USGS Hydrologic Unit: 051201030401 SiteID: WMI-04-0008 Stream Name: Tributary of Campbell Creek County: Delaware Description: CR 200 N 40 13 12.65496 **Longitude**: -85 14 5.27081 Drainage: Site Number: 14T-101 3.524 SiteID: WMI-04-0008 Sample Date: 04/14/2014 IDEM Sample #: AB16167 ☐ Algae? **Water Appearance Water Depth** Water Flow Type Murky ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** 85.4 % ASTM D888-09(C) % Sat 9.05 mg/L DO ASTM D888-09(C) pH (Field) 7.8 SU EPA 150.2 Specific Conductance (Field) 628 umho/cm SM2510B Temperature 12.73 °C SM2550B(2) Turbidity (Hach) 31.3 NTU EPA 180.1 3 Lookup Air Temp Observation Sky Conditions 5 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3010697 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 240 mg/L 1 SM2320B Chloride 29 mg/L 6 EPA 300.0 0.1 SM4500F(-)-C Fluoride 0.2 mg/L Solids, Suspended Total, (TSS) 28 mg/L 10 SM2540D Solids Total (TS) 380 mg/l 10 SM2540B

Solids, Lotal (18)	380 mg/I	_ 10	SM2540B
Solids, Total Dissolved (TDS)	340 mg/l	_ 10	SM2540C
Sulfate	40 mg/l	_ 15	EPA 300.0
_ab ID # 3010698	<u>Result</u>	Reporting Limit	Method
Hardness (as CaCO3)	320 mg/l	_ 0.66	SM2340B
Calcium (Total)	75 mg/l	_ 0.1	EPA 200.7
Magnesium (Total)	31 mg/l	_ 0.1	EPA 200.7
.ab ID # 3010699	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1 mg/l	_ 0.1	SM4500NH3-D
ab ID# 3010700	<u>Result</u>	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	2.8 mg/l	_ 0.1	EPA 353.2
_ab ID # 3010701	<u>Result</u>	Reporting Limit	Method

Thursday, July 30, 2015 Page 1 of 433

Lab ID # 3010702		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		3.4	mg/L	0.5	SM5310C
Lab ID # AA14495		Result		Reporting Limit	<u>Method</u>
COD		8.3	mg/L	10	EPA 410.4
TKN		0.38	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16167		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		1413.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0008	Sample Date: 04/21/2014		IDEM Sample	#: AB16411	
Water Flow Type Glide	Water Appearance	Murky	w	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
• •	☐ Flow Estimated?			Canopy Closed %	0-20%
• •				Canopy Closed % Reporting Limit	0-20% Method
Sampler Comments: Dead la		ng location			
Sampler Comments: Dead la		ng location	%		<u>Method</u>
Campler Comments: Dead la Lab ID # % Sat DO pH (Field)		Result	% mg/L		Method ASTM D888-09(C)
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		Result 115.8 12.22 7.98 686	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C)
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		Result 115.8 12.22 7.98 686 12.83	% mg/L SU umho/cm °C		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		Result 115.8 12.22 7.98 686 12.83 13.6	% 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
Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 115.8 12.22 7.98 686 12.83 13.6 4	% 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 Observation
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 115.8 12.22 7.98 686 12.83 13.6 4	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		Result 115.8 12.22 7.98 686 12.83 13.6 4 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 115.8 12.22 7.98 686 12.83 13.6 4 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		Result 115.8 12.22 7.98 686 12.83 13.6 4 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	amb directly upstream of samplin	Result 115.8 12.22 7.98 686 12.83 13.6 4 2 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 2 of 433

SiteID: WMI-04-0008	Sample Date: 04/28/2014		IDEM Sample	#: AB16483	
/ater Flow Type Eddy	Water Appearance	Murky	V	Vater Depth	☐ Algae?
ater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
ampler Comments:					
_ab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		84.6	%		ASTM D888-09(C)
DO		9.3	mg/L		ASTM D888-09(C)
pH (Field)		7.67	SU		EPA 150.2
Specific Conductance (Field)		648	umho/cm		SM2510B
Temperature		11.01	°C		SM2550B(2)
Turbidity (Hach)		37.9	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16483		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
		090 4	MPN/100mL	1	SM9223B
E. coli SiteID: WMI-04-0008	Sample Date: 05/05/2014	980.4			
	Sample Date: 05/05/2014 Water Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-04-0008 Vater Flow Type Eddy	·	Clear	IDEM Sample	#: AB16802	✓ Algae?
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec):	Water Appearance	Clear ✓ Aq	IDEM Sample	#: AB16802 Vater Depth	✓ Algae?
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec):	Water Appearance Flow Estimated?	Clear ✓ Aq	IDEM Sample	#: AB16802 Vater Depth	✓ Algae?
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la	Water Appearance Flow Estimated?	Clear ✓ Ao ostream.	IDEM Sample V Juatic Life?	#: AB16802 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): ampler Comments: Dead la	Water Appearance Flow Estimated?	Clear Acconstream. Result 86.7	IDEM Sample V Juatic Life?	#: AB16802 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO pH (Field)	Water Appearance Flow Estimated?	Clear Acconstream. Result 86.7	IDEM Sample V quatic Life? % mg/L	#: AB16802 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0008 Water Flow Type Eddy Water Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L	#: AB16802 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO pH (Field)	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample Viguatic Life? % mg/L SU umho/cm	#: AB16802 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Jater Flow Type Eddy Jater Flow (cf/sec): ampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Clear Acceptation Result 86.7 9.57 7.56 692 10.84	IDEM Sample Viguatic Life? % mg/L SU umho/cm	#: AB16802 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la Lab ID #	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C	#: AB16802 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0008 Water Flow Type Eddy Water Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU	#: AB16802 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): ampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16802 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: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): ampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16802 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: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16802 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
SiteID: WMI-04-0008 Vater Flow Type Eddy Vater Flow (cf/sec): Sampler Comments: Dead la Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance Flow Estimated?	Clear Acceptate	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16802 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

Thursday, July 30, 2015 Page 3 of 433

SiteID: WMI-04-0008	Sample Date: 05/12/2014 IDEM Sample #: AB16935			
Vater Flow Type Glide	Water Appearance Brown		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	93.6	6 %		ASTM D888-09(C)
DO	8.7	1 mg/L		ASTM D888-09(C)
pH (Field)	7.53	3 SU		EPA 150.2
Specific Conductance (Field)	623	3 umho/cm		SM2510B
Temperature	18.79	o °C		SM2550B(2)
Turbidity (Hach)	110	NTU (EPA 180.1
Air Temp	4	4 Lookup		Observation
Sky Conditions		2 Lookup		Observation
Wind Direction		7 Lookup		Observation
Wind Strength		1 Lookup		Observation
Lab ID # 3026759	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230) mg/L	1	SM2320B
Chloride	34	4 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	98	3 mg/L	10	SM2540D
Solids, Total (TS)	440) mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330) mg/L	10	SM2540C
Sulfate	3	1 mg/L	25	EPA 300.0
Lab ID # 3026760	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	290) mg/L	0.66	SM2340B
Calcium (Total)	69	9 mg/L	0.1	EPA 200.7
Magnesium (Total)	30) mg/L	0.1	EPA 200.7
Lab ID # 3026761	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3026762	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.9	9 mg/L	0.1	EPA 353.2
Lab ID # 3026763	Result		Reporting Limit	Method
Phosphorus, Total	0.29	9 mg/L	0.05	SM4500P-E
Lab ID # 3026764	Result		Reporting Limit	Method
TOC	4.8	3 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 4 of 433

Lab ID # AA17802		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		1.9	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16935a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		19863	MPN/100mL	10	SM9223B
SiteID: WMI-04-0008	Sample Date: 06/09/2014		IDEM Sample	#: AB17368	
Water Flow Type Run	Water Appearance	Brown	_	Vater 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		82.9	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.36	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.17	°C		SM2550B(2)
Turbidity (Hach)		81.4	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042350		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		20	mg/L	5	EPA 300.0
Lab ID # 3042351		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		23	mg/L	0.1	EPA 200.7
Lab ID # 3042352		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042353		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		8.7	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 5 of 433

Lab ID # 3042354		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.27	mg/L	0.05	SM4500P-E
Lab ID # 3042355		Result		Reporting Limit	Method
TOC		5.8	mg/L	0.5	SM5310C
Lab ID # AA20576		Result		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17368		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		920.8	MPN/100mL	1	SM9223B
01. ID WALL 04 0000	0.7/07/0044		ID=14.0	u AD47540	
SiteID: WMI-04-0008 Water Flow Type Run	Sample Date: 07/07/2014 Water Appearance	Murky	IDEM Sample :	#: AB17542 /ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	
Sampler Comments:	Flow Estimated:	<u> </u>	juano Ene:	Carlopy Closed 76	0 20 /0
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		69	%		ASTM D888-09(C)
DO		6.56	mg/L		ASTM D888-09(C)
pH (Field)		7.51	SU		EPA 150.2
Specific Conductance (Field)		752	umho/cm		SM2510B
Temperature					
Turbidity (Hach)		17.44	°C		SM2550B(2)
			°C NTU		SM2550B(2) EPA 180.1
Air Temp		17			
Air Temp Flow		17	NTU Lookup		EPA 180.1
		17 5 53.4426	NTU Lookup		EPA 180.1 Observation
Flow		17 5 53.4426 4	NTU Lookup cf/sec		EPA 180.1 Observation FM D5389-95/D3858
Flow Sky Conditions		17 5 53.4426 4 27	NTU Lookup cf/sec Lookup		EPA 180.1 Observation FM D5389-95/D3858 Observation
Flow Sky Conditions Wind Direction		17 5 53.4426 4 27	NTU Lookup cf/sec Lookup Lookup	Reporting Limit	EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
Flow Sky Conditions Wind Direction Wind Strength		17 5 53.4426 4 27 2 Result	NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
Flow Sky Conditions Wind Direction Wind Strength		17 5 53.4426 4 27 2 Result	NTU Lookup cf/sec Lookup Lookup Lookup		EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method
Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060518 Alkalinity (as CaCO3)		17 5 53.4426 4 27 2 Result	NTU Lookup cf/sec Lookup Lookup Lookup	1	EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060518 Alkalinity (as CaCO3) Chloride		17 5 53.4426 4 27 2 Result 300 31 <10	NTU Lookup cf/sec Lookup Lookup mg/L mg/L	1 2	EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060518 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		17 5 53.4426 4 27 2 Result 300 31 < 10 460	NTU Lookup cf/sec Lookup Lookup mg/L mg/L mg/L	1 2 10	EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 6 of 433

Lab ID # 3060519		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		370	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3060520		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060521		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		0.8	mg/L	0.1	EPA 353.2
Lab ID # 3060522		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.15	mg/L	0.05	SM4500P-E
Lab ID # 3060523		Result		Reporting Limit	<u>Method</u>
TOC		2.6	mg/L	0.5	SM5310C
Lab ID # AA22920		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.36	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17542		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1732.9	MPN/100mL	1	SM9223B
SiteID: WMI-04-0008	Sample Date: 07/16/2014		IDEM Sample	•#: AB18398	
Nater Flow Type Run	Water Appearance	Murky	-	Water Depth	✓ Algae?
				·	
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%

b ID #	Result		Reporting Limit	<u>Method</u>
% Sat	64.2	%		ASTM D888-09(C)
DO	6.02	mg/L		ASTM D888-09(C)
pH (Field)	7.51	SU		EPA 150.2
Specific Conductance (Field)	776	umho/cm		SM2510B
Temperature	17.07	°C		SM2550B(2)
Turbidity (Hach)	22.9	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 7 of 433

SiteID: WMI-04-0008 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18732

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 #	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	42.4	%		ASTM D888-09(C)
DO	4.23	mg/L		ASTM D888-09(C)
pH (Field)	7.12	SU		EPA 150.2
Specific Conductance (Field)	863	umho/cm		SM2510B
Temperature	14.18	°C		SM2550B(2)
Turbidity (Hach)	5.85	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 # 3087338	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	330	mg/L	1	SM2320B
Chloride	23	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	540	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480	mg/L	10	SM2540C
Sulfate	81	mg/L	25	EPA 300.0
Lab ID # 3087339	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	410	mg/L	0.66	SM2340B
Calcium (Total)	94	mg/L	0.1	EPA 200.7
Magnesium (Total)	41	mg/L	0.1	EPA 200.7
Lab ID # 3087340	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087341	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087342	Result		Reporting Limit	Method
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E
Lab ID # 3087343	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 8 of 433

Lab ID # AA25782		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18732		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		435.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0008	Sample Date: 09/15/2014		IDEM Sample	#: AB19045	
Water Flow Type Glide	Water Appearance	Clear	V	Vater 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		29.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.21	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		12.48			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 # 3105366		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		310	mg/L	1	SM2320B
Chloride		28	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)		460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		64	mg/L	25	EPA 300.0
Lab ID # 3105367		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		380	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		38	mg/L	0.1	EPA 200.7
Lab ID # 3105368		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105369		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.2	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 9 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105370

Lab ID # 3103370		Kesuit		Reporting Limit	<u>ivieti iou</u>
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3105371		Result		Reporting Limit	Method
TOC		3.1	mg/L	0.5	SM5310C
Lab ID # AA28029		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.35	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19045		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		517.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0008	Sample Date: 10/27/2014		IDEM Sample	#: AB19228	
Nater Flow Type Glide	Water Appearance	Clear	•	Vater 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		67.2	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.36			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		12.2			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions Wind Direction			Lookup		Observation
Wind Strength			Lookup Lookup		Observation Observation
Lab ID # 3130292		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate			mg/L	25	EPA 300.0
Lab ID # 3130293		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		390	mg/L	0.66	SM2340B
Calcium (Total)		90	mg/L	0.1	EPA 200.7
Magnesium (Total)		38	mg/L	0.1	EPA 200.7
Thursday, July 20, 2045					D 40 (400

Thursday, July 30, 2015 Page 10 of 433

Lab ID # 3130294	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130295	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3130296	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.07	mg/L	0.05	SM4500P-E
Lab ID # 3130297	Result		Reporting Limit	<u>Method</u>
ТОС	2.9	mg/L	0.5	SM5310C
Lab ID # AA31604	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19228	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	1732.9	MPN/100mL	1	SM9223B
E. coli	98.7	MPN/100mL	1	SM9223B

		We	eather Code Defi	initions	
	C nditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	0 2 00

Thursday, July 30, 2015 Page 11 of 433

 SiteID:
 WMI-02-0010
 USGS Hydrologic Unit:
 051201030204

 Stream Name:
 Elkhorn Creek
 County:
 Randolph

Drainage: 7.098 Site Number: 14T-102

SiteID: WMI-02-0010 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16178

Water Flow Type Glide 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	85.6	%		ASTM D888-09(C)
DO	9.95	mg/L		ASTM D888-09(C)
pH (Field)	7.79	-		EPA 150.2
Specific Conductance (Field)	620	umho/cm		SM2510B
Temperature	13.32	°C		SM2550B(2)
Turbidity (Hach)	16.9	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	5	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010705	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	26	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320	mg/L	10	SM2540C
Sulfate	36	mg/L	15	EPA 300.0
Lab ID # 3010706	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	74	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010707	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010708	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.1	EPA 353.2
Lab ID # 3010709	Result		Reporting Limit	Method
Phosphorus, Total	0.16	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 12 of 433

Lab ID # 3010710		Result		Reporting Limit	Method
TOC		4.5	mg/L	0.5	SM5310C
Lab ID # AA14496		Result		Reporting Limit	Method
COD		6.7	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16178		Result		Reporting Limit	Method
Coliforms (Total)		920.8	MPN/100mL	1	SM9223B
E. coli		488.4	MPN/100mL	1	SM9223B
Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Appearance v Estimated?	Clear ✓ Aq	uatic Life?	Vater Depth Canopy Closed %	✓ Algae? 0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
		128.4		Reporting Limit	
Lab ID # % Sat DO		128.4 13.37	mg/L	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
Lab ID # % Sat DO pH (Field)		128.4 13.37 7.95	mg/L SU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		128.4 13.37 7.95 691	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
% Sat DO pH (Field) Specific Conductance (Field) Temperature		128.4 13.37 7.95 691 13.47	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		128.4 13.37 7.95 691 13.47 6.69	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		128.4 13.37 7.95 691 13.47 6.69 4	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		128.4 13.37 7.95 691 13.47 6.69 4	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		128.4 13.37 7.95 691 13.47 6.69 4 2	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

<u>Result</u>

> 2419.6 MPN/100mL

201.4 MPN/100mL

Reporting Limit

2419.6

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 13 of 433

Lab ID # AB16422

Coliforms (Total)

E. coli

	Sample Date: 04/28/2014		IDEM Sample		
Vater Flow Type Glide	Water Appearance	Brown	V	Vater 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		82	%		ASTM D888-09(C)
DO		8.95	mg/L		ASTM D888-09(C)
pH (Field)		7.68	SU		EPA 150.2
Specific Conductance (Field)		612	umho/cm		SM2510B
Temperature		11.32	°C		SM2550B(2)
Turbidity (Hach)		102	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16494		Result		Reporting Limit	<u>Method</u>
E. coli		1732.9	MPN/100mL	1	SM9223B
Lab ID # AB16494a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2/106	MPN/100mL	24196	SM9223B
,				21100	
	0 1 0 05/05/0044	7 2 1 1 0 0			
SiteID: WMI-02-0010	Sample Date: 05/05/2014 Water Appearance	Clear	IDEM Sample	#: AB16813	
SiteID: WMI-02-0010 Water Flow Type Glide	Water Appearance	Clear	IDEM Sample	#: AB16813 Vater Depth	✓ Algae?
SiteID: WMI-02-0010	•	Clear	IDEM Sample	#: AB16813	✓ Algae?
SiteID: WMI-02-0010 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16813 Vater Depth	✓ Algae?
SiteID: WMI-02-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance Flow Estimated?	Clear	IDEM Sample V Juatic Life?	#: AB16813 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0010 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance Flow Estimated?	Clear Acc Result	IDEM Sample V quatic Life?	#: AB16813 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0010 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance Flow Estimated?	Clear Ac Result 114.6 12.46	IDEM Sample V quatic Life? % mg/L	#: AB16813 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0010 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance Flow Estimated?	Clear Acc Result 114.6 12.46 7.84	IDEM Sample V quatic Life? % mg/L SU	#: AB16813 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0010 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance Flow Estimated?	Clear Result 114.6 12.46 7.84 695	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16813 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71	IDEM Sample V quatic Life? % mg/L SU umho/cm °C	#: AB16813 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0010 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU	#: AB16813 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: WMI-02-0010 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16813 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: WMI-02-0010 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 Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3 3	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16813 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: WMI-02-0010 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 Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3 3 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16813 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: WMI-02-0010 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 Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3 3 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16813 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: WMI-02-0010 Nater Flow Type Glide Nater 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 Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3 3 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16813 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: WMI-02-0010 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 Flow Estimated?	Clear Result 114.6 12.46 7.84 695 11.71 6.48 3 27 3 Result	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16813 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

Thursday, July 30, 2015 Page 14 of 433

SiteID: WMI-02-0010	Sample Date: 05/12/2014	IDE	EM Sample # : AB16946	
Nater Flow Type Glide	Water Appearance	Clear	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Aquat	ic Life? Canopy Closed %	0-20%
Sampler Comments:		/ iquui	ounopy closed //	0 2070
Lab ID #		Result	Reporting Limit	<u>Method</u>
% Sat		102.8 %		ASTM D888-09(C)
DO		9.41 mg	/L	ASTM D888-09(C)
pH (Field)		7.7 SU		EPA 150.2
Specific Conductance (Field)		731 um	ho/cm	SM2510B
Temperature		19.57 °C		SM2550B(2)
Turbidity (Hach)		10.3 NT	U	EPA 180.1
Air Temp		4 Loc	okup	Observation
Sky Conditions		2 Loc	okup	Observation
Wind Direction		27 Loc	okup	Observation
Wind Strength		1 Loc	okup	Observation
Lab ID # 3026767		Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		300 mg	/L 1	SM2320B
Chloride		33 mg	/L 10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10 mg		SM2540D
Solids, Total (TS)		420 mg		SM2540B
Solids, Total Dissolved (TDS)		410 mg		SM2540C
Sulfate		50 mg		EPA 300.0
Lab ID # 3026768		Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		350 mg	n/L 0.66	SM2340B
Calcium (Total)		79 mg		EPA 200.7
Magnesium (Total)		37 mg		EPA 200.7
Lab ID # 3026769		Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1 mg	/L 0.1	SM4500NH3-D
Lab ID # 3026770		Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.4 mg	/L 0.1	EPA 353.2
Lab ID # 3026771		Result	Reporting Limit	<u>Method</u>
Phosphorus, Total		0.12 mg	/L 0.05	SM4500P-E
Lab ID # 3026772		Result	Reporting Limit	<u>Method</u>
TOC		4.1 mg	ı/L 0.5	SM5310C

Thursday, July 30, 2015 Page 15 of 433

Lab ID # AA17803		Result		Reporting Limit	<u>Method</u>
COD		11	mg/L	10	EPA 410.4
TKN		0.43	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16946		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0010	Sample Date: 06/09/2014		IDEM Sample	#: AB17369	
Water Flow Type Run	Water Appearance	Murky	-	Water 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	-	85.6	%		ASTM D888-09(C)
DO		8.33	mg/L		ASTM D888-09(C)
pH (Field)		7.45	SU		EPA 150.2
Specific Conductance (Field)		467	umho/cm		SM2510B
Temperature		16.6	°C		SM2550B(2)
Turbidity (Hach)		68.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042358		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		23	mg/L	10	EPA 300.0
Lab ID # 3042361		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		21	mg/L	0.1	EPA 200.7
Lab ID # 3042362		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042365		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		6.3	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 16 of 433

Lab ID # 3042368			Result		Reporting Limit	Method
Phosphorus, Total			0.54	mg/L	0.1	SM4500P-E
Lab ID # 3042371			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			8.4	mg/L	0.5	SM5310C
Lab ID # AA20577			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			21	mg/L	10	EPA 410.4
TKN			1.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17369			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			770.1	MPN/100mL	1	SM9223B
SiteID: WMI-02-0010	Sample Date:	07/07/2014		IDEM Sampl	e #: AB17543	
Water Flow Type Run	Water A	Appearance	Clear		Water 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			136	%		ASTM D888-09(C)
DO			12.3	mg/L		ASTM D888-09(C)
pH (Field)			8.11			EPA 150.2
Specific Conductance (Field)			_	umho/cm		SM2510B
Temperature			20.06			SM2550B(2)
Turbidity (Hach)			9.65	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 # 3060534			Result		Reporting Limit	Method
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			59	mg/L	5	EPA 300.0
Lab ID # 3060535			<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			390	mg/L	0.66	SM2340B
Calcium (Total)			90	mg/L	0.1	EPA 200.7
Magnesium (Total)			40	mg/L	0.1	EPA 200.7
Thomas days but 00, 0045						

Thursday, July 30, 2015 Page 17 of 433

Lab ID # 3060536			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060537			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			0.7	mg/L	0.1	EPA 353.2
Lab ID # 3060538			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.12	mg/L	0.05	SM4500P-E
Lab ID # 3060539			Result		Reporting Limit	<u>Method</u>
TOC			3	mg/L	0.5	SM5310C
Lab ID # AA22922			Result		Reporting Limit	<u>Method</u>
COD			< 10	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17543			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			866.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0010	Sample Date:	07/16/2014		IDEM Sample #:	AB18397	
Water Flow Type Run	Water	Appearance	Clear	Wa	ter Depth	✓ Algae?
Water Flow (cf/sec)	Flow	Fstimated?	✓ Δα	matic Life?	Canony Closed %	0-20%

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

Sampler Comments: Q2 Turb = 18.5

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	138.8	%		ASTM D888-09(C)
DO	12.58	mg/L		ASTM D888-09(C)
pH (Field)	8.08	SU		EPA 150.2
Specific Conductance (Field)	785	umho/cm		SM2510B
Temperature	18.64	°C		SM2550B(2)
Turbidity (Hach)	5.36	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Thursday, July 30, 2015 Page 18 of 433

SiteID: WMI-02-0010 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18733

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	Method
% Sat	136.9	%		ASTM D888-09(C)
DO	12.57	mg/L		ASTM D888-09(C
pH (Field)	7.95	SU		EPA 150.2
Specific Conductance (Field)	852	umho/cm		SM2510B
Temperature	19.63	°C		SM2550B(2)
Turbidity (Hach)	3.89	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087354	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	360	mg/L	1	SM2320B
Chloride	21	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	520	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480	mg/L	10	SM2540C
Sulfate	72	mg/L	25	EPA 300.0
Lab ID # 3087355	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	390	mg/L	0.66	SM2340B
Calcium (Total)	86	mg/L	0.1	EPA 200.7
Magnesium (Total)	44	mg/L	0.1	EPA 200.7
Lab ID # 3087356	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087357	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087358	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E
Lab ID # 3087359	Result		Reporting Limit	Method
TOC	2.8	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 19 of 433

Lab ID # AA25784		Result		Reporting Limit	<u>Method</u>
COD		11	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18733		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		178.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0010	Sample Date: 09/15/2014		IDEM Sample	#: AB19046	
Vater Flow Type Glide	Water Appearance	Clear	\	Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		116.7	%		ASTM D888-09(C)
DO		11.88			ASTM D888-09(C)
pH (Field)		7.96	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.41	°C		SM2550B(2)
Turbidity (Hach)		9.26	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105374		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		340	mg/L	1	SM2320B
Chloride		41	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		10	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		65	mg/L	25	EPA 300.0
Lab ID # 3105375		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		410	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		40	mg/L	0.1	EPA 200.7
Lab ID # 3105376		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105377		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.3	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 20 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105378

245 12					
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3105379		Result		Reporting Limit	<u>Method</u>
TOC		4	mg/L	0.5	SM5310C
Lab ID # AA28030		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.44	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19046		Result		Reporting Limit	Method
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		648.8	MPN/100mL	1	SM9223B
SiteID: WMI-02-0010	Sample Date: 10/27/2014		IDEM Sample	#: AB19229	
Vater Flow Type Run	Water Appearance	Clear	_	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		juatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		99.7	%		ASTM D888-09(C)
		10.9	mg/L		ASTM D888-09(C)
DO					
pH (Field)		7.86			EPA 150.2
pH (Field) Specific Conductance (Field)		7.86 919	umho/cm		SM2510B
pH (Field) Specific Conductance (Field) Temperature		7.86 919 11.21	umho/cm °C		SM2510B SM2550B(2)
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		7.86 919 11.21 4.51	umho/cm °C NTU		SM2510B SM2550B(2) EPA 180.1
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		7.86 919 11.21 4.51	umho/cm °C NTU Lookup		SM2510B SM2550B(2) EPA 180.1 Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		7.86 919 11.21 4.51 4	umho/cm °C NTU Lookup Lookup		SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		7.86 919 11.21 4.51 4 2	umho/cm °C NTU Lookup		SM2510B SM2550B(2) EPA 180.1 Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		7.86 919 11.21 4.51 4 2	umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		7.86 919 11.21 4.51 4 2 18 3	umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300		7.86 919 11.21 4.51 4 2 18 3 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup		SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride		7.86 919 11.21 4.51 4 2 18 3 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 < 10 550	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 < 10 550	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 < 10 550 530	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 < 10 550 530	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10 10 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 < 10 550 530 58 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10 10 10 25	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130300 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130301		7.86 919 11.21 4.51 4 2 18 3 Result 370 44 <10 550 530 58 Result 430	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10 10 10 25 Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 21 of 433

Lab ID # 3130302	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1 m	ng/L	0.1	SM4500NH3-D
Lab ID # 3130303	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1 m	ng/L	0.1	EPA 353.2
Lab ID # 3130304	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.16 m	ng/L	0.05	SM4500P-E
Lab ID # 3130305	Result		Reporting Limit	<u>Method</u>
TOC	3.8 m	ng/L	0.5	SM5310C
Lab ID # AA31605	Result		Reporting Limit	<u>Method</u>
COD	< 10 m	ng/L	10	EPA 410.4
TKN	< 0.3 m	ng/L	0.3	SM4500N(Org)-B
Lab ID # AB19229	Result		Reporting Limit	Method
Coliforms (Total)	2419.6 M	/IPN/100mL	1	SM9223B
E. coli	248.1 M	/IPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 22 of 433

 SiteID:
 WMI-02-0011
 USGS Hydrologic Unit:
 051201030204

 Stream Name:
 Tributary of Bush Creek
 County:
 Randolph

Description: CR 500 N **Latitude:** 40 14 7.73395 **Longitude:** -85 7 43.52362

Drainage: 4.196 Site Number: 14T-103

SiteID: WMI-02-0011 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16189

Water Flow Type Glide 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	Method
% Sat	107.9	%		ASTM D888-09(C)
DO	11.33	mg/L		ASTM D888-09(C)
pH (Field)	8.02	SU		EPA 150.2
Specific Conductance (Field)	646	umho/cm		SM2510B
Temperature	13.03	°C		SM2550B(2)
Turbidity (Hach)	17	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 # 3010713	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	29	mg/L	6	EPA 300.0
Fluoride	0.3	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	11	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	32	mg/L	15	EPA 300.0
Lab ID # 3010714	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	73	mg/L	0.1	EPA 200.7
Magnesium (Total)	34	mg/L	0.1	EPA 200.7
Lab ID # 3010715	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010716	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	4.5	mg/L	0.1	EPA 353.2
Lab ID # 3010717	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 23 of 433

Lab ID # 3010718			Result		Reporting Limit	<u>Method</u>
TOC			3.2	mg/L	0.5	SM5310C
Lab ID # AA14497			Result		Reporting Limit	<u>Method</u>
COD			< 10	mg/L	10	EPA 410.4
TKN			0.49	mg/L	0.3	SM4500N(Org)-B
Lab ID# AB16189			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			1986.3	MPN/100mL	1	SM9223B
E. coli			307.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0011	Sample Date:	04/21/2014		IDEM Sample	#: AB16433	
Water Flow Type Glide	Water	Appearance	Clear	W	later Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flov	v Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			141.4	%		ASTM D888-09(C)
DO			14.85	mg/L		ASTM D888-09(C)
pH (Field)			8.17	SU		EPA 150.2
Specific Conductance (Field)			665	umho/cm		SM2510B
Temperature			13.01	°C		SM2550B(2)
Air Temp			4	Lookup		Observation
Clay Conditions			•	· ·		Observation
Sky Conditions				Lookup		Observation
Wind Direction			2			
•			2 27	Lookup		Observation
Wind Direction			2 27	Lookup Lookup	Reporting Limit	Observation Observation
Wind Direction Wind Strength			2 27 2 Result	Lookup Lookup	Reporting Limit 2419.6	Observation Observation Observation

Thursday, July 30, 2015 Page 24 of 433

SiteID: WMI-02-0011	Sample Date:	04/28/2014		IDEM Sample	#: AB16505	
Water Flow Type Run	Water	Appearance	Brown	V	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow	v Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			86	%		ASTM D888-09(C)
DO			9.71	mg/L		ASTM D888-09(C)
pH (Field)			7.65	SU		EPA 150.2
Specific Conductance (Field)			456	umho/cm		SM2510B
Temperature			9.93	°C		SM2550B(2)
Turbidity (Hach)			440	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength			3	Lookup		Observation
Lab ID # AB16505			Result		Reporting Limit	<u>Method</u>
E. coli			2419.6	MPN/100mL	1	SM9223B
Lab ID # AB16505a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0011 Water Flow Type Glide	Sample Date:	05/05/2014 Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-02-0011 Water Flow Type Glide	Water		Clear	-	#: AB16824 Vater Depth	_
SiteID: WMI-02-0011	Water	Appearance	Clear	V	#: AB16824	_
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec):	Water	Appearance	Clear	V	#: AB16824 Vater Depth	_
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water □ Flow	Appearance	Clear ✓ Ac	Viquatic Life?	#: AB16824 Vater Depth Canopy Closed %	0-20%
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Flow	Appearance	Clear ✓ Acc Result	Viquatic Life?	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Flow	Appearance	Clear ✓ Acc Result	quatic Life? % mg/L	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Flow	Appearance	Clear Result 112 12.4 7.85	quatic Life? % mg/L	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Flow	Appearance	Clear Result 112 12.4 7.85	wquatic Life? % mg/L SU umho/cm	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81	% mg/L SU umho/cm °C	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81 5.55	% mg/L SU umho/cm °C NTU	#: AB16824 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81 5.55 3	% mg/L SU umho/cm °C NTU Lookup	#: AB16824 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
SiteID: WMI-02-0011 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 Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81 5.55 3 3	watic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16824 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
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81 5.55 3 3 27	% mg/L SU umho/cm °C NTU Lookup	#: AB16824 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
SiteID: WMI-02-0011 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 Flow	Appearance	Clear Result 112 12.4 7.85 678 10.81 5.55 3 3 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16824 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
SiteID: WMI-02-0011 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance v Estimated?	Clear Result 112 12.4 7.85 678 10.81 5.55 3 27 3 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16824 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

Thursday, July 30, 2015 Page 25 of 433

SiteID: WMI-02-0011	Sample Date: 05/12/2014	IDI	EM Sample # : AB16957	
Nater Flow Type Glide	Water Appearance	Clear	Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	✓ Aquat	tic Life? Canopy Closed %	
Sampler Comments:	_ How Estimated:	· Aquai	dic Elle: Odliopy Glosed 78	0 20 70
bampier Comments.				
Lab ID #		Result	Reporting Limit	<u>Method</u>
% Sat		105.9 %		ASTM D888-09(C)
DO		9.64 mg	g/L	ASTM D888-09(C)
pH (Field)		7.81 SL	J	EPA 150.2
Specific Conductance (Field)		699 um	nho/cm	SM2510B
Temperature		19.87 °C	;	SM2550B(2)
Turbidity (Hach)		9.99 NT	ΓU	EPA 180.1
Air Temp		4 Lo	okup	Observation
Sky Conditions		2 Lo	okup	Observation
Wind Direction		27 Lo	okup	Observation
Wind Strength		1 Lo	okup	Observation
Lab ID # 3026775		Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		280 mg	g/L 1	SM2320B
Chloride		29 mg	g/L 10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10 mg	g/L 10	SM2540D
Solids, Total (TS)		400 mg	g/L 10	SM2540B
Solids, Total Dissolved (TDS)		380 mg	g/L 10	SM2540C
Sulfate		47 mg	g/L 25	EPA 300.0
Lab ID # 3026776		Result	Reporting Limit	Method
Hardness (as CaCO3)		320 mg	g/L 0.66	SM2340B
Calcium (Total)		68 mg	g/L 0.1	EPA 200.7
Magnesium (Total)		37 mg	g/L 0.1	EPA 200.7
Lab ID # 3026777		Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1 mg	g/L 0.1	SM4500NH3-D
Lab ID # 3026778		Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.8 mg	g/L 0.1	EPA 353.2
Lab ID # 3026779		Result	Reporting Limit	<u>Method</u>
Phosphorus, Total		0.06 mg	g/L 0.05	SM4500P-E
Lab ID # 3026780		Result	Reporting Limit	<u>Method</u>
TOC		3.9 mg	g/L 0.5	SM5310C

