SiteID: WLV190-0010 USGS Hydrologic Unit: 051201081504 Stream Name: Big Raccoon Creek County: Parke Description: CR 600 West 39 45 34.24778 Longitude: -87 21 3.83528 Site Number: 23T-001 Drainage: 513.799 SiteID: WLV190-0010 Sample Date: 8/8/2023 IDEM Sample #: AC30689 ☐ Algae? Clear Water Flow Type Run Water Appearance **Water Depth** ☐ Flow Estimated? ☐ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: **Reporting Limit** Result **Method** 93.8 % % Sat ASTM D888-09(C) DO ASTM D888-09(C) 8.12 mg/L pH (Field) 7.93 SU EPA 150.2 Specific Conductance (Field) 473.6 umho/cm SM2510B 22.3 °C Temperature SM2550B(2) Turbidity (Hach) 18.4 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 2 Lookup Observation

Wind Strength	0	Lookup		Observation
Lab ID #: 50351437001	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	204	mg/L	10	SM2320B
Chloride	14.2	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	244	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	29.2	mg/L	2.5	SM2540D
Solids, Total (TS)	306	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	265	mg/L	10	SM2540C
Sulfate	21.7	mg/L	0.25	EPA 300.0
Calcium (Total)	63200	ug/L	1000	EPA 200.7
Magnesium (Total)	21000	ug/L	1000	EPA 200.7
COD	14	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.7	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.075	mg/L	0.05	EPA 365.1
TKN	0.87	mg/L	0.5	EPA 351.2
TOC	3.9	mg/L	1	SM5310C
Lab ID #: AC30689	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	461.1	MPN/100mL	1	3M9223B(Colilert-18

27 Lookup

Wind Direction

Observation

Water Flow (ct/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Result Reporting Limit Method % Sat DD # Per Method % Sat DD # 92.4 % ASTM D888-09(C) ASTM D888-09(C) ASTM D888-09(C) ASTM D888-09(C) PH (Field) 7.95 SU EPA 150.2 SM2510B Specific Conductance (Field) 367 umho/cm SM2510B SM2510B Temperature 19.9 °C SM2550B(2) EPA 180.1 DSEA 180.1 <	SiteID: WLV190-0010	Sample Date: 8/15/2023		IDEM Sample	e #: AC30709	
Lab ID #: Result Reporting Limit Method	Water Flow Type Run	Water Appearance	Brown		Water Depth	☐ Algae?
Lab ID #: Result Reporting Limit Method	Water Flow (cf/sec):	☐ Flow Estimated?	. □ Aa	uatic Life?	Canopy Closed %	0-20%
Result Reporting Limit Method			•		,	
Sat 92.4 % ASTM D888-09(C)	campier comments.					
DO	Lab ID #:		Result		Reporting Limit	<u>Method</u>
PH (Field) 7.95 SU	% Sat		92.4	%		ASTM D888-09(C)
Specific Conductance (Field) 367 umho/cm SM2510B Temperature 19.9 °C SM2550B(2) Turbidity (Hach) 40.5 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 3 Lookup Observation Sky Conditions 3 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Wind Strength 3 Lookup Observation Wind Strength 2419.6 MPN/100mL 2419.6 MPS223B(Colliert-18 E. coli 1299.7 MPN/100mL 1 Method SiteID: WLV190-0010 Sample Date: 8/22/2023 IDEM Sample #: AC30729 Water Flow Type Glide Water Appearance Clear Water Depth Algae? Water Flow (cf/sec):	DO		8.42	mg/L		ASTM D888-09(C)
Temperature 19.9 °C SM2550B(2) Turbidity (Hach) 40.5 NTU EPA 180.1 Alf Temp 4 Lookup Observation Sky Conditions 3 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Wind Strength 3 Lookup Observation Coliforms (Total) > 2419.6 MPN/100mL 2419.6 E. coli 1299.7 MPN/100mL 1 SM9223B(Colliert-18 SitelD: WLV190-0010 Sample Date: 8/22/2023 IDEM Sample #: AC30729 Water Flow Type Glide Water Appearance Clear Water Depth Algae? Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Result Reporting Limit Method	pH (Field)		7.95	SU		EPA 150.2
Turbidity (Hach)	Specific Conductance (Field)		367	umho/cm		SM2510B
Air Temp Sky Conditions 3 Lookup Observation Ob	Temperature		19.9	°C		SM2550B(2)
Sky Conditions Wind Direction 27 Lookup Observation Observa	Turbidity (Hach)		40.5	NTU		EPA 180.1
Wind Direction Wind Strength 27 Lookup Observation Observation	Air Temp		4	Lookup		Observation
Note	Sky Conditions		3	Lookup		Observation
Result Reporting Limit Method	Wind Direction		27	Lookup		Observation
Coliforms (Total) Sample Sample	Wind Strength		3	Lookup		Observation
E. coli 1299.7 MPN/100mL 1 3M9223B(Colilert-18	Lab ID # : AC30709		<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli	Coliforma (Total)		> 2410.6	MDN/400ml	2410.6	M0222P/Colliest 19
SiteID: WLV190-0010 Sample Date: 8/22/2023 IDEM Sample #: AC30729						
Water Flow (cf/sec): Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Result Reporting Limit Method % Sat 105.9 % ASTM D888-09(C) DO 8.05 mg/L ASTM D888-09(C) PH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 SM923B(Colilert-18						
Result Reporting Limit Method	SiteID: WLV190-0010	Sample Date: 8/22/2023		IDEM Sample	e#: AC30729	
Lab ID #: Result Reporting Limit Method % Sat 105.9 % ASTM D888-09(C) DO 8.05 mg/L ASTM D888-09(C) pH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 MPS/23B(Colilert-18		•		_		☐ Algae?
% Sat 105.9 % ASTM D888-09(C) DO 8.05 mg/L ASTM D888-09(C) pH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 SM9223B(Colilert-18		Water Appearance	Clear	-	Water Depth	_
DO 8.05 mg/L ASTM D888-09(C) pH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 MPS223B(Colilert-18	Water Flow Type Glide	Water Appearance	Clear	-	Water Depth	_
pH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Aq	-	Water Depth Canopy Closed %	0-20%
pH (Field) 8.21 SU EPA 150.2 Specific Conductance (Field) 494.4 umho/cm SM2510B Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear Aq Result	uatic Life?	Water Depth Canopy Closed %	0-20%
Temperature 29.5 °C SM2550B(2) Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Appearance	Clear Aq Result	uatic Life?	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Turbidity (Hach) 8.28 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Clear Aq Result 105.9 8.05	watic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Clear Aq Result 105.9 8.05 8.21	watic Life? % mg/L SU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 105.9 8.05 8.21 494.4	watic Life? % mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 105.9 8.05 8.21 494.4 29.5	watic Life? % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Wind Direction Wind Strength 27 Lookup Observation Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 105.9 8.05 8.21 494.4 29.5 8.28	watic Life? % mg/L SU umho/cm °C NTU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Wind Strength 0 Lookup Observation Lab ID #: AC30729 Result Reporting Limit Method Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 105.9 8.05 8.21 494.4 29.5 8.28 6	watic Life? % mg/L SU umho/cm °C NTU Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Clear Result 105.9 8.05 8.21 494.4 29.5 8.28 6 2	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Clear Result 105.9 8.05 8.21 494.4 29.5 8.28 6 2 27	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance	Clear	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
	Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30729	Water Appearance	Clear	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method

	Sample Date: 8/	30/2023	IDEM Sample	#: AC30749	
Water Flow Type Run	Water App	bearance Brow	vn '	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Es	stimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
% Sat		84	4.3 %		ASTM D888-09(C)
DO		7.	47 mg/L		ASTM D888-09(C)
pH (Field)		8.	05 SU		EPA 150.2
Specific Conductance (Field)		49	1.2 umho/cm		SM2510B
Temperature		2	1.1 °C		SM2550B(2)
Turbidity (Hach)		2	I.8 NTU		EPA 180.1
Air Temp			4 Lookup		Observation
Sky Conditions			1 Lookup		Observation
Wind Direction			27 Lookup		Observation
Wind Strength			2 Lookup		Observation
Lab ID # : AC30749		Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419	9.6 MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		488	3.4 MPN/100mL	1	3M9223B(Colilert-18
SiteID: WI V190-0010	Sample Date: 9/	5/2023	IDFM Sample	e #: AC30769	
	Sample Date: 9/	5/2023 Dearance Clea	•	#: AC30769 Water Depth	☐ Algae?
Water Flow Type Run	Water App	pearance Clea	r	Water Depth	_
	Water App	pearance Clea	•		-
Nater Flow Type Run Nater Flow (cf/sec):	Water App	pearance Clea	r Aquatic Life?	Water Depth	-
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water App	pearance Cleanstimated?	r Aquatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water App	clearance Clearance Clearance Resu	r Aquatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water App	coearance Clear stimated? Resu 108 8.	Aquatic Life?	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water App	clearance Clear stimated? Result 108 8. 8.	Aquatic Life? It 3.7 % 88 mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water App	Resu 108 8. 49	Aquatic Life? It 3.7 % 88 mg/L 12 SU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water App	Resu 108 8. 49°	Aquatic Life? Lit 3.7 % 88 mg/L 12 SU 1.3 umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water App	Resu 108 8. 49°	Aquatic Life? It 3.7 % 88 mg/L 12 SU 1.3 umho/cm 5.5 °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water App	Resu 108 8. 49°	Aquatic Life? It 3.7 % 88 mg/L 12 SU 1.3 umho/cm 5.5 °C 03 NTU 6 Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water App	Resu 108 8. 49 25	Aquatic Life? It 3.7 % 88 mg/L 12 SU 1.3 umho/cm 5.5 °C 03 NTU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID # : 50353339001	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	225	mg/L	10	SM2320B
Chloride	13.1	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	260	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.9	mg/L	2.5	SM2540D
Solids, Total (TS)	291	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	259	mg/L	10	SM2540C
Sulfate	23.9	mg/L	0.25	EPA 300.0
Calcium (Total)	67900	ug/L	1000	EPA 200.7
Magnesium (Total)	21800	ug/L	1000	EPA 200.7
COD	10.4	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.58	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.4	mg/L	1	SM5310C
Lab ID #: AC30769	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	238.2	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0010 **Sample Date:** 10/3/2023 **IDEM Sample #:** AC37548

Water Flow Type Run Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	86.3	%		ASTM D888-09(C)
DO	7.93	mg/L		ASTM D888-09(C)
pH (Field)	7.7	SU		EPA 150.2
Specific Conductance (Field)	490	umho/cm		SM2510B
Temperature	19.5	°C		SM2550B(2)
Turbidity (Hach)	4.23	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Lab ID #: 50355619002	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	217	mg/L	10	SM2320B
Chloride	16.3	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	263	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.1	mg/L	2.5	SM2540D
Solids, Total (TS)	273	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	258	mg/L	10	SM2540C
Sulfate	21.9	mg/L	0.25	EPA 300.0
Calcium (Total)	67500	ug/L	1000	EPA 200.7
Magnesium (Total)	22900	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.64	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.069	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID #: AC37548	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	172.6	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions						
S	C		WD	WS	AT	
Sky Co	nditions	1	Vind Direction	Wind Strength	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		

SiteID: WLV-15-0004 USGS Hydrologic Unit: 051201081504 Stream Name: Tributary of Big Raccoon Creek County: Parke **Description:** McAdams Road Latitude: 39 44 4.92319 Longitude: -87 19 28.05978 Drainage: Site Number: 23T-002 SiteID: WLV-15-0004 Sample Date: 8/8/2023 IDEM Sample #: AC30699 ☐ Algae? Clear Water Flow Type Riffle Water Appearance Water Depth Flow Estimated? Aquatic Life? Water Flow (cf/sec): Canopy Closed % Sampler Comments: Lab ID #: Result **Reporting Limit Method** 90.4 % % Sat ASTM D888-09(C) ASTM D888-09(C) DO 8.2 mg/L 7.88 SU EPA 150.2 pH (Field) Specific Conductance (Field) 610 umho/cm SM2510B 20 °C Temperature SM2550B(2) 12.9 NTU Turbidity (Hach) EPA 180.1 5 Lookup Air Temp Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: 50351437002 **Reporting Limit** Result <u>Method</u> Alkalinity (as CaCO3) 225 mg/L 10 SM2320B Chloride 10.5 mg/L 0.25 EPA 300.0 Hardness (as CaCO3) 246 mg/L 10 SM2340B Solids, Suspended Total, (TSS) 13.8 mg/L 2.5 SM2540D Solids, Total (TS) 403 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 366 mg/L 10 SM2540C Sulfate 79.2 mg/L 2.5 EPA 300.0 Calcium (Total) 61300 ug/L 1000 EPA 200.7 Magnesium (Total) 22500 ug/L 1000 EPA 200.7

Lab ID # : AC30699	<u>Result</u>	Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	1732.9 MPN/100mL	1	3M9223B(Colilert-18

12.8 mg/L

< 0.1 mg/L

0.22 mg/L

< 0.05 mg/L

< 0.5 mg/L

3.8 mg/L

10

0.1

0.1

0.05

0.5

1

COD

TKN

TOC

Nitrogen, Ammonia

Phosphorus, Total

Nitrogen, Nitrate+Nitrite

EPA 410.4

EPA 350.1

EPA 353.2

EPA 365.1

EPA 351.2

SM5310C

SiteID: WLV-15-0004	Sample Date: 8/15/2023	l	IDEM Sampl	e # : AC30719	
Water Flow Type Pool	Water Appearance	Clear		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Aqu	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		•			
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		96.2	%		ASTM D888-09(C)
DO		8.63 r	mg/L		ASTM D888-09(C)
pH (Field)		7.9 \$	SU		EPA 150.2
Specific Conductance (Field)		650 ι	umho/cm		SM2510B
Temperature		20.6	°C		SM2550B(2)
Turbidity (Hach)		2.75	NTU		EPA 180.1
Air Temp		4 L	Lookup		Observation
Sky Conditions		4 l	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # : AC30719		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2/10 6 M	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli			MPN/100mL	1	3M9223B(Collert-18
	Sample Date: 8/30/2023 Water Appearance			e #: AC30759 Water Depth	☐ Algae?
Water Flow Type Pool	Water Appearance	Clear		Water Depth	☐ Algae?
Water Flow Type Pool Water Flow (cf/sec):	Water Appearance Flow Estimated?	Clear			
Water Flow Type Pool Water Flow (cf/sec):	Water Appearance	Clear		Water Depth	
Water Flow Type Pool Water Flow (cf/sec):	Water Appearance Flow Estimated?	Clear		Water Depth	
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat	Water Appearance Flow Estimated?	Clear Aqu Result	uatic Life?	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #:	Water Appearance Flow Estimated?	Clear Aqu Result	uatic Life?	Water Depth Canopy Closed %	0-20%
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field)	Water Appearance Flow Estimated?	Clear Aqu Result 82.2 9 7.62 r 7.78 8	watic Life? % mg/L SU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Clear ✓ Aqu Result 82.2 9 7.62 r 7.78 9 558 0	watic Life? % mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 9 558 0 19.3 9	watic Life? % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Clear ✓ Aqu Result 82.2 9 7.62 r 7.78 9 558 0	watic Life? % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 9 558 0 19.3 9 3.85 f	watic Life? % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 8 558 r 19.3 9 3.85 r 4 r	watic Life? % mg/L SU umho/cm °C NTU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 9 19.3 9 3.85 r 4 l 1 l	watic Life? % mg/L SU umho/cm °C NTU Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 8 19.3 9 3.85 r 4 L 1 L 27 L	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat	Water Appearance Flow Estimated?	Result 82.2 9 7.62 r 7.78 8 19.3 9 3.85 r 4 L 1 L 27 L	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Log jam Lab ID #: % Sat	Water Appearance Flow Estimated?	Result 82.2 9 7.62 7 7.78 8 558 1 19.3 9 3.85 1 1 1 27 1 3 1	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0004 Sample Date: 9/5/2023 IDEM Sample #: AC30779 Water Depth ☐ Algae? Water Flow Type Stagnant Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% Log jam. Stream mostly dry. Took sample in small pool of water. Sampler Comments: Lab ID #: Result **Reporting Limit Method** 2.6 % % Sat ASTM D888-09(C) DO 0.23 mg/L ASTM D888-09(C) 7.36 SU pH (Field) EPA 150.2 Specific Conductance (Field) 689 umho/cm SM2510B Temperature 20.7 °C SM2550B(2) Turbidity (Hach) 4.77 NTU EPA 180.1 Air Temp 6 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: 50353339002 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 258 mg/L 10 SM2320B Chloride 10.7 mg/L 0.25 EPA 300.0 Hardness (as CaCO3) 305 mg/L 10 SM2340B 3 mg/L Solids, Suspended Total, (TSS) SM2540D 2.5 Solids, Total (TS) 410 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 390 mg/L 10 SM2540C Sulfate 82.6 mg/L 2.5 EPA 300.0 Calcium (Total) 78400 ug/L 1000 EPA 200.7 26400 ug/L Magnesium (Total) 1000 EPA 200.7 COD 11.1 mg/L 10 EPA 410.4 Nitrogen, Ammonia < 0.1 mg/L EPA 350.1 0.1 Nitrogen, Nitrate+Nitrite < 0.1 mg/L0.1 EPA 353.2 Phosphorus, Total < 0.05 mg/L0.05 EPA 365.1 < 0.5 mg/L 0.5 TKN EPA 351.2 TOC 3.4 mg/L 1 SM5310C Lab ID #: AC30779 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 3M9223B(Colilert-18 E. coli 185 MPN/100mL 1

