

# 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:** 5/21/2024      **IDEM Sample #:** AC40147  
**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	61.1 %		ASTM D888-09(C)
DO	5.25 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	396.7 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	20 NTU		180.1
pH (Field)	7.59 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 #: 50373909008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	138 mg/L	10	SM2320B
Chloride	23.5 mg/L	2.5	300.0
Hardness (as CaCO3)	163 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.5 mg/L	3.4	SM2540D
Solids, Total (TS)	257 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	204 mg/L	10	SM2540C
Sulfate	26.6 mg/L	0.25	300.0
Calcium	45400 ug/L	1000	200.7
Magnesium	12000 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	2.6 mg/L	0.1	353.2
Phosphorus, Total	.15 mg/L	0.05	365.1
TKN	.83 mg/L	0.5	351.2
TOC	5.3 mg/L	1	SM5310C

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

Lab ID #: AC40147		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		198.9	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0008

Sample Date: 6/18/2024

IDEM Sample #: AC40558

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	102.2	%		ASTM D888-09(C)
DO	8.19	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	686	umho/cm		SM2510B
Temperature	26.6	°C		SM2550B(2)
Turbidity (Hach)	28.9	NTU		180.1
pH (Field)	8.07	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243011	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	306	mg/L	10	SM2320B
Chloride	22.7	mg/L	2.5	300.0
Hardness (as CaCO3)	549	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.4	mg/L	5	SM2540D
Solids, Total (TS)	1080	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1040	mg/L	20	SM2540C
Sulfate	519	mg/L	25	300.0
Calcium	114000	ug/L	1000	200.7
Magnesium	64400	ug/L	1000	200.7
COD	22.7	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.66	mg/L	0.1	353.2
Phosphorus, Total	.16	mg/L	0.05	365.1
TKN	1.2	mg/L	0.5	351.2
TOC	4.3	mg/L	1	SM5310C

Lab ID #: AC40558	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	51.2	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0008

Sample Date: 7/16/2024

IDEM Sample #: AC41066

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	126.5	%		ASTM D888-09(C)
DO	9.83	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	538	umho/cm		SM2510B
Temperature	28.3	°C		SM2550B(2)
Turbidity (Hach)	14.9	NTU		180.1
pH (Field)	8.29	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50378215011	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	123	mg/L	10	SM2320B
Chloride	55.8	mg/L	2.5	300.0
Hardness (as CaCO3)	162	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.3	mg/L	2.9	SM2540D
Solids, Total (TS)	331	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	290	mg/L	10	SM2540C
Sulfate	60.7	mg/L	2.5	300.0
Calcium	38400	ug/L	1000	200.7
Magnesium	16100	ug/L	1000	200.7
COD	22.6	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	1.3	mg/L	0.5	351.2
TOC	5.1	mg/L	1	SM5310C

Lab ID #: AC41066	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	43.9	MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/21/2024      **IDEM Sample #:** AC40149  
**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	69.4	%		ASTM D888-09(C)
DO	5.95	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	408.2	umho/cm		SM2510B
Temperature	23	°C		SM2550B(2)
Turbidity (Hach)	47.8	NTU		180.1
pH (Field)	7.63	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 #: 50373909006	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	140	mg/L	10	SM2320B
Chloride	24.8	mg/L	2.5	300.0
Hardness (as CaCO3)	169	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	36.3	mg/L	3.6	SM2540D
Solids, Total (TS)	289	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	197	mg/L	10	SM2540C
Sulfate	28.6	mg/L	0.25	300.0
Calcium	46900	ug/L	1000	200.7
Magnesium	12600	ug/L	1000	200.7
COD	21.6	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.6	mg/L	0.1	353.2
Phosphorus, Total	.2	mg/L	0.05	365.1
TKN	1	mg/L	0.5	351.2
TOC	5.5	mg/L	1	SM5310C

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

Lab ID #: AC40149		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		145.5	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0009

Sample Date: 6/18/2024

IDEM Sample #: AC40560

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 %		ASTM D888-09(C)
DO	7.51 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	686 umho/cm		SM2510B
Temperature	26.8 °C		SM2550B(2)
Turbidity (Hach)	24.4 NTU		180.1
pH (Field)	7.99 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	218 mg/L	10	SM2320B
Chloride	61.4 mg/L	2.5	300.0
Hardness (as CaCO3)	267 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	41.6 mg/L	5	SM2540D
Solids, Total (TS)	386 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	355 mg/L	10	SM2540C
Sulfate	58.2 mg/L	2.5	300.0
Calcium	66100 ug/L	1000	200.7
Magnesium	24800 ug/L	1000	200.7
COD	24.4 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.72 mg/L	0.1	353.2
Phosphorus, Total	.11 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AC40560	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	59.4 MPN/100mL	1	SM9223B



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

SiteID: WWL-08-0009

Sample Date: 7/16/2024

IDEM Sample #: AC41064

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	121.7	%		ASTM D888-09(C)
DO	9.38	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	536	umho/cm		SM2510B
Temperature	28.8	°C		SM2550B(2)
Turbidity (Hach)	13.4	NTU		180.1
pH (Field)	8.23	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50378215009	Result		Reporting Limit	Method
Alkalinity (as CaCO <sub>3</sub> )	120	mg/L	10	SM2320B
Chloride	60.8	mg/L	2.5	300.0
Hardness (as CaCO <sub>3</sub> )	152	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.8	mg/L	4.2	SM2540D
Solids, Total (TS)	315	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	286	mg/L	10	SM2540C
Sulfate	53.8	mg/L	2.5	300.0
Calcium	36100	ug/L	1000	200.7
Magnesium	15000	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	.13	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	3.9	mg/L	1	SM5310C

