperature	16.3 °C		SM2550B(2)
Turbidity (Hach)	23.6 NTU		180.1
pH (Field)	8.52 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159011	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	183 mg/L	10	SM2320B
Chloride	92.7 mg/L	2.5	300.0
Hardness (as CaCO3)	224 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.4 mg/L	7.1	SM2540D
Solids, Total (TS)	494 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	457 mg/L	10	SM2540C
Sulfate	81.8 mg/L	2.5	300.0
Calcium	52200 ug/L	1000	200.7
Magnesium	22800 ug/L	1000	200.7
COD	27.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	.13 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC42020	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	17.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

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 47.82 **Longitude:** -87 16 24.23
Drainage: 5068.863 **Site Number:** 24T-002

SiteID: WWL-08-0009 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41397
Water Flow Type Run **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	126.7	%		ASTM D888-09(C)
DO	9.98	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	721	umho/cm		SM2510B
Temperature	27.6	°C		SM2550B(2)
Turbidity (Hach)	41.3	NTU		180.1
pH (Field)	7.97	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50381194009	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	179	mg/L	10	SM2320B
Chloride	86.5	mg/L	2.5	300.0
Hardness (as CaCO3)	228	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	55.7	mg/L	7.7	SM2540D
Solids, Total (TS)	458	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	396	mg/L	10	SM2540C
Sulfate	86.3	mg/L	2.5	300.0
Calcium	53000	ug/L	1000	200.7
Magnesium	23200	ug/L	1000	200.7
COD	30.9	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.12	mg/L	0.1	353.2
Phosphorus, Total	.13	mg/L	0.05	365.1
TKN	1.4	mg/L	0.5	351.2
TOC	3.3	mg/L	1	SM5310C

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Surface Water Results Summary**

Lab ID #: AC41397		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0009

Sample Date: 9/2/2024

IDEM Sample #: AC41415

Water Flow Type Run

Water Appearance Brown

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	113.3	%		ASTM D888-09(C)
DO	9.17	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	850	umho/cm		SM2510B
Temperature	26	°C		SM2550B(2)
Turbidity (Hach)	29.5	NTU		180.1
pH (Field)	8.08	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41415	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	10.8	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0009

Sample Date: 9/9/2024

IDEM Sample #: AC41433

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	126.5	%		ASTM D888-09(C)
DO	11.13	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	913	umho/cm		SM2510B
Temperature	21.5	°C		SM2550B(2)
Turbidity (Hach)	22.1	NTU		180.1
pH (Field)	8.25	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41433	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	7.3	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0009

Sample Date: 9/16/2024

IDEM Sample #: AC41451

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	119.5	%		ASTM D888-09(C)
DO	9.82	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	857	umho/cm		SM2510B
Temperature	25.2	°C		SM2550B(2)
Turbidity (Hach)	20.9	NTU		180.1
pH (Field)	8.17	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41451	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	14.2	MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0009

Sample Date: 9/24/2024

IDEM Sample #: AC41469

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	88.1 %		ASTM D888-09(C)
DO	7.52 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	941 umho/cm		SM2510B
Temperature	23 °C		SM2550B(2)
Turbidity (Hach)	42.1 NTU		180.1
pH (Field)	7.89 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50383292009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	202 mg/L	10	SM2320B
Chloride	112 mg/L	2.5	300.0
Hardness (as CaCO3)	271 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	47.6 mg/L	5	SM2540D
Solids, Total (TS)	598 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	510 mg/L	10	SM2540C
Sulfate	131 mg/L	2.5	300.0
Calcium	63200 ug/L	1000	200.7
Magnesium	27600 ug/L	1000	200.7
COD	22.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.47 mg/L	0.1	353.2
Phosphorus, Total	.13 mg/L	0.05	365.1
TKN	1.2 mg/L	0.5	351.2
TOC	3.4 mg/L	1	SM5310C

Lab ID #: AC41469	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1732.9 MPN/100mL	1	SM9223B

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Surface Water Results Summary

SiteID: WWL-08-0009

Sample Date: 10/15/2024

IDEM Sample #: AC42018

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	108.1 %		ASTM D888-09(C)
DO	10.72 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	795 umho/cm		SM2510B
Temperature	15.7 °C		SM2550B(2)
Turbidity (Hach)	21.4 NTU		180.1
pH (Field)	8.43 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	183 mg/L	10	SM2320B
Chloride	92.8 mg/L	2.5	300.0
Hardness (as CaCO3)	226 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	24 mg/L	10	SM2540D
Solids, Total (TS)	484 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Sulfate	83.9 mg/L	2.5	300.0
Calcium	52200 ug/L	1000	200.7
Magnesium	23200 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	.15 mg/L	0.05	365.1
TKN	1.2 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC42018	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	34.5 MPN/100mL	1	SM9223B

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Surface Water Results Summary**

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 52.75 **Longitude:** -87 14 15.00
Drainage: 5026.501 **Site Number:** 24T-005

SiteID: WWL-08-0010 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41410
Water Flow Type Eddy **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	106.1 %		ASTM D888-09(C)
DO	8.47 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	732 umho/cm		SM2510B
Temperature	26.8 °C		SM2550B(2)
Turbidity (Hach)	44 NTU		180.1
pH (Field)	7.92 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50381194007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	173 mg/L	10	SM2320B
Chloride	86.6 mg/L	2.5	300.0
Hardness (as CaCO3)	231 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	50 mg/L	5	SM2540D
Solids, Total (TS)	461 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	404 mg/L	10	SM2540C
Sulfate	77.4 mg/L	2.5	300.0
Calcium	54600 ug/L	1000	200.7
Magnesium	23000 ug/L	1000	200.7
COD	25.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.37 mg/L	0.1	353.2
Phosphorus, Total	.15 mg/L	0.05	365.1
TKN	1.3 mg/L	0.5	351.2
TOC	3.2 mg/L	1	SM5310C

**Indiana Department of Environmental Management
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Surface Water Results Summary**

Lab ID #: AC41410		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management

Office of Water Quality-Watershed Assessment and Planning Branch

Surface Water Results Summary

SiteID: WWL-08-0010

Sample Date: 9/2/2024

IDEM Sample #: AC41428

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	95.8	%		ASTM D888-09(C)
DO	7.88	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	862	umho/cm		SM2510B
Temperature	25.1	°C		SM2550B(2)
Turbidity (Hach)	54	NTU		180.1
pH (Field)	7.91	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41428	Result		Reporting Limit	Method
E. coli	10.9	MPN/100mL	1	SM9223B
Lab ID #: AC41428b	Result		Reporting Limit	Method
Coliforms (Total)	21430	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0010

Sample Date: 9/10/2024

IDEM Sample #: AC41446

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	105.5	%		ASTM D888-09(C)
DO	9.53	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	810	umho/cm		SM2510B
Temperature	20.2	°C		SM2550B(2)
Turbidity (Hach)	50.3	NTU		180.1
pH (Field)	8.08	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: AC41446	Result		Reporting Limit	Method
E. coli	2	MPN/100mL	1	SM9223B

Lab ID #: AC41446b	Result		Reporting Limit	Method
Coliforms (Total)	27230	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0010

Sample Date: 9/17/2024

IDEM Sample #: AC41464

Water Flow Type Eddy

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	100.6	%		ASTM D888-09(C)
DO	8.52	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	910	umho/cm		SM2510B
Temperature	23.6	°C		SM2550B(2)
Turbidity (Hach)	43	NTU		180.1
pH (Field)	8.06	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41464	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	14.5	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0010

Sample Date: 9/24/2024

IDEM Sample #: AC41482

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	85 %		ASTM D888-09(C)
DO	7.28 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	957 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	43.7 NTU		180.1
pH (Field)	7.96 SU		150.2
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50383292007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	201 mg/L	10	SM2320B
Chloride	123 mg/L	2.5	300.0
Hardness (as CaCO3)	279 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	46.6 mg/L	5	SM2540D
Solids, Total (TS)	605 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	511 mg/L	10	SM2540C
Sulfate	123 mg/L	2.5	300.0
Calcium	66700 ug/L	1000	200.7
Magnesium	27400 ug/L	1000	200.7
COD	22.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.53 mg/L	0.1	353.2
Phosphorus, Total	.26 mg/L	0.05	365.1
TKN	1.2 mg/L	0.5	351.2
TOC	< 4 mg/L	4	SM5310C

Lab ID #: AC41482	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	161.6 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0010