SiteID: WLV-15-0004 Sample Date: 10/3/2023 IDEM Sample #: AC37558 Water Depth ☐ Algae? Water Flow Type Pool **Water Appearance** Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% Sampler Comments: Only a pool under the bridge and rest of stream has run dry. Stagnant. Lab ID #: Result **Reporting Limit Method** 28.1 % % Sat ASTM D888-09(C) DO 2.7 mg/L ASTM D888-09(C) 7.16 SU pH (Field) EPA 150.2 Specific Conductance (Field) 786 umho/cm SM2510B Temperature 17.3 °C SM2550B(2) Turbidity (Hach) 4.03 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: 50355619001 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 306 mg/L 10 SM2320B Chloride 13 mg/L 2.5 EPA 300.0 Hardness (as CaCO3) 356 mg/L 10 SM2340B Solids, Suspended Total, (TSS) < 2.5 mg/L SM2540D 2.5 Solids, Total (TS) 508 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 470 mg/L 10 SM2540C Sulfate 94.8 mg/L 2.5 EPA 300.0 Calcium (Total) 91800 ug/L 1000 EPA 200.7 Magnesium (Total) 30900 ug/L 1000 EPA 200.7 < 10 mg/L COD 10 EPA 410.4

Lab ID #: AC37558	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	7.4 MPN/100mL	1	3M9223B(Colilert-18

< 0.1 mg/L

< 0.1 mg/L

0.16 mg/L

< 0.5 mg/L

2.4 mg/L

	Weather Code Definitions					
			WD	ws	AT	
Sky Co	nditions	1	Vind Direction	Wind Strength	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		

Nitrogen, Ammonia

Phosphorus, Total

TKN

TOC

Nitrogen, Nitrate+Nitrite

EPA 350.1

EPA 353.2

EPA 365.1

EPA 351.2

SM5310C

0.1

0.1

0.05

0.5

1

SiteID:WLV190-0012USGS Hydrologic Unit:051201081504Stream Name:Big Raccoon CreekCounty:Parke

Description: Wabash Street, Mecca Latitude: 39 43 45.26869 Longitude: -87 19 28.69273

Drainage: 475.859 **Site Number:** 23T-003

SitelD: WLV190-0012 **Sample Date:** 8/8/2023 **IDEM Sample #:** AC30700

Water Flow Type Run Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	95.8	%		ASTM D888-09(C)
DO	8.36	mg/L		ASTM D888-09(C)
pH (Field)		SU		EPA 150.2
Specific Conductance (Field)	454.9	umho/cm		SM2510B
Temperature	22.1	°C		SM2550B(2)
Turbidity (Hach)	8.1	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: 50351437020	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	198	mg/L	10	SM2320B
Chloride	14.4	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	229	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.4	mg/L	2.5	SM2540D
Solids, Total (TS)	296	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	253	mg/L	10	SM2540C
Sulfate	21	mg/L	0.25	EPA 300.0
Calcium (Total)	59600	ug/L	1000	EPA 200.7
Magnesium (Total)	19400	ug/L	1000	EPA 200.7
COD	11.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.66	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.055	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID # : AC30700	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	307.6	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0012	Sample Date: 8/15/2023	IDEM S	Sample #: AC30720	
Water Flow Type Run	Water Appearance	Murky	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Aquatic Li	fe? Canopy Closed %	0-20%
Sampler Comments:		•	, ,	
campier comments.				
Lab ID #:		Result	Reporting Limit	<u>Method</u>
% Sat		91.6 %		ASTM D888-09(C)
DO		8.46 mg/L		ASTM D888-09(C)
pH (Field)		7.88 SU		EPA 150.2
Specific Conductance (Field)		363 umho/c	m	SM2510B
Temperature		19.2 °C		SM2550B(2)
Turbidity (Hach)		29 NTU		EPA 180.1
Air Temp		4 Lookup		Observation
Sky Conditions		4 Lookup		Observation
Wind Direction		27 Lookup		Observation
Wind Strength		1 Lookup		Observation
Lab ID #: AC30720		<u>Result</u>	Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6 MPN/10	00mL 2419.6	3M9223B(Colilert-18
E. coli		920.8 MPN/10		3M9223B(Colilert-18
SiteID: WLV190-0012 Water Flow Type Run	Sample Date: 8/23/2023 Water Appearance	IDEM S	Sample #: AC30740 Water Depth	✓ Algae?
Water Flow Type Run	Water Appearance	Brown	Water Depth	
	•		Water Depth	
Water Flow Type Run Water Flow (cf/sec):	Water Appearance	Brown	Water Depth	
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	Brown ✓ Aquatic Li	Water Depth fe? Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Brown Aquatic Li Result 87 %	Water Depth fe? Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Brown Aquatic Li Result	Water Depth fe? Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Brown Aquatic Li Result 87 % 7.15 mg/L	Water Depth fe? Canopy Closed % Reporting Limit	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c	Water Depth fe? Canopy Closed % Reporting Limit	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU	Water Depth fe? Canopy Closed % Reporting Limit	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Brown Aquatic Li Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU	Water Depth fe? Canopy Closed % Reporting Limit	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Brown Aquatic Li Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup	Water Depth fe? Canopy Closed % Reporting Limit	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup 1 Lookup	Water Depth fe? Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Brown Aquatic Li Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup	Water Depth fe? Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup 1 Lookup 27 Lookup	Water Depth fe? Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30740	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup 1 Lookup 27 Lookup 1 Lookup 1 Lookup	Water Depth fe? Canopy Closed % Reporting Limit m	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance	Result 87 % 7.15 mg/L 8.08 SU 476.1 umho/c 25.2 °C 6.41 NTU 5 Lookup 1 Lookup 27 Lookup 1 Lookup	Water Depth fe? Canopy Closed % Reporting Limit m Reporting Limit 2419.6	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV190-0012	Sample Date: 8/30/2023		IDEM Sample	#: AC30760	
Water Flow Type Run	Water Appearance	Brown	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		86.9	%		ASTM D888-09(C)
DO		7.72	mg/L		ASTM D888-09(C)
pH (Field)		7.97	SU		EPA 150.2
Specific Conductance (Field)		483.1	umho/cm		SM2510B
Temperature		21.2	°C		SM2550B(2)
Turbidity (Hach)		20.3	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID #: AC30760		Result		Reporting Limit	<u>Method</u>
California (Tatal)		. 2440.6	MPN/100mL	2419.6	3M9223B(Colilert-18
Coliforms (Total) E. coli			MPN/100mL	1	3M9223B(Colilert-18
E. coli	Sample Date: 9/5/2023	435.2		1	
E. coli SitelD: WLV190-0012	Sample Date: 9/5/2023 Water Appearance	435.2	MPN/100mL IDEM Sample	1	
E. coli SiteID: WLV190-0012 Water Flow Type Run Water Flow (cf/sec):	-	435.2 Clear	MPN/100mL IDEM Sample	1 #: AC30780	SM9223B(Colilert-18
E. coli SiteID: WLV190-0012 Water Flow Type Run	Water Appearance	435.2 Clear	MPN/100mL IDEM Sample :	1 #: AC30780 /ater Depth	SM9223B(Colilert-18
E. coli SiteID: WLV190-0012 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	435.2 Clear	MPN/100mL IDEM Sample :	1 #: AC30780 /ater Depth	3M9223B(Colilert-18
E. coli SiteID: WLV190-0012 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	435.2 Clear ✓ Aq Result 125.5	MPN/100mL IDEM Sample : Watic Life?	#: AC30780 Vater Depth Canopy Closed %	Method ASTM D888-09(C)
E. coli SiteID: WLV190-0012 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear Aq Result	MPN/100mL IDEM Sample : Watic Life?	#: AC30780 Vater Depth Canopy Closed %	SM9223B(Colilert-18 Algae? 0-20% Method
E. coli SiteID: WLV190-0012 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22	MPN/100mL IDEM Sample : Wuatic Life? % mg/L SU	#: AC30780 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
E. coli SiteID: WLV190-0012 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22 507	MPN/100mL IDEM Sample: Watic Life? % mg/L SU umho/cm	#: AC30780 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
E. coli SiteID: WLV190-0012 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22	MPN/100mL IDEM Sample: Watic Life? % mg/L SU umho/cm	#: AC30780 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
E. coli SitelD: WLV190-0012 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22 507	MPN/100mL IDEM Sample : Wuatic Life? % mg/L SU umho/cm °C	#: AC30780 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
E. coli SiteID: WLV190-0012 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Appearance	Clear Result 125.5 9.95 8.22 507 27 8.38	MPN/100mL IDEM Sample : Wuatic Life? % mg/L SU umho/cm °C	#: AC30780 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
E. coli SitelD: WLV190-0012 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22 507 27 8.38 6	MPN/100mL IDEM Sample : Watic Life? % mg/L SU umho/cm °C NTU	#: AC30780 Vater Depth Canopy Closed %	M9223B(Colilert-18 Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV190-0012 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear ✓ Aq Result 125.5 9.95 8.22 507 27 8.38 6 2	MPN/100mL IDEM Sample : Wuatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AC30780 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID #: 50353339019	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	216	mg/L	10	SM2320B
Chloride	13	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	252	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.4	mg/L	2.5	SM2540D
Solids, Total (TS)	279	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	255	mg/L	10	SM2540C
Sulfate	22.2	mg/L	0.25	EPA 300.0
Calcium (Total)	65800	ug/L	1000	EPA 200.7
Magnesium (Total)	21400	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.67	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.4	mg/L	1	SM5310C
Lab ID #: AC30780	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	153.9	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0012 **Sample Date:** 10/3/2023 **IDEM Sample #:** AC37559

Water Flow Type Run Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

ab ID #:	Result	Reporting Limit	<u>Method</u>
% Sat	88.2 %		ASTM D888-09(C)
DO	87.9 mg/	/L	ASTM D888-09(C)
pH (Field)	7.96 SU		EPA 150.2
Specific Conductance (Field)	476.6 uml	ho/cm	SM2510B
Temperature	19 °C		SM2550B(2)
Turbidity (Hach)	3.39 NTU	U	EPA 180.1
Air Temp	4 Loo	okup	Observation
Sky Conditions	1 Loo	okup	Observation
Wind Direction	27 Loo	okup	Observation
Wind Strength	0 Loo	okup	Observation

Lab ID # : 50355619018	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	213	mg/L	10	SM2320B
Chloride	15.9	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	253	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.2	mg/L	2.5	SM2540D
Solids, Total (TS)	282	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	264	mg/L	10	SM2540C
Sulfate	20.4	mg/L	0.25	EPA 300.0
Calcium (Total)	64900	ug/L	1000	EPA 200.7
Magnesium (Total)	22100	ug/L	1000	EPA 200.7
COD	10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.56	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID # : AC37559	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	218.7	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions								
S	C		WD	WS	AT			
Sky Co	Sky Conditions Wind Direction Wind Streng		Wind Strength	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				

SiteID:WLV-15-0017USGS Hydrologic Unit:051201081504Stream Name:Big Raccoon CreekCounty:Parke

Description: Unnamed Farm Lane Latitude: 39 42 4.40920 Longitude: -87 19 2.54514

Drainage: 469.922 **Site Number:** 23T-005

SiteID: WLV-15-0017 **Sample Date:** 8/8/2023 **IDEM Sample #:** AC30701

Water Flow Type Run Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	103.6	%		ASTM D888-09(C)
DO	8.81	mg/L		ASTM D888-09(C)
pH (Field)	8.05	SU		EPA 150.2
Specific Conductance (Field)	451.2	umho/cm		SM2510B
Temperature	23.3	°C		SM2550B(2)
Turbidity (Hach)	7.12	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437003	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	196	mg/L	10	SM2320B
Chloride	14.6	mg/L	0.25	EPA 300.0
Fluoride	0.11	mg/L	0.1	EPA 300.0
Hardness (as CaCO3)	228	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	11.4	mg/L	2.5	SM2540D
Solids, Total (TS)	273	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	244	mg/L	10	SM2540C
Sulfate	19.1	mg/L	0.25	EPA 300.0
Calcium (Total)	59200	ug/L	1000	EPA 200.7
Magnesium (Total)	19400	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.7	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID #: AC30701	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	275.5	MPN/100mL	1	3M9223B(Colilert-18

Water Flow Type Eddy Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance Flow Estimated?	Brown Aquatic Life?	Water Depth Canopy Closed %	☐ Algae?
Sampler Comments: Lab ID #:	☐ Flow Estimated?	☐ Aquatic Life?	Canopy Closed %	· ·
Sampler Comments: Lab ID #:		·		0-20%
Lab ID #:				
		Result	Reporting Limit	<u>Method</u>
% Sat		91.2 %		ASTM D888-09(C)
DO		8.41 mg/L		ASTM D888-09(C)
pH (Field)		7.86 SU		EPA 150.2
Specific Conductance (Field)		358 umho/cm		SM2510B
Temperature		19.3 °C		SM2550B(2)
Turbidity (Hach)		32 NTU		EPA 180.1
Air Temp		4 Lookup		Observation
Sky Conditions		4 Lookup		Observation
Wind Direction		27 Lookup		Observation
Wind Strength		2 Lookup		Observation
Lab ID # : AC30721		<u>Result</u>	Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6 MPN/100m	L 2419.6	3M9223B(Colilert-18
E. coli		1119.9 MPN/100m		3M9223B(Collert-18
SiteID: WLV-15-0017 \$	Sample Date: 8/23/2023	IDEM Sam	ple #: AC30741	
Water Flow Type Eddy	Water Appearance	Brown	Water Depth	☐ Algae?
		_	-	
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #:		Result	Reporting Limit	<u>Method</u>
% Sat		91.8 %		ASTM D888-09(C)
DO		7.58 mg/L		ASTM D888-09(C)
5년 (Ei지점)		8.07 SU		EPA 150.2
pH (Field)				SM2510B
Specific Conductance (Field)		483.4 umho/cm		
		483.4 umho/cm 25 °C		SM2550B(2)
Specific Conductance (Field)				SM2550B(2) EPA 180.1
Specific Conductance (Field) Temperature		25 °C		
Specific Conductance (Field) Temperature Turbidity (Hach)		25 °C 5.97 NTU		EPA 180.1
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		25 °C 5.97 NTU 5 Lookup		EPA 180.1 Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		25 °C 5.97 NTU 5 Lookup 1 Lookup		EPA 180.1 Observation Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		25 °C 5.97 NTU 5 Lookup 1 Lookup 27 Lookup	Reporting Limit	EPA 180.1 Observation Observation Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		25 °C 5.97 NTU 5 Lookup 1 Lookup 27 Lookup 1 Lookup		EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0017	Sample Date: 8/30/2023		IDEM Sample #	: AC30761	
Water Flow Type Eddy	Water Appearance	Brown	Wa	ter Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?) Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		88.6	%		ASTM D888-09(C)
DO		7.88	mg/L		ASTM D888-09(C)
pH (Field)		8	SU		EPA 150.2
Specific Conductance (Field)		481.8	umho/cm		SM2510B
Temperature		21	°C		SM2550B(2)
Turbidity (Hach)		20	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # : AC30761		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		435.2	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0017	Sample Date: 9/5/2023		IDEM Sample #	· AC30781	
Water Flow Type Pool	Water Appearance	Murky	•	iter Depth	☐ Algae?
Water Flow (cf/sec):		. ,		•	J
()	☐ Flow Estimated?	· 🗸 Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:	☐ Flow Estimated?	o ✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Lab ID #:	☐ Flow Estimated?	Result	quatic Life?	Canopy Closed % Reporting Limit	0-20%
	☐ Flow Estimated?				
Lab ID #:	☐ Flow Estimated?	Result 129.1			<u>Method</u>
Lab ID #:	☐ Flow Estimated?	Result 129.1	% mg/L		Method ASTM D888-09(C)
Lab ID #: % Sat DO	☐ Flow Estimated?	Result 129.1 10.19 8.29	% mg/L		Method ASTM D888-09(C) ASTM D888-09(C)
Lab ID #: % Sat DO pH (Field)	☐ Flow Estimated?	Result 129.1 10.19 8.29	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	☐ Flow Estimated?	129.1 10.19 8.29 497 27.5	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	☐ Flow Estimated?	Result 129.1 10.19 8.29 497 27.5 7.07	% mg/L SU umho/cm °C NTU		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	129.1 10.19 8.29 497 27.5 7.07 6	% mg/L SU umho/cm °C NTU Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	☐ Flow Estimated?	129.1 10.19 8.29 497 27.5 7.07 6	% mg/L SU umho/cm °C NTU		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID # : 50353339003		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		212	mg/L	10	SM2320B
Chloride		13.1	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)		242	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)		7.9	mg/L	2.5	SM2540D
Solids, Total (TS)		277	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		247	mg/L	10	SM2540C
Sulfate		22.1	mg/L	0.25	EPA 300.0
Calcium (Total)		63100	ug/L	1000	EPA 200.7
Magnesium (Total)		20600	ug/L	1000	EPA 200.7
COD		< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia			mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			mg/L	0.1	EPA 353.2
Phosphorus, Total			mg/L	0.05	EPA 365.1
TKN			mg/L	0.5	EPA 351.2
TOC		2.6	mg/L	1	SM5310C
Lab ID #: AC30781		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		328.2	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0017	Sample Date: 10/3/2023		IDEM Sample #	#: AC37560	
Water Flow Type Pool	Water Appearance	Clear	W	ater Depth	☐ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated	? 🗸 Ad	quatic Life?	Canopy Closed %	0-20%
Lab ID #:		Result		Reporting Limit	Method
% Sat		99.2	%		ASTM D888-09(C)
		8.94	mg/L		ASTM D888-09(C)
DO					
DO pH (Field)			SU		EPA 150.2
_		8	SU umho/cm		EPA 150.2 SM2510B
pH (Field)		8	umho/cm		
pH (Field) Specific Conductance (Field)		8 475.1 20.1	umho/cm		SM2510B
pH (Field) Specific Conductance (Field) Temperature		8 475.1 20.1 5.33	umho/cm °C		SM2510B SM2550B(2)