Lab ID #: AC41064	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	16.6	MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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-08-0010      **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:** 5/20/2024      **IDEM Sample #:** AC40157  
**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	63.7 %		ASTM D888-09(C)
DO	5.6 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	367.4 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	49.4 NTU		180.1
pH (Field)	7.37 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50373909004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	129 mg/L	10	SM2320B
Chloride	21.9 mg/L	2.5	300.0
Hardness (as CaCO3)	157 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	74.9 mg/L	4	SM2540D
Solids, Total (TS)	303 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	210 mg/L	10	SM2540C
Sulfate	22.1 mg/L	0.25	300.0
Calcium	43600 ug/L	1000	200.7
Magnesium	11600 ug/L	1000	200.7
COD	24.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.7 mg/L	0.1	353.2
Phosphorus, Total	.2 mg/L	0.05	365.1
TKN	.91 mg/L	0.5	351.2
TOC	5.4 mg/L	1	SM5310C

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

Lab ID #: AC40157		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		248.9	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0010

Sample Date: 6/18/2024

IDEM Sample #: AC40568

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	88.3 %		ASTM D888-09(C)
DO	7.12 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	688 umho/cm		SM2510B
Temperature	26.3 °C		SM2550B(2)
Turbidity (Hach)	31.3 NTU		180.1
pH (Field)	7.98 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	216 mg/L	10	SM2320B
Chloride	58.1 mg/L	2.5	300.0
Hardness (as CaCO3)	265 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	47.8 mg/L	5	SM2540D
Solids, Total (TS)	462 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	354 mg/L	10	SM2540C
Sulfate	54.4 mg/L	2.5	300.0
Calcium	66100 ug/L	1000	200.7
Magnesium	24400 ug/L	1000	200.7
COD	23.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.67 mg/L	0.1	353.2
Phosphorus, Total	.11 mg/L	0.05	365.1
TKN	.99 mg/L	0.5	351.2
TOC	3.8 mg/L	1	SM5310C

Lab ID #: AC40568	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	45 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: 7/16/2024

IDEM Sample #: AC41077

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	8.8 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	515 umho/cm		SM2510B
Temperature	28.6 °C		SM2550B(2)
Turbidity (Hach)	14.8 NTU		180.1
pH (Field)	8.13 SU		150.2
Air Temp	4 Lookup		Observation
Sky Conditions	7 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50378215007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	119 mg/L	10	SM2320B
Chloride	58 mg/L	2.5	300.0
Hardness (as CaCO3)	150 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	32 mg/L	5	SM2540D
Solids, Total (TS)	310 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	273 mg/L	10	SM2540C
Sulfate	50.1 mg/L	2.5	300.0
Calcium	35300 ug/L	1000	200.7
Magnesium	15000 ug/L	1000	200.7
COD	27.6 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	1.3 mg/L	0.5	351.2
TOC	3.8 mg/L	1	SM5310C

Lab ID #: AC41077	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	101 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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: 6/18/2024 IDEM Sample #: AC40557  
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	85.7 %		ASTM D888-09(C)
DO	7.7 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	842 umho/cm		SM2510B
Temperature	20.5 °C		SM2550B(2)
Turbidity (Hach)	6.42 NTU		180.1
pH (Field)	7.61 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	266 mg/L	10	SM2320B
Chloride	23.8 mg/L	0.25	300.0
Hardness (as CaCO3)	413 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.5 mg/L	2.5	SM2540D
Solids, Total (TS)	557 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	509 mg/L	10	SM2540C
Sulfate	191 mg/L	2.5	300.0
Calcium	107000 ug/L	1000	200.7
Magnesium	35200 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	1.3 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3.6 mg/L	1	SM5310C



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

Lab ID #: AC40557		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		613.1	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0011

Sample Date: 7/16/2024

IDEM Sample #: AC41067

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	71.3 %		ASTM D888-09(C)
DO	6.1 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	359.1 umho/cm		SM2510B
Temperature	23.1 °C		SM2550B(2)
Turbidity (Hach)	492 NTU		180.1
pH (Field)	7.33 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	89 mg/L	10	SM2320B
Chloride	26.5 mg/L	2.5	300.0
Hardness (as CaCO3)	140 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	454 mg/L	25	SM2540D
Solids, Total (TS)	704 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	229 mg/L	10	SM2540C
Sulfate	49 mg/L	0.25	300.0
Calcium	38000 ug/L	1000	200.7
Magnesium	10900 ug/L	1000	200.7
COD	37.7 mg/L	10	410.4
Nitrogen, Ammonia	.28 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.4 mg/L	0.1	353.2
Phosphorus, Total	.8 mg/L	0.05	365.1
TKN	3 mg/L	0.5	351.2
TOC	8.6 mg/L	1	SM5310C

