

Indiana Department of Environmental Management

Office of Water Quality-Watershed Assessment and Planning Branch

Surface Water Results Summary

SiteID: WEL-09-0009 **USGS Hydrologic Unit:** 051202080906
Stream Name: Indian Creek **County:** Martin
Description: McBride Bluff Road **Latitude:** 38 44 30.79 **Longitude:** -86 45 41.94
Drainage: **Site Number:** 25T-001

SiteID: WEL-09-0009 **Sample Date:** 11/12/2024 **IDEM Sample #:** AC42279
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	69.6 %		ASTM D888-09(C)
DO	7.55 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	375.8 umho/cm		SM2510B
Temperature	11.7 °C		SM2550B(2)
Turbidity (Hach)	11.7 NTU		180.1
pH (Field)	7.3 SU		150.2
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50387716001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	144 mg/L	10	SM2320B
Chloride	8.3 mg/L	0.25	300.0
Hardness (as CaCO3)	188 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4 mg/L	2.5	SM2540D
Solids, Total (TS)	250 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	219 mg/L	10	SM2540C
Sulfate	39.5 mg/L	0.25	300.0
Calcium	58600 ug/L	1000	200.7
Magnesium	10200 ug/L	1000	200.7
COD	21.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.94 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.5 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

SiteID: WEL-09-0009

Sample Date: 12/10/2024

IDEM Sample #: AC42373

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	85.5	%		ASTM D888-09(C)
DO	10.73	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	365.3	umho/cm		SM2510B
Temperature	5.8	°C		SM2550B(2)
Turbidity (Hach)	15	NTU		180.1
pH (Field)	7.6	SU		150.2
Air Temp	2	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50389816001	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	130	mg/L	10	SM2320B
Chloride	10.4	mg/L	0.25	300.0
Hardness (as CaCO ₃)	171	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.9	mg/L	2.5	SM2540D
Solids, Total (TS)	218	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	195	mg/L	10	SM2540C
Sulfate	47	mg/L	0.25	300.0
Calcium	54200	ug/L	1000	200.7
Magnesium	8560	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.87	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	1.1	mg/L	0.5	351.2
TOC	2.6	mg/L	1	SM5310C

**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: WEL-09-0011 **USGS Hydrologic Unit:** 051202080905
Stream Name: Sulphur Creek **County:** Martin
Description: Indian Springs Road **Latitude:** 38 46 27.56 **Longitude:** -86 45 54.01
Drainage: **Site Number:** 25T-004

SiteID: WEL-09-0011 **Sample Date:** 11/12/2024 **IDEM Sample #:** AC42280
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	73.3	%		ASTM D888-09(C)
DO	8.09	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	271.4	umho/cm		SM2510B
Temperature	11	°C		SM2550B(2)
Turbidity (Hach)	10.7	NTU		180.1
pH (Field)	7.07	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50387716002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	102	mg/L	10	SM2320B
Chloride	4.2	mg/L	0.25	300.0
Hardness (as CaCO3)	129	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.6	mg/L	2.5	SM2540D
Solids, Total (TS)	188	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	162	mg/L	10	SM2540C
Sulfate	30.4	mg/L	0.25	300.0
Calcium	40400	ug/L	1000	200.7
Magnesium	6880	ug/L	1000	200.7
COD	15.6	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.43	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	4	mg/L	1	SM5310C

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

SiteID: WEL-09-0011

Sample Date: 12/10/2024

IDEM Sample #: AC42374

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	84	%		ASTM D888-09(C)
DO	10.41	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	258.2	umho/cm		SM2510B
Temperature	6.1	°C		SM2550B(2)
Turbidity (Hach)	13.6	NTU		180.1
pH (Field)	7.51	SU		150.2
Air Temp	2	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50389816002	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	95.2	mg/L	10	SM2320B
Chloride	4.8	mg/L	0.25	300.0
Hardness (as CaCO3)	122	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.3	mg/L	2.5	SM2540D
Solids, Total (TS)	151	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	132	mg/L	10	SM2540C
Sulfate	31.3	mg/L	0.25	300.0
Calcium	37900	ug/L	1000	200.7
Magnesium	6550	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.62	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	.63	mg/L	0.5	351.2
TOC	2.6	mg/L	1	SM5310C