1 Lookup

27 Lookup

0 Lookup

Sky Conditions

Wind Direction

Wind Strength

Observation

Observation

Observation

Lab ID # : 50355619003	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	212	mg/L	10	SM2320B
Chloride	15.8	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	252	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7	mg/L	2.5	SM2540D
Solids, Total (TS)	268	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	249	mg/L	10	SM2540C
Sulfate	19.7	mg/L	0.25	EPA 300.0
Calcium (Total)	64900	ug/L	1000	EPA 200.7
Magnesium (Total)	21800	ug/L	1000	EPA 200.7
COD	11	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.59	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	0.61	mg/L	0.5	EPA 351.2
TOC	2.8	mg/L	1	SM5310C
Lab ID #: AC37560	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	488.4	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions								
S	C		WD	WS	AT			
Sky Co	Sky Conditions Wind Dire		Vind Direction	Wind Strength	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				

SiteID:WLV190-0003USGS Hydrologic Unit:051201081503Stream Name:Big Raccoon CreekCounty:Parke

Description: CR 325 West **Latitude:** 39 39 9.00000 **Longitude:** -87 17 38.00000

Drainage: 447.497 **Site Number:** 23T-006

SitelD: WLV190-0003 **Sample Date:** 8/8/2023 **IDEM Sample #:** AC30702

Water Flow Type Glide Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	105.1	%		ASTM D888-09(C)
DO	8.93	mg/L		ASTM D888-09(C)
pH (Field)	8	SU		EPA 150.2
Specific Conductance (Field)	456.7	umho/cm		SM2510B
Temperature	23.5	°C		SM2550B(2)
Turbidity (Hach)	5.31	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID #: 50351437004	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	194	mg/L	10	SM2320B
Chloride	16.4	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	228	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.2	mg/L	2.5	SM2540D
Solids, Total (TS)	286	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	251	mg/L	10	SM2540C
Sulfate	18.1	mg/L	0.25	EPA 300.0
Calcium (Total)	59400	ug/L	1000	EPA 200.7
Magnesium (Total)	19400	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.87	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.051	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3	mg/L	1	SM5310C
Lab ID #: AC30702	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	142.1	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0003	Sample Date : 8/16/2023		IDEM Sample	#: AC30722	
Vater Flow Type Run	Water Appearance	Brown	1	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		88.3	%		ASTM D888-09(C)
DO		8.47	mg/L		ASTM D888-09(C)
pH (Field)		7.79	SU		EPA 150.2
Specific Conductance (Field)		380.9	umho/cm		SM2510B
Temperature		17.3	°C		SM2550B(2)
Turbidity (Hach)		27.5	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID #: AC30722		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli SiteID: WLV190-0003	Sample Date: 8/23/2023	178.9	MPN/100mL IDEM Sample	1 ∍# : AC30742	\$M9223B(Colilert-18
SiteID: WLV190-0003	Sample Date: 8/23/2023 Water Appearance	178.9 Clear	IDEM Sample	<u> </u>	\$M9223B(Colilert-18
SiteID: WLV190-0003 Water Flow Type Run	•	Clear	IDEM Sample	#: AC30742	☐ Algae?
SiteID: WLV190-0003	Water Appearance	Clear	IDEM Sample	#: AC30742 Water Depth	☐ Algae?
SiteID: WLV190-0003 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AC30742 Water Depth	☐ Algae?
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear Ac Result	IDEM Sample \text{V} quatic Life?	#: AC30742 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear Ac Result	IDEM Sample \ quatic Life?	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear Result 93.5 7.79 7.99	IDEM Sample quatic Life? % mg/L SU	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Clear Result 93.5 7.79 7.99 485.6	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AC30742 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Clear Result 93.5 7.79 7.99	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73	IDEM Sample quatic Life? % mg/L SU umho/cm °C	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73 5	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73 5	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AC30742 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73 5 1 27	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AC30742 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV190-0003 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73 5 1 27	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AC30742 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV190-0003 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Clear Result 93.5 7.79 7.99 485.6 24.5 6.73 5 1 27 1 Result	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AC30742 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV190-0003	Sample Date:	8/30/2023		IDEM Sample #	: AC30762	
Water Flow Type Run	Water	Appearance	Brown	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow	v Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			93	%		ASTM D888-09(C)
DO			8.36	mg/L		ASTM D888-09(C)
pH (Field)			8	SU		EPA 150.2
Specific Conductance (Field)			482.8	umho/cm		SM2510B
Temperature			20.7	°C		SM2550B(2)
Turbidity (Hach)			16.5	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			1	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			1	Lookup		Observation
Lab ID #: AC30762			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli			461.1	MPN/100mL	1	3M9223B(Colilert-18
	Sample Date:	9/7/2023		IDEM Sample #		п.,
Nater Flow Type Run	Water	Appearance	Brown	W	ater Depth	☐ Algae?
Nater Flow Type Run	Water			·-		· ·
	Water	Appearance		W	ater Depth	· ·
Nater Flow Type Run Nater Flow (cf/sec):	Water	Appearance		W	ater Depth	· ·
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water	Appearance	✓ Ac	Wiguatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water	Appearance	Result 91.3 8.01	Watic Life? // watic Life? // watic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water	Appearance	Result	Watic Life? // watic Life? // watic Life?	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water	Appearance	Result 91.3 8.01 8.05	Watic Life? // watic Life? // watic Life?	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Lab ID #: % Sat DO pH (Field)	Water	Appearance	Result 91.3 8.01 8.05	watic Life? % mg/L SU umho/cm	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water	Appearance	PRESUIT 91.3 8.01 8.05 501 21.8	watic Life? % mg/L SU umho/cm	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water	Appearance	91.3 8.01 8.05 501 21.8 8.98	% mg/L SU umho/cm °C	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water	Appearance	91.3 8.01 8.05 501 21.8 8.98 4	watic Life? % mg/L SU umho/cm °C NTU	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water	Appearance	Pesult 91.3 8.01 8.05 501 21.8 8.98 4 4	watic Life? % mg/L SU umho/cm °C NTU Lookup	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID #: 50353339004	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	216	mg/L	10	SM2320B
Chloride	13.6	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	245	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.7	mg/L	2.5	SM2540D
Solids, Total (TS)	287	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	277	mg/L	10	SM2540C
Sulfate	21.8	mg/L	0.25	EPA 300.0
Calcium (Total)	64300	ug/L	1000	EPA 200.7
Magnesium (Total)	20400	ug/L	1000	EPA 200.7
COD	10.9	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.84	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.052	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.7	mg/L	1	SM5310C
Lab ID #: AC30782	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	328.2	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0003 **Sample Date:** 10/3/2023 **IDEM Sample #:** AC37561

Water Flow Type Run Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

ab ID #:	<u>Result</u>	Reporting Limit	<u>Method</u>
% Sat	110.5 %		ASTM D888-09(C)
DO	9.87 mg/L		ASTM D888-09(C)
pH (Field)	8.06 SU		EPA 150.2
Specific Conductance (Field)	468.1 umho	/cm	SM2510B
Temperature	20.7 °C		SM2550B(2)
Turbidity (Hach)	5.32 NTU		EPA 180.1
Air Temp	5 Looku	ıp	Observation
Sky Conditions	1 Looku	ıp	Observation
Wind Direction	27 Looku	ıp	Observation
Wind Strength	0 Looku	ıp	Observation

Lab ID # : 50355619004	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	206	mg/L	10	SM2320B
Chloride	15.7	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	244	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	249	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	255	mg/L	10	SM2540C
Sulfate	19.4	mg/L	0.25	EPA 300.0
Calcium (Total)	62700	ug/L	1000	EPA 200.7
Magnesium (Total)	21200	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.64	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.7	mg/L	1	SM5310C
Lab ID # : AC37561	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	172.6	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions						
S	C		WD	WS	AT	
Sky Co	nditions	1	Wind Direction	Wind Strength	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		

SiteID:WLV-15-0006USGS Hydrologic Unit:051201081503Stream Name:Rock RunCounty:Parke

Description: CR 325 West **Latitude:** 39 39 43.35924 **Longitude:** -87 17 40.75221

Drainage: 15.4095 **Site Number:** 23T-007

SiteID: WLV-15-0006 **Sample Date:** 8/10/2023 **IDEM Sample #:** AC30698

Water Flow Type Riffle Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Rain event occurred overnight.

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	88.4	%		ASTM D888-09(C)
DO	7.82	mg/L		ASTM D888-09(C)
pH (Field)	7.82	SU		EPA 150.2
Specific Conductance (Field)	9.65	umho/cm		SM2510B
Temperature	21.4	°C		SM2550B(2)
Turbidity (Hach)	40.1	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437017	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	175	mg/L	10	SM2320B
Chloride	10.7	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	201	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.9	mg/L	2.5	SM2540D
Solids, Total (TS)	255	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	224	mg/L	10	SM2540C
Sulfate	20.9	mg/L	0.25	EPA 300.0
Calcium (Total)	51200	ug/L	1000	EPA 200.7
Magnesium (Total)	17700	ug/L	1000	EPA 200.7
COD	11.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3.6	mg/L	1	SM5310C
Lab ID #: AC30698	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	648.8	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0006	Sample Date:	8/16/2023		IDEM Sample	#: AC30718	
Water Flow Type Pool	Water	Appearance	Clear	1	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow	v Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			80.4	%		ASTM D888-09(C)
DO			7.37	mg/L		ASTM D888-09(C)
pH (Field)			7.62	SU		EPA 150.2
Specific Conductance (Field)			388.2	umho/cm		SM2510B
Temperature			19.5	°C		SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp				Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID #: AC30718			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419 6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli SiteID: WLV-15-0006	Sample Date:	8/23/2023	248.9	MPN/100mL IDEM Sample	1 • #: AC30738	3M9223B(Colliert-18
SiteID: WLV-15-0006	•	8/23/2023 Appearance	248.9 Sheen	IDEM Sample		Algae?
SiteID: WLV-15-0006 Water Flow Type Stagnant	Water		Sheen	IDEM Sample	∌#: AC30738	
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec):	Water	Appearance	Sheen	IDEM Sample	#: AC30738 Water Depth	☐ Algae?
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec):	Water □ Flow	Appearance	Sheen	IDEM Sample	#: AC30738 Water Depth	☐ Algae?
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she	Water Flow	Appearance	Sheen ✓ Ao	IDEM Sample	#: AC30738 Water Depth Canopy Closed %	☐ Algae? 0-20%
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #:	Water Flow	Appearance	Sheen Ac Result	IDEM Sample	#: AC30738 Water Depth Canopy Closed %	☐ Algae? 0-20% Method
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #:	Water Flow	Appearance	Sheen Ac Result	IDEM Sample quatic Life? % mg/L	#: AC30738 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C)
SiteID: WLV-15-0006 Nater Flow Type Stagnant Nater Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22	IDEM Sample quatic Life? % mg/L	#: AC30738 Water Depth Canopy Closed %	— Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV-15-0006 Nater Flow Type Stagnant Nater Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO pH (Field)	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Flow	Appearance	Sheen Result 55.7 4.73 7.22 469.5 23.4	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92	IDEM Sample quatic Life? % mg/L SU umho/cm °C	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV-15-0006 Nater Flow Type Stagnant Nater Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92 5	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV-15-0006 Nater Flow Type Stagnant Nater Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92 5 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92 5 1 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92 5 1 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AC30738 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV-15-0006 Water Flow Type Stagnant Water Flow (cf/sec): Sampler Comments: Oily she Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Flow	Appearance	Sheen ✓ Ac Result 55.7 4.73 7.22 469.5 23.4 2.92 5 1 27 1 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	e #: AC30738 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0006 Sample Date: 8/30/2023 IDEM Sample #: AC30758 Water Depth ☐ Algae? Water Flow Type Run Water Appearance Brown ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result Reporting Limit **Method** 82.3 % ASTM D888-09(C) % Sat DO 7.49 mg/L ASTM D888-09(C) 7.8 SU pH (Field) EPA 150.2 Specific Conductance (Field) 509 umho/cm SM2510B Temperature 20.1 °C SM2550B(2) Turbidity (Hach) 9.28 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID #: AC30758 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 E. coli 344.1 MPN/100mL 1 3M9223B(Colilert-18 SiteID: WLV-15-0006 Sample Date: IDEM Sample #: AC30778 9/7/2023 ☐ Algae? Water Flow Type Water Appearance Brown **Water Depth** Run ☐ Flow Estimated? Water Flow (cf/sec): ✓ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: **Reporting Limit Method** Result 75 % % Sat ASTM D888-09(C) DO ASTM D888-09(C) 6.59 mg/L pH (Field) 7.79 SU EPA 150.2 Specific Conductance (Field) 539 umho/cm SM2510B 21.6 °C Temperature SM2550B(2) Turbidity (Hach) 15.7 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions Observation 4 Lookup Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID #: 50353339017	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	239	mg/L	10	SM2320B
Chloride	9	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	271	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.6	mg/L	2.5	SM2540D
Solids, Total (TS)	309	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	308	mg/L	10	SM2540C
Sulfate	30.2	mg/L	0.25	EPA 300.0
Calcium (Total)	71300	ug/L	1000	EPA 200.7
Magnesium (Total)	22700	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3.5	mg/L	1	SM5310C
Lab ID # : AC30778	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	579.4	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0006 **Sample Date:** 10/3/2023 **IDEM Sample #**: AC37557

Water Flow Type Run Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

ab ID #:	Result	Reporting Limit	<u>Method</u>
% Sat	63.7 %		ASTM D888-09(C)
DO	6.16 mg/L		ASTM D888-09(C)
pH (Field)	7.54 SU		EPA 150.2
Specific Conductance (Field)	540 umho/ci	m	SM2510B
Temperature	17.1 °C		SM2550B(2)
Turbidity (Hach)	5.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID # : 50355619016	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	249	mg/L	10	SM2320B
Chloride	7.7	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	289	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.2	mg/L	2.5	SM2540D
Solids, Total (TS)	312	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	290	mg/L	10	SM2540C
Sulfate	26.3	mg/L	0.25	EPA 300.0
Calcium (Total)	76200	ug/L	1000	EPA 200.7
Magnesium (Total)	23900	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.058	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID # : AC37557	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	2419.6	MPN/100mL	1	3M9223B(Colilert-18
E. coli	124.6	MPN/100mL	1	3M9223B(Colilert-18

		We	eather Code Defi	initions	
S	C		WD	WS	AT
Sky Co	nditions	V	Vind Direction	Wind Strength	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	

SiteID:WLV190-0017USGS Hydrologic Unit:051201081503Stream Name:Tributary of Rock RunCounty:Parke

Description: Cooke Road **Latitude:** 39 44 23.88365 **Longitude:** -87 16 41.07069

Drainage: 3.895 Site Number: 23T-009

SiteID: WLV190-0017 **Sample Date:** 8/10/2023 **IDEM Sample #:** AC30697

Water Flow Type Run Water Appearance Brown Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Rain event occurred overnight.

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	83.5	%		ASTM D888-09(C)
DO	7.56	mg/L		ASTM D888-09(C)
pH (Field)	7.81	SU		EPA 150.2
Specific Conductance (Field)	390.3	umho/cm		SM2510B
Temperature	20.2	°C		SM2550B(2)
Turbidity (Hach)	45.7	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437016	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	135	mg/L	10	SM2320B
Chloride	29.7	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	151	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	28.4	mg/L	5	SM2540D
Solids, Total (TS)	267	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	219	mg/L	10	SM2540C
Sulfate	12.2	mg/L	0.25	EPA 300.0
Calcium (Total)	42100	ug/L	1000	EPA 200.7
Magnesium (Total)	11300	ug/L	1000	EPA 200.7
COD	22.4	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.34	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13	mg/L	0.05	EPA 365.1
TKN	1.1	mg/L	0.5	EPA 351.2
TOC	5.2	mg/L	1	SM5310C
Lab ID # : AC30697	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18