Sample Date: 10/15/2024

IDEM Sample #: AC42031

Water Flow Type Run

Water Appearance Brown

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	99.7	%		ASTM D888-09(C)
DO	9.91	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	801	umho/cm		SM2510B
Temperature	15.6	°C		SM2550B(2)
Turbidity (Hach)	30.1	NTU		180.1
pH (Field)	8.18	SU		150.2
Air Temp	2	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50385159007	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	183	mg/L	10	SM2320B
Chloride	93.1	mg/L	2.5	300.0
Hardness (as CaCO3)	230	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	28.5	mg/L	12.5	SM2540D
Solids, Total (TS)	493	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	448	mg/L	10	SM2540C
Sulfate	82.7	mg/L	2.5	300.0
Calcium	53900	ug/L	1000	200.7
Magnesium	23100	ug/L	1000	200.7
COD	28.5	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.13	mg/L	0.05	365.1
TKN	1.3	mg/L	0.5	351.2
TOC	3.2	mg/L	1	SM5310C

Lab ID #: AC42031	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	36.4	MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011 **USGS Hydrologic Unit:** 051202020802
Stream Name: Indian Creek **County:** Knox
Description: River Road **Latitude:** 38 44 22.77 **Longitude:** -87 15 49.72
Drainage: 30.469 **Site Number:** 24T-006

SiteID: WWL-08-0011 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41400
Water Flow Type Run **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	130.7	%		ASTM D888-09(C)
DO	10.55	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	932	umho/cm		SM2510B
Temperature	26.1	°C		SM2550B(2)
Turbidity (Hach)	4.56	NTU		180.1
pH (Field)	7.67	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50381194012	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	253	mg/L	10	SM2320B
Chloride	25.5	mg/L	2.5	300.0
Hardness (as CaCO3)	388	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.7	mg/L	2.5	SM2540D
Solids, Total (TS)	632	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	602	mg/L	10	SM2540C
Sulfate	251	mg/L	2.5	300.0
Calcium	99400	ug/L	1000	200.7
Magnesium	34000	ug/L	1000	200.7
COD	10.8	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.7	mg/L	0.1	353.2
Phosphorus, Total	.13	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	1.9	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41400		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
E. coli		148.3	MPN/100mL	1	SM9223B
Lab ID #: AC41400b		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		6630	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011

Sample Date: 9/2/2024

IDEM Sample #: AC41418

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	99.4	%		ASTM D888-09(C)
DO	8.65	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	971	umho/cm		SM2510B
Temperature	22.1	°C		SM2550B(2)
Turbidity (Hach)	6.75	NTU		180.1
pH (Field)	7.76	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41418	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	120.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011

Sample Date: 9/9/2024

IDEM Sample #: AC41436

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	121.6	%		ASTM D888-09(C)
DO	11.35	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	985	umho/cm		SM2510B
Temperature	18.5	°C		SM2550B(2)
Turbidity (Hach)	9.87	NTU		180.1
pH (Field)	7.76	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41436	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	151.5	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011

Sample Date: 9/16/2024

IDEM Sample #: AC41454

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	125.4	%		ASTM D888-09(C)
DO	10.64	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1027	umho/cm		SM2510B
Temperature	23.4	°C		SM2550B(2)
Turbidity (Hach)	7.38	NTU		180.1
pH (Field)	7.8	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41454	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	139.6	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011

Sample Date: 9/24/2024

IDEM Sample #: AC41472

Water Flow Type Flood

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	81.2	%		ASTM D888-09(C)
DO	7.16	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	633	umho/cm		SM2510B
Temperature	21.3	°C		SM2550B(2)
Turbidity (Hach)	63.8	NTU		180.1
pH (Field)	7.57	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	3	Lookup		Observation

Lab ID #: 50383292012	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	112	mg/L	10	SM2320B
Chloride	24.9	mg/L	2.5	300.0
Hardness (as CaCO3)	239	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	32.8	mg/L	5	SM2540D
Solids, Total (TS)	436	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	384	mg/L	10	SM2540C
Sulfate	151	mg/L	2.5	300.0
Calcium	64100	ug/L	1000	200.7
Magnesium	19300	ug/L	1000	200.7
COD	20.7	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	6.6	mg/L	0.2	353.2
Phosphorus, Total	.56	mg/L	0.05	365.1
TKN	1.2	mg/L	0.5	351.2
TOC	6.1	mg/L	1	SM5310C

Lab ID #: AC41472b	Result		Reporting Limit	Method
Coliforms (Total)	155310	MPN/100mL	100	SM9223B
E. coli	17200	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0011

Sample Date: 10/15/2024

IDEM Sample #: AC42021

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	128.2 %		ASTM D888-09(C)
DO	13.19 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1067 umho/cm		SM2510B
Temperature	13.9 °C		SM2550B(2)
Turbidity (Hach)	6.94 NTU		180.1
pH (Field)	8.07 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	254 mg/L	10	SM2320B
Chloride	29.2 mg/L	2.5	300.0
Hardness (as CaCO3)	416 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	770 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	728 mg/L	10	SM2540C
Sulfate	283 mg/L	2.5	300.0
Calcium	103000 ug/L	1000	200.7
Magnesium	38300 ug/L	1000	200.7
COD	15.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.8 mg/L	0.1	353.2
Phosphorus, Total	.16 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.6 mg/L	1	SM5310C

Lab ID #: AC42021	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	727 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012 **USGS Hydrologic Unit:** 051202020802
Stream Name: Pickel Ditch **County:** Knox
Description: McGlone Road **Latitude:** 38 45 29.17 **Longitude:** -87 16 17.34
Drainage: 15.845 **Site Number:** 24T-007

SiteID: WWL-08-0012 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41401
Water Flow Type Pool **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	211.6 %		ASTM D888-09(C)
DO	16.53 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1153 umho/cm		SM2510B
Temperature	27.9 °C		SM2550B(2)
Turbidity (Hach)	7.4 NTU		180.1
pH (Field)	8.14 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50381194013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	250 mg/L	10	SM2320B
Chloride	26.2 mg/L	2.5	300.0
Hardness (as CaCO3)	458 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.1 mg/L	2.5	SM2540D
Solids, Total (TS)	852 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	791 mg/L	10	SM2540C
Sulfate	436 mg/L	2.5	300.0
Calcium	116000 ug/L	1000	200.7
Magnesium	41100 ug/L	1000	200.7
COD	11 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.3 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41401		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		116	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012

Sample Date: 9/2/2024

IDEM Sample #: AC41419

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	165.8	%		ASTM D888-09(C)
DO	14.48	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1312	umho/cm		SM2510B
Temperature	21.9	°C		SM2550B(2)
Turbidity (Hach)	5.76	NTU		180.1
pH (Field)	8.14	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41419	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	53.6	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012

Sample Date: 9/9/2024

IDEM Sample #: AC41437

Water Flow Type Run

Water Appearance Gray
(Septic/Sewage)

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	174.6	%		ASTM D888-09(C)
DO	16.78	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1309	umho/cm		SM2510B
Temperature	17.1	°C		SM2550B(2)
Turbidity (Hach)	12	NTU		180.1
pH (Field)	8.32	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41437	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	185	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012

Sample Date: 9/16/2024

IDEM Sample #: AC41455

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	170.5	%		ASTM D888-09(C)
DO	14.56	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1306	umho/cm		SM2510B
Temperature	23	°C		SM2550B(2)
Turbidity (Hach)	6.76	NTU		180.1
pH (Field)	8.19	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41455	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	68.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012

Sample Date: 9/24/2024

IDEM Sample #: AC41473

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	91.1 %		ASTM D888-09(C)
DO	7.96 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1804 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	8.86 NTU		180.1
pH (Field)	7.68 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50383292013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	283 mg/L	10	SM2320B
Chloride	42.1 mg/L	2.5	300.0
Hardness (as CaCO3)	555 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.6 mg/L	2.5	SM2540D
Solids, Total (TS)	1310 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1300 mg/L	20	SM2540C
Sulfate	647 mg/L	25	300.0
Calcium	134000 ug/L	1000	200.7
Magnesium	53400 ug/L	1000	200.7
COD	10.8 mg/L	10	410.4
Nitrogen, Ammonia	.28 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.19 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.6 mg/L	0.5	351.2
TOC	2.8 mg/L	1	SM5310C

Lab ID #: AC41473	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1119.9 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0012