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

SiteID: WEL-09-0011

Sample Date: 1/15/2025

IDEM Sample #: AC42612

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	32.3	%		ASTM D888-09(C)
DO	12.04	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	229.3	umho/cm		SM2510B
Temperature	0	°C		SM2550B(2)
Turbidity (Hach)	11.5	NTU		180.1
pH (Field)	7.03	SU		150.2
Air Temp	1	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50391825001	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	73.2	mg/L	10	SM2320B
Chloride	4.1	mg/L	0.25	300.0
Hardness (as CaCO ₃)	103	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.2	mg/L	2.5	SM2540D
Solids, Total (TS)	113	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	105	mg/L	10	SM2540C
Sulfate	32.2	mg/L	0.25	300.0
Calcium	31700	ug/L	1000	200.7
Magnesium	5680	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.48	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	2.2	mg/L	1	SM5310C

**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: WEL-09-0017 **USGS Hydrologic Unit:** 051202080906
Stream Name: Indian Creek **County:** Lawrence
Description: Williams Silverville Road **Latitude:** 38 50 51.36 **Longitude:** -86 39 31.82
Drainage: **Site Number:** 25T-011

SiteID: WEL-09-0017 **Sample Date:** 11/12/2024 **IDEM Sample #:** AC42281
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	85.9 %		ASTM D888-09(C)
DO	9.3 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	448.3 umho/cm		SM2510B
Temperature	11.8 °C		SM2550B(2)
Turbidity (Hach)	4.55 NTU		180.1
pH (Field)	7.47 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50387716003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	182 mg/L	10	SM2320B
Chloride	14.5 mg/L	0.25	300.0
Hardness (as CaCO3)	225 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7 mg/L	2.5	SM2540D
Solids, Total (TS)	293 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	257 mg/L	10	SM2540C
Sulfate	36.4 mg/L	0.25	300.0
Calcium	71300 ug/L	1000	200.7
Magnesium	11500 ug/L	1000	200.7
COD	16.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.88 mg/L	0.1	353.2
Phosphorus, Total	.059 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

SiteID: WEL-09-0017

Sample Date: 12/10/2024

IDEM Sample #: AC42375

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	89.9 %		ASTM D888-09(C)
DO	11.33 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	445.6 umho/cm		SM2510B
Temperature	5.5 °C		SM2550B(2)
Turbidity (Hach)	5.15 NTU		180.1
pH (Field)	7.96 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50389816003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	185 mg/L	10	SM2320B
Chloride	16.8 mg/L	0.25	300.0
Hardness (as CaCO3)	210 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	243 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	235 mg/L	10	SM2540C
Sulfate	36.3 mg/L	0.25	300.0
Calcium	68900 ug/L	1000	200.7
Magnesium	9150 ug/L	1000	200.7
COD	< 10 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	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	2.8 mg/L	1	SM5310C

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

SiteID: WEL-09-0017

Sample Date: 1/15/2025

IDEM Sample #: AC42613

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	93.6	%		ASTM D888-09(C)
DO	13.61	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	412.2	umho/cm		SM2510B
Temperature	.2	°C		SM2550B(2)
Turbidity (Hach)	3.85	NTU		180.1
pH (Field)	7.72	SU		150.2
Air Temp	1	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50391825002	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	165	mg/L	10	SM2320B
Chloride	13.1	mg/L	0.25	300.0
Hardness (as CaCO ₃)	201	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.9	mg/L	2.5	SM2540D
Solids, Total (TS)	263	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	209	mg/L	10	SM2540C
Sulfate	27.8	mg/L	0.25	300.0
Calcium	68300	ug/L	1000	200.7
Magnesium	7370	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.2	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	mg/L	1	SM5310C

**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: WEL-09-0022 **USGS Hydrologic Unit:** 051202080904
Stream Name: Indian Creek **County:** Lawrence
Description: Armstrong Station Road **Latitude:** 38 54 21.53 **Longitude:** -86 39 21.36
Drainage: **Site Number:** 25T-016