Thursday, July 30, 2015 Page 26 of 433

Lab ID # AA17804		Result		Reporting Limit	Method
COD		9	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16957		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		613.1	MPN/100mL	1	SM9223B
SiteID: WMI-02-0011	Sample Date: 06/09/2014		IDEM Sample	#: AB17370	
Vater Flow Type Riffle	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		88.3	%		ASTM D888-09(C)
DO		8.6	mg/L		ASTM D888-09(C)
pH (Field)		7.55	SU		EPA 150.2
Specific Conductance (Field)		624	umho/cm		SM2510B
Temperature		16.23	°C		SM2550B(2)
Turbidity (Hach)		57.3	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042380		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		190	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		23	mg/L	5	EPA 300.0
Lab ID # 3042381		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		29	mg/L	0.1	EPA 200.7
Lab ID # 3042382		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.6	mg/L	0.1	SM4500NH3-D
Lab ID # 3042383		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 27 of 433

Lab ID # 3042384			Result		Reporting Limit	Method
Phosphorus, Total			0.22	mg/L	0.05	SM4500P-E
Lab ID # 3042385			<u>Result</u>		Reporting Limit	Method
TOC			5.4	mg/L	0.5	SM5310C
Lab ID # AA20578			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			16	mg/L	10	EPA 410.4
TKN			1.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17370			Result		Reporting Limit	Method
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			1732.9	MPN/100mL	1	SM9223B
SiteID: WMI-02-0011	Sample Date:	07/07/2014		IDEM Sampl	le #: AB17544	
Water Flow Type Run	Water	Appearance	Murky		Water Depth	✓ Algae?
Nater Flow (cf/sec):	Flov	v Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		- Loumatou :		,uuo	canopy crocca /s	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			74.3	%		ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			7.9	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			19.65			SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp				Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # 3060542			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			320	mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			60	mg/L	5	EPA 300.0
Lab ID # 3060543			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			390	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			43	mg/L	0.1	EPA 200.7

Thursday, July 30, 2015 Page 28 of 433

Lab ID # 3060544		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060545		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2
Lab ID # 3060546		Result		Reporting Limit	Method
Phosphorus, Total		0.12	mg/L	0.05	SM4500P-E
Lab ID # 3060547		Result		Reporting Limit	<u>Method</u>
TOC		3.4	mg/L	0.5	SM5310C
Lab ID # AA22923		Result		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17544		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-02-0011	Sample Date: 07/16/2014	ı	IDEM Sample #	: AB18396	
Water Flow Type Pool	Water Appearance	Murky	_	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated	? 🗸 Ad	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Q2 turb	=79.3		•	.,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		73.8	%		ASTM D888-09(C)
DO		6.72	ma/l		ASTM D888-09(C)

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	73.8	%		ASTM D888-09(C)
DO	6.72	mg/L		ASTM D888-09(C)
pH (Field)	7.81	SU		EPA 150.2
Specific Conductance (Field)	635	umho/cm		SM2510B
Temperature	18.42	°C		SM2550B(2)
Turbidity (Hach)	12.2	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Thursday, July 30, 2015 Page 29 of 433

SiteID: WMI-02-0011 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18734

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 #	<u>Result</u>		Reporting Limit	Method
% Sat	45	%		ASTM D888-09(C)
DO	3.88	mg/L		ASTM D888-09(C)
pH (Field)	7.63	SU		EPA 150.2
Specific Conductance (Field)	782	umho/cm		SM2510B
Temperature	18.51	°C		SM2550B(2)
Turbidity (Hach)	6.35	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087362	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	26	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420	mg/L	10	SM2540C
Sulfate	66	mg/L	25	EPA 300.0
Lab ID # 3087363	Result		Reporting Limit	Method
Hardness (as CaCO3)	360	mg/L	0.66	SM2340B
Calcium (Total)	71	mg/L	0.1	EPA 200.7
Magnesium (Total)	44	mg/L	0.1	EPA 200.7
Lab ID # 3087364	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.4	mg/L	0.1	SM4500NH3-D
Lab ID # 3087365	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	EPA 353.2
Lab ID # 3087366	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.3	mg/L	0.05	SM4500P-E
Lab ID # 3087367	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 30 of 433

Lab ID # AA25785		Result		Reporting Limit	Method
COD		17	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18734		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-02-0011	Sample Date: 09/15/2014		IDEM Sample	#: AB19047	
Vater Flow Type Glide	Water Appearance	Clear	V	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		78.4	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.85	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.71			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 # 3105382		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		250	mg/L	1	SM2320B
Chloride		27	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		39	mg/L	25	EPA 300.0
Lab ID # 3105383		Result		Reporting Limit	Method
Hardness (as CaCO3)		300	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3105384		<u>Result</u>		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105385		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 31 of 433

Result

Reporting Limit

<u>Method</u>

Lab ID # 3105386

					
Phosphorus, Total		0.08	mg/L	0.05	SM4500P-E
Lab ID # 3105387		Result		Reporting Limit	<u>Method</u>
TOC		5.2	mg/L	0.5	SM5310C
Lab ID # AA28031		Result		Reporting Limit	Method
COD		12	mg/L	10	EPA 410.4
TKN		0.52	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19047		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		410.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0011	Sample Date: 10/27/2014		IDEM Sampl	e #: AB19230	
Water Flow Type Glide	Water Appearance	Sheen		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Sheen	on Surface				
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		84	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.81			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		10.51			SM2550B(2)
Turbidity (Hach)		_	NTU		EPA 180.1 Observation
Air Temp			Lookup		Observation
Sky Conditions Wind Direction			Lookup Lookup		Observation
Wind Strength			Lookup		Observation
-			r		
Lab ID # 3130308		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		340	mg/L	1	SM2320B
Chloride		51	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		510	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		480	mg/L	10	SM2540C
Sulfate		51	mg/L	25	EPA 300.0
Lab ID # 3130309		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		390	mg/L	0.66	SM2340B
Calcium (Total)		83	mg/L	0.1	EPA 200.7
Magnesium (Total)		43	mg/L	0.1	EPA 200.7
Thursday, July 30, 2015					Page 32 of 433

Thursday, July 30, 2015 Page 32 of 433

Lab ID # 3130310	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130311	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.1	mg/L	0.1	EPA 353.2
Lab ID # 3130312	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3130313	Result		Reporting Limit	<u>Method</u>
TOC	4.1	mg/L	0.5	SM5310C
Lab ID # AA31606	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19230	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	547.5	MPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 33 of 433

SiteID: WMI-02-0012 USGS Hydrologic Unit: 051201030202 Stream Name: County: Randolph Bear Creek Description: CR 800 N 40 16 45.83845 **Longitude**: 32.05725 Latitude: -85 4 Drainage: 15.382 Site Number: 14T-104 SiteID: WMI-02-0012 Sample Date: 04/14/2014 IDEM Sample #: AB16196 ☐ Algae? **Water Depth** Water Flow Type **Water Appearance** Murky ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 93.8 % DO 9.74 mg/L ASTM D888-09(C) pH (Field) 8.04 SU EPA 150.2 Specific Conductance (Field) 579 umho/cm SM2510B 13.58 °C SM2550B(2) Temperature 60.6 NTU Turbidity (Hach) 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 # 3010721 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 220 mg/L 1 SM2320B Chloride 18 mg/L 6 EPA 300.0 SM4500F(-)-C Fluoride 0.3 mg/L 0.1 Solids, Suspended Total, (TSS) 34 mg/L 10 SM2540D Solids, Total (TS) 380 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 320 mg/L SM2540C 10 Sulfate 30 mg/L EPA 300.0 15 Lab ID # 3010722 Result **Reporting Limit Method** Hardness (as CaCO3) 300 mg/L 0.66 SM2340B Calcium (Total) 72 mg/L 0.1 EPA 200.7 Magnesium (Total) 30 mg/L 0.1 EPA 200.7 Lab ID # 3010723 **Reporting Limit** Result <u>Method</u>

Phosphorus, Total 0.19 mg/L 0.05 SM4500P-E

Result

Result

< 0.1 mg/L

6.1 mg/L

0.1

Reporting Limit

0.1

Reporting Limit

SM4500NH3-D

Method

EPA 353.2

Method

Nitrogen, Ammonia

Nitrogen, Nitrate+Nitrite

Lab ID # 3010724

Lab ID # 3010725

Thursday, July 30, 2015 Page 34 of 433

Lab ID # 3010726		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		4.4	mg/L	0.5	SM5310C
Lab ID # AA14498		Result		Reporting Limit	<u>Method</u>
COD		5.6	mg/L	10	EPA 410.4
TKN		0.78	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16196		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		1732.9	MPN/100mL	1	SM9223B
Water Flow Type Riffle	Water Appearance	Clear		ater Depth	✓ Algae?
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments:	Water Appearance Flow Estimated?		W quatic Life?	ater Depth Canopy Closed %	-
Water Flow (cf/sec): Sampler Comments:				·	-
Nater Flow (cf/sec): Sampler Comments:		✓ Aq	quatic Life?	Canopy Closed %	0-20%
Vater Flow (cf/sec): Sampler Comments: Lab ID #		✓ Ac	quatic Life?	Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat		Result	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		Result 150.8 15.62 8.52 630	% mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C ASTM D888-09(C EPA 150.2 SM2510B
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		Result 150.8 15.62 8.52 630 13.78	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		Result 150.8 15.62 8.52 630 13.78 6.56	% 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
Vater Flow (cf/sec): Sampler Comments: Lab ID #		Result 150.8 15.62 8.52 630 13.78 6.56 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 150.8 15.62 8.52 630 13.78 6.56 4	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 150.8 15.62 8.52 630 13.78 6.56 4 2 27	% 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

Result

1986.3 MPN/100mL

307.6 MPN/100mL

Reporting Limit

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 35 of 433

Lab ID # AB16440

Coliforms (Total)

E. coli

SiteID: WMI-02-0012	Sample Date: 04/28/2014		IDEM Sample	#: AB16512	
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		88.2	%		ASTM D888-09(C)
DO		9.87	mg/L		ASTM D888-09(C)
pH (Field)		7.71	SU		EPA 150.2
Specific Conductance (Field)		460	umho/cm		SM2510B
Temperature		10.27	°C		SM2550B(2)
Turbidity (Hach)		528	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16512		Result		Reporting Limit	<u>Method</u>
E. coli		1986.3	MPN/100mL	1	SM9223B
Lab ID # AB16512a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0012	Sample Date: 05/05/2014		IDEM Sample	#: AB16831	
	Sample Date: 05/05/2014 Water Appearance	Clear	_	#: AB16831 /ater Depth	✓ Algae?
Nater Flow Type Run	-		_		_
Water Flow Type Run Water Flow (cf/sec):	Water Appearance		W	ater Depth	_
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water Appearance		W	ater Depth	_
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Aq	Wuatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	✓ Aq	watic Life?	ater Depth Canopy Closed %	0-20% <u>Method</u>
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	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 pH (Field)	Water Appearance	Result 124.5 13.65 8.18	watic Life? % 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 124.5 13.65 8.18	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	Result 124.5 13.65 8.18 648 11.3	% mg/L SU umho/cm °C	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) Temperature Turbidity (Hach)	Water Appearance	Result 124.5 13.65 8.18 648 11.3 5.88	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 124.5 13.65 8.18 648 11.3 5.88	% 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
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	Result 124.5 13.65 8.18 648 11.3 5.88 3 3	% mg/L SU umho/cm °C NTU Lookup 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 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	Result 124.5 13.65 8.18 648 11.3 5.88 3 27	% 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
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 124.5 13.65 8.18 648 11.3 5.88 3 27	% 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
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 Flow Estimated?	Result 124.5 13.65 8.18 648 11.3 5.88 3 27 3 Result	% 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

Thursday, July 30, 2015 Page 36 of 433

SiteID: WMI-02-0012	Sample Date: 05/12/2014		IDEM Samp	le #: AB16964	
Water Flow Type Glide	Water Appearance	Clear		Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		122.3	%		ASTM D888-09(C)
DO		10.98	mg/L		ASTM D888-09(C)
pH (Field)		8.09	SU		EPA 150.2
Specific Conductance (Field)		666	umho/cm		SM2510B
Temperature		20.53			SM2550B(2)
Turbidity (Hach)		11.1			EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3026783		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		270	mg/L	1	SM2320B
Chloride		25	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		350	mg/L	10	SM2540C
Sulfate		45	mg/L	25	EPA 300.0
Lab ID # 3026784		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)		71	mg/L	0.1	EPA 200.7
Magnesium (Total)		36	mg/L	0.1	EPA 200.7
Lab ID # 3026785		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3026786		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.8	mg/L	0.1	EPA 353.2
Lab ID # 3026787		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.08	mg/L	0.05	SM4500P-E
Lab ID # 3026788		Result		Reporting Limit	Method

Thursday, July 30, 2015 Page 37 of 433

Lab ID # AA17805		Result		Reporting Limit	<u>Method</u>
COD		8	mg/L	10	EPA 410.4
TKN		0.75	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16964		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		980.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0012	Sample Date: 06/09/2014		IDEM Sample	#: AB17371	
Water Flow Type Glide	Water Appearance	Brown	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		83.7	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.48	SU		EPA 150.2
Specific Conductance (Field)		593	umho/cm		SM2510B
Temperature		17.15	°C		SM2550B(2)
Turbidity (Hach)		98.8	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042388		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		18	mg/L	5	EPA 300.0
Lab ID # 3042389		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3042390		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042391		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		24	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 38 of 433

Lab ID # 3042392			Result		Reporting Limit	Method
Phosphorus, Total			0.4	mg/L	0.05	SM4500P-E
Lab ID # 3042393			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			9	mg/L	0.5	SM5310C
Lab ID # AA20579			Result		Reporting Limit	Method
COD			29	mg/L	10	EPA 410.4
TKN			2.6	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17371			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-02-0012	Sample Date:	07/07/2014		IDEM Sampl	e#: AB17545	
Water Flow Type Run	Water	Appearance	Clear		Water Depth	✓ Algae?
Water Flow (cf/sec):	Flov	v Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:				, www	camppy crocca /o	
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			117.9	%		ASTM D888-09(C)
DO			10.6	mg/L		ASTM D888-09(C)
pH (Field)			8.26	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			20.48			SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp				Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # 3060550			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			320	mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			52	mg/L	5	EPA 300.0
Lab ID # 3060551			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			380	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			39	mg/L	0.1	EPA 200.7

Thursday, July 30, 2015 Page 39 of 433

Lab ID # 3060552			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060553			Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite			1.8	mg/L	0.1	EPA 353.2
Lab ID # 3060554			Result		Reporting Limit	Method
Phosphorus, Total			0.1	mg/L	0.05	SM4500P-E
Lab ID # 3060555			Result		Reporting Limit	<u>Method</u>
TOC			3.5	mg/L	0.5	SM5310C
Lab ID # AA22924			Result		Reporting Limit	Method
COD			< 10	mg/L	10	EPA 410.4
TKN			0.38	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17545			Result		Reporting Limit	Method
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli				MPN/100mL	1	SM9223B
SiteID: WMI-02-0012	Sample Date:	07/16/2014		IDEM Sample #	: AB18395	
Water Flow Type Glide	Water	Appearance	Clear	Wa	ater Depth	✓ Algae?
Mater Flow (offices):		• •			Canany Classed 9/	•

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

Sampler Comments: Q2 turb = 4.2

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	120.7	%		ASTM D888-09(C)
DO	10.82	mg/L		ASTM D888-09(C)
pH (Field)	8.14	SU		EPA 150.2
Specific Conductance (Field)	679	umho/cm		SM2510B
Temperature	19.19	°C		SM2550B(2)
Turbidity (Hach)	3.8	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation

Thursday, July 30, 2015 Page 40 of 433

SiteID: WMI-02-0012 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18735

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	Method
% Sat	109	%		ASTM D888-09(C
DO	9.79	mg/L		ASTM D888-09(C
pH (Field)	8.09	SU		EPA 150.2
Specific Conductance (Field)	713	umho/cm		SM2510B
Temperature	20.49	°C		SM2550B(2)
Turbidity (Hach)	8.26	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3087370	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	290	mg/L	1	SM2320B
Chloride	19	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	430	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	380	mg/L	10	SM2540C
Sulfate	53	mg/L	25	EPA 300.0
Lab ID # 3087371	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	330	mg/L	0.66	SM2340B
Calcium (Total)	68	mg/L	0.1	EPA 200.7
Magnesium (Total)	40	mg/L	0.1	EPA 200.7
Lab ID # 3087372	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087373	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087374	Result		Reporting Limit	Method
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3087375	Result		Reporting Limit	Method
TOC	4.6	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 41 of 433

Lab ID # AA25786		Result		Reporting Limit	Method
COD		15	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18735		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-02-0012	Sample Date: 09/15/2014		IDEM Sample	#: AB19048	
Water Flow Type Glide	Water Appearance	Clear	V	Water 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		106.5	%		ASTM D888-09(C)
DO		100.5			ASTM D888-09(C)
pH (Field)		8.09	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature			°C		SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105390		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		42	mg/L	25	EPA 300.0
Lab ID # 3105391		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		300	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		29	mg/L	0.1	EPA 200.7
Lab ID # 3105392		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105393		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 42 of 433

Lab ID # 3105394			Result		Reporting Limit	Method
Phosphorus, Total			0.15	mg/L	0.05	SM4500P-E
Lab ID # 3105395			Result		Reporting Limit	<u>Method</u>
TOC			6.6	mg/L	0.5	SM5310C
Lab ID # AA28032			Result		Reporting Limit	Method
COD			15	mg/L	10	EPA 410.4
TKN			0.6	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19048			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			410.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0012	Sample Date:	10/27/2014		IDEM Sampl	l e # : AB19231	
Water Flow Type Glide		Appearance	Clear		Water Depth	☐ Algae?
Water Flow (cf/sec):	Flow	/ Estimated?	Δ	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:	_ 110	Loundtou.	_ Ac	judilo Elio.	ounopy closed //	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			116.4	%		ASTM D888-09(C)
DO			12.49	mg/L		ASTM D888-09(C)
pH (Field)			8.02	SU		EPA 150.2
Specific Conductance (Field)			775	umho/cm		SM2510B
Temperature			12.02			SM2550B(2)
Turbidity (Hach)			2.15	NTU		EPA 180.1
Air Temp				Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # 3130316			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			330	mg/L	1	SM2320B
Chloride				mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			45	mg/L	25	EPA 300.0
Lab ID # 3130317			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			380	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			40	mg/L	0.1	EPA 200.7

Thursday, July 30, 2015 Page 43 of 433

Lab ID # 3130318	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130319	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.1	EPA 353.2
Lab ID # 3130320	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3130321	Result		Reporting Limit	<u>Method</u>
TOC	5	mg/L	0.5	SM5310C
Lab ID # AA31607	Result		Reporting Limit	<u>Method</u>
COD	8	mg/L	10	EPA 410.4
TKN	< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19231	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	1986.3	MPN/100mL	1	SM9223B
E. coli	83	MPN/100mL	1	SM9223B

		W	eather Code Defi	initions	
S	С		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	

Thursday, July 30, 2015 Page 44 of 433

SiteID: WMI-02-0013 USGS Hydrologic Unit: 051201030203 Stream Name: County: Randolph Fetid Creek Description: CR 800 N 40 16 46.68304 Longitude: Latitude: -85 1 36.12508 Drainage: 3.957 Site Number: 14T-105 SiteID: WMI-02-0013 Sample Date: 04/14/2014 IDEM Sample #: AB16197 ☐ Algae? **Water Depth** Water Flow Type **Water Appearance** Murky ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 87 % DO 9.46 mg/L ASTM D888-09(C) pH (Field) 7.84 SU EPA 150.2 Specific Conductance (Field) 585 umho/cm SM2510B 11.53 °C SM2550B(2) Temperature 130 NTU Turbidity (Hach) EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 5 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3010729 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 210 mg/L 1 SM2320B Chloride 19 mg/L 6 EPA 300.0 SM4500F(-)-C Fluoride 0.2 mg/L 0.1 Solids, Suspended Total, (TSS) 62 mg/L 10 SM2540D Solids, Total (TS) 430 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 320 mg/L SM2540C 10 Sulfate 29 mg/L EPA 300.0 15 Lab ID # 3010730 Result **Reporting Limit Method** Hardness (as CaCO3) 300 mg/L 0.66 SM2340B Calcium (Total) 67 mg/L 0.1 EPA 200.7

Magnesium (Total) 30 mg/L 0.1 EPA 200.7 Lab ID # 3010731 **Reporting Limit** Result <u>Method</u> Nitrogen, Ammonia 0.2 mg/L 0.1 SM4500NH3-D Lab ID # 3010732 Result **Reporting Limit Method** Nitrogen, Nitrate+Nitrite 8.1 mg/L 0.1 EPA 353.2 Lab ID # 3010733 Result **Reporting Limit Method** 0.47 mg/L 0.05 SM4500P-E Phosphorus, Total Thursday, July 30, 2015 Page 45 of 433

Lab ID # 3010734		Result		Reporting Limit	<u>Method</u>
TOC		5.5	mg/L	0.5	SM5310C
Lab ID # AA14499		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16197		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		2098	MPN/100mL	10	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-02-0013	Sample Date: 04/21/2014		IDEM Sample	#• AB16441	
Nater Flow Type Glide	Water Appearance	Murky	•	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		93.1	%		ASTM D888-09(C)
DO		9.94	mg/L		ASTM D888-09(C)
pH (Field)		8.04	SU		EPA 150.2
Specific Conductance (Field)		692	umho/cm		SM2510B
Temperature		12.36	°C		SM2550B(2)
Turbidity (Hach)		12.1	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16441		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		201.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 46 of 433

SiteID: WMI-02-0013				#: AB16513	
Water Flow Type Glide	Water Appearance	Brown	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		84.2	%		ASTM D888-09(C)
DO		9.56	mg/L		ASTM D888-09(C)
pH (Field)		7.79	SU		EPA 150.2
Specific Conductance (Field)		551	umho/cm		SM2510B
Temperature		9.66	°C		SM2550B(2)
Turbidity (Hach)		258	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16513		Result		Reporting Limit	<u>Method</u>
E. coli		2419.6	MPN/100mL	1	SM9223B
Lab ID # AB16513a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		0.4400	MPN/100mL	24196	SM9223B
,					
SiteID: WMI-02-0013	Sample Date: 05/05/2014		IDEM Sample		
SiteID: WMI-02-0013 Water Flow Type Glide	Sample Date: 05/05/2014 Water Appearance	Clear	•		✓ Algae?
Nater Flow Type Glide		Clear	•	#: AB16832	_
Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	v	#: AB16832 Vater Depth	_
Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	v	#: AB16832 Vater Depth	_
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	V Juatic Life?	#: AB16832 Vater Depth Canopy Closed %	0-20% Method
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	Vuatic Life?	#: AB16832 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Ac	Vuluatic Life? % mg/L	#: AB16832 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 98.7 11.08 7.83	Vuluatic Life? % mg/L	#: AB16832 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 98.7 11.08 7.83 714	yuatic Life? % mg/L SU umho/cm	#: AB16832 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 98.7 11.08 7.83 714 10.15	% mg/L SU umho/cm °C	#: AB16832 Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 98.7 11.08 7.83 714 10.15 10.1	% mg/L SU umho/cm °C NTU	#: AB16832 Vater 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 Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 98.7 11.08 7.83 714 10.15 10.1 3	% mg/L SU umho/cm °C NTU Lookup	#: AB16832 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
Nater Flow Type Glide Nater 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 98.7 11.08 7.83 714 10.15 10.1 3 3	% mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16832 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
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 98.7 11.08 7.83 714 10.15 10.1 3 3 27	% mg/L SU umho/cm °C NTU Lookup	#: AB16832 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
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 98.7 11.08 7.83 714 10.15 10.1 3 3 27 3	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16832 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
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 # AB16832	Water Appearance	Clear Result 98.7 11.08 7.83 714 10.15 10.1 3 27 3 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	#: AB16832 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
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 98.7 11.08 7.83 714 10.15 10.1 3 3 27 3 Result > 2419.6	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16832 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

Thursday, July 30, 2015 Page 47 of 433

Nater Flow Type Glide	Water Appearance	Brown		Water Depth	✓ Algae?
		_		•	_
Nater Flow (cf/sec):	☐ Flow Estimated?	□ A0	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		85.9	%		ASTM D888-09(C)
DO		8.07	mg/L		ASTM D888-09(C)
pH (Field)		7.67	SU		EPA 150.2
Specific Conductance (Field)		674	umho/cm		SM2510B
Temperature		18.26	°C		SM2550B(2)
Turbidity (Hach)		33.2	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3026791		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)		250	mg/L	1	SM2320B
Chloride		23	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		45	mg/L	25	EPA 300.0
Lab ID # 3026792		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)		72	mg/L	0.1	EPA 200.7
Magnesium (Total)		36	mg/L	0.1	EPA 200.7
Lab ID # 3026793		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3026794		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5.8	mg/L	0.1	EPA 353.2
Lab ID # 3026795		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.15	mg/L	0.05	SM4500P-E
Lab ID # 3026796		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 48 of 433

Lab ID # AA17806		Result		Reporting Limit	Method
COD		12	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16965		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		2419.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0013	Sample Date: 06/09/2014		IDEM Sample	#: AB17372	
Nater Flow Type Glide	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	juatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		83.9	%		ASTM D888-09(C)
DO		8.34	mg/L		ASTM D888-09(C)
pH (Field)		7.41	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		15.58			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042396		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		190	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		23	mg/L	5	EPA 300.0
Lab ID # 3042397		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		33	mg/L	0.1	EPA 200.7
Lab ID # 3042398		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3042399		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 49 of 433

Lab ID # 3042400			Result		Reporting Limit	Method
Phosphorus, Total			0.35	mg/L	0.05	SM4500P-E
Lab ID # 3042401			Result		Reporting Limit	<u>Method</u>
TOC			6.6	mg/L	0.5	SM5310C
Lab ID # AA20580			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			21	mg/L	10	EPA 410.4
TKN			1.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17372			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			1046.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0013	Sample Date:	07/07/2014		IDEM Sampl	l e # : AB17546	
Water Flow Type Run	Water A	Appearance	Murky		Water 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			74.8	%		ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			7.94			EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			19.13			SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp				Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # 3060558			Result		Reporting Limit	Method
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			58	mg/L	5	EPA 300.0
Lab ID # 3060559			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			390	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			40	mg/L	0.1	EPA 200.7
Flores days to be 200 0045						

Thursday, July 30, 2015 Page 50 of 433

Lab ID # 3060560		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060561		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		5.4	mg/L	0.1	EPA 353.2
Lab ID # 3060562		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.17	mg/L	0.05	SM4500P-E
Lab ID # 3060563		Result		Reporting Limit	<u>Method</u>
TOC		3.7	mg/L	0.5	SM5310C
Lab ID # AA22925		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17546		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-02-0013	Sample Date: 07/16/2014		IDEM Sample	∍#: AB18394	
Water Flow Type Run	Water Appearance	Murky	,	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Q2 turb	= 35.7				
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		59.9	%		ASTM D888-09(C)
DO		5.64	mg/L		ASTM D888-09(C)
pH (Field)		7.81	SU		EPA 150.2
Specific Conductance (Field)		722	umho/cm		SM2510B
_			_		

Thursday, July 30, 2015 Page 51 of 433

16.81 °C

22.3 NTU

3 Lookup

4 Lookup

27 Lookup

1 Lookup

SM2550B(2)

EPA 180.1

Observation

Observation

Observation Observation

Temperature

Air Temp

Turbidity (Hach)

Sky Conditions

Wind Direction

Wind Strength

SiteID: WMI-02-0013 **Sample Date:** 08/18/2014 **IDEM Sample #:** AB18736

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

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

Sampler Comments:

% Sat DO pH (Field) Specific Conductance (Field) Temperature	7.86 756 18.23	mg/L		ASTM D888-09(C) ASTM D888-09(C)
pH (Field) Specific Conductance (Field)	7.86 756 18.23	SU		ASTM D888-09(C
Specific Conductance (Field)	756 18.23			
	18.23	umho/cm		EPA 150.2
Temperature				SM2510B
	14	°C		SM2550B(2)
Turbidity (Hach)		NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3087378	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	320	mg/L	1	SM2320B
Chloride	20	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	11	mg/L	10	SM2540D
Solids, Total (TS)	460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400	mg/L	10	SM2540C
Sulfate	54	mg/L	25	EPA 300.0
Lab ID # 3087379	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	360	mg/L	0.66	SM2340B
Calcium (Total)	80	mg/L	0.1	EPA 200.7
Magnesium (Total)	38	mg/L	0.1	EPA 200.7
Lab ID # 3087380	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087381	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087382	Result		Reporting Limit	Method
Phosphorus, Total	0.13	mg/L	0.05	SM4500P-E
Lab ID # 3087383	Result		Reporting Limit	<u>Method</u>
TOC	5.2	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 52 of 433

Lab ID # AA25787		Result		Reporting Limit	<u>Method</u>
COD		18	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18736		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-02-0013	Sample Date: 09/15/2014		IDEM Sample	#: AB19049	
Water Flow Type Pool	Water Appearance	Clear	_	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		67.1	%		ASTM D888-09(C)
DO		7.1	mg/L		ASTM D888-09(C)
pH (Field)		7.82	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.27	°C		SM2550B(2)
Turbidity (Hach)		17	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105398		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		35	mg/L	25	EPA 300.0
Lab ID # 3105399		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		27	mg/L	0.1	EPA 200.7
Lab ID # 3105400		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105401		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.4	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 53 of 433

Result

Reporting Limit

Method

Lab ID # 3105402

Edb 10 # 0100402		resure		reporting Limit	Metroa
Phosphorus, Total		0.22	mg/L	0.05	SM4500P-E
Lab ID # 3105403		Result		Reporting Limit	<u>Method</u>
TOC		10	mg/L	0.5	SM5310C
Lab ID # AA28033		Result		Reporting Limit	<u>Method</u>
COD		28	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19049		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-02-0013	Sample Date: 10/27/2014		IDEM Sample	e#: AB19232	
Vater Flow Type Stagnant	Water Appearance	Black	_	Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	Π Δα	quatic Life?	Canopy Closed %	0-20%
• •	nt, Organic Decay.		quatio Elic.	ounopy closed //	0 2070
difficial comments. Stagna	Tit, Organic Decay.				
Lab ID #		Result		Reporting Limit	Method
% Sat		8	%		ASTM D888-09(C)
DO		0.91	mg/L		ASTM D888-09(C)
pH (Field)		7.33	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		9.37			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3130324		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		320	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		14	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		35	mg/L	5	EPA 300.0
Lab ID # 3130325		Result		Reporting Limit	Method
Hardness (as CaCO3)		350	mg/L	0.66	SM2340B
Calcium (Total)		82	mg/L	0.1	EPA 200.7
Magnesium (Total)		35	mg/L	0.1	EPA 200.7
hursday, July 30, 2015					Page 54 of 433

Lab ID # 3130326	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130327	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3130328	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.52	mg/L	0.05	SM4500P-E
Lab ID # 3130329	Result		Reporting Limit	<u>Method</u>
TOC	19	mg/L	0.5	SM5310C
Lab ID # AA31608	Result		Reporting Limit	<u>Method</u>
COD	37	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19232	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	63.1	MPN/100mL	1	SM9223B

	Weather Code Definitions									
	C nditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp					
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32					
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45					
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60					
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75					
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85					
6 - Fog				5 - Strong	6 - > 86					
7 - Shower				6 - Gale	0 2 00					

Thursday, July 30, 2015 Page 55 of 433

SiteID: WMI020-0002 USGS Hydrologic Unit: 051201030203 Stream Name: Mississinewa River County: Randolph Description: CR 100 W, near Ridgeville 40 16 48.00000 Longitude: Latitude: -84 59 43.00000 Drainage: 133 Site Number: 14T-106 SiteID: WMI020-0002 Sample Date: 04/14/2014 IDEM Sample #: AB16198 ☐ Algae? Water Flow Type **Water Appearance** Murky Water Depth ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 89.8 % DO 9.41 mg/L ASTM D888-09(C) pH (Field) 7.98 SU EPA 150.2 Specific Conductance (Field) 620 umho/cm SM2510B 13.2 °C SM2550B(2) Temperature 41.9 NTU Turbidity (Hach) EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 5 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3010737 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 23 mg/L 6 EPA 300.0 SM4500F(-)-C Fluoride 0.2 mg/L 0.1 Solids, Suspended Total, (TSS) 27 mg/L SM2540D 10 Solids, Total (TS) 390 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 340 mg/L SM2540C 10 Sulfate 33 mg/L EPA 300.0 15 Lab ID # 3010738 Result **Reporting Limit Method** Hardness (as CaCO3) 310 mg/L 0.66 SM2340B Calcium (Total) 77 mg/L 0.1 EPA 200.7 Magnesium (Total) 29 mg/L 0.1 EPA 200.7 Lab ID # 3010739 **Reporting Limit** Result <u>Method</u>

Thursday, July 30, 2015 Page 56 of 433

Result

Result

0.2 mg/L

6.9 mg/L

0.23 mg/L

0.1

Reporting Limit

0.1

Reporting Limit

0.05

SM4500NH3-D

Method

EPA 353.2

Method

SM4500P-E

Nitrogen, Ammonia

Nitrogen, Nitrate+Nitrite

Phosphorus, Total

Lab ID # 3010740

Lab ID # 3010741

Lab ID # 3010742		Result		Reporting Limit	<u>Method</u>
TOC		3.9	mg/L	0.5	SM5310C
Lab ID # AA14500		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.91	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16198		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		980.4	MPN/100mL	1	SM9223B
SiteID: WMI020-0002	Sample Date: 04/21/2014		IDEM Sample	#• ΔB16442	
Water Flow Type Glide	Water Appearance	Clear	-	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		_ 7.0	juudo Elio i	cunopy ciocou /i	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		141.8	%		ASTM D888-09(C)
DO		14.78	mg/L		ASTM D888-09(C)
pH (Field)		8.35	SU		EPA 150.2
Specific Conductance (Field)		651	umho/cm		SM2510B
Temperature		13.36	°C		SM2550B(2)
Turbidity (Hach)		5.78	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16442		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		135.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 57 of 433