Sample Date: 10/15/2024

IDEM Sample #: AC42022

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	104.9 %		ASTM D888-09(C)
DO	11.07 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1458 umho/cm		SM2510B
Temperature	12.7 °C		SM2550B(2)
Turbidity (Hach)	9.51 NTU		180.1
pH (Field)	8.16 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	290 mg/L	10	SM2320B
Chloride	33.3 mg/L	2.5	300.0
Hardness (as CaCO3)	479 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1090 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1040 mg/L	20	SM2540C
Sulfate	457 mg/L	25	300.0
Calcium	117000 ug/L	1000	200.7
Magnesium	45500 ug/L	1000	200.7
COD	14.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.6 mg/L	1	SM5310C

Lab ID #: AC42022	Result	Reporting Limit	Method
Coliforms (Total)	1553.1 MPN/100mL	1	SM9223B
E. coli	60.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013 **USGS Hydrologic Unit:** 051202020802
Stream Name: Indian Creek **County:** Knox
Description: Mine Road **Latitude:** 38 45 29.10 **Longitude:** -87 17 23.94
Drainage: 9.366 **Site Number:** 24T-008

SiteID: WWL-08-0013 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41402
Water Flow Type Run **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	78.2	%		ASTM D888-09(C)
DO	6.54	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1468	umho/cm		SM2510B
Temperature	24.1	°C		SM2550B(2)
Turbidity (Hach)	2.54	NTU		180.1
pH (Field)	7.49	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50381194014	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	222	mg/L	10	SM2320B
Chloride	75.6	mg/L	2.5	300.0
Hardness (as CaCO3)	531	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	1070	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	980	mg/L	20	SM2540C
Sulfate	434	mg/L	2.5	300.0
Calcium	132000	ug/L	1000	200.7
Magnesium	48900	ug/L	1000	200.7
COD	15.8	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	23.5	mg/L	2.5	353.2
Phosphorus, Total	.76	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.9	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41402		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		218.7	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013

Sample Date: 9/2/2024

IDEM Sample #: AC41420

Water Flow Type Riffle

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	77.1	%		ASTM D888-09(C)
DO	6.9	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1410	umho/cm		SM2510B
Temperature	20.6	°C		SM2550B(2)
Turbidity (Hach)	245	NTU		180.1
pH (Field)	7.62	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41420	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	73.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013

Sample Date: 9/9/2024

IDEM Sample #: AC41438

Water Flow Type Pool

Water Appearance Sheen

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
	% Sat	86.1 %		ASTM D888-09(C)
	DO	8.59 mg/L		ASTM D888-09(C)
	Specific Conductance (Field)	1548 umho/cm		SM2510B
	Temperature	15.3 °C		SM2550B(2)
	Turbidity (Hach)	6.97 NTU		180.1
	pH (Field)	7.7 SU		150.2
	Air Temp	4 Lookup		Observation
	Sky Conditions	1 Lookup		Observation
	Wind Direction	27 Lookup		Observation
	Wind Strength	0 Lookup		Observation
Lab ID #: AC41438	Result		Reporting Limit	Method
	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	52 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013

Sample Date: 9/16/2024

IDEM Sample #: AC41456

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
	% Sat	73.9 %		ASTM D888-09(C)
	DO	6.56 mg/L		ASTM D888-09(C)
	Specific Conductance (Field)	1240 umho/cm		SM2510B
	Temperature	21 °C		SM2550B(2)
	Turbidity (Hach)	6.02 NTU		180.1
	pH (Field)	7.5 SU		150.2
	Air Temp	5 Lookup		Observation
	Sky Conditions	1 Lookup		Observation
	Wind Direction	27 Lookup		Observation
	Wind Strength	1 Lookup		Observation
Lab ID #: AC41456	Result		Reporting Limit	Method
	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	137.4 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013

Sample Date: 9/24/2024

IDEM Sample #: AC41474

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	70.2	%		ASTM D888-09(C)
DO	6.21	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	442	umho/cm		SM2510B
Temperature	21.4	°C		SM2550B(2)
Turbidity (Hach)	14.1	NTU		180.1
pH (Field)	7.43	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50383292014	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	91.6	mg/L	10	SM2320B
Chloride	79.5	mg/L	2.5	300.0
Hardness (as CaCO3)	173	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	67.4	mg/L	5	SM2540D
Solids, Total (TS)	431	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	349	mg/L	10	SM2540C
Sulfate	75.6	mg/L	2.5	300.0
Calcium	46500	ug/L	1000	200.7
Magnesium	13800	ug/L	1000	200.7
COD	28.2	mg/L	10	410.4
Nitrogen, Ammonia	.3	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	3.1	mg/L	0.1	353.2
Phosphorus, Total	.49	mg/L	0.05	365.1
TKN	1.5	mg/L	0.5	351.2
TOC	7	mg/L	1	SM5310C

Lab ID #: AC41474b	Result		Reporting Limit	Method
Coliforms (Total)	> 241960	MPN/100mL	241960	SM9223B
E. coli	19560	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0013

Sample Date: 10/15/2024

IDEM Sample #: AC42023

Water Flow Type Pool

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.4 %		ASTM D888-09(C)
DO	9.36 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1527 umho/cm		SM2510B
Temperature	12 °C		SM2550B(2)
Turbidity (Hach)	5.43 NTU		180.1
pH (Field)	7.87 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159014	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	242 mg/L	10	SM2320B
Chloride	63.4 mg/L	2.5	300.0
Hardness (as CaCO3)	595 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1170 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1100 mg/L	20	SM2540C
Sulfate	467 mg/L	25	300.0
Calcium	144000 ug/L	1000	200.7
Magnesium	57200 ug/L	1000	200.7
COD	18.6 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	11.3 mg/L	0.5	353.2
Phosphorus, Total	.32 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	4 mg/L	1	SM5310C

Lab ID #: AC42023	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015 USGS Hydrologic Unit: 051202020803
Stream Name: White River County: Daviess
Description: CR 1000 North Latitude: 38 48 43.82 Longitude: -87 14 33.74
Drainage: 4976.339 Site Number: 24T-012

SiteID: WWL-08-0015 Sample Date: 8/26/2024 IDEM Sample #: AC41404
Water Flow Type Run Water Appearance Murky Water Depth ☐Algae?
Water Flow (cf/sec): ☐Flow Estimated? ☐Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	147.2	%		ASTM D888-09(C)
DO	11.72	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	725	umho/cm		SM2510B
Temperature	27	°C		SM2550B(2)
Turbidity (Hach)	22.3	NTU		180.1
pH (Field)	8.29	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50381194001	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	178	mg/L	10	SM2320B
Chloride	84.4	mg/L	2.5	300.0
Hardness (as CaCO3)	222	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	51.8	mg/L	5	SM2540D
Solids, Total (TS)	451	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	395	mg/L	10	SM2540C
Sulfate	74.8	mg/L	2.5	300.0
Calcium	52900	ug/L	1000	200.7
Magnesium	21900	ug/L	1000	200.7
COD	28.1	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.34	mg/L	0.1	353.2
Phosphorus, Total	.27	mg/L	0.05	365.1
TKN	1.4	mg/L	0.5	351.2
TOC	3.5	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41404		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015

Sample Date: 9/3/2024

IDEM Sample #: AC41422

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	101.7	%		ASTM D888-09(C)
DO	8.6	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	913	umho/cm		SM2510B
Temperature	23.7	°C		SM2550B(2)
Turbidity (Hach)	57	NTU		180.1
pH (Field)	8.11	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41422	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	36.4	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015

Sample Date: 9/10/2024

IDEM Sample #: AC41440

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	131.6	%		ASTM D888-09(C)
DO	11.59	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	745	umho/cm		SM2510B
Temperature	21.5	°C		SM2550B(2)
Turbidity (Hach)	36.8	NTU		180.1
pH (Field)	8.32	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41440	Result		Reporting Limit	Method
Coliforms (Total)	691	MPN/100mL	1	SM9223B
E. coli	15.8	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015

Sample Date: 9/17/2024

IDEM Sample #: AC41458

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
	% Sat	123.1	%	ASTM D888-09(C)
	DO	10.22	mg/L	ASTM D888-09(C)
	Specific Conductance (Field)	911	umho/cm	SM2510B
	Temperature	24.6	°C	SM2550B(2)
	Turbidity (Hach)	18.3	NTU	180.1
	pH (Field)	8.26	SU	150.2
	Air Temp	5	Lookup	Observation
	Sky Conditions	1	Lookup	Observation
	Wind Direction	27	Lookup	Observation
	Wind Strength	0	Lookup	Observation
Lab ID #: AC41458	Result		Reporting Limit	Method
	Coliforms (Total)	> 2419.6	MPN/100mL 2419.6	SM9223B
	E. coli	10.9	MPN/100mL 1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015