Lab ID #: AC41067b	Result	Reporting Limit	Method
Coliforms (Total)	> 241960 MPN/100mL	241960	SM9223B
E. coli	13540 MPN/100mL	100	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/21/2024      **IDEM Sample #:** AC40145  
**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	62.8	%		ASTM D888-09(C)
DO	5.34	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	504	umho/cm		SM2510B
Temperature	23.4	°C		SM2550B(2)
Turbidity (Hach)	11.7	NTU		180.1
pH (Field)	7.29	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 #: 50373909009	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	138	mg/L	10	SM2320B
Chloride	20.1	mg/L	2.5	300.0
Hardness (as CaCO3)	206	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.9	mg/L	2.5	SM2540D
Solids, Total (TS)	321	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	275	mg/L	10	SM2540C
Sulfate	71.5	mg/L	2.5	300.0
Calcium	53000	ug/L	1000	200.7
Magnesium	18000	ug/L	1000	200.7
COD	25.1	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	3.6	mg/L	0.1	353.2
Phosphorus, Total	.14	mg/L	0.05	365.1
TKN	.97	mg/L	0.5	351.2
TOC	5.8	mg/L	1	SM5310C

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

Lab ID #: AC40145		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
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-08-0012

Sample Date: 6/18/2024

IDEM Sample #: AC40556

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	91.4 %		ASTM D888-09(C)
DO	7.87 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	986 umho/cm		SM2510B
Temperature	22.6 °C		SM2550B(2)
Turbidity (Hach)	8.43 NTU		180.1
pH (Field)	7.59 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	266 mg/L	10	SM2320B
Chloride	22.5 mg/L	0.25	300.0
Hardness (as CaCO3)	469 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.2 mg/L	2.5	SM2540D
Solids, Total (TS)	662 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	667 mg/L	10	SM2540C
Sulfate	288 mg/L	2.5	300.0
Calcium	121000 ug/L	1000	200.7
Magnesium	40400 ug/L	1000	200.7
COD	11.8 mg/L	10	410.4
Nitrogen, Ammonia	.14 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.52 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.53 mg/L	0.5	351.2
TOC	3.6 mg/L	1	SM5310C

Lab ID #: AC40556	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	770.1 MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0012

Sample Date: 7/16/2024

IDEM Sample #: AC41068

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	69.8 %		ASTM D888-09(C)
DO	6.02 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	625 umho/cm		SM2510B
Temperature	22.6 °C		SM2550B(2)
Turbidity (Hach)	69.3 NTU		180.1
pH (Field)	7.31 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	162 mg/L	10	SM2320B
Chloride	13 mg/L	0.25	300.0
Hardness (as CaCO3)	287 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	101 mg/L	8.3	SM2540D
Solids, Total (TS)	526 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	401 mg/L	10	SM2540C
Sulfate	151 mg/L	2.5	300.0
Calcium	74600 ug/L	1000	200.7
Magnesium	24500 ug/L	1000	200.7
COD	16.6 mg/L	10	410.4
Nitrogen, Ammonia	.11 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.6 mg/L	0.1	353.2
Phosphorus, Total	.27 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	4.2 mg/L	1	SM5310C

Lab ID #: AC41068	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1203.3 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/20/2024      **IDEM Sample #:** AC40144  
**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	80	%		ASTM D888-09(C)
DO	7.23	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	589	umho/cm		SM2510B
Temperature	20.2	°C		SM2550B(2)
Turbidity (Hach)	22.1	NTU		180.1
pH (Field)	7.41	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50373909010	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	169	mg/L	10	SM2320B
Chloride	30.6	mg/L	2.5	300.0
Hardness (as CaCO3)	249	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.9	mg/L	2.5	SM2540D
Solids, Total (TS)	366	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	335	mg/L	10	SM2540C
Sulfate	73.1	mg/L	2.5	300.0
Calcium	62600	ug/L	1000	200.7
Magnesium	22400	ug/L	1000	200.7
COD	10.2	mg/L	10	410.4
Nitrogen, Ammonia	.13	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	5.8	mg/L	0.2	353.2
Phosphorus, Total	.15	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.2	mg/L	1	SM5310C

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

Lab ID #: AC40144		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		980.4	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: 6/18/2024

IDEM Sample #: AC40555

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	90.6	%		ASTM D888-09(C)
DO	7.63	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1032	umho/cm		SM2510B
Temperature	23.8	°C		SM2550B(2)
Turbidity (Hach)	3.84	NTU		180.1
pH (Field)	7.56	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243014	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	251	mg/L	10	SM2320B
Chloride	45.1	mg/L	2.5	300.0
Hardness (as CaCO3)	390	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.9	mg/L	2.5	SM2540D
Solids, Total (TS)	669	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	669	mg/L	10	SM2540C
Sulfate	243	mg/L	2.5	300.0
Calcium	96700	ug/L	1000	200.7
Magnesium	36000	ug/L	1000	200.7
COD	13.8	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	5.5	mg/L	0.4	353.2
Phosphorus, Total	.17	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	4.2	mg/L	1	SM5310C

Lab ID #: AC40555	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	816.4	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: 7/16/2024

IDEM Sample #: AC41069

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	79.8 %		ASTM D888-09(C)
DO	6.84 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	279.1 umho/cm		SM2510B
Temperature	23 °C		SM2550B(2)
Turbidity (Hach)	347 NTU		180.1
pH (Field)	7.22 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215014	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	72 mg/L	10	SM2320B
Chloride	14 mg/L	0.25	300.0
Hardness (as CaCO3)	115 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	83.2 mg/L	10	SM2540D
Solids, Total (TS)	425 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	205 mg/L	10	SM2540C
Sulfate	33.8 mg/L	0.25	300.0
Calcium	31200 ug/L	1000	200.7
Magnesium	9050 ug/L	1000	200.7
COD	37.2 mg/L	10	410.4
Nitrogen, Ammonia	.18 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	3.8 mg/L	0.1	353.2
Phosphorus, Total	.66 mg/L	0.05	365.1
TKN	2.6 mg/L	0.5	351.2
TOC	10.6 mg/L	1	SM5310C

