

**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: 171.045 Site Number: 25T-001

SiteID: WEL-09-0009 Sample Date: 2/3/2025 IDEM Sample #: AC42851
 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	89.4 %		ASTM D888-09(C)
DO	11 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	270.1 umho/cm		SM2510B
Temperature	6.5 °C		SM2550B(2)
Turbidity (Hach)	19.9 NTU		180.1
pH (Field)	7.41 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 #: 50392824001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	94.8 mg/L	10	SM2320B
Chloride	13.2 mg/L	0.25	300.0
Hardness (as CaCO3)	122 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15 mg/L	2.5	SM2540D
Solids, Total (TS)	175 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	158 mg/L	10	SM2540C
Sulfate	21.5 mg/L	0.25	300.0
Calcium	41300 ug/L	1000	200.7
Magnesium	4650 ug/L	1000	200.7
COD	10.3 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.75 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
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Surface Water Results Summary**

SiteID: WEL-09-0009

Sample Date: 3/11/2025

IDEM Sample #: AC43530

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	91.7 %		ASTM D888-09(C)
DO	10.72 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	286.4 umho/cm		SM2510B
Temperature	8.5 °C		SM2550B(2)
Turbidity (Hach)	16.1 NTU		180.1
pH (Field)	7.55 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 #: 50395967001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	118 mg/L	10	SM2320B
Chloride	9.9 mg/L	0.25	300.0
Hardness (as CaCO3)	137 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	11.5 mg/L	2.5	SM2540D
Solids, Total (TS)	186 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	171 mg/L	10	SM2540C
Sulfate	26.3 mg/L	0.25	300.0
Calcium	46100 ug/L	1000	200.7
Magnesium	5400 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.63 mg/L	0.1	353.2
Phosphorus, Total	.058 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
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Surface Water Results Summary**

SiteID: WEL-09-0011

Sample Date: 3/11/2025

IDEM Sample #: AC43531

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	88.7 %		ASTM D888-09(C)
DO	10.48 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	173.1 umho/cm		SM2510B
Temperature	7.9 °C		SM2550B(2)
Turbidity (Hach)	17 NTU		180.1
pH (Field)	7.41 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 #: 50395967002	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	67.4 mg/L	10	SM2320B
Chloride	3.7 mg/L	0.25	300.0
Hardness (as CaCO3)	79.2 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.7 mg/L	2.5	SM2540D
Solids, Total (TS)	108 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	105 mg/L	10	SM2540C
Sulfate	24.3 mg/L	0.25	300.0
Calcium	24700 ug/L	1000	200.7
Magnesium	4280 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.29 mg/L	0.1	353.2
Phosphorus, Total	.057 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.6 mg/L	1	SM5310C

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Surface Water Results Summary**

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

**Indiana Department of Environmental Management
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SiteID: WEL-09-0013 USGS Hydrologic Unit: 051202080906
 Stream Name: Indian Creek County: Martin
 Description: Mount Olive Quarry Road Latitude: 38 48 20.92 Longitude: -86 41 35.10
 Drainage: 123.17 Site Number: 25T-007

SiteID: WEL-09-0013 Sample Date: 4/8/2025 IDEM Sample #: AC44001
 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	90.8 %		ASTM D888-09(C)
DO	10.13 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	254.9 umho/cm		SM2510B
Temperature	10.5 °C		SM2550B(2)
Turbidity (Hach)	31.3 NTU		180.1
pH (Field)	7.57 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 #: 50398212019	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	117 mg/L	10	SM2320B
Chloride	4.3 mg/L	0.25	300.0
Hardness (as CaCO3)	120 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.6 mg/L	2.5	SM2540D
Solids, Total (TS)	190 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	146 mg/L	10	SM2540C
Sulfate	12.4 mg/L	0.25	300.0
Calcium	42100 ug/L	1000	200.7
Magnesium	3660 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.75 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

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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-09-0014 USGS Hydrologic Unit: 051202080905
 Stream Name: Sulphur Creek County: Martin
 Description: Valley Avenue Latitude: 38 49 52.43 Longitude: -86 43 9.78
 Drainage: 14.1185 Site Number: 25T-008