Sample Date: 9/23/2024

IDEM Sample #: AC41476

Water Flow Type Run

Water Appearance Brown

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	105.2 %		ASTM D888-09(C)
DO	8.86 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	881 umho/cm		SM2510B
Temperature	23.9 °C		SM2550B(2)
Turbidity (Hach)	23.9 NTU		180.1
pH (Field)	7.84 SU		150.2
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	206 mg/L	10	SM2320B
Chloride	126 mg/L	2.5	300.0
Hardness (as CaCO3)	269 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.4 mg/L	5	SM2540D
Solids, Total (TS)	584 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	549 mg/L	10	SM2540C
Sulfate	124 mg/L	2.5	300.0
Calcium	62900 ug/L	1000	200.7
Magnesium	27200 ug/L	1000	200.7
COD	24.6 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.59 mg/L	0.1	353.2
Phosphorus, Total	.13 mg/L	0.05	365.1
TKN	1.3 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC41476	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	6.3 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0015

Sample Date: 10/14/2024

IDEM Sample #: AC42025

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	131	%		ASTM D888-09(C)
DO	12.61	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	797	umho/cm		SM2510B
Temperature	17.2	°C		SM2550B(2)
Turbidity (Hach)	19.3	NTU		180.1
pH (Field)	8.38	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50385159001	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	186	mg/L	10	SM2320B
Chloride	94.8	mg/L	2.5	300.0
Hardness (as CaCO3)	226	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	18.8	mg/L	5	SM2540D
Solids, Total (TS)	496	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	439	mg/L	10	SM2540C
Sulfate	79.3	mg/L	2.5	300.0
Calcium	52900	ug/L	1000	200.7
Magnesium	22700	ug/L	1000	200.7
COD	24.5	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.17	mg/L	0.05	365.1
TKN	.83	mg/L	0.5	351.2
TOC	3.3	mg/L	1	SM5310C

Lab ID #: AC42025	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	6.3	MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016 USGS Hydrologic Unit: 051202020803
Stream Name: White River County: Daviess
Description: Dinkens Road Latitude: 38 48 48.99 Longitude: -87 12 59.01
Drainage: 4811.4725 Site Number: 24T-013

SiteID: WWL-08-0016 Sample Date: 8/26/2024 IDEM Sample #: AC41406
Water Flow Type Run Water Appearance Murky Water Depth ☐Algae?
Water Flow (cf/sec): ☐Flow Estimated? ☐Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	183	%		ASTM D888-09(C)
DO	14.06	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	722	umho/cm		SM2510B
Temperature	29	°C		SM2550B(2)
Turbidity (Hach)	24.4	NTU		180.1
pH (Field)	8.53	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50381194003	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	168	mg/L	10	SM2320B
Chloride	79.6	mg/L	2.5	300.0
Hardness (as CaCO3)	227	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	38.2	mg/L	5	SM2540D
Solids, Total (TS)	414	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	382	mg/L	10	SM2540C
Sulfate	71.3	mg/L	2.5	300.0
Calcium	53500	ug/L	1000	200.7
Magnesium	22800	ug/L	1000	200.7
COD	32	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.36	mg/L	0.1	353.2
Phosphorus, Total	.11	mg/L	0.05	365.1
TKN	1.4	mg/L	0.5	351.2
TOC	3.6	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41406		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		< 1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016

Sample Date: 9/3/2024

IDEM Sample #: AC41424

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	119.6	%		ASTM D888-09(C)
DO	10.06	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	926	umho/cm		SM2510B
Temperature	23.9	°C		SM2550B(2)
Turbidity (Hach)	64.4	NTU		180.1
pH (Field)	8.24	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41424	Result		Reporting Limit	Method
Coliforms (Total)	105.4	MPN/100mL	1	SM9223B
E. coli	22.6	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016

Sample Date: 9/10/2024

IDEM Sample #: AC41442

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	153.1	%		ASTM D888-09(C)
DO	13.01	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	765	umho/cm		SM2510B
Temperature	23.4	°C		SM2550B(2)
Turbidity (Hach)	44.1	NTU		180.1
pH (Field)	8.39	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41442	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	5.2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016

Sample Date: 9/17/2024

IDEM Sample #: AC41460

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	154.2	%		ASTM D888-09(C)
DO	12.44	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	924	umho/cm		SM2510B
Temperature	26.2	°C		SM2550B(2)
Turbidity (Hach)	23.7	NTU		180.1
pH (Field)	8.5	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41460	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	< 1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016

Sample Date: 9/23/2024

IDEM Sample #: AC41478

Water Flow Type Run

Water Appearance Brown

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	123.1 %		ASTM D888-09(C)
DO	10.3 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	950 umho/cm		SM2510B
Temperature	23.7 °C		SM2550B(2)
Turbidity (Hach)	19.8 NTU		180.1
pH (Field)	7.87 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	206 mg/L	10	SM2320B
Chloride	128 mg/L	2.5	300.0
Hardness (as CaCO3)	265 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	30.2 mg/L	5	SM2540D
Solids, Total (TS)	580 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	549 mg/L	10	SM2540C
Sulfate	123 mg/L	2.5	300.0
Calcium	62300 ug/L	1000	200.7
Magnesium	26600 ug/L	1000	200.7
COD	21.7 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.56 mg/L	0.1	353.2
Phosphorus, Total	.11 mg/L	0.05	365.1
TKN	1.2 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC41478	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	24.1 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0016

Sample Date: 10/14/2024

IDEM Sample #: AC42027

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	156.3 %		ASTM D888-09(C)
DO	14.46 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	774 umho/cm		SM2510B
Temperature	19 °C		SM2550B(2)
Turbidity (Hach)	19.7 NTU		180.1
pH (Field)	8.53 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	185 mg/L	10	SM2320B
Chloride	94.3 mg/L	2.5	300.0
Hardness (as CaCO3)	227 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	16.4 mg/L	5	SM2540D
Solids, Total (TS)	474 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	415 mg/L	10	SM2540C
Sulfate	78.7 mg/L	2.5	300.0
Calcium	53300 ug/L	1000	200.7
Magnesium	22800 ug/L	1000	200.7
COD	28.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.11 mg/L	0.1	353.2
Phosphorus, Total	.11 mg/L	0.05	365.1
TKN	.89 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC42027	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	9.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017 USGS Hydrologic Unit: 051202020803
Stream Name: Pollard Ditch County: Knox
Description: Unnamed Farm Lane Latitude: 38 49 5.49 Longitude: -87 14 32.42
Drainage: 25.767 Site Number: 24T-014

SiteID: WWL-08-0017 Sample Date: 8/26/2024 IDEM Sample #: AC41405
Water Flow Type Run Water Appearance Clear Water Depth ☐Algae?
Water Flow (cf/sec): ☐Flow Estimated? ☐Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	107.3	%		ASTM D888-09(C)
DO	8.94	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1607	umho/cm		SM2510B
Temperature	24.3	°C		SM2550B(2)
Turbidity (Hach)	8.03	NTU		180.1
pH (Field)	7.78	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50381194002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	282	mg/L	10	SM2320B
Chloride	86	mg/L	2.5	300.0
Hardness (as CaCO3)	620	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8	mg/L	2.5	SM2540D
Solids, Total (TS)	1220	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1150	mg/L	20	SM2540C
Sulfate	74.5	mg/L	2.5	300.0
Calcium	121000	ug/L	1000	200.7
Magnesium	77300	ug/L	1000	200.7
COD	10.7	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.33	mg/L	0.1	353.2
Phosphorus, Total	.13	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	2.3	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41405		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		101.7	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017

Sample Date: 9/2/2024

IDEM Sample #: AC41423

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
	% Sat	77.1 %		ASTM D888-09(C)
	DO	6.78 mg/L		ASTM D888-09(C)
	Specific Conductance (Field)	1718 umho/cm		SM2510B
	Temperature	21.4 °C		SM2550B(2)
	Turbidity (Hach)	9.54 NTU		180.1
	pH (Field)	7.79 SU		150.2
	Air Temp	5 Lookup		Observation
	Sky Conditions	2 Lookup		Observation
	Wind Direction	27 Lookup		Observation
	Wind Strength	1 Lookup		Observation
Lab ID #: AC41423	Result		Reporting Limit	Method
	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	42 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017