SiteID: WMI020-0002	Sample Date: 04/28/2014		IDEM Sample	#: AB16514	
/ater Flow Type Glide	Water Appearance	Murky	V	Vater Depth	✓ Algae?
ater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
ampler Comments:					
_ab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		102.7	%		ASTM D888-09(C)
DO		11.16	mg/L		ASTM D888-09(C)
pH (Field)		8.04	SU		EPA 150.2
Specific Conductance (Field)		631	umho/cm		SM2510B
Temperature		11.58	°C		SM2550B(2)
Turbidity (Hach)		15.8	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16514		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
			MPN/100mL	1	SM9223B
E. coli		579.4	WIFTW/TOUTILE	'	CINICLEOD
SiteID: WMI020-0002	Sample Date: 05/05/2014 Water Appearance	579.4 Clear	IDEM Sample		✓ Algae?
SiteID: WMI020-0002 Vater Flow Type Run	•	Clear	IDEM Sample	#: AB16833	✓ Algae?
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16833 Vater Depth	✓ Algae?
SiteID: WMI020-0002	Water Appearance	Clear	IDEM Sample	#: AB16833 Vater Depth	✓ Algae?
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments:	Water Appearance	Clear ✓ Aq	IDEM Sample V Juatic Life?	#: AB16833 Vater Depth Canopy Closed %	✓ Algae? 0-20%
viteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Lab ID #	Water Appearance	Clear ✓ Aq Result	IDEM Sample V juatic Life?	#: AB16833 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear ✓ Aq Result	IDEM Sample V quatic Life? % mg/L	#: AB16833 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 134.4 14.59 8.19	IDEM Sample V quatic Life? % mg/L	#: AB16833 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 134.4 14.59 8.19	IDEM Sample V Juatic Life? % mg/L SU umho/cm	#: AB16833 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Jater Flow Type Run Jater Flow (cf/sec): Ampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 134.4 14.59 8.19 639	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C	#: AB16833 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Jater Flow Type Run Jater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 134.4 14.59 8.19 639 12.01 4.66	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C	#: AB16833 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 134.4 14.59 8.19 639 12.01 4.66 3	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16833 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Jater Flow Type Run Jater Flow (cf/sec): ampler Comments: Ab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 134.4 14.59 8.19 639 12.01 4.66 3 3	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16833 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Jater Flow Type Run Jater Flow (cf/sec): ampler Comments: Ab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Clear Result 134.4 14.59 8.19 639 12.01 4.66 3 3 27	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16833 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: WMI020-0002 Vater Flow Type Run Vater Flow (cf/sec): ampler 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 134.4 14.59 8.19 639 12.01 4.66 3 3 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16833 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
SiteID: WMI020-0002 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	Water Appearance	Clear Result 134.4 14.59 8.19 639 12.01 4.66 3 27 3 Result	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16833 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

Thursday, July 30, 2015 Page 58 of 433

	Sample Date: 05/12/2014	le #: AB16966		
Vater Flow Type Run	Water Appearance Brown	1	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐ A	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	7	9 %		ASTM D888-09(C)
DO	7.3	7 mg/L		ASTM D888-09(C)
pH (Field)	7.7	7 SU		EPA 150.2
Specific Conductance (Field)	60	6 umho/cm		SM2510B
Temperature	18.5	5 °C		SM2550B(2)
Turbidity (Hach)	15	4 NTU		EPA 180.1
Air Temp		5 Lookup		Observation
Sky Conditions		2 Lookup		Observation
Wind Direction		7 Lookup		Observation
Wind Strength		1 Lookup		Observation
Lab ID # 3026799	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	21	0 mg/L	1	SM2320B
Chloride	2	8 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	8	9 mg/L	10	SM2540D
Solids, Total (TS)	45	0 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	34	0 mg/L	10	SM2540C
Sulfate	3	7 mg/L	25	EPA 300.0
Lab ID # 3026800	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		0 mg/L	0.66	SM2340B
Calcium (Total)	6	9 mg/L	0.1	EPA 200.7
Magnesium (Total)	3	0 mg/L	0.1	EPA 200.7
Lab ID # 3026801	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.	2 mg/L	0.1	SM4500NH3-D
Lab ID # 3026802	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	4.	3 mg/L	0.1	EPA 353.2
Lab ID # 3026803	Result		Reporting Limit	Method
Phosphorus, Total	0.4	3 mg/L	0.05	SM4500P-E
Lab ID # 3026804	Result		Reporting Limit	Method
TOC	5	2 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 59 of 433

Lab ID # AA17807		Result		Reporting Limit	<u>Method</u>
COD		22	mg/L	10	EPA 410.4
TKN		2.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16966a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		2603	MPN/100mL	10	SM9223B
SiteID: WMI020-0002	Sample Date: 06/09/2014		IDEM Sample	#: AB17373	
Water Flow Type Run	Water Appearance	Brown	-	Vater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		87.8	%		ASTM D888-09(C)
DO		8.58	mg/L		ASTM D888-09(C)
pH (Field)		7.54	SU		EPA 150.2
Specific Conductance (Field)		564	umho/cm		SM2510B
Temperature		16.45	°C		SM2550B(2)
Turbidity (Hach)		148	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042404		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	5	EPA 300.0
Lab ID # 3042405		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3042406		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3042407		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		18	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 60 of 433

Lab ID # 3042408			Result		Reporting Limit	Method
Phosphorus, Total			0.67	mg/L	0.05	SM4500P-E
Lab ID # 3042409			Result		Reporting Limit	<u>Method</u>
TOC			6.4	mg/L	0.5	SM5310C
Lab ID # AA20581			<u>Result</u>		Reporting Limit	Method
COD			21	mg/L	10	EPA 410.4
TKN			1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17373a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
E. coli			4884	MPN/100mL	10	SM9223B
SiteID: WMI020-0002	Sample Date:	07/07/2014		IDEM Sample	e #: AB17547	
Water Flow Type Glide	Water A	Appearance	Clear		Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow	/ Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		Loundiou	_ / (juutio Elio	cunopy croccu /s	0 20,0
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			132	%		ASTM D888-09(C)
DO			12.06	mg/L		ASTM D888-09(C)
pH (Field)			8.26	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			19.66			SM2550B(2)
Turbidity (Hach)			8.32	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 # 3060566			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			47	mg/L	5	EPA 300.0
Lab ID # 3060567			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			360	mg/L	0.66	SM2340B
Calcium (Total)			88	mg/L	0.1	EPA 200.7
Magnesium (Total)			33	mg/L	0.1	EPA 200.7
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Thursday, July 30, 2015 Page 61 of 433

Lab ID # 3060568			Result		Reporting Limit	Method
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060569			Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite			3.8	mg/L	0.1	EPA 353.2
Lab ID # 3060570			Result		Reporting Limit	Method
Phosphorus, Total			0.13	mg/L	0.05	SM4500P-E
Lab ID # 3060571			Result		Reporting Limit	<u>Method</u>
TOC			3	mg/L	0.5	SM5310C
Lab ID # AA22926			Result		Reporting Limit	<u>Method</u>
COD			< 10	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17547			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			387.3	MPN/100mL	1	SM9223B
SiteID: WMI020-0002	Sample Date:	08/04/2014		IDEM Sample	#: AB18399	
Water Flow Type Run	Water	Appearance	Clear	V	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flo	w Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			83	%		SM4500-OG
DO			7.32	mg/L		SM4500-OG
pH (Field)			8.08	SU		EPA 150.2
Specific Conductance (Field)			683	umho/cm		SM2510B
Temperature			20.36	°C		SM2550B(2)
Turbidity (Hach)			5.74	NTU		EPA 180.1
Air Temp			5	Lookup		Observation
Sky Conditions			1	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strongth			0	Lookup		Observation

Thursday, July 30, 2015 Page 62 of 433

0 Lookup

Observation

Wind Strength

SiteID: WMI020-0002 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18737

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

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

Sampler Comments:

Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Result Hardness (as CaCO3) Calcium (Total) Magnesium (Total) Result Result Reporting Limit	ASTM D888-09(C ASTM D888-09(C EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) 7.95 SU Specific Conductance (Field) 7.55 umho/cm Temperature 19.54 °C Turbidity (Hach) 5.04 NTU Air Temp 5 Lookup Sky Conditions 4 Lookup Wind Direction 24 Lookup Wind Strength 2 Lookup Lab ID # 3087401 Result Reporting Limit Alkalinity (as CaCO3) 280 mg/L 1 Chloride 34 mg/L 10 Solids, Suspended Total, (TSS) < 10 mg/L 10 Solids, Total Dissolved (TDS) 420 mg/L 10 Solids, Total Dissolved (TDS) 420 mg/L 10 Sulfate 55 mg/L 25 Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) 340 mg/L 0.66 Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Magnesium (Total) Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L 0.1 Lab ID # 3087404 Result	EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Specific Conductance (Field) 755 umho/cm Temperature 19.54 °C Turbidity (Hach) 5.04 NTU Air Temp 5 Lookup Sky Conditions 4 Lookup Wind Direction 24 Lookup Wind Strength 2 Lookup Lookup	SM2510B SM2550B(2) EPA 180.1 Observation Observation
Temperature	SM2550B(2) EPA 180.1 Observation Observation
Turbidity (Hach)	EPA 180.1 Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength 24 Lookup Wind Strength 25 Lookup Wind Strength 26 Lookup Wind Strength 27 Lookup Wind Strength 28 mg/L Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 420 mg/L 55 mg/L 25 Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) Calcium (Total) Magnesium (Total) Magnesium (Total) Nitrogen, Ammonia 40.1 mg/L 0.1 Reporting Limit	Observation Observation
Sky Conditions 4 Lookup Wind Direction 24 Lookup Wind Strength 2 Lookup Lab ID # 3087401 Result Reporting Limit Alkalinity (as CaCO3) 280 mg/L 1 Chloride 34 mg/L 10 Solids, Suspended Total, (TSS) < 10 mg/L 10 Solids, Total (TS) 450 mg/L 10 Solids, Total Dissolved (TDS) 420 mg/L 10 Sulfate 55 mg/L 25 Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) 340 mg/L 0.66 Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L 0.1 Lab ID # 3087404 Result Reporting Limit	Observation
Wind Direction Wind Strength 24 Lookup Lab ID # 3087401 Result Reporting Limit Alkalinity (as CaCO3) Chloride 280 mg/L 34 mg/L 10 1 Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 450 mg/L 420 mg/L 55 mg/L 10 Solids, Total Dissolved (TDS) Sulfate 420 mg/L 55 mg/L 10 Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) Calcium (Total) Magnesium (Total) 340 mg/L 78 mg/L 0.1 0.66 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	
Note	Observation
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total Dissolved (TDS) Sulfate Hardness (as CaCO3) Calcium (Total) Magnesium (Total) Nitrogen, Ammonia Result Reporting Limit Result Reporting Limit Result Reporting Limit	
Alkalinity (as CaCO3)	Observation
Chloride 34 mg/L 10 Solids, Suspended Total, (TSS) < 10 mg/L	Method
Solids, Suspended Total, (TSS) Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS) Solids, Total Dissolved (TDS) 420 mg/L 10 10 10 10 10 10 10 1	SM2320B
Solids, Total (TS)	EPA 300.0
Solids, Total Dissolved (TDS)	SM2540D
Sulfate 55 mg/L 25 Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) 340 mg/L 0.66 Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	SM2540B
Lab ID # 3087402 Result Reporting Limit Hardness (as CaCO3) 340 mg/L 0.66 Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	SM2540C
Hardness (as CaCO3) 340 mg/L 0.66 Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L 0.1 Lab ID # 3087404 Result Reporting Limit	EPA 300.0
Calcium (Total) 78 mg/L 0.1 Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	<u>Method</u>
Magnesium (Total) 33 mg/L 0.1 Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	SM2340B
Lab ID # 3087403 Result Reporting Limit Nitrogen, Ammonia < 0.1 mg/L	EPA 200.7
Nitrogen, Ammonia < 0.1 mg/L 0.1 Lab ID # 3087404 Result Reporting Limit	EPA 200.7
Lab ID # 3087404 Result Reporting Limit	Method
	SM4500NH3-D
Nitrogen, Nitrate+Nitrite 0.6 mg/L 0.1	<u>Method</u>
	EPA 353.2
Lab ID # 3087405 Result Reporting Limit	Method
Phosphorus, Total 0.08 mg/L 0.05	SM4500P-E
Lab ID # 3087406 Result Reporting Limit	<u>Method</u>
TOC 3.7 mg/L 0.5	<u>montou</u>

Thursday, July 30, 2015 Page 63 of 433

Lab ID # AA25788		Result		Reporting Limit	Method
COD		13	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18737		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		456.9	MPN/100mL	1	SM9223B
SiteID: WMI020-0002	Sample Date: 09/15/2014		IDEM Sample	#: AB19050	
Water Flow Type Glide	Water Appearance	Clear	W	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		93.5	%		ASTM D888-09(C)
DO		9.71	mg/L		ASTM D888-09(C)
pH (Field)		7.92	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.56			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105406		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		48	mg/L	25	EPA 300.0
Lab ID # 3105407		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3105408		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105409		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 64 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105410

Phosphorus, Total		0.14	mg/L	0.05	SM4500P-E
Lab ID # 3105411		Result		Reporting Limit	Method
TOC		4.8	mg/L	0.5	SM5310C
Lab ID # AA28034		Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.6	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19050		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		313	MPN/100mL	1	SM9223B
SiteID: WMI020-0002	Sample Date: 10/27/2014		IDEM Sample		
Nater Flow Type Run	Water Appearance	Clear	V	Vater 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		88.7	%		ASTM D888-09(C)
DO		9.74	mg/L		ASTM D888-09(C)
pH (Field)		7.82	SU		EPA 150.2
Specific Conductance (Field)		778	umho/cm		SM2510B
Temperature		11.05			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # 3130332		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		320	mg/L	1	SM2320B
Chloride		33	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)		450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		41	mg/L	25	EPA 300.0
Lab ID # 3130333		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		86	mg/L	0.1	EPA 200.7
Magnesium (Total)		35	mg/L	0.1	EPA 200.7
Thursday, July 30, 2015					Page 65 of 433

Lab ID # 3130334	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130335	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3130336	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E
Lab ID # 3130337	Result		Reporting Limit	<u>Method</u>
TOC	5.6	mg/L	0.5	SM5310C
Lab ID # AA31609	Result		Reporting Limit	<u>Method</u>
COD	10	mg/L	10	EPA 410.4
TKN	0.36	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19233	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	71.7	MPN/100mL	1	SM9223B

	Weather Code Definitions							
S	SC WD		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				

Thursday, July 30, 2015 Page 66 of 433

SiteID:WMI-02-0005USGS Hydrologic Unit:051201030201Stream Name:Flesher CreekCounty:Jay

Description: CR 800 S **Latitude:** 40 19 22.35734 **Longitude:** -85 3 46.99468

Drainage: 7.265 Site Number: 14T-108

SiteID: WMI-02-0005 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16199

Water Flow Type Glide 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	99.1	%		ASTM D888-09(C)
DO	10.61	mg/L		ASTM D888-09(C)
pH (Field)	7.87	SU		EPA 150.2
Specific Conductance (Field)	605	umho/cm		SM2510B
Temperature	12.15	°C		SM2550B(2)
Turbidity (Hach)	14.3	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 # 3010780	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	18	mg/L	6	EPA 300.0
Fluoride		mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	13	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	33	mg/L	15	EPA 300.0
Lab ID # 3010781	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	82	mg/L	0.1	EPA 200.7
Magnesium (Total)	27	mg/L	0.1	EPA 200.7
Lab ID # 3010782	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010783	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.6	mg/L	0.1	EPA 353.2
Lab ID # 3010784	Result		Reporting Limit	Method
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 67 of 433

Lab ID # 3010785		Result		Reporting Limit	<u>Method</u>
TOC		3.6	mg/L	0.5	SM5310C
Lab ID # AA14501		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.66	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16199		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		387.3	MPN/100mL	1	SM9223B
E. coli		66.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0005	Sample Date: 04/21/2014		IDEM Sample :	#. AB16442	
Water Flow Type Stagnant	Water Appearance	Murky	_	/ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	_
Sampler Comments:	_ Now Estimated:	Ac	quatic Life :	Callopy Glosed 70	0.2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		116	%		ASTM D888-09(C)
DO		12.53	mg/L		ASTM D888-09(C)
pH (Field)		8.08	SU		EPA 150.2
Specific Conductance (Field)		634	umho/cm		SM2510B
Temperature		11.88	°C		SM2550B(2)
Turbidity (Hach)		10.4	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16443		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		135.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 68 of 433

	Sample Date: 04/28/2014		IDEM Campic	#: AB16515	
Vater Flow Type Glide	Water Appearance	Brown	W	Vater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
ampler Comments: Turbidit	y meter flashed 1000NTU, maxe	ed out			
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		85	%		ASTM D888-09(C)
DO		9.56	mg/L		ASTM D888-09(C)
pH (Field)		7.85	SU		EPA 150.2
Specific Conductance (Field)		389	umho/cm		SM2510B
Temperature		10	°C		SM2550B(2)
Turbidity (Hach)		1000	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16515a		Result		Reporting Limit	<u>Method</u>
E. coli		4106	MPN/100mL	10	SM9223B
Lab ID # AB16515b		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		64880	MPN/100mL	100	SM9223B
	Sample Date: 05/05/2014	64880	MPN/100mL IDEM Sample		SM9223B
SiteID: WMI-02-0005	Sample Date: 05/05/2014 Water Appearance	64880 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-02-0005 Water Flow Type Pool	•	Murky	IDEM Sample	#: AB16834	✓ Algae?
SiteID: WMI-02-0005 Water Flow Type Pool Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16834 Vater Depth	✓ Algae?
SiteID: WMI-02-0005 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample	#: AB16834 Vater Depth	✓ Algae?
SiteID: WMI-02-0005 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample W quatic Life?	#: AB16834 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments:	Water Appearance	Murky Ac	IDEM Sample W quatic Life?	#: AB16834 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Acc Result 90.8 10.11	IDEM Sample W quatic Life?	#: AB16834 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Murky Ac Result 90.8 10.11 7.8	IDEM Sample W quatic Life? % mg/L	#: AB16834 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Ac Result 90.8 10.11 7.8	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16834 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16834 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39 10.2	IDEM Sample W quatic Life? % mg/L SU umho/cm °C NTU	#: AB16834 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: WMI-02-0005 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39 10.2 3	IDEM Sample W quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16834 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: WMI-02-0005 Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39 10.2 3 3	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16834 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: WMI-02-0005 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39 10.2 3 3 27	IDEM Sample W quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16834 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: WMI-02-0005 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 90.8 10.11 7.8 624 10.39 10.2 3 3 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16834 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: WMI-02-0005 Water Flow Type Pool 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 ☐ Flow Estimated?	Murky Result 90.8 10.11 7.8 624 10.39 10.2 3 3 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16834 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

Thursday, July 30, 2015 Page 69 of 433

Water Flow Type Glide	Sample Date: 05/12/2014 Water Appearance	Brown	·	le #: AB16967 Water 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		89.4	%		ASTM D888-09(C
DO		8.52	mg/L		ASTM D888-09(C)
pH (Field)		7.64	SU		EPA 150.2
Specific Conductance (Field)		527	umho/cm		SM2510B
Temperature		17.56	°C		SM2550B(2)
Turbidity (Hach)		105	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3026807		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		150	mg/L	1	SM2320B
Chloride		16	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		34	mg/L	10	SM2540D
Solids, Total (TS)		420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		330	mg/L	10	SM2540C
Sulfate		23	mg/L	5	EPA 300.0
Lab ID # 3026808		<u>Result</u>		Reporting Limit	Method
Hardness (as CaCO3)		240	mg/L	0.66	SM2340B
Calcium (Total)		65	mg/L	0.1	EPA 200.7
Magnesium (Total)		21	mg/L	0.1	EPA 200.7
Lab ID # 3026809		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.7	mg/L	0.1	SM4500NH3-D
Lab ID # 3026810		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		14	mg/L	1	EPA 353.2
Lab ID # 3026811		Result		Reporting Limit	Method
Phosphorus, Total		0.51	mg/L	0.05	SM4500P-E
Lab ID # 3026812		Result		Reporting Limit	<u>Method</u>
					
TOC		10	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 70 of 433

Lab ID # AA17808		Result		Reporting Limit	<u>Method</u>
COD		27	mg/L	10	EPA 410.4
TKN		4.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16967a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		3873	MPN/100mL	10	SM9223B
SiteID: WMI-02-0005	Sample Date: 06/09/2014		IDEM Sample	#: AB17374	
Water Flow Type Run	Water Appearance	Brown	v	Vater 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		75.3	%		ASTM D888-09(C)
DO		7.12	mg/L		ASTM D888-09(C)
pH (Field)		7.33	SU		EPA 150.2
Specific Conductance (Field)		390	umho/cm		SM2510B
Temperature		17.53	°C		SM2550B(2)
Turbidity (Hach)		139	NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042412		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		12	mg/L	5	EPA 300.0
Lab ID # 3042413		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		16	mg/L	0.1	EPA 200.7
Lab ID # 3042414		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3042415		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		13	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 71 of 433

Lab ID # 3042416		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.55	mg/L	0.05	SM4500P-E
Lab ID # 3042417		Result		Reporting Limit	<u>Method</u>
TOC		7.1	mg/L	0.5	SM5310C
Lab ID # AA20582		Result		Reporting Limit	Method
COD		23	mg/L	10	EPA 410.4
TKN		1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17374		Result		Reporting Limit	<u>Method</u>
E. coli		214.3	MPN/100mL	1	SM9223B
Lab ID # AB17374a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0005 Water Flow Type Run	Sample Date: 07/07/2014 Water Appearance	Murky	IDEM Sample :	#: AB17548 /ater Depth	✓ Algae?
Water Flow (effect):	Flow Estimated?	Π Ac	uustic Lifo?	Canony Closed %	0.20%
	☐ Flow Estimated?	☐ A c	quatic Life?	Canopy Closed %	0-20%
	☐ Flow Estimated?	Result	quatic Life?	Canopy Closed % Reporting Limit	0-20% <u>Method</u>
Sampler Comments:	☐ Flow Estimated?				
Sampler Comments:	☐ Flow Estimated?	Result 86.8			<u>Method</u>
Sampler Comments: Lab ID # % Sat	☐ Flow Estimated?	Result 86.8	% mg/L		Method ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO	☐ Flow Estimated?	86.8 8.03 7.78	% mg/L		Method ASTM D888-09(C) ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO pH (Field)	☐ Flow Estimated?	86.8 8.03 7.78	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	☐ Flow Estimated?	Result 86.8 8.03 7.78 695 19.09	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4	% mg/L SU umho/cm °C NTU Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4	% 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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4	% 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 Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	☐ Flow Estimated?	Result 86.8 8.03 7.78 695 19.09 13.8 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	☐ Flow Estimated?	Result 86.8 8.03 7.78 695 19.09 13.8 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4 27 2	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060574	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060574 Alkalinity (as CaCO3)	☐ Flow Estimated?	Result 86.8 8.03 7.78 695 19.09 13.8 4 27 2 Result 290 23	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	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 Observation SM2520B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060574 Alkalinity (as CaCO3) Chloride	☐ Flow Estimated?	Result 86.8 8.03 7.78 695 19.09 13.8 4 27 2 Result 290 23 < 10 420	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Smethod SM2320B EPA 300.0
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060574 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	☐ Flow Estimated?	86.8 8.03 7.78 695 19.09 13.8 4 27 2 Result 290 23 <10 420 400	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 72 of 433

Lab ID # 3060575		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		360	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3060576		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060577		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3.2	mg/L	0.1	EPA 353.2
Lab ID # 3060578		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.12	mg/L	0.05	SM4500P-E
Lab ID # 3060579		Result		Reporting Limit	<u>Method</u>
TOC		3.2	mg/L	0.5	SM5310C
Lab ID # AA22927		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.36	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17548		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		517.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0005	Sample Date: 08/04/2014		IDEM Sample	#: AB18393	
Water Flow Type Glide	Water Appearance	Clear	v	Vater 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		75.8	%		SM4500-OG
DO		5.99	mg/L		SM4500-OG
pH (Field) Specific Conductance (Field)		7.75	SU umho/cm		EPA 150.2 SM2510B

Thursday, July 30, 2015 Page 73 of 433

20.25 °C

7.58 NTU

6 Lookup

2 Lookup

27 Lookup

1 Lookup

SM2550B(2)

EPA 180.1

Observation

Observation

Observation

Observation

Temperature

Air Temp

Turbidity (Hach)

Sky Conditions

Wind Direction

Wind Strength

SiteID: WMI-02-0005 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18738

Water Flow Type Pool 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	Method
% Sat	75.3	%		ASTM D888-09(C)
DO	7.02	mg/L		ASTM D888-09(C)
pH (Field)	7.53	SU		EPA 150.2
Specific Conductance (Field)	667	umho/cm		SM2510B
Temperature	18.65	°C		SM2550B(2)
Turbidity (Hach)	9.12	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3087409	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	280	mg/L	1	SM2320B
Chloride	17	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360	mg/L	10	SM2540C
Sulfate	38	mg/L	25	EPA 300.0
Lab ID # 3087410	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	330	mg/L	0.66	SM2340B
Calcium (Total)	86	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3087411	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087412	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087413	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3087414	<u>Result</u>		Reporting Limit	<u>Method</u>
Lab ID # 0007414				

Thursday, July 30, 2015 Page 74 of 433

Lab ID # AA25789		Result		Reporting Limit	Method
COD		10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18738		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		14.8	MPN/100mL	1	SM9223B
SiteID: WMI-02-0005	Sample Date: 09/15/2014		IDEM Sample	#: AB19051	
Vater Flow Type Pool	Water Appearance	Murky	1	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		74.5	%		ASTM D888-09(C)
DO		_	mg/L		ASTM D888-09(C)
pH (Field)		7.69	•		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.49	°C		SM2550B(2)
Turbidity (Hach)		18.7	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105414		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		300	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
folids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		35	mg/L	25	EPA 300.0
Lab ID # 3105415		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		370	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105416		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105417		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.3	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 75 of 433

Water A _l	10/27/2014 ppearance Estimated?	8 3.8 Result 6 0.44 Result > 2419.6 770.1	mg/L mg/L mg/L mg/L MPN/100mL MPN/100mL IDEM Sample Viguatic Life?	0.05 Reporting Limit 0.5 Reporting Limit 10 0.3 Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed % Reporting Limit	SM4500P-E Method SM5310C Method EPA 410.4 SM4500N(Org)-B Method SM9223B SM9223B SM9223B SM9223B Method Method
Water A	ppearance	3.8 Result 6 0.44 Result > 2419.6 770.1 Murky Ac	mg/L mg/L MPN/100mL MPN/100mL IDEM Sample	0.5 Reporting Limit 10 0.3 Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed %	SM5310C Method EPA 410.4 SM4500N(Org)-B Method SM9223B SM9223B SM9223B
Water A	ppearance	Result 6 0.44 Result > 2419.6 770.1 Murky Acc	mg/L mg/L MPN/100mL MPN/100mL IDEM Sample	Reporting Limit 10 0.3 Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed %	Method EPA 410.4 SM4500N(Org)-B Method SM9223B SM9223B M9223B Algae? 0-20%
Water A	ppearance	6 0.44 Result > 2419.6 770.1 Murky	MPN/100mL MPN/100mL IDEM Sample	10 0.3 Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed %	EPA 410.4 SM4500N(Org)-B Method SM9223B SM9223B M9223B Algae?
Water A	ppearance	0.44 Result > 2419.6 770.1 Murky Ac	MPN/100mL MPN/100mL IDEM Sample	0.3 Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed %	SM4500N(Org)-B Method SM9223B SM9223B ✓ Algae? 0-20%
Water A	ppearance	Result > 2419.6 770.1 Murky	MPN/100mL MPN/100mL IDEM Sample	Reporting Limit 2419.6 1 #: AB19234 Vater Depth Canopy Closed %	Method SM9223B SM9223B Algae? 0-20%
Water A	ppearance	> 2419.6 770.1 Murky	MPN/100mL IDEM Sample	#: AB19234 Vater Depth Canopy Closed %	SM9223B SM9223B ✓ Algae? 0-20%
Water A	ppearance	Murky	MPN/100mL IDEM Sample	#: AB19234 Vater Depth Canopy Closed %	SM9223B ✓ Algae? 0-20%
Water A	ppearance	Murky	IDEM Sample	#: AB19234 Vater Depth Canopy Closed %	✓ Algae? 0-20%
Water A	ppearance	☐ Ac	V	Vater Depth Canopy Closed %	0-20%
		☐ Ac		Canopy Closed %	0-20%
☐ Flow I	Estimated?		uatic Life?		
		Result		Reporting Limit	Method
		Result		Reporting Limit	Wetnoa
				<u></u>	
		79.5			ASTM D888-09(C)
			mg/L		ASTM D888-09(C)
		7.72			EPA 150.2
			umho/cm		SM2510B
		11.34			SM2550B(2)
					EPA 180.1
			•		Observation
					Observation
			•		Observation
		2	Lookup		Observation
		Result		Reporting Limit	<u>Method</u>
		320	mg/L	1	SM2320B
		23	mg/L	2	EPA 300.0
		11	mg/L	10	SM2540D
		420	mg/L	10	SM2540B
		420	mg/L	10	SM2540C
		30	mg/L	5	EPA 300.0
		Result		Reporting Limit	Method
		370	mg/L	0.66	SM2340B
		96	mg/L	0.1	EPA 200.7
		31	mg/L	0.1	EPA 200.7
			4 1 18 2 Result 320 23 11 420 420 30 Result 370 96	320 mg/L 23 mg/L 11 mg/L 420 mg/L 420 mg/L 30 mg/L	4 Lookup 1 Lookup 18 Lookup 2 Lookup Result Reporting Limit 320 mg/L 1 23 mg/L 2 11 mg/L 10 420 mg/L 420 mg/L 10 30 mg/L 5 Result Reporting Limit 0 66 96 mg/L 0.1

Thursday, July 30, 2015 Page 76 of 433

Lab ID # 3130342	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130343	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.3	mg/L	0.1	EPA 353.2
Lab ID # 3130344	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E
Lab ID # 3130345	Result		Reporting Limit	<u>Method</u>
TOC	3.4	mg/L	0.5	SM5310C
Lab ID # AA31610	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19234	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	365.4	MPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 77 of 433

SiteID: WMI-02-0006 USGS Hydrologic Unit: 051201030201 Stream Name: County: Randolph Days Creek Description: **SR 28** 40 17 29.43358 Longitude: 59.87262 -85 3 Drainage: Site Number: 14T-109 17.063 SiteID: WMI-02-0006 Sample Date: 04/14/2014 IDEM Sample #: AB16200 ☐ Algae? **Water Appearance Water Depth** Water Flow Type Murky ☐ Flow Estimated? Water Flow (cf/sec): ■ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 77.3 % DO 8.08 mg/L ASTM D888-09(C) pH (Field) 7.85 SU EPA 150.2 Specific Conductance (Field) 598 umho/cm SM2510B Temperature 13.27 °C SM2550B(2) Turbidity (Hach) 27.8 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 # 3010788 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 17 mg/L 6 EPA 300.0 SM4500F(-)-C Fluoride 0.1 mg/L 0.1 Solids, Suspended Total, (TSS) 19 mg/L 10 SM2540D Solids, Total (TS) 380 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 320 mg/L 10 SM2540C Sulfate 32 mg/L 15 EPA 300.0 Lab ID # 3010789 Result **Reporting Limit Method**

Phosphorus, Total	0.17	mg/L	0.05	SM4500P-E
Lab ID # 3010792	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	7.3	mg/L	0.5	EPA 353.2
Lab ID # 3010791	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010790	<u>Result</u>		Reporting Limit	<u>Method</u>
Magnesium (Total)	27	mg/L	0.1	EPA 200.7

310 mg/L

80 mg/L

0.66

0.1

SM2340B EPA 200.7

Hardness (as CaCO3)

Calcium (Total)

Thursday, July 30, 2015 Page 78 of 433

Lab ID # 3010793		Result		Reporting Limit	<u>Method</u>
TOC		3.5	mg/L	0.5	SM5310C
Lab ID # AA14502		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.91	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16200		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1299.7	MPN/100mL	1	SM9223B
E. coli		517.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0006	Samula Data: 04/2	1/2014	IDEM Comple	#. AD16444	
Water Flow Type Pool	Sample Date: 04/2° Water Appea		IDEM Sample	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estin		uatic Life?	Canopy Closed %	_
Sampler Comments:	_ I low Estin	nateu: Ac	judiio Elie:	Carlopy Closed 70	0 20 / 0
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		90	%		ASTM D888-09(C)
DO		9.35	mg/L		ASTM D888-09(C)
pH (Field)		7.99	SU		EPA 150.2
Specific Conductance (Field)		602	umho/cm		SM2510B
Temperature		13.59	°C		SM2550B(2)
Turbidity (Hach)		16.2	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16444		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		178.9	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 79 of 433

SiteID: WMI-02-0006	Sample Date : 04/28/2014		IDEM Sample	#: AB16516	
Water Flow Type Glide	Water Appearance	Brown	1	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		81.4	%		ASTM D888-09(C)
DO		8.79	mg/L		ASTM D888-09(C)
pH (Field)		7.78	SU		EPA 150.2
Specific Conductance (Field)		586	umho/cm		SM2510B
Temperature		11.75	°C		SM2550B(2)
Turbidity (Hach)		64.4	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16516		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		24196	MPN/100mL	10	SM9223B
					0110000
E. coli SiteID: WMI-02-0006	Sample Date: 05/05/2014	1607	MPN/100mL IDEM Sample	10 #: AB16835	SM9223B
SiteID: WMI-02-0006	Sample Date: 05/05/2014 Water Appearance	1607 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-02-0006 Water Flow Type Pool	•	Murky	IDEM Sample	#: AB16835	✓ Algae?
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16835 Water Depth	✓ Algae?
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16835 Water Depth	✓ Algae?
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample \ uatic Life?	#: AB16835 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Acc Result 87.4	IDEM Sample \ uatic Life?	#: AB16835 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Acc Result 87.4	IDEM Sample Juatic Life? % mg/L	#: AB16835 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-02-0006 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Murky Result 87.4 9.42 7.72	IDEM Sample Juatic Life? % mg/L	#: AB16835 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0006 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Murky Result 87.4 9.42 7.72	IDEM Sample Juatic Life?	#: AB16835 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Result 87.4 9.42 7.72 598 11.81	IDEM Sample Juatic Life?	#: AB16835 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0006 Water Flow Type Pool Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Murky Result 87.4 9.42 7.72 598 11.81 34.4	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16835 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0006 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 87.4 9.42 7.72 598 11.81 34.4 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16835 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: WMI-02-0006 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Murky Result 87.4 9.42 7.72 598 11.81 34.4 3 2	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16835 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: WMI-02-0006 Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Murky Result 87.4 9.42 7.72 598 11.81 34.4 3 2 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16835 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: WMI-02-0006 Water Flow Type Pool 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	Murky Result 87.4 9.42 7.72 598 11.81 34.4 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16835 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: WMI-02-0006 Water Flow Type Pool 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	Murky Result 87.4 9.42 7.72 598 11.81 34.4 3 2 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16835 Nater 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

Thursday, July 30, 2015 Page 80 of 433

SiteID: WMI-02-0006	Sample Date: 05/12/2014	IDEM Samp	ple #: AB16968	
Vater Flow Type Glide	Water Appearance Brow	n	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	<u>Resul</u>	<u>t</u>	Reporting Limit	<u>Method</u>
% Sat	74	.4 %		ASTM D888-09(C)
DO	7.1	1 mg/L		ASTM D888-09(C)
pH (Field)	7.3	9 SU		EPA 150.2
Specific Conductance (Field)	39	6 umho/cm		SM2510B
Temperature	17.5	2°C		SM2550B(2)
Turbidity (Hach)	29	2 NTU		EPA 180.1
Air Temp		5 Lookup		Observation
Sky Conditions		4 Lookup		Observation
Wind Direction	2	7 Lookup		Observation
Wind Strength		2 Lookup		Observation
Lab ID # 3026821	Resul	<u>t</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	11	0 mg/L	1	SM2320B
Chloride	1	9 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	Ş	00 mg/L	10	SM2540D
Solids, Total (TS)	45	i0 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	32	0 mg/L	10	SM2540C
Sulfate	2	.0 mg/L	5	EPA 300.0
Lab ID # 3026822	Resul	<u>t</u>	Reporting Limit	Method
Hardness (as CaCO3)	19	00 mg/L	0.66	SM2340B
Calcium (Total)	4	7 mg/L	0.1	EPA 200.7
Magnesium (Total)	1	7 mg/L	0.1	EPA 200.7
Lab ID # 3026823	Resul	<u>t</u>	Reporting Limit	Method
Nitrogen, Ammonia	0	.2 mg/L	0.1	SM4500NH3-D
Lab ID # 3026824	Resul	<u>t</u>	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5 mg/L	0.1	EPA 353.2
Lab ID # 3026825	Resul	<u>t</u>	Reporting Limit	Method
Phosphorus, Total	0.7	'3 mg/L	0.05	SM4500P-E
Lab ID # 3026826	Resul	<u>t</u>	Reporting Limit	Method
TOC	1	2 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 81 of 433