Lab ID #: AC41069	Result	Reporting Limit	Method
Coliforms (Total)	1011.2 MPN/100mL	1	SM9223B
E. coli	1011.2 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 6/17/2024      **IDEM Sample #:** AC40567  
**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	118.8 %		ASTM D888-09(C)
DO	9.42 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	664 umho/cm		SM2510B
Temperature	27.2 °C		SM2550B(2)
Turbidity (Hach)	29.1 NTU		180.1
pH (Field)	8.08 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	213 mg/L	10	SM2320B
Chloride	59.2 mg/L	2.5	300.0
Hardness (as CaCO3)	259 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	50 mg/L	5	SM2540D
Solids, Total (TS)	385 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	321 mg/L	10	SM2540C
Sulfate	47.5 mg/L	2.5	300.0
Calcium	63800 ug/L	1000	200.7
Magnesium	24200 ug/L	1000	200.7
COD	21.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.77 mg/L	0.1	353.2
Phosphorus, Total	.092 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	3.8 mg/L	1	SM5310C

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

Lab ID #: AC40567		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
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-08-0015

Sample Date: 7/15/2024

IDEM Sample #: AC41071

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	152.1 %		ASTM D888-09(C)
DO	11.58 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	617 umho/cm		SM2510B
Temperature	29.5 °C		SM2550B(2)
Turbidity (Hach)	12.7 NTU		180.1
pH (Field)	8.57 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 #: 50378215001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	162 mg/L	10	SM2320B
Chloride	68.7 mg/L	2.5	300.0
Hardness (as CaCO3)	196 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.9 mg/L	2.5	SM2540D
Solids, Total (TS)	360 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	342 mg/L	10	SM2540C
Sulfate	49.9 mg/L	2.5	300.0
Calcium	51300 ug/L	1000	200.7
Magnesium	16600 ug/L	1000	200.7
COD	26 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.73 mg/L	0.1	353.2
Phosphorus, Total	.16 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	3.9 mg/L	1	SM5310C

Lab ID #: AC41071	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**

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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: 6/17/2024 IDEM Sample #: AC40565  
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	138	%		ASTM D888-09(C)
DO	10.51	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	635	umho/cm		SM2510B
Temperature	29.5	°C		SM2550B(2)
Turbidity (Hach)	36.8	NTU		180.1
pH (Field)	8.16	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243003	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	210	mg/L	10	SM2320B
Chloride	60.8	mg/L	2.5	300.0
Hardness (as CaCO3)	259	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	50.2	mg/L	5	SM2540D
Solids, Total (TS)	396	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	345	mg/L	10	SM2540C
Sulfate	47.3	mg/L	2.5	300.0
Calcium	63800	ug/L	1000	200.7
Magnesium	24100	ug/L	1000	200.7
COD	23.8	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.81	mg/L	0.1	353.2
Phosphorus, Total	.088	mg/L	0.05	365.1
TKN	1.1	mg/L	0.5	351.2
TOC	4.3	mg/L	1	SM5310C

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

Lab ID #: AC40565		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		24.3	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0016

Sample Date: 7/15/2024

IDEM Sample #: AC41073

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	211.5 %		ASTM D888-09(C)
DO	15.81 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	590 umho/cm		SM2510B
Temperature	30.5 °C		SM2550B(2)
Turbidity (Hach)	12.7 NTU		180.1
pH (Field)	8.83 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	153 mg/L	10	SM2320B
Chloride	67.2 mg/L	2.5	300.0
Hardness (as CaCO3)	185 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.8 mg/L	3.8	SM2540D
Solids, Total (TS)	347 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	327 mg/L	10	SM2540C
Sulfate	48.9 mg/L	2.5	300.0
Calcium	48300 ug/L	1000	200.7
Magnesium	15700 ug/L	1000	200.7
COD	26.9 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.61 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	4.3 mg/L	1	SM5310C

Lab ID #: AC41073	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**

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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: 6/17/2024 IDEM Sample #: AC40564  
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	76.3	%		ASTM D888-09(C)
DO	6.68	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1130	umho/cm		SM2510B
Temperature	21.7	°C		SM2550B(2)
Turbidity (Hach)	6.7	NTU		180.1
pH (Field)	7.56	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	267	mg/L	10	SM2320B
Chloride	18.2	mg/L	0.25	300.0
Hardness (as CaCO3)	498	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.4	mg/L	2.5	SM2540D
Solids, Total (TS)	802	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	722	mg/L	10	SM2540C
Sulfate	345	mg/L	2.5	300.0
Calcium	111000	ug/L	1000	200.7
Magnesium	53500	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.38	mg/L	0.1	353.2
Phosphorus, Total	.064	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.2	mg/L	1	SM5310C

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

Lab ID #: AC40564		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		275.5	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0017

Sample Date: 7/15/2024

IDEM Sample #: AC41072

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	41.8 %		ASTM D888-09(C)
DO	3.47 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1289 umho/cm		SM2510B
Temperature	24.6 °C		SM2550B(2)
Turbidity (Hach)	22.2 NTU		180.1
pH (Field)	7.48 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215002	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	244 mg/L	10	SM2320B
Chloride	30.3 mg/L	2.5	300.0
Hardness (as CaCO3)	446 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	16.1 mg/L	3.6	SM2540D
Solids, Total (TS)	942 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	892 mg/L	10	SM2540C
Sulfate	465 mg/L	2.5	300.0
Calcium	91000 ug/L	1000	200.7
Magnesium	53200 ug/L	1000	200.7
COD	21.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.23 mg/L	0.1	353.2
Phosphorus, Total	.13 mg/L	0.05	365.1
TKN	.99 mg/L	0.5	351.2
TOC	3.4 mg/L	1	SM5310C