/ater Flow Type Pool Water Appearance Murky Water	or Donth	☐ Algae?
	er Depth	•
	Canopy Closed %	0-20%
ampler Comments: Did dilution because site failed for E. Coli last week		
Lab ID #: Result F	Reporting Limit	Method
% Sat 72.7 %		ASTM D888-09(C)
DO 6.83 mg/L		ASTM D888-09(C)
pH (Field) 7.73 SU		EPA 150.2
Specific Conductance (Field) 411.7 umho/cm		SM2510B
Temperature 18.4 °C		SM2550B(2)
Turbidity (Hach) 17.2 NTU		EPA 180.1
Air Temp 4 Lookup		Observation
Sky Conditions 1 Lookup		Observation
Wind Direction 27 Lookup		Observation
Wind Strength 0 Lookup		Observation
Lab ID #: AC30717 Result	Reporting Limit	<u>Method</u>
E. coli 183.5 MPN/100mL	1	3M9223B(Colilert-18
Lab ID #: AC30717b Result	Reporting Limit	<u>Method</u>
Coliforms (Total) 11980 MPN/100mL	100	3M9223B(Colilert-18
SiteID: WLV190-0017 Sample Date: 8/23/2023 IDEM Sample #:	AC30737	
	AC30737 er Depth	☐ Algae?
Water Flow Type Run Water Appearance Sheen Water		
Water Flow Type Run Water Appearance Sheen Water Nater Flow (cf/sec): □ Flow Estimated? ✓ Aquatic Life? ✓	er Depth Canopy Closed %	0-20%
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): □ Flow Estimated? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used call 3.03 mg/L. Oily sheen present.	er Depth Canopy Closed %	0-20%
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): □ Flow Estimated? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used call 3.03 mg/L. Oily sheen present.	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read
Vater Flow Type Run Water Appearance Sheen Water Vater Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used cannot be added to the composition of	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method
Vater Flow Type Run Water Appearance Sheen Water Appearance Vater Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used can 3.03 mg/L. Oily sheen present. Lab ID #: Result Flow Estimated? Flow Estimated? Flow Estimated? Checked DO was so low. Used can 3.03 mg/L. Oily sheen present.	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C)
Vater Flow Type Run Water Appearance Sheen Water Appearance Vater Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? ✓ Aquatic Life? Sampler Comments: Checked DO with calibration meter because DO was so low. Used can 3.03 mg/L. Oily sheen present. Lab ID #: Result E % Sat 34.3 % DO 2.94 mg/L	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Water Appearance Sheen Water Appearance Vater Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used cannot be a sum of the company of the compa	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Water Appearance Sheen Water Appearance Vater Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? ✓ Aquatic Life? Checked DO with calibration meter because DO was so low. Used can 3.03 mg/L. Oily sheen present. Lab ID #: Result E % Sat DO pH (Field) 34.3 % 2.94 mg/L 7.51 SU Specific Conductance (Field) 405.8 umho/cm	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): ☐ Flow Estimated? ☑ Aquatic Life? ☐ Checked DO with calibration meter because DO was so low. Used calibration sheen present. Lab ID #: Result ☐ Material Sheen Present. ☐ Result ☐ Material Sheet Present. ☐ Present ☐ Prese	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): Gampler Comments: Checked DO with calibration meter because DO was so low. Used calibration sheen present. Checked DO with calibration meter because DO was so low. Used calibration sheen present. Result Flow Estimated? ✓ Aquatic Life? Or Aquati	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): ☐ Flow Estimated? ☑ Aquatic Life? ☑ Aquatic L	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Nater Flow Type Run Water Appearance Sheen Water Appearance Nater Flow (cf/sec): ☐ Flow Estimated? ☑ Aquatic Life? ☑ Aquatic Life? Sampler Comments: Checked DO with calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibration meter because DO was so low. Used cannot be added and the calibra	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): Sampler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. Result Flow Estimated?	er Depth Canopy Closed % calibration meter S2	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): □ Flow Estimated? □ Aquatic Life? ○ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Result □ Flow Estimated? □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Result □ Flow Estimated? □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Result □ Flow Estimated? □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Result □ Flow Estimated? □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Result □ Flow Estimated? □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used case 3.03 mg/L. Oily sheen present. □ Aquatic Life? □ Campler Comments: Checked DO was so low. Used Campler Co	er Depth Canopy Closed % calibration meter S2 Reporting Limit	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method
Water Flow Type Run Water Appearance Sheen Water Flow (cf/sec): □ Flow Estimated? ✓ Aquatic Life? Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. Lab ID #: Result □ Flow Estimated? ✓ Aquatic Life? Campler Comments: Checked DO with calibration meter because DO was so low. Used case 3.03 mg/L. Oily sheen present. Result □ Flow Estimated? ✓ Aquatic Life? Campler Camp	er Depth Canopy Closed % calibration meter S2 Reporting Limit	0-20% and DO value read Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV190-0017	Sample Date : 8/30/2023		IDEM Sample	#: AC30757	
Water Flow Type Run	Water Appearance	Clear	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		73.8	%		ASTM D888-09(C)
DO		6.78	mg/L		ASTM D888-09(C)
pH (Field)		7.84	SU		EPA 150.2
Specific Conductance (Field)		438	umho/cm		SM2510B
Temperature		19.2	°C		SM2550B(2)
Turbidity (Hach)		11.3	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID #: AC30757		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		488.4	MPN/100mL	1	3M9223B(Colilert-18
SitoID: W// \/100 0017	Sample Date: 0/7/2022		IDEM Sample	#· AC20777	
SiteID: WLV190-0017 Water Flow Type Run	Sample Date: 9/7/2023 Water Appearance	Brown	IDEM Sample		☐ Algae?
Water Flow Type Run	Water Appearance	_	W	ater Depth	☐ Algae?
Water Flow Type Run Water Flow (cf/sec):	-	_			_
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	_	W	ater Depth	_
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	_	W	ater Depth	_
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Ac	W quatic Life?	/ater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Result	W quatic Life?	/ater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Appearance	Result	watic Life? % mg/L	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Result 37.1 3.33 7.63	watic Life? % mg/L	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Result 37.1 3.33 7.63	% mg/L SU umho/cm	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 37.1 3.33 7.63 505 20.6	% mg/L SU umho/cm	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 37.1 3.33 7.63 505 20.6 7.64	% mg/L SU umho/cm °C	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	37.1 3.33 7.63 505 20.6 7.64 4	% mg/L SU umho/cm °C NTU	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 37.1 3.33 7.63 505 20.6 7.64 4	% mg/L SU umho/cm °C NTU Lookup	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID # : 50353339016	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	219	mg/L	10	SM2320B
Chloride	15.1	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	241	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.6	mg/L	2.5	SM2540D
Solids, Total (TS)	272	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	270	mg/L	10	SM2540C
Sulfate	17.7	mg/L	0.25	EPA 300.0
Calcium (Total)	63500	ug/L	1000	EPA 200.7
Magnesium (Total)	20000	ug/L	1000	EPA 200.7
COD	17.9	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.099	mg/L	0.05	EPA 365.1
TKN	0.56	mg/L	0.5	EPA 351.2
TOC	5	mg/L	1	SM5310C
Lab ID #: AC30777	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	261.3	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV190-0017 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37556

Water Flow Type Run Water Appearance Sheen Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Sheen. Confirmed DO (mg/L) 3.14 with S2.

ab ID #:	Result	Reporting Limit Method
% Sat	32.1 %	ASTM D888-09(C
DO	2.96 mg/L	ASTM D888-09(C
pH (Field)	7.64 SU	EPA 150.2
Specific Conductance (Field)	567 umho	/cm SM2510B
Temperature	19.1 °C	SM2550B(2)
Turbidity (Hach)	11.1 NTU	EPA 180.1
Air Temp	5 Looku	up Observation
Sky Conditions	3 Looku	up Observation
Wind Direction	27 Looku	up Observation
Wind Strength	2 Looku	up Observation

Lab ID # : 50355619015	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	274	mg/L	10	SM2320B
Chloride	15	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	291	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	349	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	296	mg/L	10	SM2540C
Sulfate	10.4	mg/L	0.25	EPA 300.0
Calcium (Total)	75400	ug/L	1000	EPA 200.7
Magnesium (Total)	25000	ug/L	1000	EPA 200.7
COD	26.5	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.18	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	7.3	mg/L	1	SM5310C
Lab ID #: AC37556	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	77.6	MPN/100mL	1	3M9223B(Colilert-18

		W	eather Code Defi	initions	
S	C		WD	WS	AT
Sky Co	nditions	1	Vind Direction	Wind Strength	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	

SiteID:WLV190-0016USGS Hydrologic Unit:051201081503Stream Name:Rock RunCounty:Parke

Description: CR 100 South **Latitude:** 39 45 18.05741 **Longitude:** -87 17 6.48382

Drainage: 2.509 **Site Number:** 23T-010

SitelD: WLV190-0016 **Sample Date:** 8/10/2023 **IDEM Sample #:** AC30696

Water Flow Type Pool Water Appearance Brown Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Rain event occurred overnight.

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	68.9	%		ASTM D888-09(C)
DO	6.22	mg/L		ASTM D888-09(C)
pH (Field)	7.68	SU		EPA 150.2
Specific Conductance (Field)	378.6	umho/cm		SM2510B
Temperature	20.3	°C		SM2550B(2)
Turbidity (Hach)	32.5	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437015	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	168	mg/L	10	SM2320B
Chloride	13	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	192	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	23.5	mg/L	3.7	SM2540D
Solids, Total (TS)	270	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	207	mg/L	10	SM2540C
Sulfate	10.3	mg/L	0.25	EPA 300.0
Calcium (Total)	45000	ug/L	1000	EPA 200.7
Magnesium (Total)	19300	ug/L	1000	EPA 200.7
COD	22	mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.16	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.17	mg/L	0.05	EPA 365.1
TKN	0.88	mg/L	0.5	EPA 351.2
TOC	5.8	mg/L	1	SM5310C
Lab ID # : AC30696b	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	34480	MPN/100mL	100	3M9223B(Colilert-18
E. coli	4040	MPN/100mL	100	3M9223B(Colilert-18

SiteID: WLV190-0016 S	Sample Date: 8/16/2023		IDEM Sample	#: AC30716	
Vater Flow Type Pool	Water Appearance	Brown	W	ater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments: Did dilutio	n because site failed for E. Co	li last wee	ek		
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		61.7	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.64	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.6	°C		SM2550B(2)
Turbidity (Hach)		27.7	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # : AC30716		Result		Reporting Limit	<u>Method</u>
E. coli		829.7	MPN/100mL	1	3M9223B(Colilert-18
Lab ID # : AC30716b		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		14210	MPN/100mL	100	3M9223B(Colilert-18
SiteID: WLV190-0016 S	Sample Date: 8/23/2023		IDEM Sample	#: AC30736	
SiteID: WLV190-0016 S Water Flow Type Pool	Water Appearance	Brown	IDEM Sample	#: AC30736 /ater Depth	☐ Algae?
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec):	Water Appearance ☐ Flow Estimated?	Brown ✓ A q	IDEM Sample W Juatic Life?	#: AC30736 /ater Depth Canopy Closed %	☐ Algae?
SiteID: WLV190-0016 S Water Flow Type Pool Water Flow (cf/sec):	Water Appearance	Brown ✓ A q	IDEM Sample W Juatic Life?	#: AC30736 /ater Depth Canopy Closed %	☐ Algae?
SiteID: WLV190-0016 S Water Flow Type Pool Water Flow (cf/sec):	Water Appearance ☐ Flow Estimated?	Brown ✓ A q	IDEM Sample W Juatic Life?	#: AC30736 /ater Depth Canopy Closed %	☐ Algae?
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked	Water Appearance ☐ Flow Estimated?	Brown Aq DO was so Result	IDEM Sample W juatic Life? o low. Calibratio	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked I Lab ID #:	Water Appearance ☐ Flow Estimated?	Brown Aq DO was so Result	IDEM Sample Watic Life? In low. Calibration	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	O-20% d meter S2. Method ASTM D888-09(C)
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): campler Comments: Checked Lab ID #: % Sat DO	Water Appearance ☐ Flow Estimated?	Brown Aq DO was so Result 20.9 1.76	IDEM Sample Watic Life? In low. Calibration % mg/L	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	O-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Exampler Comments: Checked I Lab ID #: % Sat DO pH (Field)	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57	IDEM Sample Watic Life? In low. Calibration mg/L SU	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): sampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571	IDEM Sample Watic Life? o low. Calibratio % mg/L SU umho/cm	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance ☐ Flow Estimated?	Brown Aq DO was so Result 20.9 1.76 7.57 571 23.8	IDEM Sample Water Life? to low. Calibratio % mg/L SU umho/cm °C	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): sampler Comments: Checked Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571 23.8 7.04	IDEM Sample Watic Life? In low. Calibration % mg/L SU umho/cm °C NTU	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Pool Water Flow (cf/sec): Campler Comments: Checked (cf/sec) Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571 23.8 7.04 5	IDEM Sample Viguatic Life? o low. Calibratio % mg/L SU umho/cm °C NTU Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	O-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Exampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance ☐ Flow Estimated?	Brown Aq DO was so Result 20.9 1.76 7.57 571 23.8 7.04 5	JUEM Sample Watic Life? o low. Calibratio % mg/L SU umho/cm °C NTU Lookup Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571 23.8 7.04 5 1 27	IDEM Sample Watic Life? In low. Calibration Market Sulumho/cm C NTU Lookup Lookup Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571 23.8 7.04 5 1 27	JUEM Sample Watic Life? o low. Calibratio % mg/L SU umho/cm °C NTU Lookup Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV190-0016 S Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Checked I Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance ☐ Flow Estimated?	Brown Aq DO was se Result 20.9 1.76 7.57 571 23.8 7.04 5 1 27	IDEM Sample Watic Life? In low. Calibration Market Sulumho/cm C NTU Lookup Lookup Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV190-0016 S Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Checked Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance Flow Estimated? DO with calibration meter b/c I	Brown Aquation Aquat	IDEM Sample Watic Life? In low. Calibration Market Sulumho/cm C NTU Lookup Lookup Lookup	#: AC30736 /ater Depth Canopy Closed % n value read 1.37. Use Reporting Limit	Algae? 0-20% d meter S2. Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV190-0016	Sample Date: 8/30/2023		IDEM Sample	#: AC30756	
Water Flow Type Pool	Water Appearance	Brown	,	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Docult		Departing Limit	Mathad
		Result		Reporting Limit	<u>Method</u>
% Sat		66.4			ASTM D888-09(C)
DO		6.06	-		ASTM D888-09(C)
pH (Field)		7.93	SU		EPA 150.2
Specific Conductance (Field)		598	umho/cm		SM2510B
Temperature		19.8	°C		SM2550B(2)
Turbidity (Hach)		9.77	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID #: AC30756		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	_	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
SiteID: WLV190-0016	Sample Date : 9/7/2023		IDEM Sample	#: AC30776	
			_		
Water Flow Type Run	Water Appearance	Brown	,	Water Depth	☐ Algae?
Vater Flow Type Run	-	Brown	uatic Life?	Water Depth Canopy Closed %	_
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	Brown Aq	uatic Life?	-	_
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance Flow Estimated?	Brown Aq	uatic Life?	-	_
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Did dilu	Water Appearance Flow Estimated?	Brown ✓ Aq oli previous	uatic Life?	Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #:	Water Appearance Flow Estimated?	Brown Aq oli previous Result	watic Life? s week. %	Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #:	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5	watic Life? s week. % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field)	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75	watic Life? s week. % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640	watic Life? s week. % mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640 20.8	watic Life? s week. % mg/L SU umho/cm °C	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640 20.8 8.88	watic Life? s week. % mg/L SU umho/cm °C NTU	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640 20.8 8.88 4	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640 20.8 8.88 4 4	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	Brown Aq oli previous Result 30.5 2.72 7.75 640 20.8 8.88 4 4 27	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID #: 50353339015		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		274	mg/L	10	SM2320B
Chloride		19	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)		294	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)		9.7	mg/L	2.5	SM2540D
Solids, Total (TS)		365	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		349	mg/L	10	SM2540C
Sulfate		24.8	mg/L	0.25	EPA 300.0
Calcium (Total)		69100	ug/L	1000	EPA 200.7
Magnesium (Total)		29500	ug/L	1000	EPA 200.7
COD		22.8	mg/L	10	EPA 410.4
Nitrogen, Ammonia		3.3	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite			mg/L	0.1	EPA 353.2
Phosphorus, Total			mg/L	0.05	EPA 365.1
TKN		4.4	mg/L	0.5	EPA 351.2
TOC		6.7	mg/L	1	SM5310C
Lab ID # : AC30776		<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli		1299.7	MPN/100mL	1	3M9223B(Colilert-18
Lab ID #: AC30776b		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		29870	MPN/100mL	100	3M9223B(Colilert-18
SiteID: WLV190-0016	Sample Date: 10/4/2023		IDEM Sample	#: AC37555	
Water Flow Type Pool	Water Appearance	Murky	V	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments: Sheen.	Confirmed DO (mg/L) 3.57 with	S2.			
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		36.5	%		ASTM D888-09(C)

Lab ID #:	Result	Reporting Limit	<u>Method</u>
% Sat	36.5	%	ASTM D888-09(C)
DO	3.39	mg/L	ASTM D888-09(C)
pH (Field)	7.64	SU	EPA 150.2
Specific Conductance (Field)	559	umho/cm	SM2510B
Temperature	19.4	°C	SM2550B(2)
Turbidity (Hach)	7.71	NTU	EPA 180.1
Air Temp	5	Lookup	Observation
Sky Conditions	3	Lookup	Observation
Wind Direction	27	Lookup	Observation
Wind Strength	1	Lookup	Observation

Lab ID #: 50355619014	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	265	mg/L	10	SM2320B
Chloride	16.2	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	280	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	18.5	mg/L	3.2	SM2540D
Solids, Total (TS)	345	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	291	mg/L	10	SM2540C
Sulfate	17.8	mg/L	0.25	EPA 300.0
Calcium (Total)	64300	ug/L	1000	EPA 200.7
Magnesium (Total)	29000	ug/L	1000	EPA 200.7
COD	41.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.34	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	10.7	mg/L	1	SM5310C
Lab ID # : AC37555	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	2419.6	MPN/100mL	1	3M9223B(Colilert-18
E. coli	45.9	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions							
S	C		WD	WS	AT		
Sky Co	nditions	Wind Direction		Wind Strength	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			

SiteID:WLV-15-0007USGS Hydrologic Unit:051201081502Stream Name:Rocky RunCounty:Parke

Description: Arabia Road **Latitude:** 39 46 19.80264 **Longitude:** -87 19 20.42222

Drainage: 4.7585 **Site Number:** 23T-011

SitelD: WLV-15-0007 **Sample Date:** 8/10/2023 **IDEM Sample #:** AC30695

Water Flow Type Riffle Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Rain event occurred overnight.