SiteID: WEL-09-0014 Sample Date: 4/8/2025 IDEM Sample #: AC43994
 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	91.5 %		ASTM D888-09(C)
DO	10.73 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	117.2 umho/cm		SM2510B
Temperature	8.4 °C		SM2550B(2)
Turbidity (Hach)	28.8 NTU		180.1
pH (Field)	7.36 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 #: 50398212014	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	56.4 mg/L	10	SM2320B
Chloride	1.7 mg/L	0.25	300.0
Hardness (as CaCO3)	52.7 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15 mg/L	5	SM2540D
Solids, Total (TS)	100 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	63 mg/L	10	SM2540C
Sulfate	8.9 mg/L	0.25	300.0
Calcium	17700 ug/L	1000	200.7
Magnesium	2050 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.21 mg/L	0.1	353.2
Phosphorus, Total	.066 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.5 mg/L	1	SM5310C

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Surface Water Results Summary**

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

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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
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Surface Water Results Summary**

SiteID: WEL-09-0016 USGS Hydrologic Unit: 051202080906
 Stream Name: Indian Creek County: Lawrence
 Description: Williams Silverville Road Latitude: 38 50 2.45 Longitude: -86 39 48.78
 Drainage: 116.981 Site Number: 25T-010

SiteID: WEL-09-0016 Sample Date: 4/8/2025 IDEM Sample #: AC44002
 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	92.2 %		ASTM D888-09(C)
DO	10.36 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	264.7 umho/cm		SM2510B
Temperature	10.2 °C		SM2550B(2)
Turbidity (Hach)	34.5 NTU		180.1
pH (Field)	7.55 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50398212020	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	123 mg/L	10	SM2320B
Chloride	4.5 mg/L	0.25	300.0
Hardness (as CaCO3)	126 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	29.2 mg/L	5	SM2540D
Solids, Total (TS)	189 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	120 mg/L	10	SM2540C
Sulfate	13 mg/L	0.25	300.0
Calcium	44000 ug/L	1000	200.7
Magnesium	3900 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.76 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .62 mg/L	0.62	351.2
TOC	1.7 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 Silversville Road Latitude: 38 50 51.36 Longitude: -86 39 31.82
 Drainage: 114.013 Site Number: 25T-011

SiteID: WEL-09-0017 Sample Date: 2/3/2025 IDEM Sample #: AC42853
 Water Flow Type Run Water Appearance Murky Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	95.6 %		ASTM D888-09(C)
DO	11.43 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	292.2 umho/cm		SM2510B
Temperature	7.6 °C		SM2550B(2)
Turbidity (Hach)	12.5 NTU		180.1
pH (Field)	7.89 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 #: 50392824003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	106 mg/L	10	SM2320B
Chloride	13 mg/L	0.25	300.0
Hardness (as CaCO3)	137 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5 mg/L	2.5	SM2540D
Solids, Total (TS)	169 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	172 mg/L	10	SM2540C
Sulfate	17.2 mg/L	0.25	300.0
Calcium	47200 ug/L	1000	200.7
Magnesium	4630 ug/L	1000	200.7
COD	11.9 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	< .05 mg/L	0.05	365.1
TKN	.53 mg/L	0.5	351.2
TOC	2.3 mg/L	1	SM5310C

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

SiteID: WEL-09-0017

Sample Date: 3/11/2025

IDEM Sample #: AC43532

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	95.6 %		ASTM D888-09(C)
DO	11.05 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	320.7 umho/cm		SM2510B
Temperature	9 °C		SM2550B(2)
Turbidity (Hach)	8.83 NTU		180.1
pH (Field)	7.95 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 #: 50395967003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	144 mg/L	10	SM2320B
Chloride	10.7 mg/L	0.25	300.0
Hardness (as CaCO3)	160 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	183 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	181 mg/L	10	SM2540C
Sulfate	19.8 mg/L	0.25	300.0
Calcium	55000 ug/L	1000	200.7
Magnesium	5490 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.69 mg/L	0.1	353.2
Phosphorus, Total	.051 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.5 mg/L	1	SM5310C

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

SiteID: WEL-09-0017

Sample Date: 4/8/2025

IDEM Sample #: AC44003

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	96.9 %		ASTM D888-09(C)
DO	10.74 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	268.7 umho/cm		SM2510B
Temperature	10.8 °C		SM2550B(2)
Turbidity (Hach)	29.9 NTU		180.1
pH (Field)	7.61 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50398212021	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	125 mg/L	10	SM2320B
Chloride	4.8 mg/L	0.25	300.0
Hardness (as CaCO3)	132 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	37.2 mg/L	5	SM2540D
Solids, Total (TS)	206 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	148 mg/L	10	SM2540C
Sulfate	13.6 mg/L	0.25	300.0
Calcium	46100 ug/L	1000	200.7
Magnesium	4080 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.79 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.6 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	