Lab ID #: AC41072	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	47.4 MPN/100mL	1	SM9223B



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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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: 5/20/2024 IDEM Sample #: AC40158  
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	66.5	%		ASTM D888-09(C)
DO	5.74	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	796	umho/cm		SM2510B
Temperature	22.6	°C		SM2550B(2)
Turbidity (Hach)	13.2	NTU		180.1
pH (Field)	7.29	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50373909011	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	169	mg/L	10	SM2320B
Chloride	19.9	mg/L	0.25	300.0
Hardness (as CaCO3)	392	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	9.3	mg/L	2.5	SM2540D
Solids, Total (TS)	603	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	542	mg/L	10	SM2540C
Sulfate	246	mg/L	2.5	300.0
Calcium	95400	ug/L	1000	200.7
Magnesium	37400	ug/L	1000	200.7
COD	20.4	mg/L	10	410.4
Nitrogen, Ammonia	.13	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.5	mg/L	0.1	353.2
Phosphorus, Total	.14	mg/L	0.05	365.1
TKN	.8	mg/L	0.5	351.2
TOC	5.2	mg/L	1	SM5310C

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

Lab ID #: AC40158		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		298.7	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0018

Sample Date: 6/18/2024

IDEM Sample #: AC40569

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	80.2 %		ASTM D888-09(C)
DO	6.97 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1078 umho/cm		SM2510B
Temperature	22.2 °C		SM2550B(2)
Turbidity (Hach)	7.4 NTU		180.1
pH (Field)	7.47 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 #: 50376243015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	218 mg/L	10	SM2320B
Chloride	19.6 mg/L	0.25	300.0
Hardness (as CaCO3)	589 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.4 mg/L	2.5	SM2540D
Solids, Total (TS)	831 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	774 mg/L	10	SM2540C
Sulfate	430 mg/L	2.5	300.0
Calcium	152000 ug/L	1000	200.7
Magnesium	51100 ug/L	1000	200.7
COD	10.7 mg/L	10	410.4
Nitrogen, Ammonia	.14 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.85 mg/L	0.1	353.2
Phosphorus, Total	.058 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3.6 mg/L	1	SM5310C

Lab ID #: AC40569	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	344.8 MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0018

Sample Date: 7/16/2024

IDEM Sample #: AC41070

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	65.7	%		ASTM D888-09(C)
DO	5.61	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	508	umho/cm		SM2510B
Temperature	23.2	°C		SM2550B(2)
Turbidity (Hach)	119	NTU		180.1
pH (Field)	7.18	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50378215015	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	75.6	mg/L	10	SM2320B
Chloride	14.9	mg/L	0.25	300.0
Hardness (as CaCO3)	210	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	116	mg/L	16.7	SM2540D
Solids, Total (TS)	438	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	332	mg/L	10	SM2540C
Sulfate	123	mg/L	2.5	300.0
Calcium	55800	ug/L	1000	200.7
Magnesium	17100	ug/L	1000	200.7
COD	31.4	mg/L	10	410.4
Nitrogen, Ammonia	2.3	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	7.4	mg/L	0.2	353.2
Phosphorus, Total	.55	mg/L	0.05	365.1
TKN	4.5	mg/L	0.5	351.2
TOC	9.3	mg/L	1	SM5310C

Lab ID #: AC41070b	Result		Reporting Limit	Method
Coliforms (Total)	> 241960	MPN/100mL	241960	SM9223B
E. coli	5880	MPN/100mL	100	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/20/2024      **IDEM Sample #:** AC40151  
**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	137.6	%		ASTM D888-09(C)
DO	11.11	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1124	umho/cm		SM2510B
Temperature	26.1	°C		SM2550B(2)
Turbidity (Hach)	17.4	NTU		180.1
pH (Field)	8.14	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50373909002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	195	mg/L	10	SM2320B
Chloride	21.6	mg/L	0.25	300.0
Hardness (as CaCO3)	439	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.1	mg/L	2.5	SM2540D
Solids, Total (TS)	835	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	763	mg/L	10	SM2540C
Sulfate	430	mg/L	2.5	300.0
Calcium	90200	ug/L	1000	200.7
Magnesium	51900	ug/L	1000	200.7
COD	26.9	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	3.3	mg/L	0.1	353.2
Phosphorus, Total	.11	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	6.1	mg/L	1	SM5310C

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

Lab ID #: AC40151		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		146.7	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: 6/17/2024

IDEM Sample #: AC40562

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	171.4	%		ASTM D888-09(C)
DO	12.69	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2350	umho/cm		SM2510B
Temperature	30.8	°C		SM2550B(2)
Turbidity (Hach)	3.89	NTU		180.1
pH (Field)	8.17	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50376243005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	351	mg/L	10	SM2320B
Chloride	16.8	mg/L	0.25	300.0
Hardness (as CaCO3)	931	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	9.2	mg/L	2.5	SM2540D
Solids, Total (TS)	1910	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1670	mg/L	20	SM2540C
Sulfate	1060	mg/L	25	300.0
Calcium	167000	ug/L	1000	200.7
Magnesium	125000	ug/L	1000	200.7
COD	12.7	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	.063	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	5.4	mg/L	1	SM5310C