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	94.6	%		ASTM D888-09(C)
DO	8.92	mg/L		ASTM D888-09(C)
pH (Field)	7.98	SU		EPA 150.2
Specific Conductance (Field)	607	umho/cm		SM2510B
Temperature	18.1	°C		SM2550B(2)
Turbidity (Hach)	2.83	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437014	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	263	mg/L	10	SM2320B
Chloride	20.2	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	310	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	366	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	354	mg/L	10	SM2540C
Sulfate	37.6	mg/L	0.25	EPA 300.0
Calcium (Total)	78600	ug/L	1000	EPA 200.7
Magnesium (Total)	27700	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.25	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2	mg/L	1	SM5310C
Lab ID #: AC30695	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	816.4	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0007	Sample Date:	8/15/2023		IDEM Sample	#: AC30715	
Nater Flow Type Riffle	Water A	ppearance	Clear	,	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow	Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			99.9	%		ASTM D888-09(C)
DO			9.36	mg/L		ASTM D888-09(C)
pH (Field)			8.07	SU		EPA 150.2
Specific Conductance (Field)			636	umho/cm		SM2510B
Temperature			18.5	°C		SM2550B(2)
Turbidity (Hach)			2.76	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # : AC30715			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
` ,						•
E. coli	Sample Date:	8/22/2023	913.9	MPN/100mL	1 e#: AC30735	3M9223B(Colilert-18
SiteID: WLV-15-0007	Sample Date: Water A	8/22/2023 Appearance	913.9 Clear	IDEM Sample	1 e #: AC30735 Water Depth	3M9223B(Colilert-18 ☐ Algae?
SiteID: WLV-15-0007 Nater Flow Type Riffle	Water A		Clear	IDEM Sample	e#: AC30735	☐ Algae?
SiteID: WLV-15-0007	Water A	Appearance	Clear	IDEM Sample	e#: AC30735 Water Depth	☐ Algae?
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec):	Water A	Appearance	Clear	IDEM Sample	e#: AC30735 Water Depth	☐ Algae?
SiteID: WLV-15-0007 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water A	Appearance	Clear ✓ Ao	IDEM Sample	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20%
SiteID: WLV-15-0007 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water A	Appearance	Clear ✓ Ac	IDEM Sample	e #: AC30735 Water Depth Canopy Closed %	Algae? 0-20% Method
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #:	Water A	Appearance	Clear ✓ Ac	IDEM Sample quatic Life? % mg/L	e #: AC30735 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water A	Appearance	Clear Result 109.7 9.37 8.02	IDEM Sample quatic Life? % mg/L	e #: AC30735 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV-15-0007 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water A	Appearance	Clear Result 109.7 9.37 8.02	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV-15-0007 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV-15-0007 Vater Flow Type Riffle Vater Flow (cf/sec): sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5	## Minimal Control of	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV-15-0007 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5 6	Multic Life? % mg/L SU umho/cm °C NTU	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5 6 2	Muatic Life? % mg/L SU umho/cm °C NTU Lookup	e #: AC30735 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5 6 2 27	"We will be sometimes of the second s	e #: AC30735 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5 6 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30735 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV-15-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water A	Appearance	Clear Result 109.7 9.37 8.02 661 23.1 2.5 6 2 27 0 Result	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30735 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0007 Sample Date: 8/29/2023 IDEM Sample #: AC30755 Water Depth ✓ Algae? Water Flow Type Riffle Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result Reporting Limit **Method** 95.2 % % Sat ASTM D888-09(C) DO 8.69 mg/L ASTM D888-09(C) 8.11 SU pH (Field) EPA 150.2 Specific Conductance (Field) 702 umho/cm SM2510B Temperature 19.8 °C SM2550B(2) Turbidity (Hach) 1.74 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: AC30755 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 E. coli 387.3 MPN/100mL 1 3M9223B(Colilert-18 SiteID: WLV-15-0007 Sample Date: IDEM Sample #: AC30775 9/6/2023 ✓ Algae? Water Flow Type Riffle Water Appearance Clear **Water Depth** ☐ Flow Estimated? Water Flow (cf/sec): ✓ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: **Reporting Limit Method** Result % Sat 101.3 % ASTM D888-09(C) DO 9.09 mg/L ASTM D888-09(C) pH (Field) 8.07 SU EPA 150.2 Specific Conductance (Field) 700 umho/cm SM2510B 20.6 °C Temperature SM2550B(2) Turbidity (Hach) 4.71 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions Observation 3 Lookup Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID # : 50353339014	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	292	mg/L	10	SM2320B
Chloride	21.1	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	345	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7	mg/L	2.5	SM2540D
Solids, Total (TS)	393	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	389	mg/L	10	SM2540C
Sulfate	48.3	mg/L	0.25	EPA 300.0
Calcium (Total)	86000	ug/L	1000	EPA 200.7
Magnesium (Total)	31500	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	1.8	mg/L	1	SM5310C
Lab ID # : AC30775	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	260.3	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0007 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37554

Water Flow Type Riffle Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

ab ID #:	<u>Result</u>	Rep	orting Limit	Method
% Sat	97.9 %)		ASTM D888-09(C)
DO	9.3 m	ıg/L		ASTM D888-09(C)
pH (Field)	8.05 S	U		EPA 150.2
Specific Conductance (Field)	691 ui	mho/cm		SM2510B
Temperature	17.7 °C			SM2550B(2)
Turbidity (Hach)	2.83 N	TU		EPA 180.1
Air Temp	5 Lo	ookup		Observation
Sky Conditions	3 Lo	ookup		Observation
Wind Direction	27 Lo	ookup		Observation
Wind Strength	1 Lo	ookup		Observation

Lab ID # : 50355619013	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	308	mg/L	10	SM2320B
Chloride	20	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	358	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	6.3	mg/L	2.5	SM2540D
Solids, Total (TS)	422	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	385	mg/L	10	SM2540C
Sulfate	38.7	mg/L	2.5	EPA 300.0
Calcium (Total)	89700	ug/L	1000	EPA 200.7
Magnesium (Total)	32500	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	1.6	mg/L	1	SM5310C
Lab ID # : AC37554	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	1986.3	MPN/100mL	1	3M9223B(Colilert-18
E. coli	158.5	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions							
SC			WD	WS	AT		
Sky Co	nditions	1	Wind Direction	Wind Strength	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			

SiteID:WLV-15-0008USGS Hydrologic Unit:051201081502Stream Name:Leatherwood CreekCounty:Parke

Description: CR 40 North **Latitude:** 39 46 24.41280 **Longitude:** -87 19 51.98520

Drainage: 26.103 **Site Number:** 23T-012

SiteID: WLV-15-0008 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30694

Water Flow Type Riffle Water Appearance Clear Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	113.3	%		ASTM D888-09(C)
DO	9.96	mg/L		ASTM D888-09(C)
pH (Field)	8.07	SU		EPA 150.2
Specific Conductance (Field)	568	umho/cm		SM2510B
Temperature	21.6	°C		SM2550B(2)
Turbidity (Hach)	2.25	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID #: 50351437013	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	10	SM2320B
Chloride	16.5	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	286	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	351	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320	mg/L	10	SM2540C
Sulfate	31.4	mg/L	0.25	EPA 300.0
Calcium (Total)	68500	ug/L	1000	EPA 200.7
Magnesium (Total)	27900	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.4	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.051	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.1	mg/L	1	SM5310C
Lab ID #: AC30694	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	435.2	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0008	Sample Date: 8/15/2023	IDEM Sam	ple #: AC30714	
Water Flow Type Riffle	Water Appearance	Clear	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:		1		
——————————————————————————————————————				
Lab ID #:		Result	Reporting Limit	<u>Method</u>
% Sat		100.4 %		ASTM D888-09(C)
DO		8.98 mg/L		ASTM D888-09(C)
pH (Field)		8.13 SU		EPA 150.2
Specific Conductance (Field)		516 umho/cm		SM2510B
Temperature		20.8 °C		SM2550B(2)
Turbidity (Hach)		11.9 NTU		EPA 180.1
Air Temp		4 Lookup		Observation
Sky Conditions		4 Lookup		Observation
Wind Direction		27 Lookup		Observation
Wind Strength		1 Lookup		Observation
_		·		
Lab ID #: AC30714		Result	Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6 MPN/100m	L 2419.6	3M9223B(Colilert-18
E. coli		2419.6 MPN/100m	L 1	3M9223B(Colilert-18
SitolD: WLV 15 0008	Sample Date: 9/22/2022	IDEM Same	nlo #:	
SitelD: WLV-15-0008 Water Flow Type Riffle	Sample Date: 8/22/2023 Water Appearance	IDEM Sam	ple #: AC30734 Water Depth	☐ Algae?
Water Flow Type Riffle	•	Clear	Water Depth	_
	Water Appearance	Clear		_
Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	Water Depth	_
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Appearance	Clear ✓ Aquatic Life? Result	Water Depth Canopy Closed %	0-20%
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Appearance	Clear ✓ Aquatic Life? Result 127.4 %	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear ✓ Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup 2 Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup 2 Lookup 27 Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup 2 Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup 2 Lookup 27 Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance	Clear Aquatic Life? Result 127.4 % 9.94 mg/L 8.17 SU 575 umho/cm 28.1 °C 4.68 NTU 6 Lookup 2 Lookup 2 Lookup 1 Lookup	Water Depth Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0008 Sample Date: 8/29/2023 IDEM Sample #: AC30754 Water Depth ☐ Algae? Water Flow Type Riffle Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result Reporting Limit **Method** 107.5 % ASTM D888-09(C) % Sat DO 9.06 mg/L ASTM D888-09(C) 8.08 SU pH (Field) EPA 150.2 Specific Conductance (Field) 606 umho/cm SM2510B Temperature 23.7 °C SM2550B(2) Turbidity (Hach) 3.53 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: AC30754 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 E. coli 547.5 MPN/100mL 1 3M9223B(Colilert-18 SiteID: WLV-15-0008 Sample Date: IDEM Sample #: AC30774 9/6/2023 ☐ Algae? Water Flow Type Riffle Water Appearance Clear **Water Depth** ☐ Flow Estimated? Water Flow (cf/sec): ✓ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: **Reporting Limit Method** Result % Sat 105.3 % ASTM D888-09(C) DO 8.94 mg/L ASTM D888-09(C) pH (Field) 8.11 SU EPA 150.2 Specific Conductance (Field) 604 umho/cm SM2510B 23.5 °C Temperature SM2550B(2) Turbidity (Hach) 7.82 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions Observation 3 Lookup Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID # : 50353339013	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	262	mg/L	10	SM2320B
Chloride	13.9	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	310	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.5	mg/L	2.5	SM2540D
Solids, Total (TS)	348	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	346	mg/L	10	SM2540C
Sulfate	35.4	mg/L	0.25	EPA 300.0
Calcium (Total)	75200	ug/L	1000	EPA 200.7
Magnesium (Total)	29600	ug/L	1000	EPA 200.7
COD	13.8	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.37	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.7	mg/L	1	SM5310C
Lab ID #: AC30774	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	435.2	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0008 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37553

Water Flow Type Riffle Water Appearance Clear Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

ab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	103.7	%		ASTM D888-09(C)
DO	9.53	mg/L		ASTM D888-09(C)
pH (Field)	7.99	SU		EPA 150.2
Specific Conductance (Field)	613	umho/cm		SM2510B
Temperature	19.4	°C		SM2550B(2)
Turbidity (Hach)	3.6	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID #: 50355619012	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	277	mg/L	10	SM2320B
Chloride	16.9	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	336	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	314	mg/L	10	SM2540C
Sulfate	36	mg/L	0.25	EPA 300.0
Calcium (Total)	82900	ug/L	1000	EPA 200.7
Magnesium (Total)	31300	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.29	mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.3	mg/L	1	SM5310C
Lab ID #: AC37553	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	101.9	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions							
SC WD WS AT							
Sky Co	Sky Conditions Wind Direction		Wind Strength	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			

SiteID:WLV-15-0009USGS Hydrologic Unit:051201081502Stream Name:Leatherwood CreekCounty:Parke

Description: Leatherwood Road Latitude: 39 47 55.66899 Longitude: -87 19 40.98340

Drainage: 23.543 **Site Number:** 23T-013

SiteID: WLV-15-0009 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30693

Water Flow Type Run Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Iron-colored residue

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	102.2	%		ASTM D888-09(C)
DO	8.94	mg/L		ASTM D888-09(C)
pH (Field)	7.98	SU		EPA 150.2
Specific Conductance (Field)	557	umho/cm		SM2510B
Temperature	21.9	°C		SM2550B(2)
Turbidity (Hach)	3.31	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437012	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	243	mg/L	10	SM2320B
Chloride	17.6	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	293	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7	mg/L	2.5	SM2540D
Solids, Total (TS)	356	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	315	mg/L	10	SM2540C
Sulfate	29.3	mg/L	0.25	EPA 300.0
Calcium (Total)	69800	ug/L	1000	EPA 200.7
Magnesium (Total)	28900	ug/L	1000	EPA 200.7
COD	10.8	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.57	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.094	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.5	mg/L	1	SM5310C
Lab ID #: AC30693	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	435.2	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0009	Sample Date:	8/15/2023		IDEM Sample	e#: AC30713	
Vater Flow Type Run	Water A	Appearance	Clear	,	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow	Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			101.1	%		ASTM D888-09(C)
DO			9.01	mg/L		ASTM D888-09(C)
pH (Field)			8.08	SU		EPA 150.2
Specific Conductance (Field)			527	umho/cm		SM2510B
Temperature			20.9	°C		SM2550B(2)
Turbidity (Hach)			12.6	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID #: AC30713			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
			4000 7	MDNI/400I	4	MODDOD/Califort 40
E. coli	Oansala Data	0/00/0000	1299.7	MPN/100mL	1	SM9223B(Colilert-18
SiteID: WLV-15-0009	Sample Date:	8/22/2023 Appearance	1299.7 Clear	IDEM Sample	e #: AC30733 Water Depth	Algae?
SiteID: WLV-15-0009 Water Flow Type Run	Water <i>i</i>		Clear	IDEM Sample	e#: AC30733	☐ Algae?
SiteID: WLV-15-0009	Water <i>i</i>	Appearance	Clear	IDEM Sample	e #: AC30733 Water Depth	☐ Algae?
SiteID: WLV-15-0009 Water Flow Type Run Water Flow (cf/sec):	Water <i>i</i>	Appearance	Clear	IDEM Sample	e #: AC30733 Water Depth	☐ Algae?
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments:	Water <i>i</i>	Appearance	Clear ✓ Ao	IDEM Sample	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20%
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water <i>i</i>	Appearance	Clear ✓ Ac	IDEM Sample quatic Life?	e #: AC30733 Water Depth Canopy Closed %	Algae? 0-20% Method
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #:	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14	IDEM Sample Juatic Life? % mg/L SU	e #: AC30733 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14	IDEM Sample quatic Life? % mg/L	e #: AC30733 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83	## Minimal Control of	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83 6	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83 6 2	Muatic Life? % mg/L SU umho/cm °C NTU Lookup	e #: AC30733 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV-15-0009 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83 6 2 27	"We will be sometimes of the second s	e #: AC30733 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV-15-0009 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83 6 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30733 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV-15-0009 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water <i>i</i>	Appearance	Clear Result 127.1 10.04 8.14 578 27.4 6.83 6 2 27 1 Result	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30733 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0009 Sample Date: 8/29/2023 IDEM Sample #: AC30753 Water Depth ✓ Algae? Water Flow Type Run Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result Reporting Limit **Method** 113.2 % % Sat ASTM D888-09(C) DO 9.47 mg/L ASTM D888-09(C) 8.07 SU pH (Field) EPA 150.2 Specific Conductance (Field) 597 umho/cm SM2510B Temperature 24.3 °C SM2550B(2) Turbidity (Hach) 8.87 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: AC30753 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 E. coli 365.4 MPN/100mL 1 3M9223B(Colilert-18 SiteID: WLV-15-0009 Sample Date: IDEM Sample #: AC30773 9/6/2023 ☐ Algae? Water Flow Type Water Appearance Murky **Water Depth** Run Water Flow (cf/sec): ☐ Flow Estimated? ■ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Iron colored residue along bank. Did dilution because turbidity greater than 50. Lab ID #: **Reporting Limit Method** Result % Sat 90.6 % ASTM D888-09(C) DO ASTM D888-09(C) 7.67 mg/L pH (Field) 7.98 SU EPA 150.2 Specific Conductance (Field) 511 umho/cm SM2510B 23.7 °C Temperature SM2550B(2) Turbidity (Hach) 106 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions Observation 4 Lookup Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation

Lab ID # : 50353339012	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	222	mg/L	10	SM2320B
Chloride	12	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	259	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	64.1	mg/L	6.8	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	304	mg/L	10	SM2540C
Sulfate	25.7	mg/L	0.25	EPA 300.0
Calcium (Total)	63000	ug/L	1000	EPA 200.7
Magnesium (Total)	24700	ug/L	1000	EPA 200.7
COD	15	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.16	mg/L	0.05	EPA 365.1
TKN	0.8	mg/L	0.5	EPA 351.2
TOC		mg/L	1	SM5310C
Lab ID #: AC30773b	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	198630	MPN/100mL	100	3M9223B(Colilert-18
E. coli	8800	MPN/100mL	100	3M9223B(Colilert-18

SiteID: WLV-15-0009 Sample Date: 10/4/2023 IDEM Sample #: AC37552

✓ Algae? Water Flow Type Glide **Water Appearance** Clear **Water Depth**

☐ Flow Estimated? **✓** Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% Sampler Comments: Dilution because site failed last month for E. Coli. Iron substance orange residue and oily sheen.

ab ID #:	Result	Reporting Limit Method
% Sat	95.6 %	ASTM D888-09(C)
DO	8.82 mg/L	ASTM D888-09(C)
pH (Field)	7.98 SU	EPA 150.2
Specific Conductance (Field)	602 umho	/cm SM2510B
Temperature	19.3 °C	SM2550B(2)
Turbidity (Hach)	5.78 NTU	EPA 180.1
Air Temp	5 Looku	up Observation
Sky Conditions	3 Looku	up Observation
Wind Direction	27 Looku	up Observation
Wind Strength	2 Looku	up Observation
Wind Strength	2 Looku	up Observation

Lab ID # : 50355619011	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	272	mg/L	10	SM2320B
Chloride	18.1	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	315	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	355	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	335	mg/L	10	SM2540C
Sulfate	31.8	mg/L	0.25	EPA 300.0
Calcium (Total)	77100	ug/L	1000	EPA 200.7
Magnesium (Total)	29800	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.55	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.076	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.6	mg/L	1	SM5310C
Lab ID #: AC37552	<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli	275.5	MPN/100mL	1	3M9223B(Colilert-18
Lab ID #: AC37552b	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	6310	MPN/100mL	100	3M9223B(Colilert-18

Weather Code Definitions						
S	C		WD	WS	AT	
Sky Co	ky Conditions Wind Direction		Wind Direction	Wind Strength	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		

SiteID:WLV-15-0010USGS Hydrologic Unit:051201081502Stream Name:Little Leatherwood CreekCounty:Parke

Description: 10 O'Clock Road **Latitude:** 39 49 11.76391 **Longitude:** -87 18 23.53540