Lab ID # AA17810		<u>Result</u>		Reporting Limit	Method
COD		49	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16968a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		4352	MPN/100mL	10	SM9223B
SiteID: WMI-02-0006	Sample Date: 06/09/2014		IDEM Sample	#: AB17375	
Nater Flow Type Glide	Water Appearance	Brown	W	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	Method
% Sat		76.2	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.44	•		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		17.67	°C		SM2550B(2)
Turbidity (Hach)		167	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042420		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		15	mg/L	5	EPA 300.0
Lab ID # 3042421		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		18	mg/L	0.1	EPA 200.7
Lab ID # 3042422		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
		D 14		Donorting Limit	<u>Method</u>
Lab ID # 3042423		Result		Reporting Limit	<u>ivieti iou</u>

Thursday, July 30, 2015 Page 82 of 433

Lab ID # 3042424		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.38	mg/L	0.05	SM4500P-E
Lab ID # 3042425		Result		Reporting Limit	<u>Method</u>
TOC		6.6	mg/L	0.5	SM5310C
Lab ID # AA20583		Result		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN		0.86	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17375		<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli		1413.6	MPN/100mL	1	SM9223B
Lab ID # AB17375a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0006 Water Flow Type Run	Sample Date: 07/07/2014 Water Appearance	Murky	IDEM Sample :	#: AB17549 /ater Depth	✓ Algae?
Water Flow (cf/sec):	Flow Estimated?	Δ.	ustic Life?	Canony Closed %	0-20%
	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
	☐ Flow Estimated?	Result	juatic Life?	Canopy Closed % Reporting Limit	0-20% <u>Method</u>
Sampler Comments:	☐ Flow Estimated?				<u>Method</u>
Sampler Comments:	☐ Flow Estimated?	Result			
Sampler Comments: Lab ID # % Sat	☐ Flow Estimated?	Result	% mg/L		Method ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO	☐ Flow Estimated?	Result 127.9 11.6 8.03	% mg/L		Method ASTM D888-09(C) ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO pH (Field)	☐ Flow Estimated?	Result 127.9 11.6 8.03	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Sampler Comments: Lab ID # % Sat	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Sampler Comments: Lab ID # % Sat	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79	% mg/L SU umho/cm °C		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4	% 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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	127.9 11.6 8.03 646 20.09 8.79 4	% 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 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060582	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060582 Alkalinity (as CaCO3)	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 27 2 Result 270 19	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	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 Observation SM2520B
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060582 Alkalinity (as CaCO3) Chloride	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 4 27 2 Result 270 19 <10	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Smethod SM2320B EPA 300.0
Sampler Comments: We Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060582 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	☐ Flow Estimated?	Result 127.9 11.6 8.03 646 20.09 8.79 4 4 27 2 Result 270 19 <10 390 360	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 83 of 433

Lab ID # 3060583		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3060584		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060585		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		2	mg/L	0.1	EPA 353.2
Lab ID # 3060586		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.07	mg/L	0.05	SM4500P-E
Lab ID # 3060587		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		3	mg/L	0.5	SM5310C
Lab ID # AA22928		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17549		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		172.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0006	Sample Date: 08/05/2014		IDEM Sample	#: AB18392	
Water Flow Type Glide	Water Appearance	Murky	•	later 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		51.5	%		SM4500-OG
DO		5.04	mg/L		SM4500-OG

b ID #	Result	Reporting	<u>Limit</u> <u>Method</u>
% Sat	51.5 %	6	SM4500-OG
DO	5.04 m	ng/L	SM4500-OG
pH (Field)	7.68 S	SU	EPA 150.2
Specific Conductance (Field)	592 u	mho/cm	SM2510B
Temperature	20.87 °C	С	SM2550B(2)
Turbidity (Hach)	12.2 N	ITU	EPA 180.1
Air Temp	5 L	ookup	Observation
Sky Conditions	4 L	ookup	Observation
Wind Direction	27 L	ookup	Observation
Wind Strength	1 L	ookup	Observation

Thursday, July 30, 2015 Page 84 of 433

SiteID: WMI-02-0006 **Sample Date:** 08/18/2014 **IDEM Sample #**: AB18739

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	Method
0/ 0-4		0/		
% Sat	64			ASTM D888-09(C)
DO		mg/L		ASTM D888-09(C)
pH (Field)	7.57			EPA 150.2
Specific Conductance (Field)		umho/cm		SM2510B
Temperature	19.57			SM2550B(2)
Turbidity (Hach)		NTU		EPA 180.1
Air Temp		Lookup		Observation
Sky Conditions		Lookup		Observation
Wind Direction		Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3087417	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	270	mg/L	1	SM2320B
Chloride	20	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	40	mg/L	25	EPA 300.0
Lab ID # 3087418	Result		Reporting Limit	Method
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	77	mg/L	0.1	EPA 200.7
Magnesium (Total)	29	mg/L	0.1	EPA 200.7
Lab ID # 3087419	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087420	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3087421	Result		Reporting Limit	Method
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E
Lab ID # 3087422	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 85 of 433

Lab ID # AA25790		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		13	mg/L	10	EPA 410.4
TKN		7.7	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18739		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		106.7	MPN/100mL	1	SM9223B
SiteID: WMI-02-0006	Sample Date: 09/15/2014		IDEM Sample	#: AB19052	
Vater Flow Type Pool	Water Appearance	Murky	W	Vater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		90	%		ASTM D888-09(C)
DO		9.33	mg/L		ASTM D888-09(C)
pH (Field)		7.89	SU		EPA 150.2
Specific Conductance (Field)		676	umho/cm		SM2510B
Temperature		13.88	°C		SM2550B(2)
Turbidity (Hach)		9.56	NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # 3105422		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		35	mg/L	25	EPA 300.0
Lab ID # 3105423		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		27	mg/L	0.1	EPA 200.7
Lab ID # 3105424		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
		Result		Reporting Limit	<u>Method</u>
Lab ID # 3105425		Kesun		rtoporting Limit	

Thursday, July 30, 2015 Page 86 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105426

Lab 10 # 3103420		Result		Reporting Limit	<u>ivieti iou</u>
Phosphorus, Total		0.13	mg/L	0.05	SM4500P-E
Lab ID # 3105427		Result		Reporting Limit	Method
TOC		4.6	mg/L	0.5	SM5310C
Lab ID # AA28036		Result		Reporting Limit	Method
COD		13	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19052		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		365.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0006	Sample Date: 10/27/2014		IDEM Sample	#: AB19235	
Nater Flow Type Pool	Water Appearance	Clear	_	ater 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	·	127	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		8.02			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		12.37			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions Wind Direction			Lookup		Observation
		10	Lookup		
Wind Strength			Lookup		Observation Observation
Wind Strength Lab ID # 3130348				Reporting Limit	
		4 <u>Result</u>		Reporting Limit	Observation
Lab ID # 3130348		4 Result 290	Lookup		Observation <u>Method</u>
Lab ID # 3130348 Alkalinity (as CaCO3) Chloride		4 Result 290 25	Lookup mg/L	1	Observation Method SM2320B
Lab ID # 3130348 Alkalinity (as CaCO3) Chloride		290 25 12	mg/L mg/L	1 2	Method SM2320B EPA 300.0
Lab ID # 3130348 Alkalinity (as CaCO3) Chloride Golids, Suspended Total, (TSS)		290 25 12 420	mg/L mg/L mg/L	1 2 10	Method SM2320B EPA 300.0 SM2540D
Lab ID # 3130348 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		290 25 12 420 400	mg/L mg/L mg/L mg/L	1 2 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		290 25 12 420 400	mg/L mg/L mg/L mg/L mg/L	1 2 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		290 25 12 420 400 37 Result	mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130349		290 25 12 420 400 37 Result	mg/L mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5 Reporting Limit	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 87 of 433

Lab ID # 3130350	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130351	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.4	mg/L	0.1	EPA 353.2
Lab ID # 3130352	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3130353	Result		Reporting Limit	<u>Method</u>
TOC	4	mg/L	0.5	SM5310C
Lab ID # AA31611	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19235	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	53.8	MPN/100mL	1	SM9223B

	Weather Code Definitions								
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp				
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32				
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45				
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60				
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75				
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85				
6 - Fog				5 - Strong	6 - > 86				
7 - Shower				6 - Gale	0 2 00				

Thursday, July 30, 2015 Page 88 of 433

SiteID: WMI-02-0007 USGS Hydrologic Unit: 051201030203 Stream Name: Mississinewa River County: Randolph Description: CR 600 W **Latitude:** 40 17 6.76540 Longitude: -85 5 33.82484 Site Number: 14T-110 Drainage: 179.063 SiteID: WMI-02-0007 Sample Date: 04/14/2014 IDEM Sample #: AB16201 ☐ Algae? Water Depth Water Flow Type Glide **Water Appearance** Murky ☐ Flow Estimated? ☐ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20%

Sampler Comments: FLOW - 217.71 cfs

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	86.7	%		ASTM D888-09(C)
DO	9.06	mg/L		ASTM D888-09(C)
pH (Field)	8.05	SU		EPA 150.2
Specific Conductance (Field)	616	umho/cm		SM2510B
Temperature	13.28	°C		SM2550B(2)
Turbidity (Hach)	31.3	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	217.71	cf/sec		ΓM D5389-95/D385
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010796	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	38	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	29	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	34	mg/L	15	EPA 300.0
Lab ID # 3010797	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	78	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010798	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010799	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	6.9	mg/L	0.1	EPA 353.2
Lab ID # 3010800	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.22	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 89 of 433

Lab ID # 3010801		Result		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA14503		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.64	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16201		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		648.8	MPN/100mL	1	SM9223B
E. coli		160.7	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 04/21/2014		IDEM Sample	#∙ AR16445	
Water Flow Type Glide	Water Appearance	Murky	•	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		106.8	%		ASTM D888-09(C)
DO		10.83	mg/L		ASTM D888-09(C)
pH (Field)		8.32	SU		EPA 150.2
Specific Conductance (Field)		652	umho/cm		SM2510B
Temperature		14.47	°C		SM2550B(2)
Turbidity (Hach)		16.1	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16445		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		115.3	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 90 of 433

SiteID: WMI-02-0007	Sample Date: 04/28/2014		IDEM Sample	#: AB16517	
Water Flow Type Glide	Water Appearance	Murky	1	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		97.2	%		ASTM D888-09(C)
DO		10.19	mg/L		ASTM D888-09(C)
pH (Field)		8.16	SU		EPA 150.2
Specific Conductance (Field)		629	umho/cm		SM2510B
Temperature		13.15	°C		SM2550B(2)
Turbidity (Hach)		26.7	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16517		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli SiteID: WMI-02-0007	Sample Date: 05/05/2014	325.5	MPN/100mL IDEM Sample	1 #: AB16836	SM9223B
SiteID: WMI-02-0007	Sample Date: 05/05/2014 Water Appearance	325.5 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-02-0007 \$	•	Murky	IDEM Sample	#: AB16836	✓ Algae?
SiteID: WMI-02-0007	Water Appearance	Murky	IDEM Sample	#: AB16836 Water Depth	✓ Algae?
SiteID: WMI-02-0007 S Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16836 Water Depth	✓ Algae?
SiteID: WMI-02-0007 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample \ Juatic Life?	#: AB16836 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0007 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky Ac Result 113.4 11.98	IDEM Sample Juatic Life? % mg/L	#: AB16836 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0007 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Acc Result	IDEM Sample Juatic Life? % mg/L	#: AB16836 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0007 SWater Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Result 113.4 11.98 8.27	IDEM Sample Juatic Life? % mg/L	#: AB16836 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0007 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Murky Result 113.4 11.98 8.27	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16836 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0007 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Result 113.4 11.98 8.27 638 12.82	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16836 Water Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0007 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 113.4 11.98 8.27 638 12.82 14.3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16836 Water Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0007 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Murky Result 113.4 11.98 8.27 638 12.82 14.3 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16836 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-02-0007 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	Murky Result 113.4 11.98 8.27 638 12.82 14.3 3 2	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16836 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: WMI-02-0007 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	Murky Result 113.4 11.98 8.27 638 12.82 14.3 3 2 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16836 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: WMI-02-0007 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	Murky Result 113.4 11.98 8.27 638 12.82 14.3 3 2 27	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16836 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
SiteID: WMI-02-0007 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	Murky Result 113.4 11.98 8.27 638 12.82 14.3 3 2 27 1 Result	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16836 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

Thursday, July 30, 2015 Page 91 of 433

SiteID: WMI-02-0007	Sample Date: 05/12/2014		IDEM Samp	ole #: AB16969	
Vater Flow Type Run	Water Appearance	Brown		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	✓ Aqı	uatic Life?	Canopy Closed %	0-20%
ampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		78.2	%		ASTM D888-09(C)
DO		7.09	mg/L		ASTM D888-09(C)
pH (Field)		7.86	SU		EPA 150.2
Specific Conductance (Field)		630	umho/cm		SM2510B
Temperature		20	°C		SM2550B(2)
Turbidity (Hach)		39.8	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		225	cf/sec		TM D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3026871		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		24	mg/L	10	EPA 300.0
olids, Suspended Total, (TSS)		49	mg/L	10	SM2540D
Solids, Total (TS)		410	-	10	SM2540B
Solids, Total Dissolved (TDS)		350		10	SM2540C
Sulfate			mg/L	25	EPA 300.0
Lab ID # 3026874		Result		Reporting Limit	Method
Hardness (as CaCO3)		300	mg/L	0.66	SM2340B
Calcium (Total)		70	mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3026875		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3026878		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5.8	mg/L	1	EPA 353.2
_ab ID # 3026881		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.21	mg/L	0.05	SM4500P-E
Lab ID # 3026884		Result		Reporting Limit	Method
TOC		4	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 92 of 433

Lab ID # AA17812		Result		Reporting Limit	Method
COD		8	mg/L	10	EPA 410.4
TKN		1.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16969		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1413.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 06/09/2014		IDEM Sample	#: AB17363	
Water Flow Type Run	Water Appearance	Brown	W	ater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.4	%		ASTM D888-09(C)
DO		7.69	mg/L		ASTM D888-09(C)
pH (Field)		7.57	SU		EPA 150.2
Specific Conductance (Field)		269	umho/cm		SM2510B
Temperature		17.91	°C		SM2550B(2)
Turbidity (Hach)		222	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		444.79	cf/sec		ΓM D5389-95/D3858
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042428		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		140	mg/L	1	SM2320B
Chloride		18	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	5	EPA 300.0
Lab ID # 3042429		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		60	mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042430		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 93 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3042431

Nitrogen, Nitrate+Nitrite			16	mg/L	1	EPA 353.2
Lab ID # 3042432			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.42	mg/L	0.05	SM4500P-E
Lab ID # 3042433			<u>Result</u>		Reporting Limit	Method
TOC			7.1	mg/L	0.5	SM5310C
Lab ID # AA20584			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			21	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17363a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
E. coli			4106	MPN/100mL	10	SM9223B
SiteID: WMI-02-0007	Sample Date:	07/07/2014		IDEM Sample	# ∙ AB17537	
Water Flow Type Run	-	Appearance	Murky	-	/ater Depth	✓ Algae?
Water Flow (cf/sec):	□ Flow	v Estimated?	√ ∧₀	uatic Life?	Canopy Closed %	0.209/
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
Lab ID #			Result 96.7	%	Reporting Limit	Method ASTM D888-09(C)
			96.7	% mg/L	Reporting Limit	
% Sat			96.7	mg/L	Reporting Limit	ASTM D888-09(C)
% Sat DO			96.7 8.76 8.14	mg/L	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
% Sat DO pH (Field)			96.7 8.76 8.14	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
% Sat DO pH (Field) Specific Conductance (Field)			96.7 8.76 8.14 703 20.13	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
% Sat DO pH (Field) Specific Conductance (Field) Temperature			96.7 8.76 8.14 703 20.13 19.6	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)			96.7 8.76 8.14 703 20.13 19.6	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp			96.7 8.76 8.14 703 20.13 19.6 4 44.47	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow			96.7 8.76 8.14 703 20.13 19.6 4 44.47	mg/L SU umho/cm °C NTU Lookup cf/sec	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060590 Alkalinity (as CaCO3)			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4 27 2 Result	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060590 Alkalinity (as CaCO3) Chloride			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4 27 2 2 Result	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 2	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060590 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4 27 2 Result	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060590 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4 27 2 2 Result	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060590 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)			96.7 8.76 8.14 703 20.13 19.6 4 44.47 4 27 2 Result 290 25 12 440 400	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 94 of 433

Lab ID # 3060591		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		360	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3060592		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060593		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3.1	mg/L	0.1	EPA 353.2
Lab ID # 3060594		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.15	mg/L	0.05	SM4500P-E
Lab ID # 3060595		Result		Reporting Limit	<u>Method</u>
TOC		3.1	mg/L	0.5	SM5310C
Lab ID # AA22929		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.34	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17537		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		166.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 08/06/2014		IDEM Sample	#: AB18391	
Water Flow Type Run	Water Appearance		•	Water Depth	✓ Algae?
	☐ Flow Estimated		quatic Life?		_
Water Flow (cf/sec):		r <u>▼</u> A0	quatic Life?	Canopy Closed %	U-ZU-/0
Sampler Comments: Q6 Turk	0 = 23.5				

b ID #	Result		Reporting Limit	<u>Method</u>
% Sat	67.3	%		SM4500-OG
DO	4.73	mg/L		SM4500-OG
pH (Field)	7.87	SU		EPA 150.2
Specific Conductance (Field)	688	umho/cm		SM2510B
Temperature	22.06	°C		SM2550B(2)
Turbidity	23.5	NTU		SM2130B Mod
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	0	Lookup		Observation

Thursday, July 30, 2015 Page 95 of 433

SiteID: WMI-02-0007 **Sample Date**: 08/18/2014 **IDEM Sample #**: AB18727

Water Flow Type Glide 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	Method
% Sat	65			ASTM D888-09(C)
DO	5.71	mg/L		ASTM D888-09(C)
pH (Field)	7.67	SU		EPA 150.2
Specific Conductance (Field)	763	umho/cm		SM2510B
Temperature	21.65	°C		SM2550B(2)
Turbidity (Hach)	15.5	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	14.837	cf/sec		ΓM D5089-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
_ab ID # 3087425	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	290	mg/L	1	SM2320B
Chloride	29	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	12	mg/L	10	SM2540D
Solids, Total (TS)	460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420	mg/L	10	SM2540C
Sulfate	55	mg/L	25	EPA 300.0
_ab ID # 3087426	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340	mg/L	0.66	SM2340B
Calcium (Total)	79	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
Lab ID # 3087427	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087428	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
_ab ID # 3087429	Result		Reporting Limit	Method
Phosphorus, Total	0.2	mg/L	0.05	SM4500P-E
Lab ID # 3087430	Result		Reporting Limit	<u>Method</u>
TOC	3.5	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 96 of 433

Lab ID # AA25791		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		12	mg/L	10	EPA 410.4
TKN		0.38	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18727		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		162.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 09/15/2014		IDEM Sample	#: AB19040	
Water Flow Type Run	Water Appearance	Murky	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		80.4	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.78	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.99	°C		SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		8.8624			ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # 3105430		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		45	mg/L	25	EPA 300.0
Lab ID # 3105431		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3105432		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 97 of 433

Result

Reporting Limit

<u>Method</u>

Lab ID # 3105433

Nitrogen, Nitrate+Nitrite		1.9	mg/L	0.1	EPA 353.2
Lab ID # 3105434		Result		Reporting Limit	Method
Phosphorus, Total		0.19	mg/L	0.05	SM4500P-E
Lab ID # 3105435		Result		Reporting Limit	Method
TOC		5	mg/L	0.5	SM5310C
Lab ID # AA28037		Result		Reporting Limit	<u>Method</u>
COD		12	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19040		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	_	325.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 10/27/2014		IDEM Sample	#: AB19223	
Water Flow Type Glide	Water Appearance	Murky	_	/ater Depth	☐ Algae?
	Water Appearance	_	V	•	_
Nater Flow (cf/sec):	•	_	_	Vater Depth Canopy Closed %	_
Vater Flow (cf/sec):	Water Appearance	_	V	•	_
Nater Flow (cf/sec): Sampler Comments:	Water Appearance	_	V	•	_
Vater Flow (cf/sec): Sampler Comments:	Water Appearance	Result	V	Canopy Closed %	0-20%
Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	Wiguatic Life?	Canopy Closed %	0-20%
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Result 56 6 7.61	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 56 6 7.61	wquatic Life? % mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 56 6 7.61 789 12.11	wquatic Life? % mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 56 6 7.61 789 12.11 5.15	% 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)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 56 6 7.61 789 12.11 5.15 5 6.4208	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 56 6 7.61 789 12.11 5.15 5 6.4208	waquatic Life? % 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 56 6 7.61 789 12.11 5.15 5 6.4208	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 56 6 7.61 789 12.11 5.15 5 6.4208 3 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 56 6 7.61 789 12.11 5.15 5 6.4208 3 27	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 FM D5389-95/D3858 Observation Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130362 Alkalinity (as CaCO3)	Water Appearance	Result 56 67.61 789 12.11 5.15 5 6.4208 3 27 3 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	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 FM D5389-95/D3858 Observation Observation Observation Method SM2320B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130362 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 56 67.61 789 12.11 5.15 5 6.4208 3 27 3 Result 320 38	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130362 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 56 67.61 789 12.11 5.15 56.4208 3 27 3 Result 320 38 < 10	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10 10	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130362 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 56 67.61 789 12.11 5.15 5 6.4208 3 27 3 Result 320 38 < 10 460	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130362 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 56 67.61 789 12.11 5.15 5 6.4208 3 27 3 Result 320 38 <10 460 440	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10 10	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 98 of 433

Lab ID # 3130363		Result		Reporting Limit	Method
Hardness (as CaCO3)		350	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3130364		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130365		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		0.3	mg/L	0.1	EPA 353.2
Lab ID # 3130366		Result		Reporting Limit	Method
Phosphorus, Total		0.11	mg/L	0.05	SM4500P-E
Lab ID # 3130367		Result		Reporting Limit	Method
TOC		4.9	mg/L	0.5	SM5310C
Lab ID # AA31613		Result		Reporting Limit	<u>Method</u>
COD		6	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19223		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		152.9	MPN/100mL	1	SM9223B
SiteID: WMI-02-0007	Sample Date: 12/15/2014		IDEM Sample	e #: AB19848	
Nater Flow Type Run	Water Appearance	Clear	-	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:				,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		91.2	%		ASTM D888-09(C)
DO		11.62	mg/L		ASTM D888-09(C)
pH (Field)		8.01	SU		EPA 150.2
Specific Conductance (Field)		777	umho/cm		SM2510B
Temperature		4.8	°C		SM2550B(2)
Turbidity (Hach)		5.75	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		48.988	cf/sec		ΓM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation

Thursday, July 30, 2015 Page 99 of 433

Lab ID # 3156143	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	320	mg/L	1	SM2320B
Chloride	32	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	470	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	430	mg/L	10	SM2540C
Sulfate	48	mg/L	25	EPA 300.0
Lab ID # 3156144	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		mg/L	0.66	SM2340B
Calcium (Total)	98	mg/L	0.1	EPA 200.7
Magnesium (Total)	37	mg/L	0.1	EPA 200.7
Lab ID # 3156145	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3156146	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	4	mg/L	0.1	EPA 353.2
Lab ID # 3156147	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3156148	Result		Reporting Limit	<u>Method</u>
TOC	2.4	mg/L	0.5	SM5310C
Lab ID # 50109606003	Result		Reporting Limit	<u>Method</u>
COD	10.9	mg/L	10	EPA 410.4
TKN	< 0.5	mg/L	0.5	EPA 351.2

Thursday, July 30, 2015 Page 100 of 433

SiteID: WMI-02-0007 Sample Date: 03/16/2015 IDEM Sample #: AB20792						
Vater Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?	
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%	
ampler Comments: Flooded	condition; stream outside of bar	nks				
Lab ID #		Result		Reporting Limit	Method	
% Sat		92.5	%		ASTM D888-09(C)	
DO		11.06	mg/L		ASTM D888-09(C)	
pH (Field)		7.76	SU		EPA 150.2	
Specific Conductance (Field)		504	umho/cm		SM2510B	
Temperature		7.48	°C		SM2550B(2)	
Turbidity (Hach)		44.6	NTU		EPA 180.1	
Air Temp		3	Lookup		Observation	
Flow		464.16			ΓM D5389-95/D3858	
Sky Conditions		2	Lookup		Observation	
Wind Direction			Lookup		Observation	
Wind Strength			Lookup		Observation	
_ab ID # 3208920		Result		Reporting Limit	<u>Method</u>	
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B	
Chloride		20	mg/L	6	EPA 300.0	
olids, Suspended Total, (TSS)			mg/L	10	SM2540D	
Solids, Total (TS)			mg/L	10	SM2540B	
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C	
Sulfate			mg/L	15	EPA 300.0	
_ab ID # 3208921		Result		Reporting Limit	<u>Method</u>	
Hardness (as CaCO3)		250	mg/L	0.66	SM2340B	
Calcium (Total)		63	mg/L	0.1	EPA 200.7	
Magnesium (Total)			mg/L	0.1	EPA 200.7	
.ab ID # 3208922		Result		Reporting Limit	<u>Method</u>	
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D	
Lab ID # 3208923		Result		Reporting Limit	<u>Method</u>	
Nitrogen, Nitrate+Nitrite		6.4	mg/L	0.1	EPA 353.2	
.ab ID # 3208924		Result		Reporting Limit	<u>Method</u>	
Phosphorus, Total		0.32	mg/L	0.05	SM4500P-E	
_ab ID # 3208925		Result		Reporting Limit	<u>Method</u>	
TOC		5.6	mg/L	0.5	SM5310C	

Thursday, July 30, 2015 Page 101 of 433

Lab ID # 50114905002	Result	Reporting Limit	<u>Method</u>	
COD	< 10 mg/L	10	EPA 410.4	
TKN	0.85 mg/L	0.5	EPA 351.2	

	Weather Code Definitions							
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				

Thursday, July 30, 2015 Page 102 of 433

SiteID:WMI-02-0009USGS Hydrologic Unit:051201030204Stream Name:Bush CreekCounty:Randolph

Description: CR 750 N **Latitude:** 40 16 17.70312 **Longitude:** -85 8 42.17699

Drainage: 19.939 **Site Number:** 14T-112

SiteID: WMI-02-0009 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16168

Water Flow Type Glide Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 15.5193 cfs

Lab ID #	Result		Reporting Limit	Method
% Sat	105.1	%		ASTM D888-09(C)
DO	10.97	mg/L		ASTM D888-09(C)
pH (Field)	8.13	SU		EPA 150.2
Specific Conductance (Field)	597	umho/cm		SM2510B
Temperature	13.36	°C		SM2550B(2)
Turbidity (Hach)	18.3	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Flow	15.5193	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010804	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	22	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	10	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	38	mg/L	15	EPA 300.0
Lab ID # 3010805	Result		Reporting Limit	Method
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	71	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010806	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010807	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.1	mg/L	0.1	EPA 353.2
Lab ID # 3010808	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.18	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 103 of 433

Lab ID # 3010809		Result		Reporting Limit	<u>Method</u>
TOC		4.3	mg/L	0.5	SM5310C
Lab ID # AA14504		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.66	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16168		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		1299.7	MPN/100mL	1	SM9223B
E. coli		325.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0009	Sample Date: 04/21/2014		IDEM Sample	#∙ AR16412	
Nater Flow Type Glide	Water Appearance	Murky	•	Vater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		184.7	%		ASTM D888-09(C)
DO		19.58	mg/L		ASTM D888-09(C)
pH (Field)		8.65	SU		EPA 150.2
Specific Conductance (Field)		616	umho/cm		SM2510B
Temperature		15.09	°C		SM2550B(2)
Turbidity (Hach)		7.29	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16412		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		59.1	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 104 of 433

SiteID: WMI-02-0009	Sample Date:	04/28/2014		IDEM Sample	#: AB16484	
Water Flow Type Glide	Water A	ppearance	Murky	,	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow	Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID#			Result		Reporting Limit	<u>Method</u>
% Sat			106.5	%		ASTM D888-09(C)
DO			11.51	mg/L		ASTM D888-09(C)
pH (Field)			8.16	SU		EPA 150.2
Specific Conductance (Field)			630	umho/cm		SM2510B
Temperature			11.84	°C		SM2550B(2)
Turbidity (Hach)			20.6	NTU		EPA 180.1
Air Temp			3	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction			9	Lookup		Observation
Wind Strength			3	Lookup		Observation
Lab ID # AB16484			Result		Reporting Limit	Method
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
				MDN1/400 1		OMOCOOD
E. coli SiteID: WMI-02-0009	Sample Date:	05/05/2014	1119.9	MPN/100mL IDEM Sample	1 •#: AB16803	SM9223B
SiteID: WMI-02-0009	•	05/05/2014 Appearance	1119.9 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-02-0009 Water Flow Type Glide	Water A		Clear	IDEM Sample	e#: AB16803	✓ Algae?
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec):	Water A	Appearance	Clear	IDEM Sample	e#: AB16803 Water Depth	✓ Algae?
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec):	Water A	Appearance	Clear	IDEM Sample	e#: AB16803 Water Depth	✓ Algae?
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water A	Appearance	Clear ✔ Aq	IDEM Sample	e #: AB16803 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water A	Appearance	Clear ✓ Aq Result	IDEM Sample quatic Life?	e #: AB16803 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water A	Appearance	Clear ✓ Aq Result	IDEM Sample quatic Life? % mg/L	e #: AB16803 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-02-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water A	Appearance	Clear Result 155.4 16.46 8.27	IDEM Sample quatic Life? % mg/L	e #: AB16803 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water A	Appearance	Clear Result 155.4 16.46 8.27	Muatic Life? % mg/L SU umho/cm	e #: AB16803 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water A	Appearance	Clear Result 155.4 16.46 8.27 652 12.78	Muatic Life? % mg/L SU umho/cm	e #: AB16803 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water A	Appearance	Clear Result 155.4 16.46 8.27 652 12.78 4.43	## Minute of the control of the cont	e #: AB16803 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water A	Appearance	Clear Result 155.4 16.46 8.27 652 12.78 4.43 3	IDEM Sample guatic Life? % mg/L SU umho/cm °C NTU	e #: AB16803 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-02-0009 Nater Flow Type Glide 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 155.4 16.46 8.27 652 12.78 4.43 3 2	Muatic Life? % mg/L SU umho/cm °C NTU Lookup	e #: AB16803 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: WMI-02-0009 Nater Flow Type Glide 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 155.4 16.46 8.27 652 12.78 4.43 3 2 27	"We will be solved by the second by the second by the second be second by the second b	e #: AB16803 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: WMI-02-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water A	Appearance	Clear Result 155.4 16.46 8.27 652 12.78 4.43 3 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AB16803 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: WMI-02-0009 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 A	Appearance	Clear Result 155.4 16.46 8.27 652 12.78 4.43 3 2 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup	e #: AB16803 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

Thursday, July 30, 2015 Page 105 of 433

SiteID: WMI-02-0009 **Sample Date**: 05/12/2014 **IDEM Sample #**: AB16936

Water Flow Type Glide 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>resuit</u>	reporting Limit	<u>Method</u>
% Sat 118.8	%	ASTM D888-09(C)
DO 10.6	mg/L	ASTM D888-09(C)
pH (Field) 7.88	SU	EPA 150.2
Specific Conductance (Field) 634	umho/cm	SM2510B
Temperature 20.89	°C	SM2550B(2)
Turbidity (Hach) 28.7	NTU	EPA 180.1
Air Temp 5	Lookup	Observation
Flow 8.5895	cf/sec	ΓM D5389-95/D3858
Sky Conditions 3	Lookup	Observation
Wind Direction 27	Lookup	Observation
Wind Strength 1	Lookup	Observation
Result	Reporting Limit	Method
Alkalinity (as CaCO3) 230	mg/L 1	SM2320B
Chloride 28	mg/L 10	EPA 300.0
Solids, Suspended Total, (TSS) 17	mg/L 10	SM2540D
	mg/L 10	SM2540B
Solids, Total Dissolved (TDS) 350	mg/L 10	SM2540C
Sulfate 42	mg/L 25	EPA 300.0
Lab ID # 3026968 Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3) 310	mg/L 0.66	SM2340B
Calcium (Total) 71	mg/L 0.1	EPA 200.7
Magnesium (Total) 32	mg/L 0.1	EPA 200.7
Lab ID # 3026969 Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia 0.2	mg/L 0.1	SM4500NH3-D
Lab ID # 3026970 Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite 6.5	mg/L 0.1	EPA 353.2
_ab ID # 3026971 Result	Reporting Limit	<u>Method</u>
Phosphorus, Total 0.34	mg/L 0.05	SM4500P-E
Lab ID # 3026972 Result	Reporting Limit	<u>Method</u>
TOC 6.4	mg/L 0.5	SM5310C

Thursday, July 30, 2015 Page 106 of 433

Lab ID # AA17813		Result		Reporting Limit	<u>Method</u>
COD		23	mg/L	10	EPA 410.4
TKN		1.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16936		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		727	MPN/100mL	1	SM9223B
SiteID: WMI-02-0009	Sample Date: 06/09/2014		IDEM Sample	#: AB17364	
Water Flow Type Glide	Water Appearance	Brown	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		89.2	%		ASTM D888-09(C)
DO		8.49	mg/L		ASTM D888-09(C)
pH (Field)		7.55	SU		EPA 150.2
Specific Conductance (Field)		492	umho/cm		SM2510B
Temperature		17.56	°C		SM2550B(2)
Turbidity (Hach)		91.2	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		26.7082	cf/sec		ΓM D5389-95/D3858
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042436		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		160	mg/L	1	SM2320B
Chloride		16	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)		43	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		310	mg/L	10	SM2540C
Sulfate		20	mg/L	5	EPA 300.0
Lab ID # 3042437		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		230	mg/L	0.66	SM2340B
Calcium (Total)		58	mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042438		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.4	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 107 of 433