SiteID: WEL-09-0022 **Sample Date:** 11/12/2024 **IDEM Sample #:** AC42282
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	111.4 %		ASTM D888-09(C)
DO	11.9 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	541 umho/cm		SM2510B
Temperature	12.3 °C		SM2550B(2)
Turbidity (Hach)	4.06 NTU		180.1
pH (Field)	7.67 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50387716004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	155 mg/L	10	SM2320B
Chloride	26.5 mg/L	2.5	300.0
Hardness (as CaCO3)	197 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	289 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	249 mg/L	10	SM2540C
Sulfate	41.3 mg/L	0.25	300.0
Calcium	62200 ug/L	1000	200.7
Magnesium	10100 ug/L	1000	200.7
COD	16.8 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.51 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	3.5 mg/L	1	SM5310C

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

SiteID: WEL-09-0022

Sample Date: 12/10/2024

IDEM Sample #: AC42376

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	108.3 %		ASTM D888-09(C)
DO	12.7 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	520 umho/cm		SM2510B
Temperature	8.7 °C		SM2550B(2)
Turbidity (Hach)	3.25 NTU		180.1
pH (Field)	8.08 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50389816004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	201 mg/L	10	SM2320B
Chloride	20.4 mg/L	0.25	300.0
Hardness (as CaCO3)	246 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	289 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	263 mg/L	10	SM2540C
Sulfate	43 mg/L	0.25	300.0
Calcium	80200 ug/L	1000	200.7
Magnesium	11100 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.5 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.54 mg/L	0.5	351.2
TOC	2.7 mg/L	1	SM5310C

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

SiteID: WEL-09-0022

Sample Date: 1/15/2025

IDEM Sample #: AC42614

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	108.5	%		ASTM D888-09(C)
DO	15.03	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	472.1	umho/cm		SM2510B
Temperature	1.9	°C		SM2550B(2)
Turbidity (Hach)	2.65	NTU		180.1
pH (Field)	8.11	SU		150.2
Air Temp	1	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50391825003	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	178	mg/L	10	SM2320B
Chloride	10	mg/L	0.25	300.0
Hardness (as CaCO ₃)	234	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	302	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	252	mg/L	10	SM2540C
Sulfate	47.4	mg/L	2.5	300.0
Calcium	77100	ug/L	1000	200.7
Magnesium	10200	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.8	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	mg/L	1	SM5310C

**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: WEL110-0006 USGS Hydrologic Unit: 051202080903
Stream Name: Indian Creek County: Lawrence
Description: SR 54 Latitude: 38 57 2.52 Longitude: -86 40 30.77
Drainage: 107 Site Number: 25T-021

SiteID: WEL110-0006 Sample Date: 11/12/2024 IDEM Sample #: AC42283
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	93.9	%		ASTM D888-09(C)
DO	10.04	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	470.3	umho/cm		SM2510B
Temperature	12.4	°C		SM2550B(2)
Turbidity (Hach)	6.57	NTU		180.1
pH (Field)	7.71	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50387716005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	134	mg/L	10	SM2320B
Chloride	44.6	mg/L	2.5	300.0
Hardness (as CaCO3)	185	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	310	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	266	mg/L	10	SM2540C
Sulfate	43.9	mg/L	0.25	300.0
Calcium	59100	ug/L	1000	200.7
Magnesium	9030	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	< .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	3.2	mg/L	1	SM5310C

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

SiteID: WEL110-0006

Sample Date: 12/10/2024

IDEM Sample #: AC42377

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	99.5	%		ASTM D888-09(C)
DO	12.36	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	510	umho/cm		SM2510B
Temperature	6	°C		SM2550B(2)
Turbidity (Hach)	6.38	NTU		180.1
pH (Field)	7.97	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50389816005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	145	mg/L	10	SM2320B
Chloride	48.3	mg/L	2.5	300.0
Hardness (as CaCO3)	199	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	283	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	267	mg/L	10	SM2540C
Sulfate	41.9	mg/L	0.25	300.0
Calcium	65000	ug/L	1000	200.7
Magnesium	8830	ug/L	1000	200.7
COD	< 10	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	< .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