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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	

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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	

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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: 94.2595 Site Number: 25T-016

SiteID: WEL-09-0022 Sample Date: 2/3/2025 IDEM Sample #: AC42854
 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	121.3 %		ASTM D888-09(C)
DO	13.51 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	349.2 umho/cm		SM2510B
Temperature	10.7 °C		SM2550B(2)
Turbidity (Hach)	9.04 NTU		180.1
pH (Field)	8.38 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 #: 50392824004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	141 mg/L	10	SM2320B
Chloride	7.8 mg/L	0.25	300.0
Hardness (as CaCO3)	179 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6 mg/L	2.5	SM2540D
Solids, Total (TS)	212 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	211 mg/L	10	SM2540C
Sulfate	26.2 mg/L	0.25	300.0
Calcium	61700 ug/L	1000	200.7
Magnesium	6150 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	1.3 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.5 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: 3/11/2025

IDEM Sample #: AC43533

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	122.9 %		ASTM D888-09(C)
DO	13.7 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	396.1 umho/cm		SM2510B
Temperature	10.6 °C		SM2550B(2)
Turbidity (Hach)	6.37 NTU		180.1
pH (Field)	8.37 SU		150.2
Air Temp	4	Lookup	Observation
Sky Conditions	1	Lookup	Observation
Wind Direction	27	Lookup	Observation
Wind Strength	0	Lookup	Observation

Lab ID #: 50395967004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	133 mg/L	10	SM2320B
Chloride	10.8 mg/L	0.25	300.0
Hardness (as CaCO3)	153 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	196 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	186 mg/L	10	SM2540C
Sulfate	23.5 mg/L	0.25	300.0
Calcium	52000 ug/L	1000	200.7
Magnesium	5570 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.76 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.5 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: 4/7/2025

IDEM Sample #: AC44008

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	98.4 %		ASTM D888-09(C)
DO	10.66 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	302.3 umho/cm		SM2510B
Temperature	11.7 °C		SM2550B(2)
Turbidity (Hach)	37.8 NTU		180.1
pH (Field)	7.45 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 #: 50398212004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	132 mg/L	10	SM2320B
Chloride	4.5 mg/L	0.25	300.0
Hardness (as CaCO3)	155 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.2 mg/L	2.5	SM2540D
Solids, Total (TS)	216 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	173 mg/L	10	SM2540C
Sulfate	17.8 mg/L	0.25	300.0
Calcium	54200 ug/L	1000	200.7
Magnesium	4670 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.96 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: WEL-09-0023 USGS Hydrologic Unit: 051202080903
 Stream Name: Indian Creek County: Lawrence
 Description: Boone Hollow Road Latitude: 38 54 30.72 Longitude: -86 39 34.18
 Drainage: 81.097 Site Number: 25T-017

SiteID: WEL-09-0023 Sample Date: 4/7/2025 IDEM Sample #: AC44000
 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	93.5 %		ASTM D888-09(C)
DO	10.67 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	194.7 umho/cm		SM2510B
Temperature	9.5 °C		SM2550B(2)
Turbidity (Hach)	32.4 NTU		180.1
pH (Field)	7.23 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 #: 50398212002	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	81.6 mg/L	10	SM2320B
Chloride	4.3 mg/L	0.25	300.0
Hardness (as CaCO3)	90.4 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.7 mg/L	2.5	SM2540D
Solids, Total (TS)	160 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	113 mg/L	10	SM2540C
Sulfate	9.8 mg/L	0.25	300.0
Calcium	31200 ug/L	1000	200.7
Magnesium	3010 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.65 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**

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-09-0026 USGS Hydrologic Unit: 051202080902
 Stream Name: Mitchell Branch County: Greene
 Description: SR 54 Latitude: 38 58 40.56 Longitude: -86 42 12.41
 Drainage: 3.8735 Site Number: 25T-023