Lab ID # 3042439		Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		11 mg/L	1	EPA 353.2
Lab ID # 3042440		Result	Reporting Limit	Method
Phosphorus, Total		0.32 mg/L	0.05	SM4500P-E
Lab ID # 3042441		Result	Reporting Limit	<u>Method</u>
TOC		7.3 mg/L	0.5	SM5310C
Lab ID # AA20585		Result	Reporting Limit	<u>Method</u>
COD		16 mg/L	10	EPA 410.4
TKN		1.6 mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17364		Result	Reporting Limit	<u>Method</u>
E. coli		1553.1 MPN/10	00mL 1	SM9223B
Lab ID # AB17364a		Result	Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196 MPN/10	00mL 24196	SM9223B
SiteID: WMI-02-0009	Sample Date: 07/07/2014	IDEM S	Sample #: AB17538	
	•		•	
Water Flow Type Run	Water Appearance	Murky	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	Aquatic Li	fe? Canopy Closed %	0-20%

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	98.3	%		ASTM D888-09(C)
DO	8.92	mg/L		ASTM D888-09(C)
pH (Field)	8.15	SU		EPA 150.2
Specific Conductance (Field)	743	umho/cm		SM2510B
Temperature	20.02	°C		SM2550B(2)
Turbidity (Hach)	4.63	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	1.5767	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 108 of 433

Lab ID # 3060598	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	310	mg/L	1	SM2320B
Chloride		mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440	mg/L	10	SM2540C
Sulfate	64	mg/L	5	EPA 300.0
Lab ID # 3060599	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	380	mg/L	0.66	SM2340B
Calcium (Total)	82	mg/L	0.1	EPA 200.7
Magnesium (Total)	41	mg/L	0.1	EPA 200.7
Lab ID # 3060600	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060601	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.5	mg/L	0.1	EPA 353.2
Lab ID # 3060602	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3060603	Result		Reporting Limit	<u>Method</u>
TOC	3.2	mg/L	0.5	SM5310C
Lab ID # AA22930	Result		Reporting Limit	Method
COD	< 10	mg/L	10	EPA 410.4
TKN	0.33	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17538	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	184.2	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 109 of 433

SiteID: WMI-02-0009 **Sample Date**: 08/05/2014 **IDEM Sample #**: AB18390

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

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

Sampler Comments: Q6 TURB = 38.7

ab ID #	Result	Reporting Limi	it <u>Method</u>
% Sat	65.3 %		SM4500-OG
DO	5.3 m	ng/L	SM4500-OG
pH (Field)	8.15 S	U	EPA 150.2
Specific Conductance (Field)	704 ur	mho/cm	SM2510B
Temperature	21.24 °C		SM2550B(2)
Turbidity (Hach)	23.4 N	TU	EPA 180.1
Air Temp	5 Lo	ookup	Observation
Sky Conditions	4 Lo	ookup	Observation
Wind Direction	27 Lo	ookup	Observation
Wind Strength	0 Lo	ookup	Observation

SiteID: WMI-02-0009 **Sample Date:** 08/18/2014 **IDEM Sample #:** AB18728

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	81.3	%		ASTM D888-09(C)
DO	7.44	mg/L		ASTM D888-09(C)
pH (Field)	8.02	SU		EPA 150.2
Specific Conductance (Field)	790	umho/cm		SM2510B
Temperature	19.53	°C		SM2550B(2)
Turbidity (Hach)	3.47	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	0.1921	cf/sec		ΓM D5089-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
_ab ID # 3087433	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	310	mg/L	1	SM2320B
Chloride	21	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	480	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460	mg/L	10	SM2540C
Sulfate	77	mg/L	25	EPA 300.0

Thursday, July 30, 2015 Page 110 of 433

Lab ID # 3087436		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		370	mg/L	0.66	SM2340B
Calcium (Total)		75	mg/L	0.1	EPA 200.7
Magnesium (Total)		44	mg/L	0.1	EPA 200.7
Lab ID # 3087437		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087440		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087443		Result		Reporting Limit	Method
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3087446		Result		Reporting Limit	Method
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA25792		Result		Reporting Limit	Method
COD		8	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18728		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		436	MPN/100mL	1	SM9223B
SitalD: WMI-02-0009	Sample Date: 09/15/2014		IDEM Sample #	- ΔB19041	
	Sample Date: 09/15/2014 Water Appearance	Murky	IDEM Sample #	: AB19041	☐ Algae?
Nater Flow Type Pool	Water Appearance		Wa	ater Depth	_
Vater Flow Type Pool Vater Flow (cf/sec):	-		-		_
Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments:	Water Appearance		Wa	ater Depth	_
Vater Flow Type Pool Vater Flow (cf/sec): sampler Comments:	Water Appearance	Ac	Watic Life?	ater Depth Canopy Closed %	0-20%
later Flow Type Pool later Flow (cf/sec): ampler Comments: ab ID #	Water Appearance	Result	Watic Life?	ater Depth Canopy Closed %	0-20%
later Flow Type Pool later Flow (cf/sec): ampler Comments: Lab ID # % Sat	Water Appearance	Result	Watic Life? % mg/L	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
later Flow Type Pool later Flow (cf/sec): ampler Comments: ab ID # % Sat DO	Water Appearance	Result 89.2 9.2 7.92	Watic Life? % mg/L	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
/ater Flow Type Pool /ater Flow (cf/sec): ampler Comments: _ab ID # % Sat	Water Appearance	Result 89.2 9.2 7.92	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
/ater Flow Type Pool /ater Flow (cf/sec): ampler Comments: _ab ID # % Sat	Water Appearance	Result 89.2 9.2 7.92 728 13.85	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 Pool Vater Flow (cf/sec): ampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 89.2 9.2 7.92 728 13.85 8.65	% 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 Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 89.2 9.2 7.92 728 13.85 8.65	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
Vater Flow Type Pool Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 89.2 9.2 7.92 728 13.85 8.65 4 0.0033	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
Nater Flow Type Pool Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 89.2 9.2 7.92 728 13.85 8.65 4 0.0033	% mg/L SU umho/cm °C NTU Lookup cf/sec	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 TM D5389-95/D3858

Thursday, July 30, 2015 Page 111 of 433

Lab ID # 3105438	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	280 r	mg/L	1	SM2320B
Chloride	26 r	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10 r	mg/L	10	SM2540D
Solids, Total (TS)	390 r	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 r	mg/L	10	SM2540C
Sulfate	55 r	mg/L	25	EPA 300.0
Lab ID # 3105439	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340 r	mg/L	0.66	SM2340B
Calcium (Total)	81 r	mg/L	0.1	EPA 200.7
Magnesium (Total)	34 r	mg/L	0.1	EPA 200.7
Lab ID # 3105440	<u>Result</u>		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1 r	mg/L	0.1	SM4500NH3-D
Lab ID # 3105441	<u>Result</u>		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.6 r	mg/L	0.1	EPA 353.2
Lab ID # 3105442	<u>Result</u>		Reporting Limit	Method
Phosphorus, Total	0.12 r	mg/L	0.05	SM4500P-E
Lab ID # 3105443	<u>Result</u>		Reporting Limit	Method
TOC	6.1 r	mg/L	0.5	SM5310C
Lab ID # AA28038	<u>Result</u>		Reporting Limit	Method
COD	14 r	mg/L	10	EPA 410.4
TKN	0.5 r	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19041	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	365.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 112 of 433

SiteID: WMI-02-0009 **Sample Date**: 10/27/2014 **IDEM Sample #**: AB19224

Water Flow Type Glide 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	75.4	%		ASTM D888-09(C)
DO	8.25	mg/L		ASTM D888-09(C)
pH (Field)	7.54	SU		EPA 150.2
Specific Conductance (Field)	839	umho/cm		SM2510B
Temperature	11.15	°C		SM2550B(2)
Turbidity (Hach)	2.99	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	1.21	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	3	Lookup		Observation
_ab ID # 3130378	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	340	mg/L	1	SM2320B
Chloride	34	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	500	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	470	mg/L	10	SM2540C
Sulfate	67	mg/L	25	EPA 300.0
_ab ID # 3130381	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	390	mg/L	0.66	SM2340B
Calcium (Total)	89	mg/L	0.1	EPA 200.7
Magnesium (Total)	42	mg/L	0.1	EPA 200.7
_ab ID # 3130382	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
_ab ID # 3130385	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
_ab ID # 3130388	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
_ab ID # 3130391	Result		Reporting Limit	<u>Method</u>
		mg/L	0.5	

Thursday, July 30, 2015 Page 113 of 433

Lab ID # AA31615		Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19224		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	1	SM9223B
E. coli		93.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0009	Sample Date: 12/15/2014		IDEM Sample	#: AB19847	
Water Flow Type Glide	Water Appearance	Clear	W	ater 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		92			ASTM D888-09(C)
DO		11.86	-		ASTM D888-09(C)
pH (Field)		8.08	SU		EPA 150.2
Specific Conductance (Field)		788	umho/cm		SM2510B
Temperature		4.55	°C		SM2550B(2)
Turbidity (Hach)		5.08	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		5.8024	cf/sec		TM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3156135		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		59	mg/L	25	EPA 300.0
Lab ID # 3156136		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		40	mg/L	0.1	EPA 200.7
Lab ID # 3156137		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 114 of 433

Lab ID # 3156138		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.4	mg/L	0.1	EPA 353.2
Lab ID # 3156139		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3156140		Result		Reporting Limit	<u>Method</u>
TOC		3.1	mg/L	0.5	SM5310C
Lab ID # 50109606002		Result		Reporting Limit	<u>Method</u>
COD TKN			mg/L mg/L	10 0.5	EPA 410.4 EPA 351.2
SiteID: WMI-02-0009	Sample Date: 01/20/2015		IDEM Samp	le #: AB20318	
Water Flow Type Other	Water Appearance	Murky		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments: Mostly Fr	rozen				
Lab ID #		Result		Reporting Limit	<u>Method</u>
Lab ID # % Sat		Result 88.3	%	Reporting Limit	Method ASTM D888-09(C)
				Reporting Limit	
% Sat		88.3	mg/L	Reporting Limit	ASTM D888-09(C)
% Sat DO		88.3 12.76 7.52	mg/L	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
% Sat DO pH (Field)		88.3 12.76 7.52	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
% Sat DO pH (Field) Specific Conductance (Field)		88.3 12.76 7.52 470 0.35	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
% Sat DO pH (Field) Specific Conductance (Field) Temperature		88.3 12.76 7.52 470 0.35 34.3	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		88.3 12.76 7.52 470 0.35 34.3	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		88.3 12.76 7.52 470 0.35 34.3 2	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		88.3 12.76 7.52 470 0.35 34.3 2 4	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		88.3 12.76 7.52 470 0.35 34.3 2 4	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280 250	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280 250	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10 10 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TDS) Sulfate		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280 250 25 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10 10 10 5	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3173760 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3173761		88.3 12.76 7.52 470 0.35 34.3 2 4 27 0 Result 170 21 13 280 250 25 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10 10 10 5 Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 115 of 433

Result

Reporting Limit

<u>Method</u>

Lab ID # 3173762

Nitrogon Ammonio		- 0 1	mg/L	0.1	SM4500NH3-D
Nitrogen, Ammonia		< ∪.1	my/∟	U. I	SIVI430UIVII3-D
Lab ID # 3173763		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.8	mg/L	0.1	EPA 353.2
Lab ID # 3173764		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.27	mg/L	0.05	SM4500P-E
Lab ID # 3173765		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		5.5	mg/L	0.5	SM5310C
Lab ID # 50111361002		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		16.6	mg/L	10	EPA 410.4
TKN		0.52	mg/L	0.5	EPA 351.2
				AB05=5:	
SiteID: WMI-02-0009	Sample Date: 03/16/2015		IDEM Samp	ole #: AB20791	
Water Flow Type Glide	Water Appearance	Murky		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Water Flow (cf/sec): Sampler Comments: Lab ID #	☐ Flow Estimated?	Result	uatic Life?	Canopy Closed % Reporting Limit	0-20% Method
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	Result 95.5	%		
Water Flow (cf/sec): Sampler Comments: Lab ID #	☐ Flow Estimated?	Result 95.5			<u>Method</u>
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	☐ Flow Estimated?	Result 95.5	% mg/L		Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	☐ Flow Estimated?	95.5 11.6 7.57 516	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72	% mg/L SU umho/cm °C		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3	% 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 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101	% mg/L SU umho/cm °C NTU Lookup cf/sec		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3208928	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4 27 2 Result 190 22	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3208928 Alkalinity (as CaCO3)	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4 27 2 Result 190 22 13	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3208928 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)	☐ Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4 27 2 Result 190 22 13 320	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 6	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3208928 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Flow Estimated?	95.5 11.6 7.57 516 6.72 16.6 3 18.101 4 27 2 Result 190 22 13 320	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 6 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 116 of 433

Lab ID # 3208929	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	250	mg/L	0.66	SM2340B
Calcium (Total)	61	mg/L	0.1	EPA 200.7
Magnesium (Total)	24	mg/L	0.1	EPA 200.7
Lab ID # 3208930	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3208931	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.9	mg/L	0.1	EPA 353.2
Lab ID # 3208932	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.22	mg/L	0.05	SM4500P-E
Lab ID # 3208933	Result		Reporting Limit	<u>Method</u>
TOC	4.9	mg/L	0.5	SM5310C
Lab ID # 50114905003	<u>Result</u>		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.6	mg/L	0.5	EPA 351.2

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

Thursday, July 30, 2015 Page 117 of 433

 SiteID:
 WMI-02-0015
 USGS Hydrologic Unit:
 051201030206

 Stream Name:
 Dinner Creek
 County:
 Randolph

Description: SR 28 **Latitude:** 40 17 36.19877 **Longitude:** -85 8 36.39743

Drainage: 5.957 **Site Number:** 14T-113

SiteID: WMI-02-0015 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16169

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

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

% Sat 89.1 % DO 9.41 mg/L pH (Field) 7.9 SU Specific Conductance (Field) 630 umho/cm Temperature 12.81 °C Turbidity (Hach) 25.4 NTU Air Temp 4 Lookup Sky Conditions 4 Lookup Wind Direction 27 Lookup Wind Strength 2 Lookup Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 18 Lab ID # 3010813 Result Reporting	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
pH (Field) 7.9 SU Specific Conductance (Field) 630 umho/cm Temperature 12.81 °C Turbidity (Hach) 25.4 NTU Air Temp 4 Lookup Sky Conditions 4 Lookup Wind Direction 27 Lookup Wind Strength 2 Lookup Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Specific Conductance (Field) 630 umho/cm Temperature 12.81 °C Turbidity (Hach) 25.4 NTU Air Temp 4 Lookup Sky Conditions 4 Lookup Wind Direction 27 Lookup Wind Strength 2 Lookup Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 16 Sulfate 33 mg/L 18	SM2510B SM2550B(2) EPA 180.1 Observation
Temperature	SM2550B(2) EPA 180.1 Observation
Turbidity (Hach)	EPA 180.1 Observation
Air Temp Sky Conditions Wind Direction Wind Strength 27 Lookup Wind Strength 2 Lookup Lab ID # 3010812 Result Result Reporting Alkalinity (as CaCO3) Chloride Fluoride Fluoride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 4 Lookup Reporting Alkalinity (as CaCO3) Chloride 19 mg/L 10 10 10 10 10 10 10 10 10 10 10 10 10	Observation
Sky Conditions 4 Lookup Wind Direction 27 Lookup Wind Strength 2 Lookup Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	
Wind Direction 27 Lookup Wind Strength 2 Lookup Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 16 Sulfate 33 mg/L 15	Ob
Wind Strength 2 Lookup Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 6 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 16 Sulfate 33 mg/L 15	Observation
Lab ID # 3010812 Result Reporting Alkalinity (as CaCO3) 240 mg/L 1 Chloride 19 mg/L 66 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	Observation
Alkalinity (as CaCO3) Chloride Fluoride Fluoride O.2 mg/L O. Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 240 mg/L 19 mg/L 0.2 mg/L 10 400 mg/L 11 11 11 11 11 11 11 11 11	Observation
Chloride 19 mg/L 66 Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	ng Limit Method
Fluoride 0.2 mg/L 0. Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	1 SM2320B
Solids, Suspended Total, (TSS) 23 mg/L 10 Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	6 EPA 300.0
Solids, Total (TS) 400 mg/L 10 Solids, Total Dissolved (TDS) 340 mg/L 10 Sulfate 33 mg/L 15	.1 SM4500F(-)-C
Solids, Total Dissolved (TDS) Sulfate 340 mg/L 10 11 12 13 15 16 16 16 17 18 18 18 18 18 18 18 18 18	0 SM2540D
Sulfate 33 mg/L 15	0 SM2540B
	0 SM2540C
Lab ID # 3010813 Result Reporting	5 EPA 300.0
	ng Limit <u>Method</u>
Hardness (as CaCO3) 330 mg/L 0.6	66 SM2340B
Calcium (Total) 81 mg/L 0.	.1 EPA 200.7
Magnesium (Total) 30 mg/L 0.	.1 EPA 200.7
Lab ID # 3010814 Result Reporting	ng Limit Method
Nitrogen, Ammonia < 0.1 mg/L 0.	.1 SM4500NH3-D
Lab ID # 3010815 Result Reporting	ng Limit Method
Nitrogen, Nitrate+Nitrite 6.6 mg/L 0.	.1 EPA 353.2
Lab ID # 3010816 Result Reporting	ng Limit Method
Phosphorus, Total 0.19 mg/L 0.0	

Thursday, July 30, 2015 Page 118 of 433

Lab ID # 3010817		Result		Reporting Limit	<u>Method</u>
TOC		3.3	mg/L	0.5	SM5310C
Lab ID # AA14505		Result		Reporting Limit	<u>Method</u>
COD		6.2	mg/L	10	EPA 410.4
TKN		0.49	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16169		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1046.2	MPN/100mL	1	SM9223B
E. coli		156.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0015	Sample Date: 04/21/2014		IDEM Sample	#· AR16413	
Water Flow Type Riffle	Water Appearance	Clear	-	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:			•	,,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		121.5	%		ASTM D888-09(C)
DO		12.79	mg/L		ASTM D888-09(C)
pH (Field)		8.17	SU		EPA 150.2
Specific Conductance (Field)		642	umho/cm		SM2510B
Temperature		13.24	°C		SM2550B(2)
Turbidity (Hach)		6.2	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16413		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		290.9	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 119 of 433

SiteID: WMI-02-0015	Sample Date: 04/28/2014		IDEM Sample	#: AB16485	
Water Flow Type Riffle	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		89.6	%		ASTM D888-09(C)
DO		9.88	mg/L		ASTM D888-09(C)
pH (Field)		7.85	SU		EPA 150.2
Specific Conductance (Field)		541	umho/cm		SM2510B
Temperature		10.94	°C		SM2550B(2)
Turbidity (Hach)		72.6	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16485a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
,			MDNI/400I	40	CMOSSSB
E. coli SiteID: WMI-02-0015	Sample Date: 05/05/2014	2282	MPN/100mL IDEM Sample	10 #: AB16804	SM9223B
SiteID: WMI-02-0015	Sample Date: 05/05/2014 Water Appearance	2282 Clear	IDEM Sample		✓ Algae?
SiteID: WMI-02-0015 Water Flow Type Riffle	•	Clear	IDEM Sample	#: AB16804	✓ Algae?
SiteID: WMI-02-0015	Water Appearance	Clear	IDEM Sample	#: AB16804 Vater Depth	✓ Algae?
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16804 Vater Depth	✓ Algae?
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample V Juatic Life?	#: AB16804 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample V quatic Life?	#: AB16804 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample Juatic Life? % mg/L	#: AB16804 Vater Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Ac Result 111.1 12.26 7.86	IDEM Sample Juatic Life? % mg/L	#: AB16804 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Ac Result 111.1 12.26 7.86	IDEM Sample Juatic Life?	#: AB16804 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 111.1 12.26 7.86 663 10.95	IDEM Sample Juatic Life?	#: AB16804 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 111.1 12.26 7.86 663 10.95 4.53	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16804 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0015 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 111.1 12.26 7.86 663 10.95 4.53 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16804 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-02-0015 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 Result 111.1 12.26 7.86 663 10.95 4.53 3 2	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16804 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WMI-02-0015 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 Result 111.1 12.26 7.86 663 10.95 4.53 3 2 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16804 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-02-0015 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	Clear Result 111.1 12.26 7.86 663 10.95 4.53 3 2 27	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16804 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
SiteID: WMI-02-0015 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 Result 111.1 12.26 7.86 663 10.95 4.53 3 2 27 2 Result	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16804 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

Thursday, July 30, 2015 Page 120 of 433

SiteID: WMI-02-0015	Sample Date: 05/12/2014 IDEM Sample #: AB16937				
Water Flow Type Glide	Water Appearance	Brown	Water Depth	✓ Algae?	
Nater Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	? Canopy Closed %	0-20%	
Sampler Comments:					
Lab ID #		Result	Reporting Limit	<u>Method</u>	
% Sat		94.6 %		ASTM D888-09(C)	
DO		8.43 mg/L		ASTM D888-09(C)	
pH (Field)		7.93 SU		EPA 150.2	
Specific Conductance (Field)		572 umho/cm		SM2510B	
Temperature		20.97 °C		SM2550B(2)	
Turbidity (Hach)		70.8 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 # 3026975	1	Result	Reporting Limit	<u>Method</u>	
Alkalinity (as CaCO3)		160 mg/L	1	SM2320B	
Chloride		27 mg/L	10	EPA 300.0	
Solids, Suspended Total, (TSS)		26 mg/L	10	SM2540D	
Solids, Total (TS)		390 mg/L	10	SM2540B	
Solids, Total Dissolved (TDS)		350 mg/L	10	SM2540C	
Sulfate		32 mg/L	25	EPA 300.0	
Lab ID # 3026976	1	Result	Reporting Limit	Method	
Hardness (as CaCO3)		260 mg/L	0.66	SM2340B	
Calcium (Total)		65 mg/L	0.1	EPA 200.7	
Magnesium (Total)		24 mg/L	0.1	EPA 200.7	
Lab ID # 3026977	1	Result	Reporting Limit	Method	
Nitrogen, Ammonia		1 mg/L	0.1	SM4500NH3-D	
Lab ID # 3026978	!	Result	Reporting Limit	Method	
Nitrogen, Nitrate+Nitrite		9.2 mg/L	0.1	EPA 353.2	
Lab ID # 3026979	!	Result	Reporting Limit	Method	
Phosphorus, Total		0.24 mg/L	0.05	SM4500P-E	
Lab ID # 3026980	1	Result	Reporting Limit	Method	
TOC		8.2 mg/L	0.5	SM5310C	

Thursday, July 30, 2015 Page 121 of 433

Lab ID # AA17814		Result		Reporting Limit	<u>Method</u>
COD TKN			mg/L mg/L	10 0.3	EPA 410.4 SM4500N(Org)-B
Lab ID # AB16937		Result		Reporting Limit	<u>Method</u>
E. coli		2419.6	MPN/100mL	1	SM9223B
Lab ID # AB16937a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0015	Sample Date: 06/09/2014	4	IDEM Sample	e#: AB17365	
Water Flow Type Glide	Water Appearance	e Brown		Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated	ı? □ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				.,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		91	%		ASTM D888-09(C)
DO		8.7	mg/L		ASTM D888-09(C)
pH (Field)		7.54	SU		EPA 150.2
Specific Conductance (Field)		533	umho/cm		SM2510B
Temperature		17.61	°C		SM2550B(2)
Turbidity (Hach)		56.7	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042444		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride		16	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)		390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	5	EPA 300.0
Lab ID # 3042445		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3042446		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 122 of 433

Lab ID # 3042447		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		14	mg/L	1	EPA 353.2
Lab ID # 3042448		Result		Reporting Limit	Method
Phosphorus, Total		0.38	mg/L	0.05	SM4500P-E
Lab ID # 3042449		Result		Reporting Limit	Method
TOC		6.1	mg/L	0.5	SM5310C
Lab ID # AA20586		Result		Reporting Limit	Method
COD		19	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17365		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
Water Flow Type Run Water Flow (cf/sec):	Sample Date: 07/07/2014 Water Appearance Flow Estimated?	Murky	IDEM Sample W quatic Life?	/ater Depth Canopy Closed %	✓ Algae?
Sampler Comments:				,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		75.6			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.71			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.74	NTU		SM2550B(2)
Turbidity (Hach)					EPA 180.1 Observation
Air Temp Sky Conditions			Lookup Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3060606					
		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	Reporting Limit	Method SM2320B
Alkalinity (as CaCO3) Chloride		290	mg/L mg/L		
Chloride		290 27	-	1	SM2320B
Chloride		290 27 < 10	mg/L	1 2	SM2320B EPA 300.0
Chloride Solids, Suspended Total, (TSS)		290 27 < 10 440	mg/L mg/L	1 2 10	SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 123 of 433

Lab ID # 3060607		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		360	mg/L	0.66	SM2340B
Calcium (Total)		89	mg/L	0.1	EPA 200.7
Magnesium (Total)		33	mg/L	0.1	EPA 200.7
Lab ID # 3060608		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060609		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3	mg/L	0.1	EPA 353.2
Lab ID # 3060610		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.09	mg/L	0.05	SM4500P-E
Lab ID # 3060611		Result		Reporting Limit	<u>Method</u>
TOC		3.1	mg/L	0.5	SM5310C
Lab ID # AA22931		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.44	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17539		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		261.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0015	Sample Date: 08/05/2014		IDEM Sample	e#: AB18368	
Water Flow Type Glide	Water Appearance	Clear	_	Water Depth	✓ Algae?
				•	_
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	⊻ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>

b ID #	Result	Reporting Limit	<u>Method</u>
% Sat	59.2 %		SM4500-OG
DO	5.39 mg	g/L	SM4500-OG
pH (Field)	7.55 SI	J	EPA 150.2
Specific Conductance (Field)	729 un	nho/cm	SM2510B
Temperature	19.16 °C	:	SM2550B(2)
Turbidity (Hach)	8 N	ΓU	EPA 180.1
Air Temp	6 Lo	okup	Observation
Sky Conditions	2 Lo	okup	Observation
Wind Direction	27 Lo	okup	Observation
Wind Strength	1 Lo	okup	Observation

Thursday, July 30, 2015 Page 124 of 433

SiteID: WMI-02-0015 **Sample Date:** 08/18/2014 **IDEM Sample #**: AB18729

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 #	<u>Result</u>		Reporting Limit	Method
% Sat	65.7	%		ASTM D888-09(C)
DO	6.27	mg/L		ASTM D888-09(C
pH (Field)	7.38	SU		EPA 150.2
Specific Conductance (Field)	800	umho/cm		SM2510B
Temperature	18	°C		SM2550B(2)
Turbidity (Hach)	4.21	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 # 3087455	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	39	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	490	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420	mg/L	10	SM2540C
Sulfate	60	mg/L	25	EPA 300.0
Lab ID # 3087456	Result		Reporting Limit	Method
Hardness (as CaCO3)		mg/L	0.66	SM2340B
Calcium (Total)	88	mg/L	0.1	EPA 200.7
Magnesium (Total)	34	mg/L	0.1	EPA 200.7
Lab ID # 3087457	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087458	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.9	mg/L	0.1	EPA 353.2
Lab ID # 3087459	Result		Reporting Limit	Method
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3087460	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 125 of 433

Lab ID # AA25793		Result		Reporting Limit	Method
COD		13	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18729		Result		Reporting Limit	Method
Coliforms (Total)	-	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		261.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0015	Sample Date: 09/15/2014		IDEM Sample	#: AB19042	
Nater Flow Type Riffle	Water Appearance	Clear	v	ater 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		78.2	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.76	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		12.96			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105452		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS) Sulfate			mg/L mg/L	10 25	SM2540C EPA 300.0
Sullate		45	mg/L	20	EPA 300.0
Lab ID # 3105453		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		31	mg/L	0.1	EPA 200.7
Lab ID # 3105454		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105455		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 126 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105456

Lab 1D # 3103430		Result		Reporting Limit	Metriou
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3105457		Result		Reporting Limit	Method
TOC		4	mg/L	0.5	SM5310C
Lab ID # AA28040		Result		Reporting Limit	Method
COD		10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19042		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		261.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0015	Sample Date: 10/27/2014		IDEM Sample #	#: AB19225	
Nater Flow Type Riffle	Water Appearance	Clear	•	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			, <u>-</u>	ошпору спосош //	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		63.1			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.28	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		11.94			SM2550B(2)
Turbidity (Hach)		2.95	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		
		2	Lookup		Observation
Wind Direction			Lookup		Observation Observation
Wind Direction Wind Strength		18			
Wind Strength		18	Lookup	Reporting Limit	Observation
Wind Strength		18 3 <u>Result</u>	Lookup	Reporting Limit	Observation Observation
Wind Strength Lab ID # 3130400		18 3 Result	Lookup Lookup		Observation Observation Method
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride		18 3 Result 330 32	Lookup Lookup	1	Observation Observation Method SM2320B
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride		18 3 Result 330 32 < 10	Lookup Lookup mg/L mg/L	1 2	Observation Observation Method SM2320B EPA 300.0
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		18 3 Result 330 32 < 10 450	Lookup Lookup mg/L mg/L mg/L	1 2 10	Observation Observation Method SM2320B EPA 300.0 SM2540D
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		18 3 Result 330 32 < 10 450 500	Lookup Lookup mg/L mg/L mg/L mg/L	1 2 10 10	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		18 3 Result 330 32 < 10 450 500	mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		18 3 Result 330 32 < 10 450 500 44 Result	mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Wind Strength Lab ID # 3130400 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130401		18 3 Result 330 32 < 10 450 500 44 Result	mg/L mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5 Reporting Limit	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 127 of 433

Lab ID # 3130402	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130403	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.8	mg/L	0.1	EPA 353.2
Lab ID # 3130404	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.06	mg/L	0.05	SM4500P-E
Lab ID # 3130405	Result		Reporting Limit	<u>Method</u>
TOC	4.5	mg/L	0.5	SM5310C
Lab ID # AA31616	Result		Reporting Limit	<u>Method</u>
COD	8	mg/L	10	EPA 410.4
TKN	0.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19225	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	2419.6	MPN/100mL	1	SM9223B
E. coli	14.6	MPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 128 of 433

SiteID:WMI-02-0016USGS Hydrologic Unit:051201030205Stream Name:Halfway CreekCounty:Jay

Description: CR 1000 W **Latitude:** 40 20 22.25610 **Longitude:** -85 10 6.34308

Drainage: 4.413 Site Number: 14T-114

SiteID: WMI-02-0016 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16170

Water Flow Type Glide Water Appearance Brown 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	108.9	%		ASTM D888-09(C)
DO	11.72	mg/L		ASTM D888-09(C)
pH (Field)	8.04	SU		EPA 150.2
Specific Conductance (Field)	616	umho/cm		SM2510B
Temperature	12.03	°C		SM2550B(2)
Turbidity (Hach)	36.5	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010820	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	28	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	27	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	34	mg/L	15	EPA 300.0
Lab ID # 3010821	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	300	mg/L	0.66	SM2340B
Calcium (Total)	74	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3010822	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010823	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.3	mg/L	0.1	EPA 353.2
Lab ID # 3010824	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.34	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 129 of 433

Lab ID # 3010825		Result		Reporting Limit	<u>Method</u>
TOC		4.3	mg/L	0.5	SM5310C
Lab ID # AA14506		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.64	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16170		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1986.3	MPN/100mL	1	SM9223B
E. coli		547.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0016	Sample Date: 04/21/2014		IDEM Sample	#• AB16/1/	
Water Flow Type Glide	Water Appearance	Clear		ater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		204.4	%		ASTM D888-09(C)
DO		20.25	mg/L		ASTM D888-09(C)
pH (Field)		8.64	SU		EPA 150.2
Specific Conductance (Field)		674	umho/cm		SM2510B
Temperature		16.63	°C		SM2550B(2)
Turbidity (Hach)		10.5	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16414		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		35	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 130 of 433

SiteID: WMI-02-0016 S	Sample Date: 04/28/2014		IDEM Sample	#: AB16486	
Water Flow Type Glide	Water Appearance	Murky	1	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		113.8	%		ASTM D888-09(C)
DO		12.3	mg/L		ASTM D888-09(C)
pH (Field)		8	SU		EPA 150.2
Specific Conductance (Field)		626	umho/cm		SM2510B
Temperature		11.83	°C		SM2550B(2)
Turbidity (Hach)		36.1	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		4	Lookup		Observation
Lab ID # AB16486		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
		04400	MDNI/4001	0.440.0	SM9223B
E. coli SiteID: WMI-02-0016 \$	Sample Date: 05/05/2014	> 2419.6	MPN/100mL IDEM Sample	2419.6 #: AB16805	SIWISZZSB
SiteID: WMI-02-0016 \$	Sample Date: 05/05/2014 Water Appearance	> 2419.6 Murky	IDEM Sample		✓ Algae?
SiteID: WMI-02-0016 S Water Flow Type Glide	•	Murky	IDEM Sample	#: AB16805	✓ Algae?
SiteID: WMI-02-0016 S	Water Appearance	Murky	IDEM Sample	#: AB16805 Water Depth	✓ Algae?
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16805 Water Depth	✔ Algae?
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky Acc Result 158.7	IDEM Sample \text{\text{Juatic Life?}}	#: AB16805 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Ac Result 158.7 16.56	IDEM Sample Juatic Life? % mg/L	#: AB16805 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Acc Result 158.7	IDEM Sample Juatic Life? % mg/L	#: AB16805 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Murky Result 158.7 16.56 8.22	IDEM Sample Juatic Life? % mg/L	#: AB16805 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Murky Result 158.7 16.56 8.22	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16805 Water Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Result 158.7 16.56 8.22 686 13.44	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16805 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Murky Result 158.7 16.56 8.22 686 13.44 10.5	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16805 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0016 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Murky Result 158.7 16.56 8.22 686 13.44 10.5 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16805 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-02-0016 S 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	Murky Result 158.7 16.56 8.22 686 13.44 10.5 3 3	IDEM Sample Juatic Life?	#: AB16805 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: WMI-02-0016 S 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	Murky Result 158.7 16.56 8.22 686 13.44 10.5 3 3 9	IDEM Sample Nuatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16805 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-02-0016 S 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	Murky Result 158.7 16.56 8.22 686 13.44 10.5 3 3 9	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16805 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
SiteID: WMI-02-0016 S 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	Murky Result 158.7 16.56 8.22 686 13.44 10.5 3 9 3 Result	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16805 Nater 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

Thursday, July 30, 2015 Page 131 of 433

SiteID: WMI-02-0016	Sample Date: 05/12/2014			
Vater Flow Type Glide	Water Appearance Brown	ı	Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	151.	7 %		ASTM D888-09(C)
DO	12.6	5 mg/L		ASTM D888-09(C)
pH (Field)	8.29	9 SU		EPA 150.2
Specific Conductance (Field)	600	0 umho/cm		SM2510B
Temperature	24.39	9 °C		SM2550B(2)
Turbidity (Hach)	5:	3 NTU		EPA 180.1
Air Temp	,	5 Lookup		Observation
Sky Conditions		4 Lookup		Observation
Wind Direction		7 Lookup		Observation
Wind Strength		3 Lookup		Observation
Lab ID # 3026983	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	200) mg/L	1	SM2320B
Chloride	3.	4 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	4:	9 mg/L	10	SM2540D
Solids, Total (TS)	400	0 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360	0 mg/L	10	SM2540C
Sulfate	33	2 mg/L	25	EPA 300.0
Lab ID # 3026984	Result		Reporting Limit	Method
Hardness (as CaCO3)		0 mg/L	0.66	SM2340B
Calcium (Total)	6-	4 mg/L	0.1	EPA 200.7
Magnesium (Total)	24	4 mg/L	0.1	EPA 200.7
Lab ID # 3026985	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3026986	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.	1 mg/L	0.1	EPA 353.2
Lab ID # 3026987	Result		Reporting Limit	Method
Phosphorus, Total	0.49	9 mg/L	0.05	SM4500P-E
Lab ID # 3026988	Result		Reporting Limit	Method
TOC	6.	6 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 132 of 433

Lab ID # AA17815		Result		Reporting Limit	Method
COD		23	mg/L	10	EPA 410.4
TKN		1.8	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16938a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		5794	MPN/100mL	10	SM9223B
SiteID: WMI-02-0016	Sample Date: 06/09/2014		IDEM Sample	#: AB17366	
Vater Flow Type Glide	Water Appearance	Brown	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		82.3	%		ASTM D888-09(C)
DO		7.63	mg/L		ASTM D888-09(C)
pH (Field)		7.4	SU		EPA 150.2
Specific Conductance (Field)		433	umho/cm		SM2510B
Temperature		18.89	°C		SM2550B(2)
Turbidity (Hach)		158	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042452		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		150	mg/L	1	SM2320B
Chloride		18	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		18	mg/L	5	EPA 300.0
Lab ID # 3042453		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		18	mg/L	0.1	EPA 200.7
Lab ID # 3042454		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042455		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 133 of 433

Result

Reporting Limit

Method

Lab ID # 3042456

Phosphorus, Total		Result			
Lab 10 # 2040457		0.43	mg/L	0.05	SM4500P-E
Lab ID # 3042457		Result		Reporting Limit	<u>Method</u>
TOC		6.8	mg/L	0.5	SM5310C
Lab ID # AA20587		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		0.9	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17366		Result		Reporting Limit	<u>Method</u>
E. coli		1986.3	MPN/100mL	1	SM9223B
Lab ID # AB17366a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0016	Sample Date: 07/07/2014		IDEM Sample		
Nater Flow Type Run	Water Appearance	Murky	W	later Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
0/ 0-1		181.8	0/		
% Sat			%		ASTM D888-09(C)
% Sat DO		15.84			
			mg/L		
DO		15.84 8.41	mg/L		ASTM D888-09(C)
DO pH (Field)		15.84 8.41	mg/L SU umho/cm		ASTM D888-09(C) EPA 150.2
DO pH (Field) Specific Conductance (Field)		15.84 8.41 852 21.73	mg/L SU umho/cm		ASTM D888-09(C) EPA 150.2 SM2510B
DO pH (Field) Specific Conductance (Field) Temperature		15.84 8.41 852 21.73 12.5	mg/L SU umho/cm °C		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		15.84 8.41 852 21.73 12.5	mg/L SU umho/cm °C NTU		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		15.84 8.41 852 21.73 12.5 4	mg/L SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		15.84 8.41 852 21.73 12.5 4 4	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		15.84 8.41 852 21.73 12.5 4 4	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		15.84 8.41 852 21.73 12.5 4 4 27 2 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060614		15.84 8.41 852 21.73 12.5 4 4 27 2 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060614 Alkalinity (as CaCO3)		15.84 8.41 852 21.73 12.5 4 4 27 2 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	1	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060614 Alkalinity (as CaCO3) Chloride		15.84 8.41 852 21.73 12.5 4 4 27 2 Result 280 60 < 10	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	1 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060614 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		15.84 8.41 852 21.73 12.5 4 4 27 2 Result 280 60 < 10 510 490	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	1 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 134 of 433

Lab ID # 3060615		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3060616		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060617		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5.3	mg/L	0.1	EPA 353.2
Lab ID # 3060618		Result		Reporting Limit	Method
Phosphorus, Total		0.57	mg/L	0.05	SM4500P-E
Lab ID # 3060619		Result		Reporting Limit	<u>Method</u>
TOC		5.3	mg/L	0.5	SM5310C
Lab ID # AA22932		Result		Reporting Limit	<u>Method</u>
COD		10	mg/L	10	EPA 410.4
TKN		0.58	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17540		Result		Reporting Limit	Method
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-02-0016	Sample Date: 08/04/2014		IDEM Sample	#• AB10300	
	•	Clear	-	Water Depth	✓ Algae?
<i>,</i> .	Water Appearance			-	_
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Excessi	ive macrophytes				

b ID #	Result	Reporting Limit	<u>Method</u>
% Sat	157.2 %		SM4500-OG
DO	12.51 mg	g/L	SM4500-OG
pH (Field)	8.53 SL	J	EPA 150.2
Specific Conductance (Field)	880 um	nho/cm	SM2510B
Temperature	23.74 °C	;	SM2550B(2)
Turbidity (Hach)	4.05 NT	ΓU	EPA 180.1
Air Temp	6 Lo	ookup	Observation
Sky Conditions	3 Lo	ookup	Observation
Wind Direction	27 Lo	ookup	Observation
Wind Strength	1 Lo	ookup	Observation

Thursday, July 30, 2015 Page 135 of 433

SiteID: WMI-02-0016 Sample Date: 08/18/2014 IDEM Sample #: AB18730

Water Flow Type Pool Water Appearance Clear Water Depth Algae?