Sample Date: 9/10/2024

IDEM Sample #: AC41441

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	92	%		ASTM D888-09(C)
DO	8.94	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1571	umho/cm		SM2510B
Temperature	16.5	°C		SM2550B(2)
Turbidity (Hach)	10.6	NTU		180.1
pH (Field)	7.84	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41441	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	83.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017

Sample Date: 9/17/2024

IDEM Sample #: AC41459

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	70.4	%		ASTM D888-09(C)
DO	6.27	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1837	umho/cm		SM2510B
Temperature	20.8	°C		SM2550B(2)
Turbidity (Hach)	11.5	NTU		180.1
pH (Field)	7.75	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41459	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	42.6	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017

Sample Date: 9/23/2024

IDEM Sample #: AC41477

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	64.3 %		ASTM D888-09(C)
DO	5.67 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1690 umho/cm		SM2510B
Temperature	21.3 °C		SM2550B(2)
Turbidity (Hach)	23.5 NTU		180.1
pH (Field)	7.12 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292002	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	294 mg/L	10	SM2320B
Chloride	19.1 mg/L	0.25	300.0
Hardness (as CaCO3)	707 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.2 mg/L	2.5	SM2540D
Solids, Total (TS)	1370 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1310 mg/L	20	SM2540C
Sulfate	687 mg/L	25	300.0
Calcium	134000 ug/L	1000	200.7
Magnesium	90800 ug/L	1000	200.7
COD	13.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.22 mg/L	0.1	353.2
Phosphorus, Total	.1 mg/L	0.05	365.1
TKN	.55 mg/L	0.5	351.2
TOC	2.8 mg/L	1	SM5310C

Lab ID #: AC41477	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	648.8 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0017

Sample Date: 10/14/2024

IDEM Sample #: AC42026

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	99.2	%		ASTM D888-09(C)
DO	9.99	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1772	umho/cm		SM2510B
Temperature	14.8	°C		SM2550B(2)
Turbidity (Hach)	7.3	NTU		180.1
pH (Field)	8.02	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50385159002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	302	mg/L	10	SM2320B
Chloride	18.4	mg/L	0.25	300.0
Hardness (as CaCO3)	715	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	1500	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1430	mg/L	20	SM2540C
Sulfate	720	mg/L	25	300.0
Calcium	135000	ug/L	1000	200.7
Magnesium	92000	ug/L	1000	200.7
COD	15.7	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.16	mg/L	0.1	353.2
Phosphorus, Total	.17	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	2.8	mg/L	1	SM5310C

Lab ID #: AC42026	Result		Reporting Limit	Method
Coliforms (Total)	1553.1	MPN/100mL	1	SM9223B
E. coli	32.7	MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018 **USGS Hydrologic Unit:** 051202020802
Stream Name: Purdy-Marsh Ditch **County:** Knox
Description: Snyder Road **Latitude:** 38 47 14.98 **Longitude:** -87 16 20.63
Drainage: 8.551 **Site Number:** 24T-010

SiteID: WWL-08-0018 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41403
Water Flow Type Eddy **Water Appearance** Murky **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	101.3 %		ASTM D888-09(C)
DO	7.9 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1212 umho/cm		SM2510B
Temperature	28.1 °C		SM2550B(2)
Turbidity (Hach)	7.68 NTU		180.1
pH (Field)	7.56 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50381194015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	209 mg/L	10	SM2320B
Chloride	14.1 mg/L	0.25	300.0
Hardness (as CaCO3)	674 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.4 mg/L	2.5	SM2540D
Solids, Total (TS)	993 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	945 mg/L	10	SM2540C
Sulfate	461 mg/L	25	300.0
Calcium	176000 ug/L	1000	200.7
Magnesium	57000 ug/L	1000	200.7
COD	13.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	.051 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.9 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41403		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
E. coli		123.6	MPN/100mL	1	SM9223B
Lab ID #: AC41403b		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		7430	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018

Sample Date: 9/2/2024

IDEM Sample #: AC41421

Water Flow Type Riffle

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
	% Sat	105.6	%	ASTM D888-09(C)
	DO	8.74	mg/L	ASTM D888-09(C)
	Specific Conductance (Field)	1192	umho/cm	SM2510B
	Temperature	24.7	°C	SM2550B(2)
	Turbidity (Hach)	6.25	NTU	180.1
	pH (Field)	7.68	SU	150.2
	Air Temp	5	Lookup	Observation
	Sky Conditions	2	Lookup	Observation
	Wind Direction	27	Lookup	Observation
	Wind Strength	1	Lookup	Observation
Lab ID #: AC41421	Result		Reporting Limit	Method
	Coliforms (Total)	> 2419.6	MPN/100mL 2419.6	SM9223B
	E. coli	37.9	MPN/100mL 1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018

Sample Date: 9/9/2024

IDEM Sample #: AC41439

Water Flow Type Riffle

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	106.6	%		ASTM D888-09(C)
DO	9.65	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1090	umho/cm		SM2510B
Temperature	20.1	°C		SM2550B(2)
Turbidity (Hach)	24	NTU		180.1
pH (Field)	7.51	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41439	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	163.1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018

Sample Date: 9/16/2024

IDEM Sample #: AC41457

Water Flow Type Riffle

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	108.8	%		ASTM D888-09(C)
DO	9.1	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1230	umho/cm		SM2510B
Temperature	24.1	°C		SM2550B(2)
Turbidity (Hach)	11.2	NTU		180.1
pH (Field)	7.67	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41457	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	31.1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018

Sample Date: 9/24/2024

IDEM Sample #: AC41475

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	70.8 %		ASTM D888-09(C)
DO	6.14 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1145 umho/cm		SM2510B
Temperature	22.3 °C		SM2550B(2)
Turbidity (Hach)	21.3 NTU		180.1
pH (Field)	7.56 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50383292015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	201 mg/L	10	SM2320B
Chloride	12.8 mg/L	0.25	300.0
Hardness (as CaCO3)	664 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	13.2 mg/L	2.5	SM2540D
Solids, Total (TS)	943 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	875 mg/L	10	SM2540C
Sulfate	440 mg/L	25	300.0
Calcium	180000 ug/L	1000	200.7
Magnesium	52200 ug/L	1000	200.7
COD	12 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.9 mg/L	1	SM5310C

Lab ID #: AC41475	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	248.1 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0018

Sample Date: 10/15/2024

IDEM Sample #: AC42024

Water Flow Type Glide

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	95.8 %		ASTM D888-09(C)
DO	9.65 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1098 umho/cm		SM2510B
Temperature	14.9 °C		SM2550B(2)
Turbidity (Hach)	13 NTU		180.1
pH (Field)	7.83 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	211 mg/L	10	SM2320B
Chloride	14 mg/L	0.25	300.0
Hardness (as CaCO3)	596 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.9 mg/L	2.5	SM2540D
Solids, Total (TS)	874 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	838 mg/L	10	SM2540C
Sulfate	430 mg/L	2.5	300.0
Calcium	159000 ug/L	1000	200.7
Magnesium	48600 ug/L	1000	200.7
COD	10.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.14 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.6 mg/L	1	SM5310C

Lab ID #: AC42024	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	53.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019 **USGS Hydrologic Unit:** 051202020801
Stream Name: Pollard Ditch **County:** Knox
Description: SR 58 **Latitude:** 38 52 1.81 **Longitude:** -87 15 8.01
Drainage: 17.717 **Site Number:** 24T-016

SiteID: WWL-08-0019 **Sample Date:** 8/26/2024 **IDEM Sample #:** AC41408
Water Flow Type Run **Water Appearance** Clear **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	148.4	%		ASTM D888-09(C)
DO	11.43	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2791	umho/cm		SM2510B
Temperature	28.5	°C		SM2550B(2)
Turbidity (Hach)	9.63	NTU		180.1
pH (Field)	8.11	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50381194005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	348	mg/L	10	SM2320B
Chloride	19.1	mg/L	0.25	300.0
Hardness (as CaCO3)	1080	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.2	mg/L	5	SM2540D
Solids, Total (TS)	2360	mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2190	mg/L	40	SM2540C
Sulfate	1380	mg/L	25	300.0
Calcium	180000	ug/L	1000	200.7
Magnesium	154000	ug/L	1000	200.7
COD	12.2	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.094	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	2.9	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41408		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		16	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019