Drainage: 2.16 Site Number: 23T-014

SiteID: WLV-15-0010 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30692

Water Flow Type Run Water Appearance Murky Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	81.7	%		ASTM D888-09(C)
DO	7.35	mg/L		ASTM D888-09(C)
pH (Field)	7.65	SU		EPA 150.2
Specific Conductance (Field)	570	umho/cm		SM2510B
Temperature	20.5	°C		SM2550B(2)
Turbidity (Hach)	22	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437011	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	247	mg/L	10	SM2320B
Chloride	14.8	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	295	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	21.8	mg/L	2.9	SM2540D
Solids, Total (TS)	392	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	324	mg/L	10	SM2540C
Sulfate	28.9	mg/L	0.25	EPA 300.0
Calcium (Total)	70200	ug/L	1000	EPA 200.7
Magnesium (Total)	29100	ug/L	1000	EPA 200.7
COD	11.1	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.3	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.091	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.4	mg/L	1	SM5310C
Lab ID # : AC30692	Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli		MPN/100mL MPN/100mL	2419.6 1	3M9223B(Colilert-18 3M9223B(Colilert-18

SiteID : WLV-15-0010	Sample Date:	8/15/2023		IDEM Sampl	e#: AC30712	
Vater Flow Type Pool	Water	Appearance	Murky		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow	v Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			85.6	%		ASTM D888-09(C)
DO			7.82	mg/L		ASTM D888-09(C)
pH (Field)			7.71	SU		EPA 150.2
Specific Conductance (Field)			442	umho/cm		SM2510B
Temperature			19.7	°C		SM2550B(2)
Turbidity (Hach)			20.4	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # : AC30712			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
SiteID: WLV-15-0010	Sample Date:	8/22/2023	22410.0		e#: AC30732	JMIOZZOB (COMOT TO
	·	8/22/2023 Appearance	Brown	IDEM Sampl		☐ Algae?
Nater Flow Type Run	Water		Brown	IDEM Sampl	e#: AC30732	☐ Algae?
Nater Flow Type Run Nater Flow (cf/sec):	Water	Appearance v Estimated?	Brown ✓ Ac	IDEM Sampl	e #: AC30732 Water Depth	☐ Algae?
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu	Water	Appearance v Estimated?	Brown ✓ Ac	IDEM Sampl	e #: AC30732 Water Depth	☐ Algae?
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu	Water	Appearance v Estimated?	Brown Aco	IDEM Sampl Juatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilute Lab ID #:	Water	Appearance v Estimated?	Brown Acoli previou Result 67.5	IDEM Sampl Juatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method
Vater Flow Type Run Vater Flow (cf/sec): Campler Comments: Did dilute Lab ID #: % Sat	Water	Appearance v Estimated?	Brown Acoli previou Result 67.5	IDEM Sampl quatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilut Lab ID #: % Sat DO	Water	Appearance v Estimated?	Brown Ac oli previou Result 67.5 5.55 7.74	IDEM Sampl quatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilute Lab ID #: % Sat DO pH (Field)	Water	Appearance v Estimated?	Brown Ac oli previou Result 67.5 5.55 7.74	JUEM Sample Juatic Life? s week. % mg/L SU umho/cm	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water	Appearance v Estimated?	Brown Accoli previou Result 67.5 5.55 7.74 601 25.2	JUEM Sample Juatic Life? s week. % mg/L SU umho/cm	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water	Appearance v Estimated?	Brown Accoli previous Result 67.5 5.55 7.74 601 25.2 17.7	JUEM Sample Juatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow Type Run Water Flow (cf/sec): Campler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water	Appearance v Estimated?	Brown Accoli previou Result 67.5 5.55 7.74 601 25.2 17.7 6	JUEM Sample Juatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water	Appearance v Estimated?	Brown Ac Ac Oli previous Result 67.5 5.55 7.74 601 25.2 17.7 6 2	JUEM Sample Juatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30732 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Vater Flow Type Run Vater Flow (cf/sec): Campler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water	Appearance v Estimated?	Brown Ac oli previou Result 67.5 5.55 7.74 601 25.2 17.7 6 2 27	JUEM Sample Juatic Life? s week.	e #: AC30732 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water	Appearance v Estimated?	Brown Ac oli previou Result 67.5 5.55 7.74 601 25.2 17.7 6 2 27	JUEM Sample Juatic Life? s week. mg/L SU umho/cm °C NTU Lookup Lookup Lookup	e #: AC30732 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilute Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water	Appearance v Estimated?	Brown According previous	JUEM Sample Juatic Life? s week. mg/L SU umho/cm °C NTU Lookup Lookup Lookup	e #: AC30732 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0010 Sample Date: 8/29/2023 IDEM Sample #: AC30752 Water Depth ✓ Algae? Water Flow Type Run Water Appearance Brown ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Dilution because site failed for E. Coli last week. Lab ID #: Result Reporting Limit **Method** 92.4 % % Sat ASTM D888-09(C) DO 8.14 mg/L ASTM D888-09(C) 7.82 SU pH (Field) EPA 150.2 Specific Conductance (Field) 616 umho/cm SM2510B Temperature 21.5 °C SM2550B(2) Turbidity (Hach) 11.4 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30752 **Reporting Limit** Result **Method** E. coli 1986.3 MPN/100mL 3M9223B(Colilert-18 Lab ID #: AC30752b **Reporting Limit** Result **Method** 3M9223B(Colilert-18 Coliforms (Total) 20980 MPN/100mL 100 SiteID: WLV-15-0010 Sample Date: 9/6/2023 IDEM Sample #: AC30772 ☐ Algae? Water Flow Type Run Water Appearance Brown Water Depth ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result **Reporting Limit Method** % Sat 75.1 % ASTM D888-09(C) DO 6.42 mg/L ASTM D888-09(C) 7.85 SU pH (Field) EPA 150.2 Specific Conductance (Field) 563 umho/cm SM2510B 23.1 °C Temperature SM2550B(2) Turbidity (Hach) 21.5 NTU EPA 180.1 Air Temp 4 Lookup Observation **Sky Conditions** 4 Lookup Observation Wind Direction Observation 27 Lookup Wind Strength 0 Lookup Observation

Lab ID # : 50353339011	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	238	mg/L	10	SM2320B
Chloride	12.5	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	282	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.8	mg/L	2.9	SM2540D
Solids, Total (TS)	353	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	31.3	mg/L	0.25	EPA 300.0
Calcium (Total)	66800	ug/L	1000	EPA 200.7
Magnesium (Total)	28000	ug/L	1000	EPA 200.7
COD	15.1	mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.14	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.62	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.17	mg/L	0.05	EPA 365.1
TKN	1.4	mg/L	0.5	EPA 351.2
TOC	4.9	mg/L	1	SM5310C
Lab ID #: AC30772	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18

SiteID: WLV-15-0010 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37551

Water Flow Type Pool Water Appearance Brown Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Dilution because site failed for E. Coli last month

ab ID #:	Result	Reporting	Limit <u>Method</u>
% Sat	47.2 %		ASTM D888-09(C)
DO	4.4 mg	g/L	ASTM D888-09(C)
pH (Field)	7.5 SL	J	EPA 150.2
Specific Conductance (Field)	598 un	nho/cm	SM2510B
Temperature	18.8 °C		SM2550B(2)
Turbidity (Hach)	45.9 NT	U	EPA 180.1
Air Temp	5 Lo	okup	Observation
Sky Conditions	3 Lo	okup	Observation
Wind Direction	27 Lo	okup	Observation
Wind Strength	1 Lo	okup	Observation

Lab ID # : 50355619010	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	271	mg/L	10	SM2320B
Chloride	16.3	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	323	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	39.6	mg/L	5	SM2540D
Solids, Total (TS)	391	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	328	mg/L	10	SM2540C
Sulfate	26.7	mg/L	0.25	EPA 300.0
Calcium (Total)	79200	ug/L	1000	EPA 200.7
Magnesium (Total)	30500	ug/L	1000	EPA 200.7
COD	20.5	mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.2	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.76	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.3	mg/L	0.05	EPA 365.1
TKN	1.2	mg/L	0.5	EPA 351.2
TOC	4	mg/L	1	SM5310C
Lab ID # : AC37551b	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	23820	MPN/100mL	100	3M9223B(Colilert-18
E. coli	3590	MPN/100mL	100	3M9223B(Colilert-18

Weather Code Definitions							
S	C		WD	WS	AT		
Sky Co	Sky Conditions		Vind Direction	Wind Strength	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			

SiteID:WLV-15-0011USGS Hydrologic Unit:051201081502Stream Name:Leatherwood CreekCounty:Parke

Description: 10 O'Clock Road **Latitude:** 39 48 54.34428 **Longitude:** -87 17 56.76259

Drainage: 17.6405 **Site Number:** 23T-015

SiteID: WLV-15-0011 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30691

Water Flow Type Glide Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Cattle present in stream

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	135.9	%		ASTM D888-09(C)
DO	11.73	mg/L		ASTM D888-09(C)
pH (Field)	8.18	SU		EPA 150.2
Specific Conductance (Field)	554	umho/cm		SM2510B
Temperature	22.6	°C		SM2550B(2)
Turbidity (Hach)	3.45	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437010	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	243	mg/L	10	SM2320B
Chloride	18.8	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	285	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4	mg/L	2.5	SM2540D
Solids, Total (TS)	347	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	315	mg/L	10	SM2540C
Sulfate	28.1	mg/L	0.25	EPA 300.0
Calcium (Total)	68300	ug/L	1000	EPA 200.7
Magnesium (Total)	27800	ug/L	1000	EPA 200.7
COD	11.1	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.63	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.078	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.9	mg/L	1	SM5310C
Lab ID # : AC30691	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	343.6	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0011	Sample Date:	8/15/2023		IDEM Sample	e #: AC30711	
Water Flow Type Glide	Water	Appearance	Clear		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow	v Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					, , , , , , , , , , , , , , , , , , ,	
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			117.5	%		ASTM D888-09(C)
DO			10.49	mg/L		ASTM D888-09(C)
pH (Field)			8.23	SU		EPA 150.2
Specific Conductance (Field)			521	umho/cm		SM2510B
Temperature			20.9	°C		SM2550B(2)
Turbidity (Hach)			9.5	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			3	Lookup		Observation
Lab ID #: AC30711			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	Sample Date:	8/22/2022	1986.3	MPN/100mL	1	SM9223B(Colilert-18
, ,	Sample Date:	8/22/2023 Appearance	1986.3 Clear	IDEM Sample	1 e #: AC30731 Water Depth	SM9223B(Colilert-18
SiteID: WLV-15-0011 Water Flow Type Glide	Water		Clear	IDEM Sample	e#: AC30731	☐ Algae?
E. coli SitelD: WLV-15-0011	Water	Appearance	Clear	IDEM Sample	e #: AC30731 Water Depth	☐ Algae?
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec):	Water	Appearance	Clear	IDEM Sample	e #: AC30731 Water Depth	☐ Algae?
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water	Appearance	Clear ✓ Aq	IDEM Samplo	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20%
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water	Appearance	Clear ✓ Aq Result	IDEM Sample quatic Life?	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water	Appearance	Clear ✓ Aq Result	IDEM Sample Juatic Life? % mg/L	e #: AC30731 Water Depth Canopy Closed %	O-20% Method ASTM D888-09(C)
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water	Appearance	Clear Result 166.3 12.66 8.28	IDEM Sample Juatic Life? % mg/L	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water	Appearance	Clear Result 166.3 12.66 8.28	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5	JUEM Sample Juatic Life? % mg/L SU umho/cm	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38	JUEM Sample Juatic Life?	e #: AC30731 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38 6	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38 6 2	JUEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	e #: AC30731 Water Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38 6 2 27	"C" NTU Lookup Lookup	e #: AC30731 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38 6 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30731 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV-15-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water	Appearance	Clear Result 166.3 12.66 8.28 529 29.5 7.38 6 2 27 1 Result	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AC30731 Water Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0011 Sample Date: 8/29/2023 IDEM Sample #: AC30751 Water Depth ☐ Algae? Water Flow Type Glide Water Appearance Murky ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Dilution because site failed for E. Coli last week. Cows in water. Lab ID #: Result Reporting Limit **Method** 160.8 % % Sat ASTM D888-09(C) DO 12.77 mg/L ASTM D888-09(C) 8.26 SU pH (Field) EPA 150.2 Specific Conductance (Field) 594 umho/cm SM2510B Temperature 27.3 °C SM2550B(2) Turbidity (Hach) 69.1 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: AC30751 **Reporting Limit** Result **Method** E. coli 980.4 MPN/100mL 3M9223B(Colilert-18 Lab ID #: AC30751b Result **Reporting Limit Method** 3M9223B(Colilert-18 Coliforms (Total) 26030 MPN/100mL 100 SiteID: WLV-15-0011 Sample Date: IDEM Sample #: AC30771 9/6/2023 ☐ Algae? Water Flow Type Run Water Appearance Brown Water Depth ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result **Reporting Limit Method** % Sat 127.4 % ASTM D888-09(C) DO 10.55 mg/L ASTM D888-09(C) 8.21 SU pH (Field) EPA 150.2 Specific Conductance (Field) 568 umho/cm SM2510B 24.8 °C Temperature SM2550B(2) Turbidity (Hach) 11 NTU EPA 180.1 Air Temp 5 Lookup Observation **Sky Conditions** 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID # : 50353339010	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	242	mg/L	10	SM2320B
Chloride	16	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	282	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8	mg/L	2.5	SM2540D
Solids, Total (TS)	344	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	336	mg/L	10	SM2540C
Sulfate	30.1	mg/L	0.25	EPA 300.0
Calcium (Total)	67200	ug/L	1000	EPA 200.7
Magnesium (Total)	27600	ug/L	1000	EPA 200.7
COD	10.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.75	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.074	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.9	mg/L	1	SM5310C
Lab ID # : AC30771	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	1553.1	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0011 **Sample Date:** 10/4/2023 **IDEM Sample #**: AC37550

Water Flow Type Run Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Cows are present in the stream

ab ID #:	Result	Reporting Limit Method
% Sat	114.2 %	ASTM D888-09(C)
DO	10.2 mg/L	ASTM D888-09(C)
pH (Field)	8.04 SU	EPA 150.2
Specific Conductance (Field)	431.7 umho/cm	SM2510B
Temperature	20.6 °C	SM2550B(2)
Turbidity (Hach)	29.5 NTU	EPA 180.1
Air Temp	5 Lookup	Observation
Sky Conditions	3 Lookup	Observation
Wind Direction	27 Lookup	Observation
Wind Strength	2 Lookup	Observation

Lab ID # : 50355619009	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	277	mg/L	10	SM2320B
Chloride	19.5	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	326	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	9.6	mg/L	2.6	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	334	mg/L	10	SM2540C
Sulfate	31.2	mg/L	0.25	EPA 300.0
Calcium (Total)	79900	ug/L	1000	EPA 200.7
Magnesium (Total)	30600	ug/L	1000	EPA 200.7
COD	16.7	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.57	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.12	mg/L	0.05	EPA 365.1
TKN	1.2	mg/L	0.5	EPA 351.2
TOC	4.3	mg/L	1	SM5310C
Lab ID # : AC37550	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18

Weather Code Definitions							
S	C		WD	WS	AT		
Sky Co	nditions	Wind Direction		aditions Wind Direction		Wind Strength	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			

SiteID:WLV-15-0012USGS Hydrologic Unit:051201081501Stream Name:Leatherwood CreekCounty:Parke

Description: Hill Top Road **Latitude:** 39 49 19.03199 **Longitude:** -87 16 25.14550

Drainage: 10.9545 **Site Number:** 23T-016

SitelD: WLV-15-0012 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30706

Water Flow Type Pool Water Appearance Clear Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	99.9	%		ASTM D888-09(C)
DO	8.98	mg/L		ASTM D888-09(C)
pH (Field)	8.03	SU		EPA 150.2
Specific Conductance (Field)	589	umho/cm		SM2510B
Temperature	20.5	°C		SM2550B(2)
Turbidity (Hach)	2.6	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437008	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	258	mg/L	10	SM2320B
Chloride	22.4	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	295	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	373	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	333	mg/L	10	SM2540C
Sulfate	24.9	mg/L	0.25	EPA 300.0
Calcium (Total)	72300	ug/L	1000	EPA 200.7
Magnesium (Total)	27700	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.83	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.12	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3.5	mg/L	1	SM5310C
Lab ID #: AC30706	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	613.1	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0012	Sample Date: 8	/15/2023		IDEM Sample	e #: AC30726	
Water Flow Type Run	Water Ap	pearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow E	stimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:			Result		Reporting Limit	<u>Method</u>
% Sat			98.9	%		ASTM D888-09(C)
DO			9	mg/L		ASTM D888-09(C)
pH (Field)			8.13	SU		EPA 150.2
Specific Conductance (Field)			562	umho/cm		SM2510B
Temperature			19.8	°C		SM2550B(2)
Turbidity (Hach)			6.83	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID #: AC30726			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli			727	MPN/100mL	1	3M9223B(Colilert-18
O': 15	• • • • • •	VID 0 10 0 0 0			W A000740	
	•	/22/2023 pearance	Clear	•	e #: AC30746 Water Depth	☐ Algae?
Water Flow Type Run	Water Ap			•		
	Water Ap	pearance		·	Water Depth	
Water Flow Type Run Water Flow (cf/sec):	Water Ap	pearance		·	Water Depth	
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Ap	pearance	✓ Ac	uatic Life?	Water Depth Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #:	Water Ap	pearance	Ac Result	nuatic Life?	Water Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat	Water Ap	pearance	Result	yuatic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO	Water Ap	pearance	Result 136.6 11.23 8.28	yuatic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field)	Water Ap	pearance	Result 136.6 11.23 8.28	% mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2	% mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2 4.63	% mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2 4.63 6	% mg/L SU umho/cm °C NTU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2 4.63 6 3	% mg/L SU umho/cm °C NTU Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2 4.63 6 3 27	% mg/L SU umho/cm °C NTU Lookup Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Ap	pearance	Result 136.6 11.23 8.28 620 25.2 4.63 6 3 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Ap	pearance estimated?	Result 136.6 11.23 8.28 620 25.2 4.63 6 3 27 0 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0012 Sample Date: 8/29/2023 IDEM Sample #: AC30766 Water Depth ☐ Algae? Water Flow Type Run Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: Result Reporting Limit **Method** 137.9 % % Sat ASTM D888-09(C) DO 12.01 mg/L ASTM D888-09(C) 8.28 SU pH (Field) EPA 150.2 Specific Conductance (Field) 634 umho/cm SM2510B Temperature 22.4 °C SM2550B(2) Turbidity (Hach) 5.17 NTU EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation Lab ID #: AC30766 **Reporting Limit** Result **Method** Coliforms (Total) > 2419.6 MPN/100mL 2419.6 3M9223B(Colilert-18 E. coli 461.1 MPN/100mL 1 3M9223B(Colilert-18 SiteID: WLV-15-0012 Sample Date: IDEM Sample #: AC30786 9/6/2023 ☐ Algae? Water Flow Type Water Appearance Brown **Water Depth** Run ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID #: **Reporting Limit Method** Result 92 % % Sat ASTM D888-09(C) DO 7.93 mg/L ASTM D888-09(C) pH (Field) 8.1 SU EPA 150.2 Specific Conductance (Field) 619 umho/cm SM2510B 22.7 °C Temperature SM2550B(2) Turbidity (Hach) 14.6 NTU EPA 180.1 Air Temp 5 Lookup Observation **Sky Conditions** Observation 4 Lookup Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID # : 50353339008	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	266	mg/L	10	SM2320B
Chloride	19.3	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	293	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.2	mg/L	2.5	SM2540D
Solids, Total (TS)	359	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	355	mg/L	10	SM2540C
Sulfate	26.9	mg/L	0.25	EPA 300.0
Calcium (Total)	72200	ug/L	1000	EPA 200.7
Magnesium (Total)	27300	ug/L	1000	EPA 200.7
COD	12.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.25	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.12	mg/L	0.05	EPA 365.1
TKN	0.65	mg/L	0.5	EPA 351.2
TOC	3.2	mg/L	1	SM5310C
Lab ID #: AC30786	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18