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

Sampler Comments: Completely choked with algae.

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	133.8	%		ASTM D888-09(C)
DO	11.73	mg/L		ASTM D888-09(C
pH (Field)	8.25	SU		EPA 150.2
Specific Conductance (Field)	1306	umho/cm		SM2510B
Temperature	21.25	°C		SM2550B(2)
Turbidity (Hach)	3.82	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
_ab ID # 3087463	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	130	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	780	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	730	mg/L	10	SM2540C
Sulfate	130	mg/L	25	EPA 300.0
Lab ID # 3087464	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340	mg/L	0.66	SM2340B
Calcium (Total)	80	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
Lab ID # 3087465	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
_ab ID # 3087466	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	15	mg/L	1	EPA 353.2
_ab ID # 3087467	Result		Reporting Limit	Method
Phosphorus, Total	1.4	mg/L	0.25	SM4500P-E
_ab ID # 3087468	Result		Reporting Limit	<u>Method</u>
TOC		mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 136 of 433

Lab ID # AA25794		Result		Reporting Limit	Method
COD		15	mg/L	10	EPA 410.4
TKN		0.62	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18730		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		435.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0016	Sample Date: 09/15/2014		IDEM Sample	#: AB19043	
Nater Flow Type Glide	Water Appearance	Clear	v	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		87.7	%		ASTM D888-09(C)
DO		8.56	mg/L		ASTM D888-09(C)
pH (Field)		7.67	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.47			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105468		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		45	mg/L	25	EPA 300.0
Lab ID # 3105469		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105470		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105471		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 137 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105472

Lab 10 # 3103472		Result		Reporting Limit	Wethou
Phosphorus, Total		0.25	mg/L	0.05	SM4500P-E
Lab ID # 3105473		Result		Reporting Limit	Method
TOC		4.6	mg/L	0.5	SM5310C
Lab ID # AA28042		Result		Reporting Limit	Method
COD		12	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19043		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		920.8	MPN/100mL	1	SM9223B
SiteID: WMI-02-0016	Sample Date: 10/27/2014		IDEM Sample	#: AB19226	
Nater Flow Type Pool	Water Appearance	Clear	•	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		140.2	%		ASTM D888-09(C)
DO		14.25	-		ASTM D888-09(C)
pH (Field)		7.76			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.4			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions Wind Direction			Lookup		Observation Observation
Wind Strength			Lookup Lookup		Observation
Lab ID # 3130408		Result		Reporting Limit	<u>Method</u>
			mg/L	Reporting Limit	Method SM2320B
Lab ID # 3130408 Alkalinity (as CaCO3) Chloride		300	mg/L mg/L		
Alkalinity (as CaCO3) Chloride		300 42	-	1	SM2320B
Alkalinity (as CaCO3) Chloride		300 42 < 10	mg/L	1 10	SM2320B EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		300 42 < 10 490	mg/L mg/L	1 10 10	SM2320B EPA 300.0 SM2540D
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		300 42 < 10 490 450	mg/L mg/L mg/L	1 10 10 10	SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		300 42 < 10 490 450	mg/L mg/L mg/L mg/L	1 10 10 10 10	SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		300 42 < 10 490 450 49	mg/L mg/L mg/L mg/L	1 10 10 10 10 10 5	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130409		300 42 < 10 490 450 49 Result	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 5 Reporting Limit	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 138 of 433

Lab ID # 3130410	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130411	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.6	mg/L	0.1	EPA 353.2
Lab ID # 3130412	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.31	mg/L	0.05	SM4500P-E
Lab ID # 3130413	Result		Reporting Limit	<u>Method</u>
TOC	4.1	mg/L	0.5	SM5310C
Lab ID # AA31617	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19226	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	517.2	MPN/100mL	1	SM9223B

Weather Code Definitions								
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale	0 2 00			

Thursday, July 30, 2015 Page 139 of 433

 SiteID:
 WMI-02-0017
 USGS Hydrologic Unit:
 051201030205

 Stream Name:
 Halfway Creek
 County:
 Delaware

Description: Water Street **Latitude:** 40 17 52.10025 **Longitude:** -85 14 13.45069

Drainage: 24.875 Site Number: 14T-116

SiteID: WMI-02-0017 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16171

Water Flow Type Glide Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 21.2592 cfs

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	94.1	%		ASTM D888-09(C)
DO	10	mg/L		ASTM D888-09(C)
pH (Field)	8	SU		EPA 150.2
Specific Conductance (Field)	609	umho/cm		SM2510B
Temperature	12.56	°C		SM2550B(2)
Turbidity (Hach)	24.1	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Flow	21.2592	cf/sec		ΓM D5389-95/D385
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3010828	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	27	mg/L	6	EPA 300.0
Fluoride	0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	19	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	32	mg/L	15	EPA 300.0
Lab ID # 3010829	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	300	mg/L	0.66	SM2340B
Calcium (Total)	77	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3010830	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010831	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.6	mg/L	0.1	EPA 353.2
Lab ID # 3010832	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.23	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 140 of 433

Lab ID # 3010833		Result		Reporting Limit	<u>Method</u>
TOC		4.3	mg/L	0.5	SM5310C
Lab ID # AA14507		<u>Result</u>		Reporting Limit	Method
COD		7.2	mg/L	10	EPA 410.4
TKN		0.41	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16171		Result		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
SiteID: WMI-02-0017	Sample Date: 04/21/2014		IDEM Sample	#: AB16415	
Water Flow Type Glide	Water Appearance	Murky	W	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		169.7	%		ASTM D888-09(C)
% Sat DO		169.7 16.82			ASTM D888-09(C) ASTM D888-09(C)
			mg/L		` '
DO		16.82 8.57	mg/L		ASTM D888-09(C)
DO pH (Field) Specific Conductance (Field) Temperature		16.82 8.57 575 15.49	mg/L SU umho/cm °C		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		16.82 8.57 575 15.49 14.8	mg/L SU umho/cm °C NTU		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		16.82 8.57 575 15.49 14.8	mg/L SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		16.82 8.57 575 15.49 14.8 4	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		16.82 8.57 575 15.49 14.8 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		16.82 8.57 575 15.49 14.8 4 2	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		16.82 8.57 575 15.49 14.8 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		16.82 8.57 575 15.49 14.8 4 2 27 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit 2419.6	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 141 of 433

SiteID: WMI-02-0017	Sample Date: 04/28/2014		IDEM Sample	#: AB16487	
Water Flow Type Glide	Water Appearance	Murky	1	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		103.1	%		ASTM D888-09(C)
DO		10.92	mg/L		ASTM D888-09(C)
pH (Field)		8.09	SU		EPA 150.2
Specific Conductance (Field)		557	umho/cm		SM2510B
Temperature		12.68	°C		SM2550B(2)
Turbidity (Hach)		30.8	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		9	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16487		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
		4000 0	MPN/100mL	4	SM9223B
E. coli SiteID: WMI-02-0017	Sample Date: 05/05/2014	1986.3	IDEM Sample	1 #: AB16806	GWISZZOD
SiteID: WMI-02-0017	Sample Date: 05/05/2014 Water Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-02-0017 Water Flow Type Glide	•	Clear	IDEM Sample	#: AB16806	✓ Algae?
SiteID: WMI-02-0017	Water Appearance	Clear	IDEM Sample	#: AB16806 Water Depth	✓ Algae?
SiteID: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16806 Water Depth	✓ Algae?
SiteID: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Ao	IDEM Sample \ uatic Life?	#: AB16806 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample \undersity quatic Life?	#: AB16806 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result 161.3 16.53	IDEM Sample \undersity quatic Life?	#: AB16806 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-02-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 161.3 16.53 8.4	IDEM Sample Juatic Life? % mg/L	#: AB16806 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 161.3 16.53 8.4	IDEM Sample Juatic Life?	#: AB16806 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 161.3 16.53 8.4 610 14.31	IDEM Sample Juatic Life?	#: AB16806 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 161.3 16.53 8.4 610 14.31 9.76	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16806 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 161.3 16.53 8.4 610 14.31 9.76 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16806 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: WMI-02-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 161.3 16.53 8.4 610 14.31 9.76 3 2	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16806 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: WMI-02-0017 Nater Flow Type Glide Nater 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 161.3 16.53 8.4 610 14.31 9.76 3 2 9	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16806 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: WMI-02-0017 Nater Flow Type Glide Nater 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 161.3 16.53 8.4 610 14.31 9.76 3 2 9	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16806 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: WMI-02-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 161.3 16.53 8.4 610 14.31 9.76 3 2 9 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16806 Nater 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

Thursday, July 30, 2015 Page 142 of 433

SiteID: WMI-02-0017 Sa	ample Date: 05/12/2014		IDEM Samp	ole #: AB16939	
Vater Flow Type Run	Water Appearance	Murky		Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #	!	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		100.4	%		ASTM D888-09(C)
DO		8.78	mg/L		ASTM D888-09(C)
pH (Field)		7.89	SU		EPA 150.2
Specific Conductance (Field)		678	umho/cm		SM2510B
Temperature		21.93	°C		SM2550B(2)
Turbidity (Hach)		24	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Flow	1	17.4944	cf/sec		ΓM D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3026991	1	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		37	mg/L	10	EPA 300.0
olids, Suspended Total, (TSS)		22	mg/L	10	SM2540D
Solids, Total (TS)		410	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		390	mg/L	10	SM2540C
Sulfate		45	mg/L	25	EPA 300.0
Lab ID # 3026992	1	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		310	mg/L	0.66	SM2340B
Calcium (Total)		77	mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3026993	!	Result		Reporting Limit	Method
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3026994	1	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.4	mg/L	0.1	EPA 353.2
Lab ID # 3026995	!	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3026996	1	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		4.8	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 143 of 433

Lab ID # AA17816		Result		Reporting Limit	Method
COD		15	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16939		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0017	Sample Date: 06/09/2014		IDEM Sample	#: AB17367	
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		77.8	%		ASTM D888-09(C)
DO		7.31	mg/L		ASTM D888-09(C)
pH (Field)		7.36	SU		EPA 150.2
Specific Conductance (Field)		417	umho/cm		SM2510B
Temperature		18.27	°C		SM2550B(2)
Turbidity (Hach)		137	NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		102.8663			ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042460		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		17	mg/L	5	EPA 300.0
Lab ID # 3042461		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		17	mg/L	0.1	EPA 200.7
Lab ID # 3042462		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 144 of 433

Lab ID # 3042463		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		6.1	mg/L	0.1	EPA 353.2
Lab ID # 3042464		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.6	mg/L	0.05	SM4500P-E
Lab ID # 3042465		Result		Reporting Limit	<u>Method</u>
TOC		6.8	mg/L	0.5	SM5310C
Lab ID # AA20588		Result		Reporting Limit	<u>Method</u>
COD		18	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17367		Result		Reporting Limit	<u>Method</u>
E. coli		2419.6	MPN/100mL	1	SM9223B
Lab ID # AB17367a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-02-0017	Sample Date: 07/07/2014		IDEM Sample #:	AB17541	
Water Flow Type Run	Water Appearance	Murky	Wat	ter Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%

ab ID #	Result		Reporting Limit	Method
% Sat	100.5	%		ASTM D888-09(C)
DO	8.93	mg/L		ASTM D888-09(C)
pH (Field)	7.95	SU		EPA 150.2
Specific Conductance (Field)	587	umho/cm		SM2510B
Temperature	21.09	°C		SM2550B(2)
Turbidity (Hach)	24.6	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	4.2723	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 145 of 433

Lab ID # 3060622	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	220 mg/L	1	SM2320B
Chloride	27 mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	< 10 mg/L	10	SM2540D
Solids, Total (TS)	360 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350 mg/L	10	SM2540C
Sulfate	40 mg/L	5	EPA 300.0
Lab ID # 3060623	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	280 mg/L	0.66	SM2340B
Calcium (Total)	72 mg/L	0.1	EPA 200.7
Magnesium (Total)	24 mg/L	0.1	EPA 200.7
Lab ID # 3060624	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-D
Lab ID # 3060625	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.6 mg/L	0.1	EPA 353.2
Lab ID # 3060626	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.2 mg/L	0.05	SM4500P-E
Lab ID # 3060627	Result	Reporting Limit	<u>Method</u>
TOC	6.2 mg/L	0.5	SM5310C
Lab ID # AA22933	Result	Reporting Limit	<u>Method</u>
COD	13 mg/L	10	EPA 410.4
TKN	1.6 mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17541	Result	Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100	mL 2419.6	SM9223B
E. coli	547.5 MPN/100i	mL 1	SM9223B

Thursday, July 30, 2015 Page 146 of 433

SiteID: WMI-02-0017 Sample Date: 07/15/2014 IDEM Sample #: AB18386 ✓ Algae? **Water Depth** Water Flow Type Run **Water Appearance** Murky ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Q2 Turb = 15.2Lab ID# Result **Reporting Limit Method** % Sat 84.8 % ASTM D888-09(C) DO ASTM D888-09(C) 7.33 mg/L pH (Field) 7.75 SU EPA 150.2 Specific Conductance (Field) 597 umho/cm SM2510B Temperature 21.13 °C SM2550B(2) Turbidity (Hach) 10.9 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 4 Lookup Observation Wind Direction 18 Lookup Observation Wind Strength 2 Lookup Observation SiteID: WMI-02-0017 Sample Date: 08/18/2014 IDEM Sample #: AB18731 **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 ASTM D888-09(C) % Sat 233.9 % DO 18.9 mg/L ASTM D888-09(C) 8.57 SU EPA 150.2 pH (Field) Specific Conductance (Field) 713 umho/cm SM2510B Temperature 26.51 °C SM2550B(2) Turbidity (Hach) 8.13 NTU EPA 180.1 Air Temp 5 Lookup Observation TM D5389-95/D3858 Flow 0.0829 cf/sec Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID # 3087471 **Reporting Limit** Result **Method** SM2320B Alkalinity (as CaCO3) 230 mg/L 1

Thursday, July 30, 2015 Page 147 of 433

Chloride

Sulfate

Solids, Total (TS)

Solids, Suspended Total, (TSS)

Solids, Total Dissolved (TDS)

38 mg/L

< 10 mg/L

430 mg/L

390 mg/L

65 mg/L

10

10

10

10

25

EPA 300.0

SM2540D

SM2540B

SM2540C

EPA 300.0

Lab ID # 3087472		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		290	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3087473		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087474		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087475		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.17	mg/L	0.05	SM4500P-E
Lab ID # 3087476		Result		Reporting Limit	Method
TOC		5.1	mg/L	0.5	SM5310C
Lab ID # AA25795		Result		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18731		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-02-0017	Sample Date: 09/15/2014		IDEM Sample	e#: AB19044	
Water Flow Type Run	Water Appearance	Clear	_	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.7	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.64			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		15.35			SM2550B(2)
Turbidity (Hach)		17.4	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		14.517	cf/sec		ΓM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation

Thursday, July 30, 2015 Page 148 of 433

Lab ID # 3105476	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	190 mg	g/L 1	SM2320B
Chloride	17 mg	g/L 10	EPA 300.0
Solids, Suspended Total, (TSS)	19 mg	g/L 10	SM2540D
Solids, Total (TS)	290 mg	g/L 10	SM2540B
Solids, Total Dissolved (TDS)	270 mg	g/L 10	SM2540C
Sulfate	29 mg	g/L 25	EPA 300.0
Lab ID # 3105477	<u>Result</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	220 mg	g/L 0.66	SM2340B
Calcium (Total)	60 mg	g/L 0.1	EPA 200.7
Magnesium (Total)	18 mg	g/L 0.1	EPA 200.7
Lab ID # 3105478	<u>Result</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1 mg	n/L 0.1	SM4500NH3-D
Lab ID # 3105479	<u>Result</u>	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.8 mg	g/L 0.1	EPA 353.2
Lab ID # 3105480	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.3 mg	ŋ/L 0.05	SM4500P-E
Lab ID # 3105481	<u>Result</u>	Reporting Limit	<u>Method</u>
TOC	5.2 mg	g/L 0.5	SM5310C
Lab ID # AA28043	<u>Result</u>	Reporting Limit	<u>Method</u>
COD	6 mg	y/L 10	EPA 410.4
TKN	0.79 mg	g/L 0.3	SM4500N(Org)-B
Lab ID # AB19044	Result	Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6 MF	PN/100mL 2419.6	SM9223B
E. coli	816.4 MF	PN/100mL 1	SM9223B

Thursday, July 30, 2015 Page 149 of 433

SiteID: WMI-02-0017 **Sample Date**: 10/27/2014 **IDEM Sample #**: AB19227

Water Flow Type Glide 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	148.1	%		ASTM D888-09(C)
DO	15.21	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	730	umho/cm		SM2510B
Temperature	14.1	°C		SM2550B(2)
Turbidity (Hach)	4.28	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	3.1802	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	4	Lookup		Observation
Lab ID # 3130416	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	300	mg/L	1	SM2320B
Chloride	37	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	430	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420	mg/L	10	SM2540C
Sulfate	43	mg/L	5	EPA 300.0
Lab ID # 3130417	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	350	mg/L	0.66	SM2340B
Calcium (Total)	87	mg/L	0.1	EPA 200.7
Magnesium (Total)	31	mg/L	0.1	EPA 200.7
Lab ID # 3130418	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
_ab ID # 3130419	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.9	mg/L	0.1	EPA 353.2
Lab ID # 3130420	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3130421	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC	4.2	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 150 of 433

Lab ID # AA31618		Result		Reporting Limit	<u>Method</u>
COD		6	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19227		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-02-0017	Sample Date: 11/19/2014		IDEM Sample	#: AB19606	
Water Flow Type Riffle	Water Appearance	Clear	V	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
0/ 0-1		404	0/		ACTM DOCC CO(C)
% Sat		121			ASTM D888-09(C)
DO		17.73 7.92	-		ASTM D888-09(C) EPA 150.2
pH (Field)			umho/cm		
Specific Conductance (Field)		-0.3			SM2510B
Temperature			NTU		SM2550B(2) EPA 180.1
Turbidity (Hach) Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3142761		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		310	mg/L	1	SM2320B
Chloride		40	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		470	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		52	mg/L	25	EPA 300.0
Lab ID # 3142762		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3142763		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3142764		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 151 of 433

Lab ID # 3142765		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	_	0.07	mg/L	0.05	SM4500P-E
Lab ID # 3142766		Result		Reporting Limit	<u>Method</u>
TOC		2.9	mg/L	0.5	SM5310C
Lab ID # 50107929002		<u>Result</u>		Reporting Limit	Method
COD		16.2	mg/L	10	EPA 410.4
TKN		< 0.5	mg/L	0.5	EPA 351.2
Lab ID # AB19606		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		410.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0017	Sample Date: 12/15/201	14	IDEM Sample	#- ΔR10840	
Water Flow Type Run	Water Appearance		_	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimate	d2	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:	_ now Louinians	u	144410 2 110 1	canopy closed //	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		107.1	%		ASTM D888-09(C)
DO					710 TW D000 00(0)
pH (Field)		13.38	mg/L		ASTM D888-09(C)
pri (riola)		13.38 8.11			
Specific Conductance (Field)		8.11			ASTM D888-09(C)
		8.11	SU umho/cm		ASTM D888-09(C) EPA 150.2
Specific Conductance (Field)		8.11 675 5.84	SU umho/cm		ASTM D888-09(C) EPA 150.2 SM2510B
Specific Conductance (Field) Temperature		8.11 675 5.84 5.75	SU umho/cm °C		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Specific Conductance (Field) Temperature Turbidity (Hach)		8.11 675 5.84 5.75	SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		8.11 675 5.84 5.75 2 8.6934	SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow		8.11 675 5.84 5.75 2 8.6934	SU umho/cm °C NTU Lookup cf/sec		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions		8.11 675 5.84 5.75 2 8.6934 4	SU umho/cm °C NTU Lookup cf/sec Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction		8.11 675 5.84 5.75 2 8.6934 4	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156159 Alkalinity (as CaCO3)		8.11 675 5.84 5.75 2 8.6934 4 27 1 Result	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	1	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156159 Alkalinity (as CaCO3) Chloride		8.11 675 5.84 5.75 2 8.6934 4 27 1 Result	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	1 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156159 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		8.11 675 5.84 5.75 2 8.6934 4 27 1 Result 280 29 < 10	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	1 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156159 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		8.11 675 5.84 5.75 2 8.6934 4 27 1 Result 280 29 < 10 420	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup Lookup	1 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156159 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		8.11 675 5.84 5.75 2 8.6934 4 27 1 Result 280 29 < 10 420 380	SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	1 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 152 of 433

Lab ID # 3156160		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3156161		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3156162		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.4	mg/L	0.1	EPA 353.2
Lab ID # 3156163		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.11	mg/L	0.05	SM4500P-E
Lab ID # 3156164		Result		Reporting Limit	<u>Method</u>
TOC		3.4	mg/L	0.5	SM5310C
Lab ID # 50109606005		Result		Reporting Limit	<u>Method</u>
COD		8.2	mg/L	10	EPA 410.4
TKN		< 0.5	mg/L	0.5	EPA 351.2
SiteID: WMI-02-0017					
Siterb. VVIVII-02-0017	Sample Date: 01/20/2015		IDEM Samo	No #: AB20220	
Water Floor Trans. Door	Sample Date: 01/20/2015	Monto	IDEM Samp	le #: AB20320	□ A l o
Water Flow Type Run	Water Appearance	Murky	IDEM Samp	ole #: AB20320 Water Depth	☐ Algae?
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	-		IDEM Samp		_
Water Flow (cf/sec):	Water Appearance			Water Depth	_
Water Flow (cf/sec): Sampler Comments:	Water Appearance	☐ Ac	quatic Life?	Water Depth Canopy Closed %	0-20%
Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	quatic Life?	Water Depth Canopy Closed %	0-20% <u>Method</u>
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result	quatic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 88 12.38 7.53 342	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 88 12.38 7.53 342 1.33	% mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 88 12.38 7.53 342 1.33 42.2	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 88 12.38 7.53 342 1.33 42.2 2	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 88 12.38 7.53 342 1.33 42.2 2 39.9002	% mg/L SU umho/cm °C NTU Lookup cf/sec	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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 88 12.38 7.53 342 1.33 42.2 2 39.9002 3	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 TM D5389-95/D3858 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 88 12.38 7.53 342 1.33 42.2 2 39.9002 3	% mg/L SU umho/cm °C NTU Lookup cf/sec	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 FM D5389-95/D3858

Thursday, July 30, 2015 Page 153 of 433

Lab ID # 3173768	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	120	mg/L	1	SM2320B
Chloride	19	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	14	mg/L	10	SM2540D
Solids, Total (TS)	210	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	180	mg/L	10	SM2540C
Sulfate	14	mg/L	5	EPA 300.0
Lab ID # 3173769	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	150	-	0.66	SM2340B
Calcium (Total)	38	mg/L	0.1	EPA 200.7
Magnesium (Total)	13	mg/L	0.1	EPA 200.7
Lab ID # 3173770	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3173771	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.2	mg/L	0.1	EPA 353.2
Lab ID # 3173772	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.35	mg/L	0.05	SM4500P-E
Lab ID # 3173773	<u>Result</u>		Reporting Limit	Method
TOC	6.9	mg/L	0.5	SM5310C
Lab ID # 50111361003	<u>Result</u>		Reporting Limit	<u>Method</u>
COD	18.9	mg/L	10	EPA 410.4
TKN	0.68	mg/L	0.5	EPA 351.2

Thursday, July 30, 2015 Page 154 of 433

SiteID: WMI-02-0017	Sample Date: 03/16/2015	IDEM Sam	ple #: AB20793	
later Flow Type Glide	Water Appearance Murk	xy	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐	Aquatic Life?	Canopy Closed %	0-20%
ampler Comments:				
_ab ID #	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
% Sat	91	.3 %		ASTM D888-09(C)
DO	11.	46 mg/L		ASTM D888-09(C)
pH (Field)	7.	79 SU		EPA 150.2
Specific Conductance (Field)	5	23 umho/cm		SM2510B
Temperature	5	5.6 °C		SM2550B(2)
Turbidity (Hach)		23 NTU		EPA 180.1
Air Temp		3 Lookup		Observation
Flow	43.40	01 cf/sec		ΓM D5389-95/D3858
Sky Conditions		4 Lookup		Observation
Wind Direction		27 Lookup		Observation
Wind Strength		1 Lookup		Observation
ab ID # 3208936	Resu	<u>lt</u>	Reporting Limit	Method
Alkalinity (as CaCO3)	1	90 mg/L	1	SM2320B
Chloride		28 mg/L	6	EPA 300.0
olids, Suspended Total, (TSS)		28 mg/L	10	SM2540D
Solids, Total (TS)	3	40 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	2	80 mg/L	10	SM2540C
Sulfate		24 mg/L	15	EPA 300.0
ab ID # 3208939	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	2	50 mg/L	0.66	SM2340B
Calcium (Total)		66 mg/L	0.1	EPA 200.7
Magnesium (Total)		22 mg/L	0.1	EPA 200.7
_ab ID # 3208940	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	<().1 mg/L	0.1	SM4500NH3-D
_ab ID # 3208943	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3 mg/L	0.1	EPA 353.2
_ab ID # 3208946	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.	26 mg/L	0.05	SM4500P-E
Lab ID # 3208949	Resu	<u>lt</u>	Reporting Limit	Method
TOC		l.7 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 155 of 433

Lab ID # 50114905004	Result	Reporting Limit	Method	
COD	< 10 mg/L	10	EPA 410.4	
TKN	0.75 mg/L	0.5	EPA 351.2	

		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	

Thursday, July 30, 2015 Page 156 of 433

 SiteID:
 WMI-02-0018
 USGS Hydrologic Unit:
 051201030206

 Stream Name:
 Mississinewa River
 County:
 Delaware

Description: Strong Road **Latitude:** 40 17 30.21709 **Longitude:** -85 14 14.83787

Drainage: 240.014 Site Number: 14T-117

SiteID: WMI-02-0018 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16172

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 #	<u>Result</u>		Reporting Limit	Method
% Sat	84.6	%		ASTM D888-09(C)
DO	9.65	mg/L		ASTM D888-09(C)
pH (Field)	8.09	SU		EPA 150.2
Specific Conductance (Field)	607	umho/cm		SM2510B
Temperature	9.45	°C		SM2550B(2)
Turbidity (Hach)	43.1	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010836	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	23	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	35	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	34	mg/L	15	EPA 300.0
Lab ID # 3010837	Result		Reporting Limit	Method
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	76	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010838	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010839	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.7	mg/L	0.1	EPA 353.2
Lab ID # 3010840	Result		Reporting Limit	Method
Phosphorus, Total	0.27	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 157 of 433

Lab ID # 3010841		Result		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA14508		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.59	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16172		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		228.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0018	Sample Date: 04/22/2014		IDEM Sample	#∙ AR16416	
Water Flow Type Riffle	Water Appearance	Clear	-	/ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		·	•		
Lab ID #		D 14		.	
		Result		Reporting Limit	<u>Method</u>
% Sat		89.4	%	Reporting Limit	Method ASTM D888-09(C)
% Sat		89.4	% mg/L	Reporting Limit	
		89.4	mg/L	Reporting Limit	ASTM D888-09(C)
DO pH (Field) Specific Conductance (Field)		89.4 9.15 8.11 656	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
DO pH (Field) Specific Conductance (Field) Temperature		89.4 9.15 8.11 656 14.25	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		89.4 9.15 8.11 656 14.25 15.1	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		89.4 9.15 8.11 656 14.25 15.1	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		89.4 9.15 8.11 656 14.25 15.1 4	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		89.4 9.15 8.11 656 14.25 15.1 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		89.4 9.15 8.11 656 14.25 15.1 4 2	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		89.4 9.15 8.11 656 14.25 15.1 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		89.4 9.15 8.11 656 14.25 15.1 4 2 27 2 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 158 of 433

SiteID: WMI-02-0018	Sample Date : 04/29/2014		IDEM Sample	#: AB16488	
Water Flow Type Run	Water Appearance	Brown	1	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments: Flooded					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		80.6	%		ASTM D888-09(C)
DO		8.63	mg/L		ASTM D888-09(C)
pH (Field)		7.83	SU		EPA 150.2
Specific Conductance (Field)		460	umho/cm		SM2510B
Temperature		12.18	°C		SM2550B(2)
Turbidity (Hach)		524	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		18	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16488a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
			MDNI/4001	4.0	SM9223B
E. coli SiteID: WMI-02-0018	Sample Date: 05/06/2014	3255	MPN/100mL IDEM Sample	10 #: AB16807	SIMBZZSB
SiteID: WMI-02-0018	Sample Date: 05/06/2014 Water Appearance	3255 Clear	IDEM Sample		✓ Algae?
SiteID: WMI-02-0018 Water Flow Type Run	•	Clear	IDEM Sample	#: AB16807	✓ Algae?
SiteID: WMI-02-0018	Water Appearance	Clear	IDEM Sample	#: AB16807 Water Depth	✓ Algae?
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AB16807 Water Depth	✓ Algae?
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec):	Water Appearance	Clear □ A q	IDEM Sample \ uatic Life?	#: AB16807 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample \text{ uatic Life?}	#: AB16807 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample Juatic Life? % mg/L	#: AB16807 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 101.2 10.71 8.15	IDEM Sample Juatic Life? % mg/L	#: AB16807 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0018 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 101.2 10.71 8.15	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16807 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0018 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 101.2 10.71 8.15 633 12.71	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16807 Water Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 101.2 10.71 8.15 633 12.71 10.4	We mg/L SU umho/cm °C	#: AB16807 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0018 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 101.2 10.71 8.15 633 12.71 10.4 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16807 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: WMI-02-0018 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 Result 101.2 10.71 8.15 633 12.71 10.4 3 2	### Cookup	#: AB16807 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: WMI-02-0018 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 Appearance	Clear Result 101.2 10.71 8.15 633 12.71 10.4 3 2 27	"We will be solved by the second by the second by the second be second by the second be second by the second by th	#: AB16807 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: WMI-02-0018 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	Clear Result 101.2 10.71 8.15 633 12.71 10.4 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16807 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
SiteID: WMI-02-0018 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	Clear Result 101.2 10.71 8.15 633 12.71 10.4 3 2 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16807 Nater 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