Sample Date: 9/2/2024

IDEM Sample #: AC41426

Water Flow Type Run

Water Appearance Green

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	162.3	%		ASTM D888-09(C)
DO	13.31	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	3027	umho/cm		SM2510B
Temperature	24.9	°C		SM2550B(2)
Turbidity (Hach)	5.67	NTU		180.1
pH (Field)	8.18	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID #: AC41426	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	20.6	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019

Sample Date: 9/9/2024

IDEM Sample #: AC41444

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	124	%		ASTM D888-09(C)
DO	11.86	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2887	umho/cm		SM2510B
Temperature	17.1	°C		SM2550B(2)
Turbidity (Hach)	5.83	NTU		180.1
pH (Field)	8.16	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41444	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	14.5	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019

Sample Date: 9/16/2024

IDEM Sample #: AC41462

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	117.5	%		ASTM D888-09(C)
DO	9.87	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2753	umho/cm		SM2510B
Temperature	23.7	°C		SM2550B(2)
Turbidity (Hach)	86.85	NTU		180.1
pH (Field)	8.07	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41462	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	9.7	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019

Sample Date: 9/23/2024

IDEM Sample #: AC41480

Water Flow Type Run

Water Appearance Brown

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	89.5	%		ASTM D888-09(C)
DO	7.75	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2772	umho/cm		SM2510B
Temperature	22	°C		SM2550B(2)
Turbidity (Hach)	7.12	NTU		180.1
pH (Field)	7.77	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	8	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50383292005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	372	mg/L	10	SM2320B
Chloride	22.3	mg/L	0.25	300.0
Hardness (as CaCO3)	1080	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.4	mg/L	2.5	SM2540D
Solids, Total (TS)	2260	mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2110	mg/L	40	SM2540C
Sulfate	1300	mg/L	25	300.0
Calcium	184000	ug/L	1000	200.7
Magnesium	151000	ug/L	1000	200.7
COD	14.5	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.079	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.5	mg/L	1	SM5310C

Lab ID #: AC41480	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	517.2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0019

Sample Date: 10/14/2024

IDEM Sample #: AC42029

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	127.8 %		ASTM D888-09(C)
DO	12.51 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2696 umho/cm		SM2510B
Temperature	16 °C		SM2550B(2)
Turbidity (Hach)	6.38 NTU		180.1
pH (Field)	8.27 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	367 mg/L	10	SM2320B
Chloride	18.5 mg/L	0.25	300.0
Hardness (as CaCO3)	1040 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	2280 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	2280 mg/L	20	SM2540C
Sulfate	1260 mg/L	25	300.0
Calcium	178000 ug/L	1000	200.7
Magnesium	145000 ug/L	1000	200.7
COD	16.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3.1 mg/L	1	SM5310C

Lab ID #: AC42029	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	28.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020 **USGS Hydrologic Unit:** 051202020801
Stream Name: Pollard Ditch **County:** Knox
Description: County Line Road **Latitude:** 38 54 6.06 **Longitude:** -87 15 45.32
Drainage: 4.683 **Site Number:** 24T-017

SiteID: WWL-08-0020 **Sample Date:** 8/27/2024 **IDEM Sample #:** AC41409
Water Flow Type Run **Water Appearance** Clear **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	154.2	%		ASTM D888-09(C)
DO	11.49	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2859	umho/cm		SM2510B
Temperature	30.3	°C		SM2550B(2)
Turbidity (Hach)	1.97	NTU		180.1
pH (Field)	7.86	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50381194006	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	397	mg/L	10	SM2320B
Chloride	15	mg/L	0.25	300.0
Hardness (as CaCO3)	1150	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	2300	mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2230	mg/L	40	SM2540C
Sulfate	1250	mg/L	25	300.0
Calcium	196000	ug/L	1000	200.7
Magnesium	161000	ug/L	1000	200.7
COD	10.8	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.05	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	2.4	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41409		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		59.1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020

Sample Date: 9/2/2024

IDEM Sample #: AC41427

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	151	%		ASTM D888-09(C)
DO	12.23	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2898	umho/cm		SM2510B
Temperature	25.6	°C		SM2550B(2)
Turbidity (Hach)	3.9	NTU		180.1
pH (Field)	8.01	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41427	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	93.4	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020

Sample Date: 9/9/2024

IDEM Sample #: AC41445

Water Flow Type Glide

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	129.2	%		ASTM D888-09(C)
DO	11.8	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	3088	umho/cm		SM2510B
Temperature	19.3	°C		SM2550B(2)
Turbidity (Hach)	4.23	NTU		180.1
pH (Field)	8.04	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41445	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	38.9	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020

Sample Date: 9/16/2024

IDEM Sample #: AC41463

Water Flow Type Glide

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	147.4	%		ASTM D888-09(C)
DO	12.15	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2979	umho/cm		SM2510B
Temperature	24.7	°C		SM2550B(2)
Turbidity (Hach)	7.43	NTU		180.1
pH (Field)	8.02	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41463	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	90.5	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020

Sample Date: 9/23/2024

IDEM Sample #: AC41481

Water Flow Type Glide

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	93.6 %		ASTM D888-09(C)
DO	8.1 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2844 umho/cm		SM2510B
Temperature	22.1 °C		SM2550B(2)
Turbidity (Hach)	10.8 NTU		180.1
pH (Field)	8 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	408 mg/L	10	SM2320B
Chloride	19.1 mg/L	0.25	300.0
Hardness (as CaCO3)	1120 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.6 mg/L	2.5	SM2540D
Solids, Total (TS)	2330 mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2150 mg/L	40	SM2540C
Sulfate	1270 mg/L	25	300.0
Calcium	195000 ug/L	1000	200.7
Magnesium	154000 ug/L	1000	200.7
COD	14.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.52 mg/L	0.5	351.2
TOC	3.3 mg/L	1	SM5310C

Lab ID #: AC41481	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1732.9 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0020

Sample Date: 10/14/2024

IDEM Sample #: AC42030

Water Flow Type Glide

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	129.6 %		ASTM D888-09(C)
DO	12.53 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2816 umho/cm		SM2510B
Temperature	16.5 °C		SM2550B(2)
Turbidity (Hach)	6.18 NTU		180.1
pH (Field)	8.09 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	420 mg/L	10	SM2320B
Chloride	16.2 mg/L	0.25	300.0
Hardness (as CaCO3)	1160 mg/L	50	SM2340B
Solids, Suspended Total, (TSS)	< 5 mg/L	5	SM2540D
Solids, Total (TS)	2550 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	2330 mg/L	20	SM2540C
Sulfate	1300 mg/L	25	300.0
Calcium	208000 ug/L	5000	200.7
Magnesium	156000 ug/L	1000	200.7
COD	13.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.1 mg/L	1	SM5310C

Lab ID #: AC42030	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	16.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021 USGS Hydrologic Unit: 051202020804
Stream Name: Bens Creek County: Knox
Description: Apraw Road Latitude: 38 41 49.41 Longitude: -87 16 58.92
Drainage: 4.0925 Site Number: 24T-003

SiteID: WWL-08-0021 Sample Date: 8/27/2024 IDEM Sample #: AC41398
Water Flow Type Run Water Appearance Murky Water Depth ☐ Algae?
Water Flow (cf/sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	94.3	%		ASTM D888-09(C)
DO	7.85	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2263	umho/cm		SM2510B
Temperature	24.2	°C		SM2550B(2)
Turbidity (Hach)	5.27	NTU		180.1
pH (Field)	7.77	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50381194010	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	306	mg/L	10	SM2320B
Chloride	24.1	mg/L	2.5	300.0
Hardness (as CaCO3)	889	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.2	mg/L	5	SM2540D
Solids, Total (TS)	1930	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1780	mg/L	20	SM2540C
Sulfate	1010	mg/L	25	300.0
Calcium	172000	ug/L	1000	200.7
Magnesium	111000	ug/L	1000	200.7
COD	12.2	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.074	mg/L	0.05	365.1
TKN	.56	mg/L	0.5	351.2
TOC	3.6	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41398		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
E. coli		142.1	MPN/100mL	1	SM9223B
Lab ID #: AC41398b		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		10540	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021