SiteID: WLV-15-0012 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37565

Water Flow Type Pool Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Dilution because site failed for E. Coli previous month. Oily sheen.

ab ID #:	Result		Reporting Limit	Method
% Sat	83	%		ASTM D888-09(C)
DO	7.83	mg/L		ASTM D888-09(C)
pH (Field)	8.04	SU		EPA 150.2
Specific Conductance (Field)	642	umho/cm		SM2510B
Temperature	18	°C		SM2550B(2)
Turbidity (Hach)	5.67	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Lab ID # : 50355619007	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	289	mg/L	10	SM2320B
Chloride	24.2	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	336	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7	mg/L	2.5	SM2540D
Solids, Total (TS)	379	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	342	mg/L	10	SM2540C
Sulfate	27.6	mg/L	0.25	EPA 300.0
Calcium (Total)	84100	ug/L	1000	EPA 200.7
Magnesium (Total)	30600	ug/L	1000	EPA 200.7
COD	12.6	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.81	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.12	mg/L	0.05	EPA 365.1
TKN	0.52	mg/L	0.5	EPA 351.2
TOC	3.1	mg/L	1	SM5310C
Lab ID # : AC37565	<u>Result</u>		Reporting Limit	Method
E. coli	2419.6	MPN/100mL	1	3M9223B(Colilert-18
Lab ID # : AC37565b	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	11450	MPN/100mL	100	3M9223B(Colilert-18

	Weather Code Definitions						
SC			WD	ws	AT		
Sky Co	nditions	١ ١	Wind Direction	Wind Strength	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			

SiteID:WLV-15-0013USGS Hydrologic Unit:051201081501Stream Name:Cat CreekCounty:Parke

Description: Clay Plant Road **Latitude:** 39 49 57.63528 **Longitude:** -87 16 59.91206

Drainage: 4.167 Site Number: 23T-017

SitelD: WLV-15-0013 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30690

Water Flow Type Run Water Appearance Clear Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	83.5	%		ASTM D888-09(C)
DO	7.56	mg/L		ASTM D888-09(C)
pH (Field)	7.87	SU		EPA 150.2
Specific Conductance (Field)	513	umho/cm		SM2510B
Temperature	20.2	°C		SM2550B(2)
Turbidity (Hach)	3.55	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437009	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	213	mg/L	10	SM2320B
Chloride	13.3	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	261	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	333	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	301	mg/L	10	SM2540C
Sulfate	34.7	mg/L	0.25	EPA 300.0
Calcium (Total)	62700	ug/L	1000	EPA 200.7
Magnesium (Total)	25300	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.1	mg/L	0.1	EPA 353.2
Phosphorus, Total		mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3.9	mg/L	1	SM5310C
Lab ID # : AC30690	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	613.1	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0013	Sample Date: 8/15/2023		IDEM Sample	#: AC30710	
Nater Flow Type Run	Water Appearance	Murky	v	ater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated	? 🗸 Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	Method
Lab ID #.		<u>itesuit</u>		Reporting Limit	Metriod
% Sat		86.5	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.93			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		19.9			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # : AC30710		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
SiteID: WLV-15-0013	Sample Date: 8/22/2023	Class	IDEM Sample		□ Almos 2
SiteID: WLV-15-0013 Water Flow Type Run	Sample Date: 8/22/2023 Water Appearance	e Clear	-	#: AC30730 /ater Depth	☐ Algae?
Vater Flow Type Run	•		-		-
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	? ✓ Ac	W quatic Life?	ater Depth	-
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Did dilu	Water Appearance	? ✓ Ac	W quatic Life?	ater Depth	-
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearance	? Ac	Wuatic Life?	/ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #:	Water Appearance	? Ac Coli previou Result	Wuatic Life?	/ater Depth Canopy Closed %	0-20% <u>Method</u>
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat	Water Appearance	? Ac Coli previou Result	quatic Life? s week. % mg/L	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO	Water Appearance	Coli previou Result 97.5 8.16 8.09	quatic Life? s week. % mg/L	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field)	Water Appearance	Coli previou Result 97.5 8.16 8.09	yuatic Life? Is week. % mg/L SU umho/cm	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 97.5 8.16 8.09 606 24.3	yuatic Life? Is week. % mg/L SU umho/cm	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 97.5 8.16 8.09 606 24.3 4.73	yuatic Life? s week. % mg/L SU umho/cm °C	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Previous Pre	wquatic Life? s week. % mg/L SU umho/cm °C NTU	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Previous Result 97.5 8.16 8.09 606 24.3 4.73 6 1	wquatic Life? s week. % mg/L SU umho/cm °C NTU Lookup	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat	Water Appearance	Result 97.5 8.16 8.09 606 24.3 4.73 6 1 27	waquatic Life? Is week.	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance	Result 97.5 8.16 8.09 606 24.3 4.73 6 1 27	watic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Previous Result 97.5 8.16 8.09 606 24.3 4.73 6 1 27 1 Result	watic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	/ater Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30730	Water Appearance	Result 97.5 8.16 8.09 606 24.3 4.73 6 1 27 1 Result	watic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Atter Depth Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method 3M9223B(Colilert-18
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30730 E. coli	Water Appearance	Result 97.5 8.16 8.09 606 24.3 4.73 6 1 27 1 Result 1553.1 Result	watic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Atter Depth Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method

Thursday, November 9, 2023

SitelD: WLV-15-0013	Sample Date: 8/29/2023		IDEM Sample	#: AC30750	
Water Flow Type Run	Water Appearance	Clear	_	later Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	ν Δα	uatic Life?	Canopy Closed %	
	_ riow Estimated:	<u> </u>	luatio Elic :	Ouriopy Gloseu 70	0-2070
Sampler Comments:					
Lab ID #:		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		103.7	%		ASTM D888-09(C)
DO		9.3	mg/L		ASTM D888-09(C)
pH (Field)		8.1	SU		EPA 150.2
Specific Conductance (Field)		639	umho/cm		SM2510B
Temperature		20.7	°C		SM2550B(2)
Turbidity (Hach)		3.94	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # : AC30750		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		461.1	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0013	Sample Date: 9/6/2023		IDEM Sample	#: AC30770	
Vater Flow Type Run	Water Appearance	Clear	W	later Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		81.8	%		ASTM D888-09(C)
DO		7.08	mg/L		ASTM D888-09(C)
		8.05	SU		EPA 150.2
pH (Field)			umho/cm		SM2510B
pH (Field) Specific Conductance (Field)		606			
		606 22.5			SM2550B(2)
Specific Conductance (Field)		22.5			SM2550B(2) EPA 180.1
Specific Conductance (Field) Temperature		22.5 9.05	°C		
Specific Conductance (Field) Temperature Turbidity (Hach)		22.5 9.05 5	°C NTU		EPA 180.1
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		22.5 9.05 5 3	°C NTU Lookup		EPA 180.1 Observation

Lab ID # : 50353339009	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	10	SM2320B
Chloride	15.2	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	305	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.3	mg/L	2.5	SM2540D
Solids, Total (TS)	361	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	346	mg/L	10	SM2540C
Sulfate	43.3	mg/L	0.25	EPA 300.0
Calcium (Total)	72500	ug/L	1000	EPA 200.7
Magnesium (Total)	30000	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.71	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.17	mg/L	0.05	EPA 365.1
TKN	0.78	mg/L	0.5	EPA 351.2
TOC	3.4	mg/L	1	SM5310C
Lab ID # : AC30770	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18

SiteID: WLV-15-0013 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37549

Water Flow Type Pool Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Dilution because the site failed last month for E. Coli

ab ID #:	<u>Result</u>	Reporting Limit	Method
% Sat	67.3 %		ASTM D888-09(C)
DO	6.43 mg/L		ASTM D888-09(C)
pH (Field)	7.82 SU		EPA 150.2
Specific Conductance (Field)	609 umho/cm		SM2510B
Temperature	18.1 °C		SM2550B(2)
Turbidity (Hach)	7.05 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID # : 50355619008	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	266	mg/L	10	SM2320B
Chloride	14.1	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	337	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.9	mg/L	2.5	SM2540D
Solids, Total (TS)	379	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	325	mg/L	10	SM2540C
Sulfate	36.3	mg/L	2.5	EPA 300.0
Calcium (Total)	81100	ug/L	1000	EPA 200.7
Magnesium (Total)	32500	ug/L	1000	EPA 200.7
COD	12.9	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.44	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.19	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3.7	mg/L	1	SM5310C
Lab ID # : AC37549	<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli	191.8	MPN/100mL	1	3M9223B(Colilert-18
Lab ID # : AC37549b	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	19560	MPN/100mL	100	3M9223B(Colilert-18

		W	eather Code Def	initions	
_	C	•	WD Vind Direction	WS Wind Strongth	AT Air Town
SKy Co	nditions	,	vina Direction	Wind Strength	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	

SiteID:WLV-15-0014USGS Hydrologic Unit:051201081501Stream Name:Leatherwood CreekCounty:Parke

Description: Broadway Street Latitude: 39 49 41.69742 Longitude: -87 14 55.00007

Drainage: 6.65 **Site Number:** 23T-018

SitelD: WLV-15-0014 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30705

Water Flow Type Run Water Appearance Clear Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	Method
% Sat	66.3	%		ASTM D888-09(C)
DO	6	mg/L		ASTM D888-09(C)
pH (Field)	7.53	SU		EPA 150.2
Specific Conductance (Field)	618	umho/cm		SM2510B
Temperature	20.1	°C		SM2550B(2)
Turbidity (Hach)	4.72	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # : 50351437007	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	259	mg/L	10	SM2320B
Chloride	21.7	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	304	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.9	mg/L	2.5	SM2540D
Solids, Total (TS)	408	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	369	mg/L	10	SM2540C
Sulfate	27.3	mg/L	0.25	EPA 300.0
Calcium (Total)	74000	ug/L	1000	EPA 200.7
Magnesium (Total)	29000	ug/L	1000	EPA 200.7
COD	14.8	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.2	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.3	mg/L	0.05	EPA 365.1
TKN	0.96	mg/L	0.5	EPA 351.2
TOC	5.7	mg/L	1	SM5310C
Lab ID # : AC30705	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	1119.9	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0014	Sample Date: 8/	15/2023		IDEM Sampl	le #: AC30725	
Vater Flow Type Run	Water App	earance E	Brown		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Es	timated?	\square Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #:		<u>R</u>	<u>lesult</u>		Reporting Limit	<u>Method</u>
% Sat			73.7	%		ASTM D888-09(C)
DO			6.76	mg/L		ASTM D888-09(C)
pH (Field)			7.72	SU		EPA 150.2
Specific Conductance (Field)			566	umho/cm		SM2510B
Temperature			19.5	°C		SM2550B(2)
Turbidity (Hach)			20.8	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID #: AC30725		<u>R</u>	<u>tesult</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2	2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		> 2	2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
SITELD: VVLV-13-0014	Sample Date: 8/2	22/2023		IDEM Sampl	le #: AC30745	
SiteID: WLV-15-0014 Nater Flow Type Run	Sample Date: 8/2 Water App	22/2023 earance (Clear	IDEM Sampl	le #: AC30745 Water Depth	☐ Algae?
Nater Flow Type Run	Water App		_	IDEM Sampluatic Life?		_
Nater Flow Type Run Nater Flow (cf/sec):	Water App	earance (✓ Aq	uatic Life?	Water Depth	_
Nater Flow Type Run Nater Flow (cf/sec):	Water App	timated?	✓ Aq	uatic Life?	Water Depth	_
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu	Water App	timated?	Aq previous	uatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #:	Water App	timated?	Aqprevious	uatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat	Water App	timated?	Aqprevious	uatic Life? s week. % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO	Water App	timated?	Aqprevious 8esult 86.6 7.24 7.68	uatic Life? s week. % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field)	Water App	timated?	Aqprevious 8esult 86.6 7.24 7.68	watic Life? s week. % mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water App	timated?	Result 86.6 7.24 7.68 652	watic Life? s week. % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water App	timated?	Result 86.6 7.24 7.68 652 24.3 4.72	watic Life? s week. % mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water App	timated?	86.6 7.24 7.68 652 24.3 4.72 6	watic Life? s week. % mg/L SU umho/cm °C NTU	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water App	timated?	86.6 7.24 7.68 652 24.3 4.72 6 2	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water App	timated?	Result 86.6 7.24 7.68 652 24.3 4.72 6 2 27	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water App	rearance (timated? ed for E. Coli p	Result 86.6 7.24 7.68 652 24.3 4.72 6 2 27	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water App	rearance (timated? ed for E. Coli p	86.6 7.24 7.68 652 24.3 4.72 6 2 27 0	watic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Water Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

SiteID: WLV-15-0014 Sample Date: 8/29/2023 IDEM Sample #: AC30765 Water Depth ✓ Algae? Water Flow Type Run Water Appearance Clear ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Dilution because site failed for E. Coli last week Lab ID #: Result Reporting Limit **Method** 85.9 % % Sat ASTM D888-09(C) DO 7.64 mg/L ASTM D888-09(C) 7.55 SU pH (Field) EPA 150.2 Specific Conductance (Field) 682 umho/cm SM2510B Temperature 21.3 °C SM2550B(2) Turbidity (Hach) 8.91 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID #: AC30765b **Reporting Limit** Result **Method** Coliforms (Total) 173290 MPN/100mL 100 3M9223B(Colilert-18 E. coli 24810 MPN/100mL 100 3M9223B(Colilert-18 SiteID: WLV-15-0014 Sample Date: IDEM Sample #: AC30785 9/6/2023 ☐ Algae? Water Flow Type Water Appearance Clear **Water Depth** Run ☐ Flow Estimated? Water Flow (cf/sec): ✓ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Did dilution because site failed for E. Coli previous week. Lab ID #: **Reporting Limit Method** Result % Sat 61.8 % ASTM D888-09(C) DO 5.42 mg/L ASTM D888-09(C) pH (Field) 7.64 SU EPA 150.2 Specific Conductance (Field) 662 umho/cm SM2510B 21.8 °C Temperature SM2550B(2) 9.01 NTU Turbidity (Hach) EPA 180.1 Air Temp 5 Lookup Observation Sky Conditions Observation 3 Lookup Wind Direction 27 Lookup Observation Wind Strength 0 Lookup Observation

Lab ID # : 50353339007	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	271	mg/L	10	SM2320B
Chloride	22.2	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	312	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.9	mg/L	2.5	SM2540D
Solids, Total (TS)	388	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	377	mg/L	10	SM2540C
Sulfate	35.6	mg/L	0.25	EPA 300.0
Calcium (Total)	77200	ug/L	1000	EPA 200.7
Magnesium (Total)	28900	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.1	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.17	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3	mg/L	1	SM5310C
Lab ID # : AC30785b	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	64880	MPN/100mL	100	3M9223B(Colilert-18
E. coli	2920	MPN/100mL	100	SM9223B(Colilert-18

SiteID: WLV-15-0014 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37564

Water Flow Type Pool Water Appearance Sheen Water Depth ✓ Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Oily sheen. Dilution because site failed for E. Coli last month.

ab ID #:	<u>Result</u>	Reporting Limit	<u>Method</u>
% Sat	45.2 %		ASTM D888-09(C)
DO	4.27 mg/	/L	ASTM D888-09(C)
pH (Field)	7.55 SU		EPA 150.2
Specific Conductance (Field)	648 um	ho/cm	SM2510B
Temperature	18 °C		SM2550B(2)
Turbidity (Hach)	6.83 NT	U	EPA 180.1
Air Temp	4 Loc	okup	Observation
Sky Conditions	3 Loc	okup	Observation
Wind Direction	27 Loc	okup	Observation
Wind Strength	0 Loc	okup	Observation

Lab ID # : 50355619006	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	279	mg/L	10	SM2320B
Chloride	22.8	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	335	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3	mg/L	2.5	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	348	mg/L	10	SM2540C
Sulfate	34.8	mg/L	0.25	EPA 300.0
Calcium (Total)	83400	ug/L	1000	EPA 200.7
Magnesium (Total)	30800	ug/L	1000	EPA 200.7
COD	11.9	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.84	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.18	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	3	mg/L	1	SM5310C
Lab ID # : AC37564b	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	30760	MPN/100mL	100	3M9223B(Colilert-18
E. coli	7490	MPN/100mL	100	3M9223B(Colilert-18