SiteID: WEL110-0006

Sample Date: 1/15/2025

IDEM Sample #: AC42615

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	102.6	%		ASTM D888-09(C)
DO	14.6	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	455.3	umho/cm		SM2510B
Temperature	.9	°C		SM2550B(2)
Turbidity (Hach)	3.91	NTU		180.1
pH (Field)	7.95	SU		150.2
Air Temp	1	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50391825004	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	151	mg/L	10	SM2320B
Chloride	33.7	mg/L	2.5	300.0
Hardness (as CaCO3)	189	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	263	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	230	mg/L	10	SM2540C
Sulfate	28.6	mg/L	0.25	300.0
Calcium	64300	ug/L	1000	200.7
Magnesium	6820	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.93	mg/L	0.1	353.2
Phosphorus, Total	< .05	mg/L	0.05	365.1
TKN	< .5	mg/L	0.5	351.2
TOC	1.8	mg/L	1	SM5310C

**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: WEL110-0008 USGS Hydrologic Unit: 051202080901
Stream Name: Indian Creek County: Greene
Description: Rockeast Road Latitude: 39 0 9.97 Longitude: -86 41 20.97
Drainage: 24.4 Site Number: 25T-025

SiteID: WEL110-0008 Sample Date: 11/12/2024 IDEM Sample #: AC42284
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	95.9	%		ASTM D888-09(C)
DO	10.41	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	275.2	umho/cm		SM2510B
Temperature	11.7	°C		SM2550B(2)
Turbidity (Hach)	8.57	NTU		180.1
pH (Field)	7.72	SU		150.2
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50387716006	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	138	mg/L	10	SM2320B
Chloride	18.9	mg/L	0.25	300.0
Hardness (as CaCO3)	191	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.6	mg/L	2.5	SM2540D
Solids, Total (TS)	268	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	245	mg/L	10	SM2540C
Sulfate	52.2	mg/L	2.5	300.0
Calcium	62100	ug/L	1000	200.7
Magnesium	8790	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	< .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	3.6	mg/L	1	SM5310C

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

SiteID: WEL110-0008

Sample Date: 12/10/2024

IDEM Sample #: AC42378

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	98.5 %		ASTM D888-09(C)
DO	12.23 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	498.7 umho/cm		SM2510B
Temperature	6.1 °C		SM2550B(2)
Turbidity (Hach)	7.43 NTU		180.1
pH (Field)	8.01 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50389816006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	159 mg/L	10	SM2320B
Chloride	34.3 mg/L	2.5	300.0
Hardness (as CaCO3)	213 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3 mg/L	2.5	SM2540D
Solids, Total (TS)	281 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	256 mg/L	10	SM2540C
Sulfate	49.9 mg/L	0.25	300.0
Calcium	71000 ug/L	1000	200.7
Magnesium	8690 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.44 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	.73 mg/L	0.5	351.2
TOC	2.5 mg/L	1	SM5310C

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

SiteID: WEL110-0008

Sample Date: 1/15/2025

IDEM Sample #: AC42616

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	100.4	%		ASTM D888-09(C)
DO	14.48	mg/L		ASTM D888-09(C)
Specific Conductance (Field)	500	umho/cm		SM2510B
Temperature	.4	°C		SM2550B(2)
Turbidity (Hach)	2.95	NTU		180.1
pH (Field)	7.87	SU		150.2
Air Temp	1	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50391825005	Result		Reporting Limit	Method
Alkalinity (as CaCO ₃)	156	mg/L	10	SM2320B
Chloride	39.1	mg/L	2.5	300.0
Hardness (as CaCO ₃)	203	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	280	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	251	mg/L	10	SM2540C
Sulfate	35.4	mg/L	0.25	300.0
Calcium	69700	ug/L	1000	200.7
Magnesium	7060	ug/L	1000	200.7
COD	< 10	mg/L	10	410.4
Nitrogen, Ammonia	< .1	mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.82	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	mg/L	1	SM5310C

**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	