Lab ID #: AC40562	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	547.5	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: 7/15/2024

IDEM Sample #: AC41075

Water Flow Type Glide

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	172.5	%		ASTM D888-09(C)
DO	12.4	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2402	umho/cm		SM2510B
Temperature	32.6	°C		SM2550B(2)
Turbidity (Hach)	11.3	NTU		180.1
pH (Field)	8.17	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50378215005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	329	mg/L	10	SM2320B
Chloride	18	mg/L	0.25	300.0
Hardness (as CaCO3)	912	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.1	mg/L	2.5	SM2540D
Solids, Total (TS)	2070	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1850	mg/L	20	SM2540C
Sulfate	1090	mg/L	25	300.0
Calcium	157000	ug/L	1000	200.7
Magnesium	127000	ug/L	1000	200.7
COD	12.1	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	.073	mg/L	0.05	365.1
TKN	.54	mg/L	0.5	351.2
TOC	3.7	mg/L	1	SM5310C

Lab ID #: AC41075	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	224.7	MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/20/2024      **IDEM Sample #:** AC40143  
**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	145.1	%		ASTM D888-09(C)
DO	11.17	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1668	umho/cm		SM2510B
Temperature	28.7	°C		SM2550B(2)
Turbidity (Hach)	36.8	NTU		180.1
pH (Field)	8.05	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 #: 50373909003	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	347	mg/L	10	SM2320B
Chloride	9.7	mg/L	0.25	300.0
Hardness (as CaCO3)	1010	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	51.2	mg/L	2.5	SM2540D
Solids, Total (TS)	1570	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1400	mg/L	20	SM2540C
Sulfate	755	mg/L	25	300.0
Calcium	191000	ug/L	1000	200.7
Magnesium	129000	ug/L	1000	200.7
COD	14.6	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	.11	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.7	mg/L	1	SM5310C

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

Lab ID #: AC40143		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		32.3	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0020

Sample Date: 6/17/2024

IDEM Sample #: AC40572

Water Flow Type Glide

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	144.4 %		ASTM D888-09(C)
DO	10.22 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2615 umho/cm		SM2510B
Temperature	33.5 °C		SM2550B(2)
Turbidity (Hach)	20.6 NTU		180.1
pH (Field)	7.9 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	384 mg/L	10	SM2320B
Chloride	14.5 mg/L	0.25	300.0
Hardness (as CaCO3)	1070 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	32.5 mg/L	2.5	SM2540D
Solids, Total (TS)	2250 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	2060 mg/L	20	SM2540C
Sulfate	1230 mg/L	25	300.0
Calcium	189000 ug/L	1000	200.7
Magnesium	145000 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	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3.8 mg/L	1	SM5310C

Lab ID #: AC40572	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	116.9 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: 7/15/2024

IDEM Sample #: AC41076

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	168 %		ASTM D888-09(C)
DO	11.51 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	2631 umho/cm		SM2510B
Temperature	35.4 °C		SM2550B(2)
Turbidity (Hach)	8.2 NTU		180.1
pH (Field)	7.86 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	364 mg/L	10	SM2320B
Chloride	14.1 mg/L	0.25	300.0
Hardness (as CaCO3)	1110 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.2 mg/L	2.5	SM2540D
Solids, Total (TS)	2170 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	2040 mg/L	20	SM2540C
Sulfate	1170 mg/L	25	300.0
Calcium	193000 ug/L	1000	200.7
Magnesium	153000 ug/L	1000	200.7
COD	10.1 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	2.4 mg/L	1	SM5310C

Lab ID #: AC41076	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	33.2 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/21/2024      **IDEM Sample #:** AC40148  
**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	35.3 %		ASTM D888-09(C)
DO	3.12 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	880 umho/cm		SM2510B
Temperature	21.3 °C		SM2550B(2)
Turbidity (Hach)	9.61 NTU		180.1
pH (Field)	7.27 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 #: 50373909007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	132 mg/L	10	SM2320B
Chloride	21.2 mg/L	2.5	300.0
Hardness (as CaCO3)	171 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.9 mg/L	2.5	SM2540D
Solids, Total (TS)	292 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	239 mg/L	10	SM2540C
Sulfate	67.6 mg/L	2.5	300.0
Calcium	44300 ug/L	1000	200.7
Magnesium	14600 ug/L	1000	200.7
COD	23.8 mg/L	10	410.4
Nitrogen, Ammonia	.4 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.5 mg/L	0.1	353.2
Phosphorus, Total	.18 mg/L	0.05	365.1
TKN	1.6 mg/L	0.5	351.2
TOC	7.3 mg/L	1	SM5310C

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

Lab ID #: AC40148		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	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: 6/18/2024

IDEM Sample #: AC40559

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	63.5	%		ASTM D888-09(C)
DO	5.48	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1411	umho/cm		SM2510B
Temperature	22.5	°C		SM2550B(2)
Turbidity (Hach)	5.62	NTU		180.1
pH (Field)	7.08	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243010	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	219	mg/L	10	SM2320B
Chloride	61.3	mg/L	2.5	300.0
Hardness (as CaCO3)	252	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	41.4	mg/L	5	SM2540D
Solids, Total (TS)	387	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	356	mg/L	10	SM2540C
Sulfate	57.9	mg/L	2.5	300.0
Calcium	62700	ug/L	1000	200.7
Magnesium	23300	ug/L	1000	200.7
COD	16.9	mg/L	10	410.4
Nitrogen, Ammonia	.11	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.23	mg/L	0.1	353.2
Phosphorus, Total	.05	mg/L	0.05	365.1
TKN	.63	mg/L	0.5	351.2
TOC	5.1	mg/L	1	SM5310C