Sample Date: 9/2/2024

IDEM Sample #: AC41416

Water Flow Type Pool

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	43.7	%		ASTM D888-09(C)
DO	3.97	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2076	umho/cm		SM2510B
Temperature	19.7	°C		SM2550B(2)
Turbidity (Hach)	6.86	NTU		180.1
pH (Field)	7.05	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41416	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	47.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021

Sample Date: 9/9/2024

IDEM Sample #: AC41434

Water Flow Type Run

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	82.3	%		ASTM D888-09(C)
DO	8.48	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2298	umho/cm		SM2510B
Temperature	13.7	°C		SM2550B(2)
Turbidity (Hach)	5.2	NTU		180.1
pH (Field)	7.92	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41434	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	22.8	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021

Sample Date: 9/16/2024

IDEM Sample #: AC41452

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	71.1	%		ASTM D888-09(C)
DO	6.4	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2581	umho/cm		SM2510B
Temperature	20.1	°C		SM2550B(2)
Turbidity (Hach)	9.73	NTU		180.1
pH (Field)	7.77	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID #: AC41452	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	83.9	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021

Sample Date: 9/24/2024

IDEM Sample #: AC41470

Water Flow Type Flood

Water Appearance Murky

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	59.1 %		ASTM D888-09(C)
DO	5.26 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1290 umho/cm		SM2510B
Temperature	21.1 °C		SM2550B(2)
Turbidity (Hach)	87.8 NTU		180.1
pH (Field)	7.51 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50383292010	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	157 mg/L	10	SM2320B
Chloride	12.9 mg/L	0.25	300.0
Hardness (as CaCO3)	461 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	49.7 mg/L	7.1	SM2540D
Solids, Total (TS)	1080 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	933 mg/L	10	SM2540C
Sulfate	512 mg/L	25	300.0
Calcium	93500 ug/L	1000	200.7
Magnesium	55400 ug/L	1000	200.7
COD	80.6 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2 mg/L	0.1	353.2
Phosphorus, Total	.44 mg/L	0.05	365.1
TKN	3.2 mg/L	0.5	351.2
TOC	27.6 mg/L	4	SM5310C

Lab ID #: AC41470b	Result	Reporting Limit	Method
Coliforms (Total)	> 241960 MPN/100mL	241960	SM9223B
E. coli	34480 MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0021

Sample Date: 10/15/2024

IDEM Sample #: AC42019

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	69	%		ASTM D888-09(C)
DO	7.49	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2461	umho/cm		SM2510B
Temperature	11.3	°C		SM2550B(2)
Turbidity (Hach)	6.82	NTU		180.1
pH (Field)	7.97	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50385159010	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	316	mg/L	10	SM2320B
Chloride	21.6	mg/L	2.5	300.0
Hardness (as CaCO ₃)	1040	mg/L	50	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	2100	mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2020	mg/L	40	SM2540C
Sulfate	1170	mg/L	25	300.0
Calcium	206000	ug/L	5000	200.7
Magnesium	128000	ug/L	1000	200.7
COD	17.3	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.057	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	4.5	mg/L	1	SM5310C

Lab ID #: AC42019	Result		Reporting Limit	Method
Coliforms (Total)	454.1	MPN/100mL	1	SM9223B
E. coli	88.4	MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022 USGS Hydrologic Unit: 051202020804
Stream Name: Nimnicht Creek County: Knox
Description: Nimnicht Road Latitude: 38 40 0.12 Longitude: -87 16 45.38
Drainage: 1.176 Site Number: 24T-018

SiteID: WWL-08-0022 Sample Date: 8/27/2024 IDEM Sample #: AC41411
Water Flow Type Pool Water Appearance Clear Water Depth ☐Algae?
Water Flow (cf/sec): ☐Flow Estimated? ☐Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	81.6	%		ASTM D888-09(C)
DO	7.01	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	972	umho/cm		SM2510B
Temperature	22.8	°C		SM2550B(2)
Turbidity (Hach)	4.63	NTU		180.1
pH (Field)	5.01	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50381194008	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	< 10	mg/L	10	SM2320B
Chloride	25.7	mg/L	2.5	300.0
Hardness (as CaCO3)	446	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	812	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	760	mg/L	10	SM2540C
Sulfate	478	mg/L	25	300.0
Calcium	117000	ug/L	1000	200.7
Magnesium	37000	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	.25	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.33	mg/L	0.1	353.2
Phosphorus, Total	.072	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	1.2	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41411		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
E. coli		14.8	MPN/100mL	1	SM9223B
Lab ID #: AC41411b		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		4350	MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022

Sample Date: 9/2/2024

IDEM Sample #: AC41429

Water Flow Type Pool

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	79.6	%		ASTM D888-09(C)
DO	7.09	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	985	umho/cm		SM2510B
Temperature	20.9	°C		SM2550B(2)
Turbidity (Hach)	7.94	NTU		180.1
pH (Field)	4.71	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41429	Result		Reporting Limit	Method
Coliforms (Total)	1986.3	MPN/100mL	1	SM9223B
E. coli	7.2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022

Sample Date: 9/9/2024

IDEM Sample #: AC41447

Water Flow Type Run

Water Appearance Clear

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	72.7	%		ASTM D888-09(C)
DO	7.39	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1044	umho/cm		SM2510B
Temperature	14.5	°C		SM2550B(2)
Turbidity (Hach)	7.19	NTU		180.1
pH (Field)	5.2	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41447	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	6.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022

Sample Date: 9/16/2024

IDEM Sample #: AC41465

Water Flow Type Pool

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	79.3	%		ASTM D888-09(C)
DO	7.22	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	834	umho/cm		SM2510B
Temperature	19.8	°C		SM2550B(2)
Turbidity (Hach)	8.39	NTU		180.1
pH (Field)	4.97	SU		150.2
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41465	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	10.8	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022

Sample Date: 9/24/2024

IDEM Sample #: AC41483

Water Flow Type Flood

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	82.1 %		ASTM D888-09(C)
DO	7.36 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	323.2 umho/cm		SM2510B
Temperature	20.4 °C		SM2550B(2)
Turbidity (Hach)	90.8 NTU		180.1
pH (Field)	6.46 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	25.8 mg/L	10	SM2320B
Chloride	8.5 mg/L	0.25	300.0
Hardness (as CaCO3)	126 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	54.3 mg/L	8.3	SM2540D
Solids, Total (TS)	291 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	203 mg/L	10	SM2540C
Sulfate	100 mg/L	2.5	300.0
Calcium	34500 ug/L	1000	200.7
Magnesium	9600 ug/L	1000	200.7
COD	58.7 mg/L	10	410.4
Nitrogen, Ammonia	.2 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.5 mg/L	0.1	353.2
Phosphorus, Total	.4 mg/L	0.05	365.1
TKN	2.4 mg/L	0.5	351.2
TOC	15.3 mg/L	1	SM5310C

Lab ID #: AC41483b	Result	Reporting Limit	Method
Coliforms (Total)	> 241960 MPN/100mL	241960	SM9223B
E. coli	17200 MPN/100mL	100	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL-08-0022

Sample Date: 10/15/2024

IDEM Sample #: AC42032

Water Flow Type Pool

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	76.2 %		ASTM D888-09(C)
DO	8.29 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1219 umho/cm		SM2510B
Temperature	11.4 °C		SM2550B(2)
Turbidity (Hach)	5.14 NTU		180.1
pH (Field)	4.86 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	< 10 mg/L	10	SM2320B
Chloride	23.8 mg/L	0.25	300.0
Hardness (as CaCO3)	535 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1100 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	1020 mg/L	10	SM2540C
Sulfate	659 mg/L	25	300.0
Calcium	141000 ug/L	1000	200.7
Magnesium	44800 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	.5 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.28 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.8 mg/L	0.5	351.2
TOC	2.2 mg/L	1	SM5310C

Lab ID #: AC42032	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	9.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002 USGS Hydrologic Unit: 051202020801
Stream Name: Pollard Ditch County: Knox
Description: CR 725 North Latitude: 38 49 59.74 Longitude: -87 14 5.32
Drainage: 22.253 Site Number: 24T-015