SiteID: WEL-09-0026 Sample Date: 4/7/2025 IDEM Sample #: AC44011
 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	97.6 %		ASTM D888-09(C)
DO	10.9 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	136 umho/cm		SM2510B
Temperature	10.5 °C		SM2550B(2)
Turbidity (Hach)	20.7 NTU		180.1
pH (Field)	7.35 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 #: 50398212007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	50.2 mg/L	10	SM2320B
Chloride	8.1 mg/L	0.25	300.0
Hardness (as CaCO3)	49.6 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.2 mg/L	2.5	SM2540D
Solids, Total (TS)	107 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	79 mg/L	10	SM2540C
Sulfate	11.3 mg/L	0.25	300.0
Calcium	15500 ug/L	1000	200.7
Magnesium	2630 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.19 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .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: WEL-09-0027 **USGS Hydrologic Unit:** 051202080902
Stream Name: Little Indian Creek **County:** Greene
Description: Rockeast Road **Latitude:** 39 0 25.78 **Longitude:** -86 41 8.12
Drainage: 9.4045 **Site Number:** 25T-026

SiteID: WEL-09-0027 **Sample Date:** 4/7/2025 **IDEM Sample #:** AC43990
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	99 %		ASTM D888-09(C)
DO	10.47 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	209.6 umho/cm		SM2510B
Temperature	13 °C		SM2550B(2)
Turbidity (Hach)	44.3 NTU		180.1
pH (Field)	7.59 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 #: 50398212010	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	98 mg/L	10	SM2320B
Chloride	3 mg/L	0.25	300.0
Hardness (as CaCO3)	98.5 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	29.1 mg/L	2.9	SM2540D
Solids, Total (TS)	162 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	127 mg/L	10	SM2540C
Sulfate	10.1 mg/L	0.25	300.0
Calcium	35300 ug/L	1000	200.7
Magnesium	2530 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.54 mg/L	0.1	353.2
Phosphorus, Total	.067 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.6 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-09-0028 USGS Hydrologic Unit: 051202080901
 Stream Name: Indian Creek County: Monroe
 Description: Breeden Road Latitude: 39 3 45.28 Longitude: -86 40 24.28
 Drainage: 14.3955 Site Number: 25T-027

SiteID: WEL-09-0028 Sample Date: 4/9/2025 IDEM Sample #: AC43991
 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	99.2 %		ASTM D888-09(C)
DO	11.68 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	337.1 umho/cm		SM2510B
Temperature	8.2 °C		SM2550B(2)
Turbidity (Hach)	9.98 NTU		180.1
pH (Field)	7.9 SU		150.2
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50398212011	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	161 mg/L	10	SM2320B
Chloride	11 mg/L	0.25	300.0
Hardness (as CaCO3)	166 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.3 mg/L	2.5	SM2540D
Solids, Total (TS)	225 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	200 mg/L	10	SM2540C
Sulfate	14.7 mg/L	0.25	300.0
Calcium	60800 ug/L	1000	200.7
Magnesium	3420 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	1.4 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**

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: WEL110-0001 USGS Hydrologic Unit: 051202080903
 Stream Name: Indian Creek County: Greene
 Description: SR 58 Latitude: 38 54 59.34 Longitude: -86 41 27.97
 Drainage: 71.957 Site Number: 25T-019

SiteID: WEL110-0001 Sample Date: 4/7/2025 IDEM Sample #: AC43989
 Water Flow Type Run Water Appearance Murky Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	94.3 %		ASTM D888-09(C)
DO	10.83 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	196.7 umho/cm		SM2510B
Temperature	9.3 °C		SM2550B(2)
Turbidity (Hach)	32.4 NTU		180.1
pH (Field)	7.09 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 #: 50398212001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	83.6 mg/L	10	SM2320B
Chloride	4.6 mg/L	0.25	300.0
Hardness (as CaCO3)	91.2 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	21.6 mg/L	2.5	SM2540D
Solids, Total (TS)	141 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	111 mg/L	10	SM2540C
Sulfate	9.9 mg/L	0.25	300.0
Calcium	31500 ug/L	1000	200.7
Magnesium	3030 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.59 mg/L	0.1	353.2
Phosphorus, Total	.069 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: WEL110-0002 **USGS Hydrologic Unit:** 051202080906
Stream Name: Indian Creek **County:** Martin
Description: SR 450, near Trinity Springs **Latitude:** 38 45 20.68 **Longitude:** -86 45 24.09
Drainage: 161.395 **Site Number:** 25T-003