		We	eather Code Defi	initions	
S	C		WD	WS	AT
Sky Co	nditions	V	Vind Direction	Wind Strength	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	

SiteID:WLV-15-0015USGS Hydrologic Unit:051201081501Stream Name:Leatherwood CreekCounty:Parke

Description: US Highway 41 **Latitude:** 39 50 4.32313 **Longitude:** -87 14 8.75426

Drainage: 5.444 Site Number: 23T-019

Water Flow Type Run Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	66.5	%		ASTM D888-09(C)
DO	6.11	mg/L		ASTM D888-09(C)
pH (Field)	7.59	SU		EPA 150.2
Specific Conductance (Field)	594	umho/cm		SM2510B
Temperature	19.4	°C		SM2550B(2)
Turbidity (Hach)	8.28	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437006	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	251	mg/L	10	SM2320B
Chloride	23.7	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	298	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.1	mg/L	2.5	SM2540D
Solids, Total (TS)	383	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	345	mg/L	10	SM2540C
Sulfate	29.8	mg/L	0.25	EPA 300.0
Calcium (Total)	72600	ug/L	1000	EPA 200.7
Magnesium (Total)	28300	ug/L	1000	EPA 200.7
COD	14.8	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.61	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.26	mg/L	0.05	EPA 365.1
TKN	0.74	mg/L	0.5	EPA 351.2
TOC	4.8	mg/L	1	SM5310C
Lab ID # : AC30704	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	1299.7	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0015	Sample Date: 8/15/202	3	IDEM Sample	#: AC30724	
Vater Flow Type Run	Water Appearan	ce Clear	V	later Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimate	ed? ✓ Ad	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		78.7	%		ASTM D888-09(C)
DO		7.18	mg/L		ASTM D888-09(C)
pH (Field)		7.81	SU		EPA 150.2
Specific Conductance (Field)		576	umho/cm		SM2510B
Temperature		19.8	°C		SM2550B(2)
Turbidity (Hach)		12.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID #: AC30724		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
			MPN/100mL	2419.6	3M9223B(Colilert-18
SiteID: WLV-15-0015	Sample Date: 8/22/202	3	IDEM Sample	#: AC30744	
SiteID: WLV-15-0015	Sample Date: 8/22/202 Water Appearan	:3 ce Clear	IDEM Sample		☐ Algae?
SiteID: WLV-15-0015 Water Flow Type Riffle Water Flow (cf/sec):	·	:3 ice Clear ed? ☑ Ad	IDEM Sample W quatic Life?	#: AC30744	☐ Algae?
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearan	:3 ice Clear ed? ☑ Ad	IDEM Sample W quatic Life?	#: AC30744 Vater Depth	☐ Algae?
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearan Flow Estimate tion because site failed for E	:3 i ce Clear ed? ☑ Ai E. Coli previou	IDEM Sample V quatic Life? us week.	#: AC30744 Vater Depth Canopy Closed %	Algae? 0-20% Method
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearan Flow Estimate tion because site failed for E	ce Clear ed? ✓ A E. Coli previou Result	IDEM Sample Vicuation Life? us week.	#: AC30744 Vater Depth Canopy Closed %	O-20% Method ASTM D888-09(C)
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO	Water Appearan Flow Estimate tion because site failed for E	ce Clear ed? ✓ A E. Coli previou Result	IDEM Sample Viquatic Life? us week. % mg/L	#: AC30744 Vater Depth Canopy Closed %	Algae? 0-20% Method
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): campler Comments: Did dilu Lab ID #: % Sat DO pH (Field)	Water Appearan Flow Estimate tion because site failed for E	Clear ed?	IDEM Sample Viquatic Life? us week. % mg/L	#: AC30744 Vater Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO	Water Appearan Flow Estimate tion because site failed for E	Clear ed?	IDEM Sample V quatic Life? us week. % mg/L SU umho/cm	#: AC30744 Vater Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearan Flow Estimate tion because site failed for E	23 ce Clear ed? ✓ A E. Coli previou Result 77.4 6.68 7.74 632 22.6	IDEM Sample V quatic Life? us week. % mg/L SU umho/cm	#: AC30744 Vater Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WLV-15-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Did dilur Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearan Flow Estimate tion because site failed for E	Result 77.4 6.68 7.74 6.32 22.6	IDEM Sample V quatic Life? Is week. % mg/L SU umho/cm °C NTU	#: AC30744 Vater Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearan Flow Estimate tion because site failed for E	Result 77.4 6.68 7.74 6.62 22.6	IDEM Sample Vicuatic Life? Is week. % mg/L SU umho/cm °C NTU Lookup	#: AC30744 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WLV-15-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Did dilur Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearan Flow Estimate tion because site failed for E	Result 77.4 6.68 7.74 6.62 22.6 6 6	IDEM Sample V quatic Life? us week. % mg/L SU umho/cm °C NTU Lookup Lookup	#: AC30744 Vater Depth Canopy Closed %	☐ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearan Flow Estimate tion because site failed for E	Result 77.4 6.68 7.74 6.32 22.6 6 3 27	IDEM Sample Vicuatic Life? Is week. % mg/L SU umho/cm °C NTU Lookup	#: AC30744 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WLV-15-0015 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearan Flow Estimate tion because site failed for E	Result 77.4 6.68 7.74 6.32 22.6 6 3 27	IDEM Sample Viquatic Life? Is week.	#: AC30744 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
SiteID: WLV-15-0015 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearan Flow Estimate tion because site failed for E	Result Result Result 77.4 6.68 7.74 6.32 22.6 6 6 7.4 6.3 7.4 6.8	IDEM Sample Viquatic Life? Is week.	#: AC30744 Vater Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
SiteID: WLV-15-0015 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30744	Water Appearan Flow Estimate tion because site failed for E	Result Result Result 77.4 6.68 7.74 6.32 22.6 6 6 7.4 6.3 7.4 6.8	IDEM Sample Vequatic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	#: AC30744 Vater Depth Canopy Closed % Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method
SiteID: WLV-15-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Did dilur Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30744 E. coli	Water Appearan Flow Estimate tion because site failed for E	Result Result 77.4 6.68 7.74 6.32 22.6 6 6 7.74 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	IDEM Sample Vequatic Life? Is week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	#: AC30744 Vater Depth Canopy Closed % Reporting Limit Reporting Limit	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method 3M9223B(Colilert-18

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SitelD: WLV-15-0015	Sample Date: 8/29/2023		IDEM Sample	#: AC30764	
Water Flow Type Riffle	Water Appearance	Clear	V	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		69.7	%		ASTM D888-09(C)
DO		6.57	mg/L		ASTM D888-09(C)
pH (Field)		7.53	SU		EPA 150.2
Specific Conductance (Field)		660	umho/cm		SM2510B
Temperature		18.3	°C		SM2550B(2)
Turbidity (Hach)		5.64	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID #: AC30764		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		435.2	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0015	Sample Date: 9/6/2023	01	IDEM Sample		
Water Flow Type Riffle	Water Appearance	Clear		Vater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		53.8	%		ASTM D888-09(C)
DO		4.85	mg/L		ASTM D888-09(C)
50		7.60	SU		EPA 150.2
pH (Field)		7.03			
			umho/cm		SM2510B
pH (Field)					SM2510B SM2550B(2)
pH (Field) Specific Conductance (Field)		640 20.4			
pH (Field) Specific Conductance (Field) Temperature		640 20.4 8.55	°C		SM2550B(2)
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		640 20.4 8.55 4	°C NTU		SM2550B(2) EPA 180.1
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		640 20.4 8.55 4	°C NTU Lookup		SM2550B(2) EPA 180.1 Observation

Lab ID # : 50353339006	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	265	mg/L	10	SM2320B
Chloride	16.3	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	321	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.2	mg/L	2.5	SM2540D
Solids, Total (TS)	395	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	338	mg/L	10	SM2540C
Sulfate	46.2	mg/L	0.25	EPA 300.0
Calcium (Total)	79400	ug/L	1000	EPA 200.7
Magnesium (Total)	29800	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.22	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.29	mg/L	0.05	EPA 365.1
TKN	0.58	mg/L	0.5	EPA 351.2
TOC		mg/L	1	SM5310C
Lab ID # : AC30784	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	1732.9	MPN/100mL	1	3M9223B(Colilert-18

SiteID: WLV-15-0015 **Sample Date:** 10/4/2023 **IDEM Sample #:** AC37563

Water Flow Type Pool Water Appearance Clear Water Depth

Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: Iron color substance orange color

ab ID #:	Result	Repo	orting Limit	<u>Method</u>
% Sat	49.7 %			ASTM D888-09(C)
DO	4.79 m	g/L	,	ASTM D888-09(C)
pH (Field)	7.54 SI	J		EPA 150.2
Specific Conductance (Field)	677 ur	nho/cm		SM2510B
Temperature	17 °C	;		SM2550B(2)
Turbidity (Hach)	5.3 N	TU		EPA 180.1
Air Temp	4 Lo	ookup		Observation
Sky Conditions	3 Lo	ookup		Observation
Wind Direction	27 Lo	ookup		Observation
Wind Strength	2 Lo	ookup		Observation

Lab ID # : 50355619005	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	277	mg/L	10	SM2320B
Chloride	23.6	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	349	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5	mg/L	2.5	SM2540D
Solids, Total (TS)	386	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	376	mg/L	10	SM2540C
Sulfate	43.3	mg/L	2.5	EPA 300.0
Calcium (Total)	86300	ug/L	1000	EPA 200.7
Magnesium (Total)	32400	ug/L	1000	EPA 200.7
COD	< 10	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.56	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13	mg/L	0.05	EPA 365.1
TKN	< 0.5	mg/L	0.5	EPA 351.2
TOC	2.4	mg/L	1	SM5310C
Lab ID # : AC37563	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli	456.9	MPN/100mL	1	3M9223B(Colilert-18

Weather Code Definitions								
S	C	WS	AT					
Sky Co	nditions Wind Direction		Sky Conditions		Wind Strength	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				

SiteID:WLV-15-0016USGS Hydrologic Unit:051201081501Stream Name:Leatherwood CreekCounty:Parke

Description: Marshall Road Latitude: 39 50 20.23781 Longitude: -87 11 33.49247

Drainage: 1.403 Site Number: 23T-020

SitelD: WLV-15-0016 **Sample Date:** 8/9/2023 **IDEM Sample #:** AC30703

Water Flow Type Riffle Water Appearance Clear Water Depth Algae?

Water Flow (cf/sec): ☐ Flow Estimated? ✓ Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result		Reporting Limit	<u>Method</u>
% Sat	71	%		ASTM D888-09(C)
DO	6.47	mg/L	ASTM D888-09(C	
pH (Field)	7.68	SU	EPA 150.2	
Specific Conductance (Field)	440.4	umho/cm	SM2510B	
Temperature	19.9	°C	SM2550B(2)	
Turbidity (Hach)	9.44	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # : 50351437005	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	199	mg/L	10	SM2320B
Chloride	17.2	mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	222	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	13.9	mg/L	2.5	SM2540D
Solids, Total (TS)	278	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	248	mg/L	10	SM2540C
Sulfate	7.2	mg/L	0.25	EPA 300.0
Calcium (Total)	53200	ug/L	1000	EPA 200.7
Magnesium (Total)	21600	ug/L	1000	EPA 200.7
COD	15.7	mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.26	mg/L	0.1	EPA 353.2
Phosphorus, Total	0.16	-	0.05	EPA 365.1
TKN	0.73	mg/L	0.5	EPA 351.2
TOC	5.2	mg/L	1	SM5310C
Lab ID # : AC30703b	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	26030	MPN/100mL	100	3M9223B(Colilert-18
E. coli	2230	MPN/100mL	100	3M9223B(Colilert-18

SiteID: WLV-15-0016	Sample Date: 8/15/2023			#: AC30723	
later Flow Type Run	Water Appearance	Clear	W	ater Depth	☐ Algae?
/ater Flow (cf/sec):	☐ Flow Estimated?	,	uatic Life?	Canopy Closed %	0-20%
ampler Comments: Did a di	lution because site failed previou	us trip for	E coli		
_ab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat		87.1	%		ASTM D888-09(C)
DO		7.94	mg/L		ASTM D888-09(C)
pH (Field)		8.04	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		19.7	°C		SM2550B(2)
Turbidity (Hach)		8.97	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
_ab ID # : AC30723b		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		19350	MPN/100mL	100	3M9223B(Colilert-18
E. coli		1420	MPN/100mL	100	3M9223B(Colilert-18
SiteID: WLV-15-0016	Sample Date: 8/22/2023 Water Appearance	Clear	IDEM Sample		Algae?
Vater Flow Type Run	Water Appearance	Clear	W	later Depth	☐ Algae?
Vater Flow Type Run Vater Flow (cf/sec):	•	✓ Aq	W uatic Life?		-
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearance Flow Estimated?	✓ Aq	W uatic Life?	later Depth	-
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu	Water Appearance Flow Estimated?	✓ Ac	Wuatic Life? s week.	Vater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #:	Water Appearance Flow Estimated?	Acoli previou Result 85.4	Wuatic Life? s week.	Vater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #:	Water Appearance Flow Estimated?	Acoli previou Result 85.4	yuatic Life? s week. % mg/L	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): Campler Comments: Did dilu Lab ID #: % Sat DO pH (Field)	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92	yuatic Life? s week. % mg/L SU	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92	yuatic Life? s week. % mg/L SU umho/cm	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9	yuatic Life? s week. % mg/L SU umho/cm	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Run Vater Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99	watic Life? s week. % mg/L SU umho/cm °C NTU	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Vater Flow Type Run Vater Flow (cf/sec): Campler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6	y guatic Life? s week. % mg/L SU umho/cm °C NTU Lookup	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2	y guatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Water Flow Type Run Water Flow (cf/sec): sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2 27	yuatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Campler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2 27	y guatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2 27	yuatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2 27 0 Result	yuatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Vater Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Did dilu Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID #: AC30743	Water Appearance Flow Estimated?	Result 85.4 7.16 7.92 588 23.9 4.99 6 2 27 0 Result	y guatic Life? s week. % mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Vater Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method

Thursday, November 9, 2023

SiteID: WLV-15-0016	Sample Date: 8/29/2023		IDEM Sample	#: AC30763	
Water Flow Type Riffle	Water Appearance	Clear	W	later Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat	-	66.3	%		ASTM D888-09(C)
DO		6.15	mg/L		ASTM D888-09(C)
pH (Field)		7.73	SU		EPA 150.2
Specific Conductance (Field)		602	umho/cm		SM2510B
Temperature		19	°C		SM2550B(2)
Turbidity (Hach)		7.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID #: AC30763		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		1986.3	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0016	Sample Date: 9/6/2023		IDEM Sample		□
Water Flow Type Stagnant	Water Appearance	Clear	V	/ater Depth	
					/guo .
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	
		✓ Aq	uatic Life?	-	
	☐ Flow Estimated?	✓ Aq	uatic Life?	-	
Sampler Comments: Stream	Flow Estimated? was mostly dry. Took sample in	✓ Aq	uatic Life? ed pool.	Canopy Closed %	0-20%
Sampler Comments: Stream Lab ID #:	Flow Estimated? was mostly dry. Took sample in	Aq an isolate	uatic Life? ed pool.	Canopy Closed %	0-20%
Sampler Comments: Stream Lab ID #: % Sat	Flow Estimated? was mostly dry. Took sample in	Aq an isolate	ed pool. % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Sampler Comments: Stream Lab ID #: % Sat DO	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77	ed pool. % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Lab ID #: % Sat DO pH (Field)	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77	watic Life? ed pool. % mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field)	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77 619	watic Life? ed pool. % mg/L SU umho/cm °C	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77 619 21.9 20.9	watic Life? ed pool. % mg/L SU umho/cm °C	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Sampler Comments: Stream Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77 619 21.9 20.9	watic Life? ed pool. % mg/L SU umho/cm °C NTU	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Lab ID #: % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Flow Estimated? was mostly dry. Took sample in	Result 22.7 1.99 7.77 619 21.9 20.9 4	% mg/L SU umho/cm °C NTU Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Lab ID # : 50353339005		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		275	mg/L	10	SM2320B
Chloride		27.7	mg/L	2.5	EPA 300.0
Hardness (as CaCO3)		293	mg/L	10	SM2340B
Solids, Suspended Total, (TSS)		14.9	mg/L	3.5	SM2540D
Solids, Total (TS)		368	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		323	mg/L	10	SM2540C
Sulfate		6.3	mg/L	0.25	EPA 300.0
Calcium (Total)		70900	ug/L	1000	EPA 200.7
Magnesium (Total)		28300	ug/L	1000	EPA 200.7
COD		19.2	mg/L	10	EPA 410.4
Nitrogen, Ammonia		0.36	mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2
Phosphorus, Total		0.22	mg/L	0.05	EPA 365.1
TKN		1.3	mg/L	0.5	EPA 351.2
TOC		6.2	mg/L	1	SM5310C
Lab ID #: AC30783		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	3M9223B(Colilert-18
E. coli		344.8	MPN/100mL	1	3M9223B(Colilert-18
SiteID: WLV-15-0016	Sample Date: 10/4/2023	_	IDEM Sample		
Nater Flow Type Pool	Water Appearance	Brown		Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	∟ Ac	quatic Life?	Canopy Closed %	0-20%
	en because stream was mostly algae present.	dry and po	ool of water filled	d with debris. Oily shee	n present with
Lab ID #:		Result		Reporting Limit	<u>Method</u>
% Sat			%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)			SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature			°C		SM2550B(2)
T					
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			NTU Lookup		EPA 180.1 Observation
			_		

Lookup

Lookup

Weather Code Definitions								
S	C	WS	AT					
Sky Conditions Wind Direction		Wind Strength	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				

Wind Direction

Wind Strength

Observation

Observation