Thursday, July 30, 2015 Page 159 of 433

	Sample Date: 05/13/2014			
Vater Flow Type Run	Water Appearance Brown		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	73.	1 %		ASTM D888-09(C)
DO	6.7	1 mg/L		ASTM D888-09(C)
pH (Field)	7.82	2 SU		EPA 150.2
Specific Conductance (Field)	615	5 umho/cm		SM2510B
Temperature	19.44	4 °C		SM2550B(2)
Turbidity (Hach)	48.	I NTU		EPA 180.1
Air Temp	4	4 Lookup		Observation
Sky Conditions	4	4 Lookup		Observation
Wind Direction		7 Lookup		Observation
Wind Strength		2 Lookup		Observation
Lab ID # 3026999	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	230) mg/L	1	SM2320B
Chloride	20	6 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	42	2 mg/L	10	SM2540D
Solids, Total (TS)	390) mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350) mg/L	10	SM2540C
Sulfate	37	7 mg/L	25	EPA 300.0
Lab ID # 3027000	Result		Reporting Limit	Method
Hardness (as CaCO3)	310) mg/L	0.66	SM2340B
Calcium (Total)	7	1 mg/L	0.1	EPA 200.7
Magnesium (Total)	3	1 mg/L	0.1	EPA 200.7
Lab ID # 3027001	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3027002	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	3.	1 mg/L	0.1	EPA 353.2
Lab ID # 3027003	Result		Reporting Limit	Method
Phosphorus, Total	0.2	2 mg/L	0.05	SM4500P-E
Lab ID # 3027004	Result		Reporting Limit	Method
TOC	4.0	9 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 160 of 433

Lab ID # AA17817		<u>Result</u>		Reporting Limit	Method
COD		14	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16940		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		307.6	MPN/100mL	1	SM9223B
SiteID: WMI-02-0018	Sample Date: 06/10/2014		IDEM Sample	#: AB17378	
Vater Flow Type Run	Water Appearance	Brown	V	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		83.5	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.65	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		17.21			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 # 3042477		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		170	mg/L	1	SM2320B
Chloride		20	mg/L	2	EPA 300.0
olids, Suspended Total, (TSS)		79	mg/L	10	SM2540D
Solids, Total (TS)		460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		24	mg/L	5	EPA 300.0
Lab ID # 3042478		Result		Reporting Limit	Method
Hardness (as CaCO3)		270	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3042479		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042480		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		16	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 161 of 433

Lab ID # 3042481		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.73	mg/L	0.05	SM4500P-E
Lab ID # 3042482		Result		Reporting Limit	<u>Method</u>
TOC		6	mg/L	0.5	SM5310C
Lab ID # AA20550		Result		Reporting Limit	<u>Method</u>
COD		19	mg/L	10	EPA 410.4
TKN		1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17378		Result		Reporting Limit	<u>Method</u>
E. coli		1732.9	MPN/100mL	1	SM9223B
Lab ID # AB17378a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
			IDEM Sample	#: AB17552	
	Sample Date: 07/08/2014		-		
SiteID: WMI-02-0018 Water Flow Type Run	Sample Date: 07/08/2014 Water Appearance	Murky	W	ater Depth	✓ Algae?
	-		-		-
Water Flow Type Run Water Flow (cf/sec):	Water Appearance		W	ater Depth	-
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Ac	Wquatic Life?	/ater Depth Canopy Closed %	0-20% <u>Method</u>
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	Wquatic Life?	/ater Depth Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	quatic Life? % mg/L	/ater Depth 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	Result 91.5 8.16 8.17	quatic 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 91.5 8.16 8.17	% mg/L SU umho/cm	/ater Depth Canopy Closed %	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	Water Appearance	Pl.5 8.16 8.17 681 20.93	% 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)	Water Appearance	91.5 8.16 8.17 681 20.93 15.3	% 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	91.5 8.16 8.17 681 20.93 15.3	% 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	91.5 8.16 8.17 681 20.93 15.3 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
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	PRESUIT 91.5 8.16 8.17 681 20.93 15.3 4 4 27	% mg/L SU umho/cm °C NTU Lookup 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 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	PRESUIT 91.5 8.16 8.17 681 20.93 15.3 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	/ater Depth Canopy Closed %	O-20% 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	Water Appearance	91.5 8.16 8.17 681 20.93 15.3 4 4 27 3 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Canopy Closed % Reporting Limit	0-20% 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 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 # 3060045	Water Appearance	91.5 8.16 8.17 681 20.93 15.3 4 4 27 3 Result	% mg/L SU umho/cm °C NTU Lookup 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 Method
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 # 3060045 Alkalinity (as CaCO3)	Water Appearance	91.5 8.16 8.17 681 20.93 15.3 4 4 27 3 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit	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 SM2320B
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 # 3060045 Alkalinity (as CaCO3) Chloride	Water Appearance	PRESUIT 91.5 8.16 8.17 681 20.93 15.3 4 4 27 3 RESUIT 280 23 <10	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	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 SM2320B EPA 300.0
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 # 3060045 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	PRESUIT 91.5 8.16 8.17 681 20.93 15.3 4 4 27 3 RESUIT 280 23 <10 410	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10	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 SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 162 of 433

Lab ID # 3060046		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		350	mg/L	0.66	SM2340B
Calcium (Total)		83	mg/L	0.1	EPA 200.7
Magnesium (Total)		33	mg/L	0.1	EPA 200.7
Lab ID # 3060047		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060048		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2.8	mg/L	0.1	EPA 353.2
Lab ID # 3060049		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.09	mg/L	0.05	SM4500P-E
Lab ID # 3060050		Result		Reporting Limit	<u>Method</u>
TOC		3.2	mg/L	0.5	SM5310C
Lab ID # AA22934		Result		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN		0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17552		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		579.4	MPN/100mL	1	SM9223B
SiteID: WMI-02-0018	Sample Date: 08/12/2014		IDEM Sample	#- AR18388	
Water Flow Type Run	Water Appearance	Murky	-	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	_
Sampler Comments:	I low Estimated?	<u> </u>	qualic Elle:	Carlopy Closed %	0 20 /0
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		54.5	%		SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)		8.14	SU		EPA 150.2

b ID #	Result	Repo	orting Limit Method
% Sat	54.5	%	SM4500-OG
DO	4.49 r	mg/L	SM4500-OG
pH (Field)	8.14	SU	EPA 150.2
Specific Conductance (Field)	666 u	umho/cm	SM2510B
Temperature	23.57	°C	SM2550B(2)
Turbidity (Hach)	21.3 1	NTU	EPA 180.1
Air Temp	4 L	Lookup	Observation
Sky Conditions	4 L	Lookup	Observation
Wind Direction	27 l	Lookup	Observation
Wind Strength	1 l	Lookup	Observation

Thursday, July 30, 2015 Page 163 of 433

SiteID: WMI-02-0018 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18740

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	62.9	%		ASTM D888-09(C)
DO	5.56	mg/L		ASTM D888-09(C)
pH (Field)	8	SU		EPA 150.2
Specific Conductance (Field)	660	umho/cm		SM2510B
Temperature	21.29	°C		SM2550B(2)
Turbidity (Hach)	22.5	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	7.4083	cf/sec		ΓM D5089-95/D3858
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
_ab ID # 3087121	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	270	mg/L	1	SM2320B
Chloride	24	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	21	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	380	mg/L	10	SM2540C
Sulfate	51	mg/L	25	EPA 300.0
Lab ID # 3087122	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	71	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
Lab ID # 3087123	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087124	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
_ab ID # 3087125	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.23	mg/L	0.05	SM4500P-E
Lab ID # 3087126	Result		Reporting Limit	<u>Method</u>
TOC	4.2	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 164 of 433

Lab ID # AA25796		Result		Reporting Limit	<u>Method</u>
COD		9	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18740		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		435.2	MPN/100mL	1	SM9223B
SiteID: WMI-02-0018	Sample Date: 09/16/2014		IDEM Sample	#: AB19055	
Water Flow Type Run	Water Appearance	Murky	V	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			•	.,	
Lab ID #		Result		Reporting Limit	Method
% Sat		79.5	%		ASTM D888-09(C)
DO		8.04	mg/L		ASTM D888-09(C)
pH (Field)		7.97	SU		EPA 150.2
Specific Conductance (Field)		626	umho/cm		SM2510B
Temperature		14.79	°C		SM2550B(2)
Turbidity (Hach)		22	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Flow		20.6411	cf/sec		ΓM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3105520		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		22	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		21	mg/L	10	SM2540D
Solids, Total (TS)		360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		350	mg/L	10	SM2540C
Sulfate		39	mg/L	25	EPA 300.0
Lab ID # 3105521		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		290	mg/L	0.66	SM2340B
Calcium (Total)		70	mg/L	0.1	EPA 200.7
Magnesium (Total)		27	mg/L	0.1	EPA 200.7
Lab ID # 3105522		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 165 of 433

Result

Reporting Limit

Method

Lab ID # 3105523

Phosphorus, Total 0.19 mg/L 0.05 SM4500P-E	Lab ID # 3105523		Result		Reporting Limit	<u>wetnoa</u>
Phosphorus, Total	Nitrogen, Nitrate+Nitrite		1.5	mg/L	0.1	EPA 353.2
TOC S.3 mg/L 0.5 SM5310C	Lab ID # 3105524		Result		Reporting Limit	<u>Method</u>
TOC 5.3 mg/L 0.5 SM5310C	Phosphorus, Total		0.19	mg/L	0.05	SM4500P-E
COD	Lab ID # 3105525		Result		Reporting Limit	<u>Method</u>
COD 11 mg/L 10 EPA 410.4	TOC		5.3	mg/L	0.5	SM5310C
Coliforms (Total) Sample Date: 10/28/2014 IDEM Sample #: AB19238	Lab ID # AA28044		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	COD		11	mg/L	10	EPA 410.4
Coliforms (Total) S2419.6 MPN/100mL 2419.6 SM9223B	TKN		0.63	mg/L	0.3	SM4500N(Org)-B
E. coli 218.7 MPN/100mL 1 SM9223B	Lab ID # AB19055		Result		Reporting Limit	<u>Method</u>
SiteID: WMI-02-0018	Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
Water Flow Type Run Water Appearance Clear Water Depth ✓ Algae? Water Flow (ct//sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Lab ID # Result Reporting Limit Method Lab ID # Result Reporting Limit Method Specific Conductance (Field) 7.55 SU EPA 150.2 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field)	E. coli		218.7	MPN/100mL	1	SM9223B
Water Flow Type Run Water Appearance Clear Water Depth ✓ Algae? Water Flow (ct//sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Lab ID # Result Reporting Limit Method Lab ID # Result Reporting Limit Method Specific Conductance (Field) 7.55 SU EPA 150.2 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field) 7.55 SU EPA 180.1 Specific Conductance (Field)						
Nater Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%		-	Q 1	-		.
Result Reporting Limit Method	Nater Flow Type Run	Water Appearance	Clear	W	ater Depth	⊻ Algae?
Result Reporting Limit Method	Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
% Sat 52.5 % ASTM D888-09(C) DO 5.43 mg/L ASTM D888-09(C) pH (Field) 7.55 SU EPA 150.2 Specific Conductance (Field) 750 umho/cm SM2510B Temperature 13.65 °C SM2550B(2) Turbidity (Hach) 5.82 NTU EPA 180.1 Air Temp 4 Lookup Observation Flow 12.7911 cf/sec TM D5389-95/D3858 Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 430 mg/L 10 SM2540C	Sampler Comments:					
DO 5.43 mg/L ASTM D888-09(C) pH (Field) 7.55 SU EPA 150.2 Specific Conductance (Field) 750 umho/cm SM2510B Temperature 13.65 °C SM2550B(2) Turbidity (Hach) 5.82 NTU EPA 180.1 Air Temp 4 Lookup Observation Flow 12.7911 cf/sec TM D5389-95/D3858 Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L	Lab ID #		Result		Reporting Limit	<u>Method</u>
pH (Field) 7.55 SU EPA 150.2 Specific Conductance (Field) 750 umho/cm SM2510B Temperature 13.65 °C SM2550B(2) Turbidity (Hach) 5.82 NTU EPA 180.1 Air Temp 4 Lookup Observation Flow 12.7911 cf/sec FM D5389-95/D3858 Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Solids, Suspended Total, (TSS) <10	% Sat		52.5	%		ASTM D888-09(C)
Specific Conductance (Field) 750 umho/cm SM2510B Temperature 13.65 °C SM2550B(2) Turbidity (Hach) 5.82 NTU EPA 180.1 Air Temp 4 Lookup Observation Flow 12.7911 cf/sec FM D5389-95/D3858 Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L	DO		5.43	mg/L		ASTM D888-09(C)
Temperature	pH (Field)		7.55	SU		EPA 150.2
Turbidity (Hach) 5.82 NTU EPA 180.1 Air Temp 4 Lookup Observation Flow 12.7911 cf/sec TM D5389-95/D3858 Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Wind Strength 2 Lookup Observation Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L 10 SM2540D Solids, Total Dissolved (TDS) 440 mg/L 10 SM2540C	Specific Conductance (Field)		750	umho/cm		SM2510B
Air Temp	Temperature		13.65	°C		SM2550B(2)
The color	Turbidity (Hach)					EPA 180.1
Sky Conditions 4 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L	'					
Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L						ΓM D5389-95/D3858
Wind Strength 2 Lookup Observation Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L	· ·			•		
Lab ID # 3130466 Result Reporting Limit Method Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L				•		
Alkalinity (as CaCO3) 300 mg/L 1 SM2320B Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 430 mg/L 10 SM2540C	Wind Strength		2	Lookup		Observation
Chloride 34 mg/L 2 EPA 300.0 Solids, Suspended Total, (TSS) < 10 mg/L	Lab ID # 3130466		Result		Reporting Limit	Method
Solids, Suspended Total, (TSS) < 10 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 430 mg/L 10 SM2540C	Alkalinity (as CaCO3)		300	mg/L	1	SM2320B
Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 430 mg/L 10 SM2540C	Chloride		34	mg/L	2	EPA 300.0
Solids, Total Dissolved (TDS) 430 mg/L 10 SM2540C	Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
·	Solids, Total (TS)		440	mg/L	10	SM2540B
Sulfate 42 mg/L 5 EPA 300.0	Solids, Total Dissolved (TDS)					
			430	mg/L	10	SM2540C

Thursday, July 30, 2015 Page 166 of 433

Lab ID # 3130467		Result		Reporting Limit	Method
Hardness (as CaCO3)		350	mg/L	0.66	SM2340B
Calcium (Total)		84	mg/L	0.1	EPA 200.7
Magnesium (Total)		35	mg/L	0.1	EPA 200.7
Lab ID # 3130468		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130469		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3130470		Result		Reporting Limit	Method
Phosphorus, Total		0.09	mg/L	0.05	SM4500P-E
Lab ID # 3130471		Result		Reporting Limit	<u>Method</u>
TOC		5.3	mg/L	0.5	SM5310C
Lab ID # AA31621		Result		Reporting Limit	<u>Method</u>
COD		8	mg/L	10	EPA 410.4
TKN		0.45	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19238		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		43.5	MPN/100mL	1	SM9223B
SiteID: WMI-02-0018	Sample Date: 11/19/2014		IDEM Sample	#- AB19607	
Water Flow Type Run	Water Appearance	Clear	•	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		97.9	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		8.11	SU		FPA 150 2

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	97.9	%		ASTM D888-09(C)
DO	14.34	mg/L		ASTM D888-09(C)
pH (Field)	8.11	SU		EPA 150.2
Specific Conductance (Field)	813	umho/cm		SM2510B
Temperature	-0.19	°C		SM2550B(2)
Turbidity (Hach)	2.81	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Flow	15.7829	cf/sec		ΓM D5389-95/D3858
Sky Conditions	3	Lookup		Observation
Wind Direction	18	Lookup		Observation
Wind Strength	3	Lookup		Observation

Thursday, July 30, 2015 Page 167 of 433

Lab ID # 3142769	<u>Result</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	320 mg/L	1	SM2320B
Chloride	35 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10 mg/L	10	SM2540D
Solids, Total (TS)	480 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	450 mg/L	10	SM2540C
Sulfate	50 mg/L	25	EPA 300.0
Lab ID # 3142770	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	380 mg/L	0.66	SM2340B
Calcium (Total)	89 mg/L	0.1	EPA 200.7
Magnesium (Total)	38 mg/L	0.1	EPA 200.7
Lab ID # 3142771	Result	Reporting Limit	Method
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-D
Lab ID # 3142772	<u>Result</u>	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.7 mg/L	0.1	EPA 353.2
Lab ID # 3142773	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	< 0.05 mg/L	0.05	SM4500P-E
Lab ID # 3142774	Result	Reporting Limit	<u>Method</u>
TOC	3.5 mg/L	0.5	SM5310C
Lab ID # 50107929003	Result	Reporting Limit	Method
COD	13.1 mg/L	10	EPA 410.4
TKN	< 0.5 mg/L	0.5	EPA 351.2
Lab ID # AB19607	Result	Reporting Limit	<u>Method</u>
Coliforms (Total)	1203.3 MPN/100mL	1	SM9223B
E. coli	44.1 MPN/100mL	_ 1	SM9223B

Thursday, July 30, 2015 Page 168 of 433

SiteID: WMI-02-0018	Sample Date: 12/15/2014		IDEM Samp	le #: AB19850	
Nater Flow Type Run	Water Appearance	Clear		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aqu	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		94.7	%		ASTM D888-09(C)
DO		12.31	mg/L		ASTM D888-09(C)
pH (Field)		8.1	SU		EPA 150.2
Specific Conductance (Field)		761	umho/cm		SM2510B
Temperature		4.2	°C		SM2550B(2)
Turbidity (Hach)		6.21	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		71.9006	cf/sec		TM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3156151		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		310	mg/L	1	SM2320B
Chloride		30	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		460	-	10	SM2540B
Solids, Total Dissolved (TDS)		430		10	SM2540C
Sulfate			mg/L	25	EPA 300.0
Lab ID # 3156152		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		390	mg/L	0.66	SM2340B
Calcium (Total)		96	mg/L	0.1	EPA 200.7
Magnesium (Total)		37	mg/L	0.1	EPA 200.7
Lab ID # 3156153		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3156154		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3.6	mg/L	0.1	EPA 353.2
Lab ID # 3156155		Result		Reporting Limit	Method
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3156156		Result		Reporting Limit	<u>Method</u>
TOC		2.6	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 169 of 433

Lab ID # 50109606004		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.5	mg/L	0.5	EPA 351.2
SiteID: WMI-02-0018	Sample Date: 01/20/2015	5	IDEM Samp	le #: AB20321	
Water Flow Type Riffle	Water Appearance	• Murky	·	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated	? □ Ad	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		86.5	%		ASTM D888-09(C)
DO		12.85	mg/L		ASTM D888-09(C)
pH (Field)		7.7	SU		EPA 150.2
Specific Conductance (Field)		426	umho/cm		SM2510B
Temperature		-0.59	°C		SM2550B(2)
Turbidity (Hach)		35.7	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # 3173776		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		150	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		22	mg/L	5	EPA 300.0
Lab ID # 3173777		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		18	mg/L	0.1	EPA 200.7
Lab ID # 3173778		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3173779		<u>Result</u>		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		2.6	mg/L	0.1	EPA 353.2
Lab ID # 3173780		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.31	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 170 of 433

Lab ID # 3173781		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		6.6	mg/L	0.5	SM5310C
Lab ID # 50111361004		<u>Result</u>		Reporting Limit	Method
COD		16.2	mg/L	10	EPA 410.4
TKN		0.86	mg/L	0.5	EPA 351.2
SiteID: WMI-02-0018	Sample Date: 03/16/2015		IDEM Samp	ole #: AB20794	
Water Flow Type Run	Water Appearance	Brown	·	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		94.5	%		ASTM D888-09(C)
DO		11.45	mg/L		ASTM D888-09(C)
pH (Field)		7.82	SU		EPA 150.2
Specific Conductance (Field)		484	umho/cm		SM2510B
Temperature		7.07	°C		SM2550B(2)
Turbidity (Hach)		53.9	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 # 3208958		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		170	mg/L	1	SM2320B
Chloride			mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		26	mg/L	15	EPA 300.0
Lab ID # 3208959		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3208960		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3208961		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		5.5	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 171 of 433

Lab ID # 3208962	Result	Reporting Limit	<u>Method</u>	
Phosphorus, Total	0.4 mg/L	0.05	SM4500P-E	
Lab ID # 3208963	<u>Result</u>	Reporting Limit	<u>Method</u>	
TOC	5.8 mg/L	0.5	SM5310C	
Lab ID # 50114905005	Result	Reporting Limit	Method	
COD	< 10 mg/L	10	EPA 410.4	
TKN	0.9 mg/L	0.5	EPA 351.2	

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

Thursday, July 30, 2015 Page 172 of 433

SiteID: WMI-02-0019 USGS Hydrologic Unit: 051201030206 Stream Name: Mud Creek County: Delaware Description: Edgewater Road Latitude: 40 17 14.77447 Longitude: -85 14 9.32404 Site Number: 14T-118 Drainage: 12.547 SiteID: WMI-02-0019 Sample Date: 04/15/2014 IDEM Sample #: AB16173 ☐ Algae? Water Depth Water Flow Type Glide **Water Appearance** Murky

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: High volume of foam buildup

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	84.4	%		ASTM D888-09(C)
DO	10.54	mg/L		ASTM D888-09(C)
pH (Field)	8.03	SU		EPA 150.2
Specific Conductance (Field)	589	umho/cm		SM2510B
Temperature	5.76	°C		SM2550B(2)
Turbidity (Hach)	17	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010844	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	17	mg/L	6	EPA 300.0
Fluoride	0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	14	mg/L	10	SM2540D
Solids, Total (TS)	350	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	25	mg/L	15	EPA 300.0
Lab ID # 3010845	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	75	mg/L	0.1	EPA 200.7
Magnesium (Total)	31	mg/L	0.1	EPA 200.7
Lab ID # 3010846	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010847	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.2	mg/L	0.1	EPA 353.2
Lab ID # 3010848	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.2	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 173 of 433

Lab ID # 3010849		Result		Reporting Limit	<u>Method</u>
TOC		4	mg/L	0.5	SM5310C
Lab ID # AA14509		Result		Reporting Limit	<u>Method</u>
Lab ID # AA14509		Result		Reporting Limit	<u>ivietiiou</u>
COD		5.4	mg/L	10	EPA 410.4
TKN		0.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16173		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		1732.9	MPN/100mL	1	SM9223B
E. coli		579.4	MPN/100mL	1	SM9223B
Nater Flow Type Glide	Sample Date: 04/22/2014 Water Appearance	Murky	W	later Depth	✓ Algae?
Water Flow Type Glide	Water Appearance			later Depth	✓ Algae?
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	•		Wquatic Life?	/ater Depth Canopy Closed %	_
Nater Flow (cf/sec):	Water Appearance			•	_
Nater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Aq	quatic Life?	Canopy Closed %	0-20%
Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	✓ Ac	quatic Life?	Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result 98.7 10.25 7.99 599	% mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 98.7 10.25 7.99 599 13.58	% 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)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	PRESUIT 98.7 10.25 7.99 599 13.58 7.69	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	98.7 10.25 7.99 599 13.58 7.69	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	PRESUIT 98.7 10.25 7.99 599 13.58 7.69 4 2	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	PRESUIT 98.7 10.25 7.99 599 13.58 7.69 4 2 27	% 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

Result

> 2419.6 MPN/100mL

91.1 MPN/100mL

Reporting Limit

2419.6

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 174 of 433

Lab ID # AB16417

Coliforms (Total)

E. coli

SiteID: WMI-02-0019	Sample Date: 04/29/2014		IDEM Sample	#: AB16489	
Water Flow Type Glide	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		78.3	%		ASTM D888-09(C)
DO		8.56	mg/L		ASTM D888-09(C)
pH (Field)		7.66	SU		EPA 150.2
Specific Conductance (Field)		490	umho/cm		SM2510B
Temperature		11.33	°C		SM2550B(2)
Turbidity (Hach)		102	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16489a		Result		Reporting Limit	Method
Coliforms (Total)		17329	MPN/100mL	10	SM9223B
					01400000
E. coli SiteID: WMI-02-0019	Sample Date: 05/06/2014	2909	MPN/100mL IDEM Sample	#: AB16808	SM9223B
SiteID: WMI-02-0019 \$	Sample Date: 05/06/2014 Water Appearance	2909 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-02-0019 S	•	Clear	IDEM Sample	#: AB16808	✓ Algae?
SiteID: WMI-02-0019 \$	Water Appearance	Clear	IDEM Sample	#: AB16808 Vater Depth	✓ Algae?
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16808 Vater Depth	✓ Algae?
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample V juatic Life?	#: AB16808 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear Aq	IDEM Sample V juatic Life?	#: AB16808 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample V puatic Life? % mg/L	#: AB16808 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Aq Result 94.1 10.24 7.85	IDEM Sample V puatic Life? % mg/L	#: AB16808 Vater Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-02-0019 S Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Aq Result 94.1 10.24 7.85	IDEM Sample V Juatic Life? % mg/L SU umho/cm	#: AB16808 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-02-0019 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 94.1 10.24 7.85 650 11.51	IDEM Sample V Juatic Life? % mg/L SU umho/cm	#: AB16808 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-02-0019 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 94.1 10.24 7.85 650 11.51 4.89	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C	#: AB16808 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-02-0019 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 94.1 10.24 7.85 650 11.51 4.89 3	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16808 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-02-0019 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 94.1 10.24 7.85 650 11.51 4.89 3 3	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16808 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: WMI-02-0019 Nater Flow Type Glide Nater 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 94.1 10.24 7.85 650 11.51 4.89 3 3 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16808 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: WMI-02-0019 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 94.1 10.24 7.85 650 11.51 4.89 3 3 27	Market Sample Watter Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16808 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
SiteID: WMI-02-0019 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 Flow Estimated?	Clear Result 94.1 10.24 7.85 650 11.51 4.89 3 27 2 Result	Market Sample Watter Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16808 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

Thursday, July 30, 2015 Page 175 of 433

SiteID: WMI-02-0019	Sample Date: 05/13/2014	ple #: AB16941		
Vater Flow Type Glide	Water Appearance Brow	'n	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	<u>Resu</u>	<u>lt</u>	Reporting Limit	<u>Method</u>
% Sat	68	.5 %		ASTM D888-09(C)
DO	6.4	54 mg/L		ASTM D888-09(C)
pH (Field)	7.0	S3 SU		EPA 150.2
Specific Conductance (Field)	5:	52 umho/cm		SM2510B
Temperature	17	.5 °C		SM2550B(2)
Turbidity (Hach)	34	.7 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 # 3027007	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	2	10 mg/L	1	SM2320B
Chloride	:	20 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		15 mg/L	10	SM2540D
Solids, Total (TS)	3:	50 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	3:	50 mg/L	10	SM2540C
Sulfate	:	20 mg/L	5	EPA 300.0
Lab ID # 3027008	Resu	l <u>t</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	2	70 mg/L	0.66	SM2340B
Calcium (Total)		65 mg/L	0.1	EPA 200.7
Magnesium (Total)	:	26 mg/L	0.1	EPA 200.7
Lab ID # 3027009	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	C	.2 mg/L	0.1	SM4500NH3-D
Lab ID # 3027010	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5 mg/L	0.1	EPA 353.2
Lab ID # 3027011	Resu	<u>lt</u>	Reporting Limit	Method
Phosphorus, Total	0.2	27 mg/L	0.05	SM4500P-E
Lab ID # 3027012	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
TOC	7	7.7 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 176 of 433

Lab ID # AA17818		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16941		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0019	Sample Date: 06/10/2014		IDEM Sample	#: AB17389	
Water Flow Type Glide	Water Appearance	Brown	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		85.4	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.58			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.2			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042485		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		16	mg/L	5	EPA 300.0
Lab ID # 3042486		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3042487		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
1 ab 10 # 2042499		Result		Reporting Limit	<u>Method</u>
Lab ID # 3042488		Itesuit		reporting Limit	<u></u>

Thursday, July 30, 2015 Page 177 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3042489

245 15 11 00 12 100		rtoount			
Phosphorus, Total		0.32	mg/L	0.05	SM4500P-E
Lab ID # 3042490		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		5.5	mg/L	0.5	SM5310C
Lab ID # AA20551		Result		Reporting Limit	<u>Method</u>
000					
COD TKN			mg/L mg/L	10 0.3	EPA 410.4 SM4500N(Org)-B
Lab ID # AB17389		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-02-0019	Sample Date: 07/08/2014		IDEM Sample	#· AB17563	
Vater Flow Type Glide	Water Appearance	Murky	_	/ater Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	_	uatic Life?	Canopy Closed %	_
	□ Flow Estilliated?	□ A0	luatic Files	Callopy Closed %	0-20 /6
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		78.5	%		ASTM D888-09(C)
DO		7.1	mg/L		ASTM D888-09(C)
DO					
pH (Field)		8.03			EPA 150.2
pH (Field) Specific Conductance (Field)		670	umho/cm		SM2510B
pH (Field) Specific Conductance (Field) Temperature		670 20.2	umho/cm °C		SM2510B SM2550B(2)
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		670 20.2 27	umho/cm °C NTU		SM2510B SM2550B(2) EPA 180.1
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		670 20.2 27 4	umho/cm °C NTU Lookup		SM2510B SM2550B(2) EPA 180.1 Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		670 20.2 27 4 7	umho/cm °C NTU Lookup Lookup		SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		670 20.2 27 4 7 27	umho/cm °C NTU Lookup		SM2510B SM2550B(2) EPA 180.1 Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		670 20.2 27 4 7 27	umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053		670 20.2 27 4 7 27 0	umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		670 20.2 27 4 7 27 0 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup		SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride		670 20.2 27 4 7 27 0 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup	1	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride		670 20.2 27 4 7 27 0 Result 300 21	umho/cm °C NTU Lookup Lookup Lookup Lookup	1 2	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		670 20.2 27 4 7 27 0 Result 300 21 19 410	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 2 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		670 20.2 27 4 7 27 0 Result 300 21 19 410 370	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 2 10 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		670 20.2 27 4 7 27 0 Result 300 21 19 410 370	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 2 10 10	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		670 20.2 27 4 7 27 0 Result 300 21 19 410 370 31	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 2 10 10 10 5	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060053 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3060054		670 20.2 27 4 7 27 0 Result 300 21 19 410 370 31 Result	umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 2 10 10 10 5 Reporting Limit	SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 178 of 433

Lab ID # 3060055		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060056		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.9	mg/L	0.1	EPA 353.2
Lab ID # 3060057		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.17	mg/L	0.05	SM4500P-E
Lab ID # 3060058		Result		Reporting Limit	<u>Method</u>
TOC		3.9	mg/L	0.5	SM5310C
Lab ID # AA22935		Result		Reporting Limit	<u>Method</u>
COD		8	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17563		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	MPN/100mL	1	SM9223B
SiteID: WMI-02-0019	Sample Date: 07/15/2014		IDEM Sample #	: AB18385	
Water Flow Type Run	Water Appearance	Murky	•	ater Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments: Q2 turb	☐ Flow Estimated?	^	quatic Life?	Canopy Closed %	· ·
Lab ID #		Result		Reporting Limit	<u>Method</u>

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	95.1	%		ASTM D888-09(C)
DO	8.37	mg/L		ASTM D888-09(C)
pH (Field)	7.93	SU		EPA 150.2
Specific Conductance (Field)	678	umho/cm		SM2510B
Temperature	20.12	°C		SM2550B(2)
Turbidity	28.6	NTU		SM2130B Mod
Air Temp	4	Lookup		Observation
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	3	Lookup		Observation

Thursday, July 30, 2015 Page 179 of 433

SiteID: WMI-02-0019	Sample Date: 08/19/2014			
Vater Flow Type Pool	Water Appearance Clea	r	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	<u>Resu</u>	<u>lt</u>	Reporting Limit	<u>Method</u>
% Sat	56	5.4 %		ASTM D888-09(C)
DO	51	26 mg/L		ASTM D888-09(C)
pH (Field)	7	'.7 SU		EPA 150.2
Specific Conductance (Field)	7:	38 umho/cm		SM2510B
Temperature	18.4	64 °C		SM2550B(2)
Turbidity (Hach)	12	.1 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 # 3087129	<u>Resu</u>	<u>lt</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	3	10 mg/L	1	SM2320B
Chloride	;	22 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	<	10 mg/L	10	SM2540D
Solids, Total (TS)	4:	30 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	39	90 mg/L	10	SM2540C
Sulfate	;	38 mg/L	25	EPA 300.0
Lab ID # 3087130	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	34	40 mg/L	0.66	SM2340B
Calcium (Total)	•	77 mg/L	0.1	EPA 200.7
Magnesium (Total)	;	37 mg/L	0.1	EPA 200.7
Lab ID # 3087131	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0).1 mg/L	0.1	SM4500NH3-D
Lab ID # 3087132	Resu	<u>lt</u>	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0).1 mg/L	0.1	EPA 353.2
Lab ID # 3087133	Resu	<u>lt</u>	Reporting Limit	Method
Phosphorus, Total	0.2	25 mg/L	0.05	SM4500P-E
Lab ID # 3087134	<u>Resu</u>	<u>lt</u>	Reporting Limit	<u>Method</u>
TOC		.6 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 180 of 433

Lab ID # AA25797		<u>Result</u>		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.95	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18751		<u>Result</u>		Reporting Limit	Method
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-02-0019	Sample Date: 09/16/2014		IDEM Sample	#: AB19066	
Nater Flow Type Pool	Water Appearance	Clear	v	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		78.5	%		ASTM D888-09(C)
DO		8.16	mg/L		ASTM D888-09(C)
pH (Field)		7.82	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.6	°C		SM2550B(2)
Turbidity (Hach)		7.6	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3105528		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		310	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		33	mg/L	25	EPA 300.0
Lab ID # 3105529		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3105530		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105531		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.7	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 181 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105532

Phosphorus, Total		0.12	mg/L	0.05	SM4500P-E
Lab ID # 3105533		Result		Reporting Limit	Method
TOC		4.2	mg/L	0.5	SM5310C
Lab ID # AA28045		Result		Reporting Limit	Method
COD		8	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19066		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		613.1	MPN/100mL	1	SM9223B
SiteID: WMI-02-0019	Sample Date: 10/28/2014		IDEM Sample	#: AB19249	
Nater Flow Type Pool	Water Appearance	Clear	-	ater Depth	✓ Algae?
Water 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		50	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.46	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
		13.71	°C		SM2550B(2)
Temperature					, ,
Turbidity (Hach)		4.79	NTU		EPA 180.1
Turbidity (Hach) Air Temp		4.79 3	Lookup		EPA 180.1 Observation
Turbidity (Hach) Air Temp Sky Conditions		4.79 3 8	Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction		4.79 3 8 27	Lookup Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions		4.79 3 8 27	Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.79 3 8 27	Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.79 3 8 27 1 Result	Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.79 3 8 27 1 Result	Lookup Lookup Lookup Lookup		EPA 180.1 Observation Observation Observation Observation Method
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride		4.79 3 8 27 1 Result 350 28	Lookup Lookup Lookup Lookup	1	EPA 180.1 Observation Observation Observation Observation Method SM2320B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride		4.79 3 8 27 1 Result 350 28 < 10	Lookup Lookup Lookup Mg/L mg/L	1 2	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		4.79 3 8 27 1 Result 350 28 < 10 450	Lookup Lookup Lookup Mg/L mg/L mg/L	1 2 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		4.79 3 8 27 1 Result 350 28 < 10 450 440	Lookup Lookup Lookup Mg/L mg/L mg/L mg/L	1 2 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		4.79 3 8 27 1 Result 350 28 < 10 450 440	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L	1 2 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TSS)		4.79 3 8 27 1 Result 350 28 <10 450 440 35 Result	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130452 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130453		4.79 3 8 27 1 Result 350 28 <10 450 440 35 Result 380	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	1 2 10 10 10 5 Reporting Limit	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 182 of 433