SiteID: WWL070-0002 Sample Date: 8/26/2024 IDEM Sample #: AC41407
Water Flow Type Riffle Water Appearance Clear Water Depth ☐ Algae?
Water Flow (cf/sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	89 %		ASTM D888-09(C)
DO	7.72 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1818 umho/cm		SM2510B
Temperature	22.1 °C		SM2550B(2)
Turbidity (Hach)	5.07 NTU		180.1
pH (Field)	7.76 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50381194004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	302 mg/L	10	SM2320B
Chloride	18.8 mg/L	0.25	300.0
Hardness (as CaCO3)	679 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.1 mg/L	2.5	SM2540D
Solids, Total (TS)	1420 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1400 mg/L	20	SM2540C
Sulfate	732 mg/L	25	300.0
Calcium	126000 ug/L	1000	200.7
Magnesium	88100 ug/L	1000	200.7
COD	10.9 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.13 mg/L	0.1	353.2
Phosphorus, Total	.15 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.1 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41407		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002

Sample Date: 9/2/2024

IDEM Sample #: AC41425

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	79.2	%		ASTM D888-09(C)
DO	7.18	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1872	umho/cm		SM2510B
Temperature	19.9	°C		SM2550B(2)
Turbidity (Hach)	5.67	NTU		180.1
pH (Field)	7.82	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID #: AC41425	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	91.2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002

Sample Date: 9/10/2024

IDEM Sample #: AC41443

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	82.2	%		ASTM D888-09(C)
DO	8	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1857	umho/cm		SM2510B
Temperature	16.4	°C		SM2550B(2)
Turbidity (Hach)	7.8	NTU		180.1
pH (Field)	7.81	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: AC41443	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	93.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002

Sample Date: 9/17/2024

IDEM Sample #: AC41461

Water Flow Type Run

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	67.4	%		ASTM D888-09(C)
DO	6.2	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1900	umho/cm		SM2510B
Temperature	19.1	°C		SM2550B(2)
Turbidity (Hach)	8.66	NTU		180.1
pH (Field)	7.77	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41461	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	178.5	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002

Sample Date: 9/23/2024

IDEM Sample #: AC41479

Water Flow Type Run

Water Appearance Brown

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	65.3 %		ASTM D888-09(C)
DO	5.91 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1938 umho/cm		SM2510B
Temperature	20 °C		SM2550B(2)
Turbidity (Hach)	10.9 NTU		180.1
pH (Field)	7.05 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	307 mg/L	10	SM2320B
Chloride	20.5 mg/L	0.25	300.0
Hardness (as CaCO3)	779 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.6 mg/L	2.5	SM2540D
Solids, Total (TS)	1590 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1500 mg/L	20	SM2540C
Sulfate	805 mg/L	25	300.0
Calcium	140000 ug/L	1000	200.7
Magnesium	104000 ug/L	1000	200.7
COD	11.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	.13 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.7 mg/L	1	SM5310C

Lab ID #: AC41479	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	260.3 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0002

Sample Date: 10/14/2024

IDEM Sample #: AC42028

Water Flow Type Riffle

Water Appearance Clear

Water Depth

☐Algae?

Water Flow (cf/sec):

☐Flow Estimated?

☐Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	75.5 %		ASTM D888-09(C)
DO	7.82 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1804 umho/cm		SM2510B
Temperature	13.5 °C		SM2550B(2)
Turbidity (Hach)	9.17 NTU		180.1
pH (Field)	7.87 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50385159004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	302 mg/L	10	SM2320B
Chloride	18.7 mg/L	0.25	300.0
Hardness (as CaCO3)	708 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1490 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1370 mg/L	20	SM2540C
Sulfate	706 mg/L	25	300.0
Calcium	134000 ug/L	1000	200.7
Magnesium	90700 ug/L	1000	200.7
COD	12.9 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1 mg/L	0.1	353.2
Phosphorus, Total	.067 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.7 mg/L	1	SM5310C

Lab ID #: AC42028	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	325.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003 **USGS Hydrologic Unit:** 051202020803
Stream Name: West Fork White River **County:** Daviess
Description: SR 358, Near Edwardsport **Latitude:** 38 47 42.17 **Longitude:** -87 14 30.72
Drainage: 4977.395 **Site Number:** 24T-011

SiteID: WWL070-0003 **Sample Date:** 8/26/2024 **IDEM Sample #:** AC41396
Water Flow Type Eddy **Water Appearance** Green **Water Depth** ☐ **Algae?**
Water Flow (cf/sec): ☐ **Flow Estimated?** ☐ **Aquatic Life?** **Canopy Closed %** 0-20%
Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	121	%		ASTM D888-09(C)
DO	9.77	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	723	umho/cm		SM2510B
Temperature	26.2	°C		SM2550B(2)
Turbidity (Hach)	25.2	NTU		180.1
pH (Field)	8.02	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50381194018	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	179	mg/L	10	SM2320B
Chloride	87.3	mg/L	2.5	300.0
Hardness (as CaCO3)	228	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	33	mg/L	5	SM2540D
Solids, Total (TS)	439	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390	mg/L	10	SM2540C
Sulfate	78.9	mg/L	2.5	300.0
Calcium	54000	ug/L	1000	200.7
Magnesium	22600	ug/L	1000	200.7
COD	30.3	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.34	mg/L	0.1	353.2
Phosphorus, Total	.051	mg/L	0.05	365.1
TKN	1.4	mg/L	0.5	351.2
TOC	3.4	mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

Lab ID #: AC41396		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		4.1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003

Sample Date: 9/2/2024

IDEM Sample #: AC41414

Water Flow Type Run

Water Appearance Green

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	130	%		ASTM D888-09(C)
DO	10.66	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	849	umho/cm		SM2510B
Temperature	25.3	°C		SM2550B(2)
Turbidity (Hach)	27.9	NTU		180.1
pH (Field)	8.26	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41414	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	15.3	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003

Sample Date: 9/9/2024

IDEM Sample #: AC41432

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	134.5	%		ASTM D888-09(C)
DO	12.06	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	790	umho/cm		SM2510B
Temperature	20.6	°C		SM2550B(2)
Turbidity (Hach)	33.7	NTU		180.1
pH (Field)	8.32	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41432	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	1	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003

Sample Date: 9/16/2024

IDEM Sample #: AC41450

Water Flow Type Run

Water Appearance Murky

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	113.8	%		ASTM D888-09(C)
DO	9.5	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	906	umho/cm		SM2510B
Temperature	24.4	°C		SM2550B(2)
Turbidity (Hach)	32.2	NTU		180.1
pH (Field)	8.23	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: AC41450	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	2	MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003

Sample Date: 9/23/2024

IDEM Sample #: AC41468

Water Flow Type Run

Water Appearance Brown

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.9 %		ASTM D888-09(C)
DO	8.15 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	972 umho/cm		SM2510B
Temperature	23.9 °C		SM2550B(2)
Turbidity (Hach)	26.6 NTU		180.1
pH (Field)	8.06 SU		150.2
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50383292018	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	206 mg/L	10	SM2320B
Chloride	128 mg/L	2.5	300.0
Hardness (as CaCO3)	269 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	28.4 mg/L	5	SM2540D
Solids, Total (TS)	595 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	557 mg/L	10	SM2540C
Sulfate	120 mg/L	2.5	300.0
Calcium	62600 ug/L	1000	200.7
Magnesium	27400 ug/L	1000	200.7
COD	20.9 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.56 mg/L	0.1	353.2
Phosphorus, Total	.14 mg/L	0.05	365.1
TKN	1.3 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC41468	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	7.4 MPN/100mL	1	SM9223B

Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary

SiteID: WWL070-0003

Sample Date: 10/14/2024

IDEM Sample #: AC42017

Water Flow Type Run

Water Appearance Green

Water Depth

☐ Algae?

Water Flow (cf/sec):

☐ Flow Estimated?

☐ Aquatic Life?

Canopy Closed % 0-20%

Sample Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	106.9	%		ASTM D888-09(C)
DO	10.44	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	803	umho/cm		SM2510B
Temperature	16.4	°C		SM2550B(2)
Turbidity (Hach)	26.5	NTU		180.1
pH (Field)	8.26	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50385159018	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	181	mg/L	10	SM2320B
Chloride	94.8	mg/L	2.5	300.0
Hardness (as CaCO ₃)	225	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	33.3	mg/L	8.3	SM2540D
Solids, Total (TS)	508	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	446	mg/L	10	SM2540C
Sulfate	82	mg/L	2.5	300.0
Calcium	52900	ug/L	1000	200.7
Magnesium	22600	ug/L	1000	200.7
COD	22.5	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	< .1	mg/L	0.1	353.2
Phosphorus, Total	.14	mg/L	0.05	365.1
TKN	.58	mg/L	0.5	351.2
TOC	3.2	mg/L	1	SM5310C

Lab ID #: AC42017	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	14.2	MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	