Lab ID #: AC40559	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	980.4	MPN/100mL	1	SM9223B

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

SiteID: WWL-08-0021

Sample Date: 7/16/2024

IDEM Sample #: AC41065

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	79.1 %		ASTM D888-09(C)
DO	6.69 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	889 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	224 NTU		180.1
pH (Field)	7.55 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215010	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	120 mg/L	10	SM2320B
Chloride	10.6 mg/L	0.25	300.0
Hardness (as CaCO3)	294 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	84.6 mg/L	5	SM2540D
Solids, Total (TS)	784 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	624 mg/L	10	SM2540C
Sulfate	347 mg/L	2.5	300.0
Calcium	59400 ug/L	1000	200.7
Magnesium	35400 ug/L	1000	200.7
COD	30.3 mg/L	10	410.4
Nitrogen, Ammonia	.13 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.65 mg/L	0.1	353.2
Phosphorus, Total	.41 mg/L	0.05	365.1
TKN	1.9 mg/L	0.5	351.2
TOC	8.5 mg/L	1	SM5310C

Lab ID #: AC41065b	Result	Reporting Limit	Method
Coliforms (Total)	> 241960 MPN/100mL	241960	SM9223B
E. coli	14670 MPN/100mL	100	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/21/2024      **IDEM Sample #:** AC40150  
**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	87.8	%		ASTM D888-09(C)
DO	7.84	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	509	umho/cm		SM2510B
Temperature	20.9	°C		SM2550B(2)
Turbidity (Hach)	5.09	NTU		180.1
pH (Field)	7.14	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 #: 50373909005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	75.4	mg/L	10	SM2320B
Chloride	21	mg/L	2.5	300.0
Hardness (as CaCO3)	218	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.9	mg/L	2.5	SM2540D
Solids, Total (TS)	354	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	295	mg/L	10	SM2540C
Sulfate	122	mg/L	2.5	300.0
Calcium	55500	ug/L	1000	200.7
Magnesium	19400	ug/L	1000	200.7
COD	12.4	mg/L	10	410.4
Nitrogen, Ammonia	.26	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	3.5	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	3.2	mg/L	1	SM5310C

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

Lab ID #: AC40150		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	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: 6/18/2024

IDEM Sample #: AC40561

Water Flow Type Pool

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	75.4	%		ASTM D888-09(C)
DO	6.48	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	666	umho/cm		SM2510B
Temperature	22.8	°C		SM2550B(2)
Turbidity (Hach)	8.01	NTU		180.1
pH (Field)	7.19	SU		150.2
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50376243008	Result		Reporting Limit	Method
Alkalinity (as CaCO <sub>3</sub> )	67.6	mg/L	10	SM2320B
Chloride	27.6	mg/L	2.5	300.0
Hardness (as CaCO <sub>3</sub> )	307	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.4	mg/L	2.5	SM2540D
Solids, Total (TS)	439	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	423	mg/L	10	SM2540C
Sulfate	243	mg/L	2.5	300.0
Calcium	77400	ug/L	1000	200.7
Magnesium	27500	ug/L	1000	200.7
COD	11.7	mg/L	10	410.4
Nitrogen, Ammonia	.19	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.6	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 #: AC40561	Result		Reporting Limit	Method
E. coli	261.3	MPN/100mL	1	SM9223B



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

Lab ID #: AC40561b		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		11870	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: 7/16/2024

IDEM Sample #: AC41078

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	89 %		ASTM D888-09(C)
DO	7.67 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	248.1 umho/cm		SM2510B
Temperature	22.7 °C		SM2550B(2)
Turbidity (Hach)	35.8 NTU		180.1
pH (Field)	7.05 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	24.2 mg/L	10	SM2320B
Chloride	5.3 mg/L	0.25	300.0
Hardness (as CaCO3)	101 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	29.5 mg/L	4.2	SM2540D
Solids, Total (TS)	174 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	139 mg/L	10	SM2540C
Sulfate	74.5 mg/L	2.5	300.0
Calcium	28900 ug/L	1000	200.7
Magnesium	7080 ug/L	1000	200.7
COD	15.4 mg/L	10	410.4
Nitrogen, Ammonia	.21 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.5 mg/L	0.1	353.2
Phosphorus, Total	.12 mg/L	0.05	365.1
TKN	.89 mg/L	0.5	351.2
TOC	4.2 mg/L	1	SM5310C

Lab ID #: AC41078	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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: 5/20/2024 IDEM Sample #: AC40152  
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	55.8	%		ASTM D888-09(C)
DO	4.78	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	781	umho/cm		SM2510B
Temperature	22.9	°C		SM2550B(2)
Turbidity (Hach)	20.7	NTU		180.1
pH (Field)	7.31	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50373909001	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	133	mg/L	10	SM2320B
Chloride	22.7	mg/L	0.25	300.0
Hardness (as CaCO3)	256	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.4	mg/L	3	SM2540D
Solids, Total (TS)	463	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	407	mg/L	10	SM2540C
Sulfate	157	mg/L	2.5	300.0
Calcium	60400	ug/L	1000	200.7
Magnesium	25500	ug/L	1000	200.7
COD	36.6	mg/L	10	410.4
Nitrogen, Ammonia	.42	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	5.6	mg/L	0.2	353.2
Phosphorus, Total	.29	mg/L	0.05	365.1
TKN	2	mg/L	0.5	351.2
TOC	8.1	mg/L	1	SM5310C