SiteID: WEL110-0002 **Sample Date:** 4/8/2025 **IDEM Sample #:** AC43998
Water Flow Type: Flood **Water Appearance:** Murky **Water Depth:** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %:** 0-20%
Sample Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	81.9 %		ASTM D888-09(C)
DO	9.23 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	183.8 umho/cm		SM2510B
Temperature	10 °C		SM2550B(2)
Turbidity (Hach)	32.3 NTU		180.1
pH (Field)	7.49 SU		150.2
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50398212027	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	87.6 mg/L	10	SM2320B
Chloride	3.1 mg/L	0.25	300.0
Hardness (as CaCO3)	87.5 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	13.2 mg/L	2.5	SM2540D
Solids, Total (TS)	135 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	108 mg/L	10	SM2540C
Sulfate	9.5 mg/L	0.25	300.0
Calcium	30200 ug/L	1000	200.7
Magnesium	2930 ug/L	1000	200.7
COD	11.7 mg/L	10	410.4
Nitrogen, Ammonia	< .1 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	< .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**

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: WEL110-0003 USGS Hydrologic Unit: 051202080905
 Stream Name: Little Sulphur Creek County: Martin
 Description: Hollow Lane Latitude: 38 48 24.97 Longitude: -86 44 52.00
 Drainage: 5.2305 Site Number: 25T-006

SiteID: WEL110-0003 Sample Date: 4/8/2025 IDEM Sample #: AC43995
 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	95 %		ASTM D888-09(C)
DO	11.05 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	101.8 umho/cm		SM2510B
Temperature	8.7 °C		SM2550B(2)
Turbidity (Hach)	14.8 NTU		180.1
pH (Field)	7.48 SU		150.2
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50398212015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	43.8 mg/L	10	SM2320B
Chloride	1.2 mg/L	0.25	300.0
Hardness (as CaCO3)	44.2 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6 mg/L	2.5	SM2540D
Solids, Total (TS)	69 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	65 mg/L	10	SM2540C
Sulfate	11.6 mg/L	0.25	300.0
Calcium	13600 ug/L	1000	200.7
Magnesium	2490 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	1.2 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: WEL110-0005 USGS Hydrologic Unit: 051202080903
 Stream Name: Spring Creek County: Lawrence
 Description: Armstrong Station Road Latitude: 38 54 33.18 Longitude: -86 39 18.64
 Drainage: 12.9485 Site Number: 25T-018

SiteID: WEL110-0005 Sample Date: 4/7/2025 IDEM Sample #: AC44007
 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	98.7 %		ASTM D888-09(C)
DO	10.71 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	300.6 umho/cm		SM2510B
Temperature	11.6 °C		SM2550B(2)
Turbidity (Hach)	39.7 NTU		180.1
pH (Field)	7.38 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 #: 50398212003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	128 mg/L	10	SM2320B
Chloride	4.5 mg/L	0.25	300.0
Hardness (as CaCO3)	152 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.7 mg/L	2.5	SM2540D
Solids, Total (TS)	237 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	168 mg/L	10	SM2540C
Sulfate	17.8 mg/L	0.25	300.0
Calcium	53400 ug/L	1000	200.7
Magnesium	4590 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.92 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: WEL110-0006 USGS Hydrologic Unit: 051202080903
 Stream Name: Indian Creek County: Lawrence
 Description: SR 54 Latitude: 38 57 2.52 Longitude: -86 40 30.77
 Drainage: 60.7065 Site Number: 25T-021

SiteID: WEL110-0006 Sample Date: 2/3/2025 IDEM Sample #: AC42855
 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	109.4 %		ASTM D888-09(C)
DO	12.73 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	286 umho/cm		SM2510B
Temperature	8.7 °C		SM2550B(2)
Turbidity (Hach)	9.96 NTU		180.1
pH (Field)	8.17 SU		150.2
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50392824005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	100 mg/L	10	SM2320B
Chloride	17.2 mg/L	0.25	300.0
Hardness (as CaCO3)	128 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.1 mg/L	2.5	SM2540D
Solids, Total (TS)	172 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	174 mg/L	10	SM2540C
Sulfate	18.2 mg/L	0.25	300.0
Calcium	43900 ug/L	1000	200.7
Magnesium	4350 ug/L	1000	200.7
COD	11 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.68 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**

SiteID: WEL110-0006

Sample Date: 3/11/2025

IDEM Sample #: AC43534

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	112.8 %		ASTM D888-09(C)
DO	12.55 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	294.4 umho/cm		SM2510B
Temperature	10.6 °C		SM2550B(2)
Turbidity (Hach)	7.1 NTU		180.1
pH (Field)	8.25 SU		150.2
Air Temp	4	Lookup	Observation
Sky Conditions	1	Lookup	Observation
Wind Direction	27	Lookup	Observation
Wind Strength	0	Lookup	Observation

Lab ID #: 50395967005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	122 mg/L	10	SM2320B
Chloride	13.8 mg/L	0.25	300.0
Hardness (as CaCO3)	139 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	184 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	165 mg/L	10	SM2540C
Sulfate	19.7 mg/L	0.25	300.0
Calcium	47800 ug/L	1000	200.7
Magnesium	4700 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.55 mg/L	0.1	353.2
Phosphorus, Total	< .05 mg/L	0.05	365.1
TKN	< .5 mg/L	0.5	351.2
TOC	1.5 mg/L	1	SM5310C

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

SiteID: WEL110-0006

Sample Date: 4/7/2025

IDEM Sample #: AC44010

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	96.4 %		ASTM D888-09(C)
DO	10.76 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	216 umho/cm		SM2510B
Temperature	10.5 °C		SM2550B(2)
Turbidity (Hach)	24.8 NTU		180.1
pH (Field)	7.62 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 #: 50398212006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	94.4 mg/L	10	SM2320B
Chloride	5.8 mg/L	0.25	300.0
Hardness (as CaCO3)	97.4 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	25.7 mg/L	2.5	SM2540D
Solids, Total (TS)	161 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	119 mg/L	10	SM2540C
Sulfate	10.9 mg/L	0.25	300.0
Calcium	34100 ug/L	1000	200.7
Magnesium	2970 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.64 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**

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: 24.4275 Site Number: 25T-025

SiteID: WEL110-0008 Sample Date: 2/3/2025 IDEM Sample #: AC42856
 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	115.9 %		ASTM D888-09(C)
DO	13.29 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	321.3 umho/cm		SM2510B
Temperature	9.2 °C		SM2550B(2)
Turbidity (Hach)	8.43 NTU		180.1
pH (Field)	8.29 SU		150.2
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50392824006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	104 mg/L	10	SM2320B
Chloride	20.9 mg/L	2.5	300.0
Hardness (as CaCO3)	138 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7 mg/L	2.5	SM2540D
Solids, Total (TS)	187 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	179 mg/L	10	SM2540C
Sulfate	23.1 mg/L	0.25	300.0
Calcium	47600 ug/L	1000	200.7
Magnesium	4670 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.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	1.8 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: 3/11/2025

IDEM Sample #: AC43535

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	124.9 %		ASTM D888-09(C)
DO	13.76 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	325.1 umho/cm		SM2510B
Temperature	11.3 °C		SM2550B(2)
Turbidity (Hach)	6.47 NTU		180.1
pH (Field)	8.39 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 #: 50395967006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	128 mg/L	10	SM2320B
Chloride	19.4 mg/L	0.25	300.0
Hardness (as CaCO3)	151 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.6 mg/L	2.5	SM2540D
Solids, Total (TS)	191 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	178 mg/L	10	SM2540C
Sulfate	23.8 mg/L	0.25	300.0
Calcium	52100 ug/L	1000	200.7
Magnesium	4930 ug/L	1000	200.7
COD	12.2 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.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	1.7 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: 4/7/2025

IDEM Sample #: AC44013

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	99.2 %		ASTM D888-09(C)
DO	10.86 mg/L		ASTM D888-09(C)
Specific Conductance (Field)	234.6 umho/cm		SM2510B
Temperature	11.3 °C		SM2550B(2)
Turbidity (Hach)	23.7 NTU		180.1
pH (Field)	7.56 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 #: 50398212009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	97.6 mg/L	10	SM2320B
Chloride	7.7 mg/L	0.25	300.0
Hardness (as CaCO3)	103 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19 mg/L	5	SM2540D
Solids, Total (TS)	170 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	126 mg/L	10	SM2540C
Sulfate	13.7 mg/L	0.25	300.0
Calcium	36200 ug/L	1000	200.7
Magnesium	3120 ug/L	1000	200.7
COD	< 10 mg/L	10	410.4
Nitrogen, Ammonia	< .1 mg/L	0.1	350.1
Nitrogen, Nitrate+Nitrite	.65 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	