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

Lab ID #: AC40152		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		72.7	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: 6/17/2024

IDEM Sample #: AC40563

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	108.8	%		ASTM D888-09(C)
DO	9.35	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1305	umho/cm		SM2510B
Temperature	22.7	°C		SM2550B(2)
Turbidity (Hach)	8.26	NTU		180.1
pH (Field)	7.75	SU		150.2
Air Temp	6	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Lab ID #: 50376243004	Result		Reporting Limit	Method
Alkalinity (as CaCO <sub>3</sub> )	278	mg/L	10	SM2320B
Chloride	19.7	mg/L	0.25	300.0
Hardness (as CaCO <sub>3</sub> )	569	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.5	mg/L	3.1	SM2540D
Solids, Total (TS)	964	mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	862	mg/L	20	SM2540C
Sulfate	461	mg/L	2.5	300.0
Calcium	119000	ug/L	1000	200.7
Magnesium	65900	ug/L	1000	200.7
COD	11.5	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.15	mg/L	0.1	353.2
Phosphorus, Total	.13	mg/L	0.05	365.1
TKN	.58	mg/L	0.5	351.2
TOC	3.5	mg/L	1	SM5310C

Lab ID #: AC40563	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	378.4	MPN/100mL	1	SM9223B

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

SiteID: WWL070-0002

Sample Date: 7/15/2024

IDEM Sample #: AC41074

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	88.5 %		ASTM D888-09(C)
DO	7.26 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	1444 umho/cm		SM2510B
Temperature	25.2 °C		SM2550B(2)
Turbidity (Hach)	8.02 NTU		180.1
pH (Field)	7.68 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	250 mg/L	10	SM2320B
Chloride	20 mg/L	0.25	300.0
Hardness (as CaCO3)	572 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.6 mg/L	2.5	SM2540D
Solids, Total (TS)	1120 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1040 mg/L	20	SM2540C
Sulfate	561 mg/L	25	300.0
Calcium	111000 ug/L	1000	200.7
Magnesium	71600 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	.23 mg/L	0.1	353.2
Phosphorus, Total	.084 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3 mg/L	1	SM5310C

Lab ID #: AC41074	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	686.7 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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:** 5/20/2024      **IDEM Sample #:** AC40155  
**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	68.9	%		ASTM D888-09(C)
DO	6.01	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	367.6	umho/cm		SM2510B
Temperature	22.1	°C		SM2550B(2)
Turbidity (Hach)	42.4	NTU		180.1
pH (Field)	7.39	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 #: 50373909014	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	132	mg/L	10	SM2320B
Chloride	23.1	mg/L	2.5	300.0
Hardness (as CaCO3)	151	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	52.5	mg/L	3.8	SM2540D
Solids, Total (TS)	312	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	200	mg/L	10	SM2540C
Sulfate	22.2	mg/L	0.25	300.0
Calcium	42100	ug/L	1000	200.7
Magnesium	11100	ug/L	1000	200.7
COD	22.4	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	2.8	mg/L	0.1	353.2
Phosphorus, Total	.16	mg/L	0.05	365.1
TKN	.82	mg/L	0.5	351.2
TOC	5.4	mg/L	1	SM5310C

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

Lab ID #: AC40155		<u>Result</u>		<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		167.4	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: 6/17/2024

IDEM Sample #: AC40566

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	102.4 %		ASTM D888-09(C)
DO	8.25 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	668 umho/cm		SM2510B
Temperature	26.3 °C		SM2550B(2)
Turbidity (Hach)	29.4 NTU		180.1
pH (Field)	8.01 SU		150.2
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50376243018	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	208 mg/L	10	SM2320B
Chloride	61.4 mg/L	2.5	300.0
Hardness (as CaCO3)	256 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	43 mg/L	8.3	SM2540D
Solids, Total (TS)	350 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	348 mg/L	10	SM2540C
Sulfate	53.3 mg/L	2.5	300.0
Calcium	63100 ug/L	1000	200.7
Magnesium	23900 ug/L	1000	200.7
COD	24.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.78 mg/L	0.1	353.2
Phosphorus, Total	.092 mg/L	0.05	365.1
TKN	1 mg/L	0.5	351.2
TOC	3.8 mg/L	1	SM5310C

Lab ID #: AC40566	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	23.8 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: 7/15/2024

IDEM Sample #: AC41063

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	125.3 %		ASTM D888-09(C)
DO	9.72 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	619 umho/cm		SM2510B
Temperature	29.2 °C		SM2550B(2)
Turbidity (Hach)	13.4 NTU		180.1
pH (Field)	8.48 SU		150.2
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50378215018	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	162 mg/L	10	SM2320B
Chloride	67 mg/L	2.5	300.0
Hardness (as CaCO3)	198 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	18.6 mg/L	2.9	SM2540D
Solids, Total (TS)	366 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	344 mg/L	10	SM2540C
Sulfate	52.3 mg/L	2.5	300.0
Calcium	51300 ug/L	1000	200.7
Magnesium	16900 ug/L	1000	200.7
COD	16.7 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.77 mg/L	0.1	353.2
Phosphorus, Total	.15 mg/L	0.05	365.1
TKN	1.1 mg/L	0.5	351.2
TOC	4.1 mg/L	1	SM5310C

Lab ID #: AC41063	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	11.8 MPN/100mL	1	SM9223B

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

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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	