Lab ID # 3130454	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130455	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3130456	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E
Lab ID # 3130457	Result		Reporting Limit	<u>Method</u>
TOC	4.8	mg/L	0.5	SM5310C
Lab ID # AA31619	Result		Reporting Limit	<u>Method</u>
COD	11	mg/L	10	EPA 410.4
TKN	0.47	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19249	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	1299.7	MPN/100mL	1	SM9223B
E. coli	54.8	MPN/100mL	1	SM9223B

	Weather Code Definitions							
S	С		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				

Thursday, July 30, 2015 Page 183 of 433

Air Temp

Sky Conditions

Wind Direction

Phosphorus, Total

SiteID: WMI-04-0013 USGS Hydrologic Unit: 051201030402 Stream Name: Mississinewa River County: Delaware Description: Dowden Avenue 40 17 39.61263 **Longitude**: -85 14 54.42148 Drainage: 266.976 Site Number: 14T-119 **SiteID:** WMI-04-0013 Sample Date: 04/15/2014 IDEM Sample #: AB16174 ☐ Algae? **Water Appearance Water Depth** Water Flow Type Brown ☐ Flow Estimated? Water Flow (cf/sec): □ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** 84.2 % ASTM D888-09(C) % Sat DO 9.66 mg/L ASTM D888-09(C) pH (Field) 8.12 SU EPA 150.2 Specific Conductance (Field) 620 umho/cm SM2510B Temperature 9.22 °C SM2550B(2) Turbidity (Hach) 39 NTU EPA 180.1

1 Lookup

2 Lookup

27 Lookup

Observation

Observation

Observation

SM4500P-E

0.05

Willa Direction	21	LOOKUP		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010852	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	25	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	31	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370	mg/L	10	SM2540C
Sulfate	34	mg/L	15	EPA 300.0
Lab ID # 3010853	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	78	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010854	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010855	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.5	mg/L	0.1	EPA 353.2
Lab ID # 3010856	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 184 of 433

0.24 mg/L

Lab ID # 3010857		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA14510		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.81	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16174		Result		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		325.5	MPN/100mL	1	SM9223B
SiteID: WMI-04-0013	Sample Date: 04/22/2014		IDEM Sample	#∙ ΔB16418	
Water Flow Type Glide	Water Appearance	Murky	•	/ater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		•		,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		89.8	%		ASTM D888-09(C)
DO		9.17	mg/L		ASTM D888-09(C)
pH (Field)		8.15	SU		EPA 150.2
Specific Conductance (Field)		689	umho/cm		SM2510B
Temperature		14.3	°C		SM2550B(2)
Turbidity (Hach)		16.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16418		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		00.0	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 185 of 433

SiteID: WMI-04-0013	Sample Date: 04/29/2014		IDEM Sample	#: AB16490	
Water Flow Type Glide	Water Appearance	Brown	١	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.6	%		ASTM D888-09(C)
DO		8.73	mg/L		ASTM D888-09(C)
pH (Field)		7.94	SU		EPA 150.2
Specific Conductance (Field)		463	umho/cm		SM2510B
Temperature		12.26	°C		SM2550B(2)
Turbidity (Hach)		412	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16490a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		19863	MPN/100mL	10	SM9223B
					CMOOOOD
E. coli SiteID: WMI-04-0013	Sample Date: 05/06/2014	3255	MPN/100mL IDEM Sample	10 #: AB16809	SM9223B
SiteID: WMI-04-0013	Sample Date: 05/06/2014 Water Appearance	3255 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0013 Water Flow Type Glide	·	Clear	IDEM Sample	#: AB16809	✓ Algae?
SiteID: WMI-04-0013	Water Appearance	Clear	IDEM Sample	#: AB16809 Water Depth	✓ Algae?
SiteID: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16809 Water Depth	✓ Algae?
SiteID: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample \ uatic Life?	#: AB16809 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample \text{ uatic Life?}	#: AB16809 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample Juatic Life? % mg/L	#: AB16809 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-04-0013 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Aq Result 106.8 11.23 8.18	IDEM Sample Juatic Life? % mg/L	#: AB16809 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0013 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Aq Result 106.8 11.23 8.18	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16809 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0013 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 106.8 11.23 8.18 662 12.99	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16809 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 106.8 11.23 8.18 662 12.99 11	We mg/L SU umho/cm °C	#: AB16809 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0013 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 106.8 11.23 8.18 662 12.99 11 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16809 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: WMI-04-0013 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 106.8 11.23 8.18 662 12.99 11 3 2	### Cookup	#: AB16809 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: WMI-04-0013 Nater Flow Type Glide Nater 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 106.8 11.23 8.18 662 12.99 11 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16809 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: WMI-04-0013 Nater Flow Type Glide Nater 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 106.8 11.23 8.18 662 12.99 11 3 2 27	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16809 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: WMI-04-0013 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 106.8 11.23 8.18 662 12.99 11 3 2 27 2 Result	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16809 Nater 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

Thursday, July 30, 2015 Page 186 of 433

SiteID: WMI-04-0013	Sample Date: 05/13/2014			
Nater Flow Type Run	Water Appearance Brown		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	72.3	3 %		ASTM D888-09(C)
DO	6.61	mg/L		ASTM D888-09(C)
pH (Field)	7.8	3 SU		EPA 150.2
Specific Conductance (Field)	632	2 umho/cm		SM2510B
Temperature	19.63	3 °C		SM2550B(2)
Turbidity (Hach)	39.6	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions		B Lookup		Observation
Wind Direction		' Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3027015	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230) mg/L	1	SM2320B
Chloride	31	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)	33	B mg/L	10	SM2540D
Solids, Total (TS)	400) mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360) mg/L	10	SM2540C
Sulfate	38	B mg/L	15	EPA 300.0
Lab ID # 3027016	Result		Reporting Limit	Method
Hardness (as CaCO3)	300) mg/L	0.66	SM2340B
Calcium (Total)	70) mg/L	0.1	EPA 200.7
Magnesium (Total)	30) mg/L	0.1	EPA 200.7
Lab ID # 3027017	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027018	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.5	5 mg/L	0.1	EPA 353.2
Lab ID # 3027019	Result		Reporting Limit	Method
Phosphorus, Total	0.24	l mg/L	0.05	SM4500P-E
Lab ID # 3027020	Result		Reporting Limit	Method
TOC	5.2	2 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 187 of 433

Lab ID # AA17819		<u>Result</u>		Reporting Limit	Method
COD		14	mg/L	10	EPA 410.4
TKN		1.6	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16942		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		410.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0013	Sample Date: 06/10/2014		IDEM Sample	#: AB17392	
Vater Flow Type Run	Water Appearance	Brown	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		86.8	%		ASTM D888-09(C)
DO		7.89	mg/L		ASTM D888-09(C)
pH (Field)		7.6	SU		EPA 150.2
Specific Conductance (Field)		562	umho/cm		SM2510B
Temperature		17.03			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042493		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10 5	SM2540C
Sulfate		20	mg/L	5	EPA 300.0
Lab ID # 3042494		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3042495		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
		Decult		Departing Limit	<u>Method</u>
Lab ID # 3042496		Result		Reporting Limit	<u>iwetriou</u>

Thursday, July 30, 2015 Page 188 of 433

Lab ID # 3042497		Result		Reporting Limit	Method
Phosphorus, Total		0.68	mg/L	0.05	SM4500P-E
Lab ID # 3042498		Result		Reporting Limit	Method
TOC		5.9	mg/L	0.5	SM5310C
Lab ID # AA20552		Result		Reporting Limit	<u>Method</u>
COD		22	mg/L	10	EPA 410.4
TKN		0.86	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17392		Result		Reporting Limit	<u>Method</u>
E. coli		1413.6	MPN/100mL	1	SM9223B
Lab ID # AB17392a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0013	Sample Date: 07/08/2014		IDEM Sample	#: AB17566	
	•				
Water Flow Type Run	Water Appearance	Murky	W	ater Depth	✓ Algae?
	-	`	W uatic Life?	ater Depth Canopy Closed %	•
Water Flow Type Run	Water Appearance	`		-	•
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	`		-	•
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	uatic Life?	Canopy Closed %	0-20% Method
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	yuatic Life? % mg/L	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	Result 86.1 7.76 8.12	yuatic Life? % mg/L	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 86.1 7.76 8.12	% mg/L SU umho/cm	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 86.1 7.76 8.12 708 20.9	% mg/L SU umho/cm	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 86.1 7.76 8.12 708 20.9 15.2	% 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)
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4	% 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
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 86.1 7.76 8.12 708 20.9 15.2 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
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 86.1 7.76 8.12 708 20.9 15.2 4 4 27	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27	% mg/L SU umho/cm °C NTU Lookup 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 Observation
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 Wind Strength Lab ID # 3060061 Alkalinity (as CaCO3)	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27 1 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit	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 SM2320B
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 # 3060061 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27 1 Result 270 34	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	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
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 # 3060061 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27 1 Result 270 34 <10	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit	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 SM2320B
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 # 3060061 Alkalinity (as CaCO3)	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27 1 Result 270 34 <10 430	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
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 # 3060061 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 86.1 7.76 8.12 708 20.9 15.2 4 4 27 1 Result 270 34 < 10 430 400	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2 10	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 SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 189 of 433

Lab ID # 3060062		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3060063		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060064		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		2.7	mg/L	0.1	EPA 353.2
Lab ID # 3060065		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.18	mg/L	0.05	SM4500P-E
Lab ID # 3060066		Result		Reporting Limit	<u>Method</u>
TOC		3.7	mg/L	0.5	SM5310C
Lab ID # AA22936		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17566		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		387.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0013	Sample Date: 08/06/2014		IDEM Sample	#: AB18387	
Water Flow Type Run	Water Appearance	Brown	•	ater 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			%		SM4500-OG
DO		6.46	mg/L		SM4500-OG

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	78 9	%		SM4500-OG
DO	6.46 r	mg/L		SM4500-OG
pH (Field)	8.23	SU		EPA 150.2
Specific Conductance (Field)	660 u	umho/cm		SM2510B
Temperature	23.03	°C		SM2550B(2)
Turbidity (Hach)	18.5 1	NTU		EPA 180.1
Air Temp	5 l	Lookup		Observation
Sky Conditions	2 l	Lookup		Observation
Wind Direction	27 l	Lookup		Observation
Wind Strength	1 l	Lookup		Observation

Thursday, July 30, 2015 Page 190 of 433

SiteID: WMI-04-0013 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18754

Water Flow Type Glide 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	61.2	%		ASTM D888-09(C
DO	5.4	mg/L		ASTM D888-09(C
pH (Field)	7.95	-		EPA 150.2
Specific Conductance (Field)	742	umho/cm		SM2510B
Temperature	21.2	°C		SM2550B(2)
Turbidity (Hach)	25.9	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction		Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3087137	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	270	mg/L	1	SM2320B
Chloride	31	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	19	mg/L	10	SM2540D
Solids, Total (TS)	450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390	mg/L	10	SM2540C
Sulfate	55	mg/L	25	EPA 300.0
Lab ID # 3087138	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	69	mg/L	0.1	EPA 200.7
Magnesium (Total)	34	mg/L	0.1	EPA 200.7
Lab ID # 3087139	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087140	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3087141	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.18	mg/L	0.05	SM4500P-E
Lab ID # 3087142	Result		Reporting Limit	<u>Method</u>
TOC	4	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 191 of 433

Lab ID # AA25798		Result		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN		0.56	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18754		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		517.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0013	Sample Date: 09/16/2014		IDEM Sample	#: AB19069	
Water Flow Type Glide	Water Appearance	Murky	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		77.5	%		ASTM D888-09(C)
DO		7.8	mg/L		ASTM D888-09(C)
pH (Field)		7.78	SU		EPA 150.2
Specific Conductance (Field)		696	umho/cm		SM2510B
Temperature		15.09	°C		SM2550B(2)
Turbidity (Hach)		20.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105536		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		37	mg/L	25	EPA 300.0
Lab ID # 3105537		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3105538		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105539		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.7	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 192 of 433

Lab ID # 3105540		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.31	mg/L	0.05	SM4500P-E
Lab ID # 3105541		Result		Reporting Limit	<u>Method</u>
TOC		5	mg/L	0.5	SM5310C
Lab ID # AA28046		Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.63	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19069		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		488.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0013	Sample Date: 10/28/2014		IDEM Sample	e#: AB19252	
Water Flow Type Glide	Water Appearance	Clear	,	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	
Sampler Comments:	Flow Estimated:	<u> </u>	quatic Life:	Canopy Closed 78	0 20 / 0
Lab ID#		Result		Reporting Limit	<u>Method</u>
				roporting zimit	
% Sat DO		61.6			SM4500-OG
			mg/L SU		SM4500-OG EPA 150.2
pH (Field)			umho/cm		SM2510B
Specific Conductance (Field)		13.82			
Temperature			NTU		SM2550B(2) EPA 180.1
Turbidity (Hach)			Lookup		Observation
Air Temp			•		Observation
Sky Conditions Wind Direction			Lookup		
Wind Strength			Lookup Lookup		Observation Observation
wind Strength		2	СООКИР		Observation
Lab ID # 3130482		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		300	mg/L	1	SM2320B
Chloride		46	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		460	mg/L	10	SM2540B
		400	mg/L	10	SM2540C
Solids, Total Dissolved (TDS)		700	•		
Solids, Total Dissolved (TDS) Sulfate			mg/L	5	EPA 300.0
			-	5 Reporting Limit	EPA 300.0
Sulfate		42 <u>Result</u>	-		
Sulfate Lab ID # 3130483		42 Result 350	mg/L	Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 193 of 433

Lab ID # 3130484	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130485	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
Lab ID # 3130486	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.15	mg/L	0.05	SM4500P-E
Lab ID # 3130487	Result		Reporting Limit	<u>Method</u>
TOC	5	mg/L	0.5	SM5310C
Lab ID # AA31623	Result		Reporting Limit	<u>Method</u>
COD	6	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19252	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	96	MPN/100mL	1	SM9223B

	Weather Code Definitions							
SC			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				

Thursday, July 30, 2015 Page 194 of 433

SiteID:WMI-04-0014USGS Hydrologic Unit:051201030401Stream Name:Campbell CreekCounty:Delaware

Description: Schindel Road **Latitude:** 40 15 39.93262 **Longitude:** -85 17 21.55540

Drainage: 20.321 Site Number: 14T-120

SiteID: WMI-04-0014 **Sample Date**: 04/14/2014 **IDEM Sample #**: AB16175

Water Flow Type Riffle Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 18.3992 cfs

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	84.6	%		ASTM D888-09(C)
DO	8.77	mg/L		ASTM D888-09(C)
pH (Field)	7.67	SU		EPA 150.2
Specific Conductance (Field)	590	umho/cm		SM2510B
Temperature	13.69	°C		SM2550B(2)
Turbidity (Hach)	33.3	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	18.3992	cf/sec		ΓM D5389-95/D3858
Sky Conditions	5	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3010996	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	21	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	28	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	29	mg/L	15	EPA 300.0
Lab ID # 3010997	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	75	mg/L	0.1	EPA 200.7
Magnesium (Total)	29	mg/L	0.1	EPA 200.7
Lab ID # 3010998	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010999	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.8	mg/L	0.1	EPA 353.2
Lab ID # 3011000	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.26	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 195 of 433

Lab ID # 3011001		Result		Reporting Limit	<u>Method</u>
TOC		3.7	mg/L	0.5	SM5310C
Lab ID # AA14515		<u>Result</u>		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.66	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16175		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1299.7	MPN/100mL	1	SM9223B
E. coli		410.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0014	Sample Date: 04/21/2014		IDEM Sample	#: AB16419	
Water Flow Type Glide	Water Appearance	Murky	W	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	Method
Lab ID # % Sat		Result	%	Reporting Limit	Method ASTM D888-09(C)
				Reporting Limit	
% Sat DO pH (Field)		113.3	mg/L	Reporting Limit	ASTM D888-09(C)
% Sat DO pH (Field) Specific Conductance (Field)		113.3 11.73 7.98 612	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
% Sat DO pH (Field) Specific Conductance (Field) Temperature		113.3 11.73 7.98 612 13.5	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		113.3 11.73 7.98 612 13.5 16.7	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		113.3 11.73 7.98 612 13.5 16.7	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		113.3 11.73 7.98 612 13.5 16.7 4	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		113.3 11.73 7.98 612 13.5 16.7 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		113.3 11.73 7.98 612 13.5 16.7 4 2	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		113.3 11.73 7.98 612 13.5 16.7 4 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		113.3 11.73 7.98 612 13.5 16.7 4 2 27 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 196 of 433

SiteID: WMI-04-0014	Sample Date: 04/28/2014		IDEM Sample	#: AB16491	
Water Flow Type Run	Water Appearance	Murky	1	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		84	%		ASTM D888-09(C)
DO		8.91	mg/L		ASTM D888-09(C)
pH (Field)		7.74	SU		EPA 150.2
Specific Conductance (Field)		627	umho/cm		SM2510B
Temperature		12.62	°C		SM2550B(2)
Turbidity (Hach)		21.7	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16491		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
, ,			MDNI/400I	4	SM9223B
E. coli SiteID: WMI-04-0014	Sample Date: 05/05/2014	1119.9	MPN/100mL IDEM Sample	#: AB16810	SIMBZZSB
SiteID: WMI-04-0014	Sample Date: 05/05/2014 Water Appearance	1119.9 Clear	IDEM Sample		✓ Algae?
SiteID: WMI-04-0014 Water Flow Type Run	•	Clear	IDEM Sample	#: AB16810	✓ Algae?
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16810 Water Depth	✓ Algae?
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AB16810 Water Depth	✓ Algae?
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec):	Water Appearance	Clear ✓ Ao	IDEM Sample \ uatic Life?	#: AB16810 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result	IDEM Sample \ uatic Life?	#: AB16810 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0014 Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result	IDEM Sample Juatic Life? % mg/L	#: AB16810 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-04-0014 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 91.5 9.84 7.66	IDEM Sample Juatic Life? % mg/L	#: AB16810 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0014 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 91.5 9.84 7.66 640	IDEM Sample Juatic Life?	#: AB16810 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 91.5 9.84 7.66 640 12	IDEM Sample Juatic Life?	#: AB16810 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0014 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 91.5 9.84 7.66 640 12 8.93	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16810 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0014 Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 91.5 9.84 7.66 640 12 8.93 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16810 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: WMI-04-0014 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 Result 91.5 9.84 7.66 640 12 8.93 3 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16810 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: WMI-04-0014 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 Appearance	Clear Result 91.5 9.84 7.66 640 12 8.93 3 3 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16810 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: WMI-04-0014 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 Wind Strength	Water Appearance	Clear Result 91.5 9.84 7.66 640 12 8.93 3 3 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16810 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: WMI-04-0014 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	Clear Result 91.5 9.84 7.66 640 12 8.93 3 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16810 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

Thursday, July 30, 2015 Page 197 of 433

SiteID: WMI-04-0014 Sa	mple Date: 05/12/2014			
Vater Flow Type Run	Water Appearance Brown	ı	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	68.	7 %		ASTM D888-09(C)
DO	6.5	2 mg/L		ASTM D888-09(C)
pH (Field)	7.5	4 SU		EPA 150.2
Specific Conductance (Field)	55	1 umho/cm		SM2510B
Temperature	17.8	1 °C		SM2550B(2)
Turbidity (Hach)	71.	9 NTU		EPA 180.1
Air Temp		4 Lookup		Observation
Flow	9.157	7 cf/sec		ΓM D5389-95/D3858
Sky Conditions		3 Lookup		Observation
Wind Direction	2	7 Lookup		Observation
Wind Strength		2 Lookup		Observation
Lab ID # 3026751	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	21	0 mg/L	1	SM2320B
Chloride	2	2 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	3	8 mg/L	10	SM2540D
Solids, Total (TS)	36	0 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	31	0 mg/L	10	SM2540C
Sulfate	2	9 mg/L	25	EPA 300.0
Lab ID # 3026752	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	27	0 mg/L	0.66	SM2340B
Calcium (Total)	6	2 mg/L	0.1	EPA 200.7
Magnesium (Total)	2	7 mg/L	0.1	EPA 200.7
Lab ID # 3026753	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3026754	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.	3 mg/L	0.1	EPA 353.2
Lab ID # 3026755	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.2	2 mg/L	0.05	SM4500P-E
Lab ID # 3026756	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC	0	2 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 198 of 433

Lab ID # AA17801			Result		Reporting Limit	Method
COD			26	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16943			Result		Reporting Limit	<u>Method</u>
E. coli			1732.9	MPN/100mL	1	SM9223B
Lab ID # AB16943a			Result		Reporting Limit	Method
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0014	Sample Date:	06/09/2014		IDEM Sample	e#: AB17362	
Nater Flow Type Riffle	Water	Appearance	Brown	·	Water Depth	☐ Algae?
					-	
Water Flow (cf/sec):	☐ Flo	w Estimated?	⊔ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			80.9	%		ASTM D888-09(C)
DO			7.71	mg/L		ASTM D888-09(C)
pH (Field)			7.28	SU		EPA 150.2
Specific Conductance (Field)			404	umho/cm		SM2510B
Temperature			17.62	°C		SM2550B(2)
Turbidity (Hach)			167	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Flow			53.9521	•		TM D5389-95/D3858
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # 3042334			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			120	mg/L	1	SM2320B
Chloride			16	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			72	mg/L	10	SM2540D
Solids, Total (TS)			390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			320	mg/L	10	SM2540C
Sulfate			17	mg/L	5	EPA 300.0
Lab ID # 3042335			Result		Reporting Limit	Method
Hardness (as CaCO3)			190	mg/L	0.66	SM2340B
Calcium (Total)			48	mg/L	0.1	EPA 200.7
Magnesium (Total)				mg/L	0.1	EPA 200.7
Lab ID # 3042336			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			0.2	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 199 of 433

	Result	mg/L	0.1 Reporting Limit	EPA 353.2 <u>Method</u>
			Reporting Limit	<u>Method</u>
	0.8			
		mg/L	0.05	SM4500P-E
	Result		Reporting Limit	<u>Method</u>
	8	mg/L	0.5	SM5310C
	Result		Reporting Limit	<u>Method</u>
	26	mg/L	10	EPA 410.4
		-	0.3	SM4500N(Org)-B
	Result		Reporting Limit	<u>Method</u>
	1986.3	MPN/100mL	1	SM9223B
	Result		Reporting Limit	<u>Method</u>
	> 24196	MPN/100mL	24196	SM9223B
Sample Date: 07/07/2014		IDEM Sample #	: AB17536	
Water Appearance	Murky	Wa	ater Depth	✓ Algae?
☐ Flow Estimated?	^		•	_
	Water Appearance	Result 26 0.97 Result 1986.3 Result > 24196 Sample Date: 07/07/2014 Water Appearance Murky	Result 26 mg/L 0.97 mg/L	Result Reporting Limit

ab ID #	Result		Reporting Limit	Method
% Sat	80.3	%		ASTM D888-09(C)
DO	8.09	mg/L		ASTM D888-09(C)
pH (Field)	8.04	SU		EPA 150.2
Specific Conductance (Field)	672	umho/cm		SM2510B
Temperature	20.02	°C		SM2550B(2)
Turbidity (Hach)	11.3	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	2.59	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 200 of 433

Lab ID # 3060490	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	280	mg/L	1	SM2320B
Chloride	26	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370	mg/L	10	SM2540C
Sulfate	44	mg/L	25	EPA 300.0
Lab ID # 3060493	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340	mg/L	0.66	SM2340B
Calcium (Total)	74	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
Lab ID # 3060494	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060497	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	EPA 353.2
Lab ID # 3060500	Result		Reporting Limit	Method
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E
Lab ID # 3060503	Result		Reporting Limit	Method
TOC	3	mg/L	0.5	SM5310C
Lab ID # AA22918	Result		Reporting Limit	Method
COD	< 10	mg/L	10	EPA 410.4
TKN	0.32	•	0.3	SM4500N(Org)-B
Lab ID # AB17536	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	206.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 201 of 433

SiteID: WMI-04-0014 **Sample Date:** 07/15/2014 **IDEM Sample #:** AB18384

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

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

Sampler Comments: Q2 Turb = 8.8

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	102.2	%		ASTM D888-09(C)
DO	8.18	mg/L		ASTM D888-09(C)
pH (Field)	7.96	SU		EPA 150.2
Specific Conductance (Field)	630 u	umho/cm		SM2510B
Temperature	21.16	°C		SM2550B(2)
Turbidity (Hach)	5.97	NTU		EPA 180.1
Air Temp	4 1	Lookup		Observation
Sky Conditions	3 1	Lookup		Observation
Wind Direction	18	Lookup		Observation
Wind Strength	2 1	Lookup		Observation

SiteID: WMI-04-0014 **Sample Date:** 08/18/2014 **IDEM Sample #:** AB18726

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	77.5	%		ASTM D888-09(C)
DO	7.27	mg/L		ASTM D888-09(C)
pH (Field)	7.83	SU		EPA 150.2
Specific Conductance (Field)	730	umho/cm		SM2510B
Temperature	18.37	°C		SM2550B(2)
Turbidity (Hach)	7.96	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	0.8579	cf/sec		ΓM D5089-95/D3858
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087324	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	300	mg/L	1	SM2320B
Chloride	22	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	440	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390	mg/L	10	SM2540C
Sulfate	54	mg/L	25	EPA 300.0

Thursday, July 30, 2015 Page 202 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3087325

Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		75	mg/L	0.1	EPA 200.7
Magnesium (Total)		37	mg/L	0.1	EPA 200.7
Lab ID # 3087326		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087327		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.2	mg/L	0.1	EPA 353.2
Lab ID # 3087328		Result		Reporting Limit	Method
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3087329		Result		Reporting Limit	Method
TOC		3.6	mg/L	0.5	SM5310C
Lab ID # AA25780		Result		Reporting Limit	<u>Method</u>
COD		10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18726		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-04-0014	Sample Date: 09/15/2014		IDEM Sample	e#: AB19039	
Water Flow Type Run	Water Appearance	Murky	_	Water Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
sampler comments.					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		82.9	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)			SU		EPA 150.2
Specific Conductance (Field)		_	umho/cm		SM2510B
Temperature		13.75			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		2.9859			ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation

Thursday, July 30, 2015 Page 203 of 433

Lab ID # 3105344	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	28	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	15	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	37	mg/L	25	EPA 300.0
Lab ID # 3105347	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	72	mg/L	0.1	EPA 200.7
Magnesium (Total)	28	mg/L	0.1	EPA 200.7
Lab ID # 3105348	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105351	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	1.9	mg/L	0.1	EPA 353.2
Lab ID # 3105354	Result		Reporting Limit	Method
Phosphorus, Total	0.16	mg/L	0.05	SM4500P-E
Lab ID # 3105357	Result		Reporting Limit	Method
TOC	5.4	mg/L	0.5	SM5310C
Lab ID # AA28028	Result		Reporting Limit	Method
COD	8	mg/L	10	EPA 410.4
TKN	0.39	•	0.3	SM4500N(Org)-B
Lab ID # AB19039	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	686.7	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 204 of 433

SiteID: WMI-04-0014 **Sample Date**: 10/27/2014 **IDEM Sample #**: AB19222

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	Method
% Sat	69.7	%		ASTM D888-09(C)
DO	7.69	mg/L		ASTM D888-09(C)
pH (Field)	7.64	SU		EPA 150.2
Specific Conductance (Field)	757	umho/cm		SM2510B
Temperature	10.76	°C		SM2550B(2)
Turbidity (Hach)	5.64	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	2.3033	cf/sec		ΓM D5389-95/D3858
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
_ab ID # 3130284	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	320	mg/L	1	SM2320B
Chloride	32	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460	mg/L	10	SM2540C
Sulfate	47	mg/L	25	EPA 300.0
_ab ID # 3130285	Result		Reporting Limit	Method
Hardness (as CaCO3)	370	mg/L	0.66	SM2340B
Calcium (Total)	90	mg/L	0.1	EPA 200.7
Magnesium (Total)	37	mg/L	0.1	EPA 200.7
Lab ID # 3130286	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130287	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
_ab ID # 3130288	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3130289	Result		Reporting Limit	<u>Method</u>
TOC	3.7	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 205 of 433

Lab ID # AA31603		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19222		Result		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		59.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0014 Sam	nple Date: 11/19/2014		IDEM Sample	#: AB19608	
Nater Flow Type Other	Water Appearance	Clear	V	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments: Mostly Froze	n				
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		89.4	%		ASTM D888-09(C)
DO		13.21	mg/L		ASTM D888-09(C)
pH (Field)		7.45	-		EPA 150.2
Specific Conductance (Field)		839	umho/cm		SM2510B
Temperature		-0.33	°C		SM2550B(2)
Turbidity (Hach)		3.71	NTU		EPA 180.1
Air Temp		1	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3142753		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		340	mg/L	1	SM2320B
Chloride		32	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)		490	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		460	mg/L	10	SM2540C
Sulfate		50	mg/L	25	EPA 300.0
Lab ID # 3142754		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		400	mg/L	0.66	SM2340B
Calcium (Total)		93	mg/L	0.1	EPA 200.7
Magnesium (Total)		41	mg/L	0.1	EPA 200.7
Lab ID # 3142755		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3142756		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.1			

Thursday, July 30, 2015 Page 206 of 433

Lab ID # 3142757			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3142758			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			2.6	mg/L	0.5	SM5310C
Lab ID # 50107929001			Result		Reporting Limit	Method
COD				mg/L	10	EPA 410.4
TKN			< 0.5	mg/L	0.5	EPA 351.2
SiteID: WMI-04-0014	Sample Date:	12/15/2014		IDEM Samp	ole #: AB19845	
Water Flow Type Riffle	Water	Appearance	Clear		Water Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flov	w Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			92	%		ASTM D888-09(C)
DO			11.83	mg/L		ASTM D888-09(C)
pH (Field)			8.01	SU		EPA 150.2
Specific Conductance (Field)			741	umho/cm		SM2510B
Temperature			4.65	°C		SM2550B(2)
Turbidity (Hach)			4.69	NTU		EPA 180.1
Air Temp			2	Lookup		Observation
Flow			6.3148	•		TM D5389-95/D3858
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # 3156113			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			320	mg/L	1	SM2320B
Chloride			30	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			< 10	mg/L	10	SM2540D
Solids, Total (TS)			430	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			42	mg/L	25	EPA 300.0
Lab ID # 3156116			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)				mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			36	mg/L	0.1	EPA 200.7
Lab ID # 3156117			<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 207 of 433

Lab ID # 3156120		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.3	mg/L	0.1	EPA 353.2
Lab ID # 3156123		Result		Reporting Limit	Method
Phosphorus, Total		< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3156126		Result		Reporting Limit	Method
TOC		2.3	mg/L	0.5	SM5310C
Lab ID # 50109606001		Result		Reporting Limit	<u>Method</u>
COD		9.6	mg/L	10	EPA 410.4
TKN		< 0.5	mg/L	0.5	EPA 351.2
SiteID: WMI-04-0014	Sample Date: 01/20/2015		IDFM Samr	ole #: AB20316	
Nater Flow Type Riffle	Water Appearance	Murky	ibem odni	Water 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		88.2	%		ASTM D888-09(C)
DO		12.93	mg/L		ASTM D888-09(C)
pH (Field)		7.32	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		-0.1			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		22.8179			TM D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction Wind Strength			Lookup Lookup		Observation Observation
wind offengur		O	Соокар		Obscivation
Lab ID # 3173752		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		170	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		19	mg/L	5	EPA 300.0
Lab ID # 3173753		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		210	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
TI 1 11 00 0045					

Thursday, July 30, 2015 Page 208 of 433

Lab ID # 3173754		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3173755		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.5	mg/L	0.1	EPA 353.2
Lab ID # 3173756		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.54	mg/L	0.05	SM4500P-E
Lab ID # 3173757		Result		Reporting Limit	<u>Method</u>
TOC		5.7	mg/L	0.5	SM5310C
Lab ID # 50111361001		Result		Reporting Limit	<u>Method</u>
COD		15.7	mg/L	10	EPA 410.4
TKN			mg/L	0.5	EPA 351.2
SiteID: WMI-04-0014	Sample Date: 03/16/2015		IDEM Sami	ple #: AB20789	
Water Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	Π Δ <i>c</i>	quatic Life?	Canopy Closed %	_
Sampler Comments:	_ Now Estimated:	_ A	quatio Elic:	Odnopy Glosed 70	0 20 / 0
Lab ID #		Result		Reporting Limit	Method
% Sat		87.5	%		ASTM D888-09(C)
DO		10.9	mg/L		ASTM D888-09(C)
pH (Field)		7.72	SU		EPA 150.2
Specific Conductance (Field)		493	umho/cm		SM2510B
Temperature		5.9	°C		SM2550B(2)
Turbidity (Hach)		21.3	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Flow		46.5381	cf/sec		ΓM D5389-95/D3858
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3208912		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		190	mg/L	1	SM2320B
Chloride		22	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		20	mg/L	10	SM2540D
Solids, Total (TS)		320	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	15	EPA 300.0

Thursday, July 30, 2015 Page 209 of 433

Lab ID # 3208913	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		0.66	SM2340B
Calcium (Total)	60 mg/L	_ 0.1	EPA 200.7
Magnesium (Total)	22 mg/L	_ 0.1	EPA 200.7
Lab ID # 3208914	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1 mg/L	_ 0.1	SM4500NH3-D
Lab ID # 3208915	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.8 mg/L	_ 0.1	EPA 353.2
Lab ID # 3208916	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.28 mg/L	_ 0.05	SM4500P-E
Lab ID # 3208917	Result	Reporting Limit	<u>Method</u>
TOC	5.2 mg/L	_ 0.5	SM5310C
Lab ID # 50114905001	Result	Reporting Limit	<u>Method</u>
COD	< 10 mg/L	_ 10	EPA 410.4
TKN	0.93 mg/L	_ 0.5	EPA 351.2

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

Thursday, July 30, 2015 Page 210 of 433

SiteID:WMI-04-0015USGS Hydrologic Unit:051201030402Stream Name:Rees DitchCounty:Jay

Description: Layne Drive Latitude: 40 22 0.53292 Longitude: -85 13 9.68814

Drainage: 1.428 Site Number: 14T-121

SiteID: WMI-04-0015 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16176

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	137.2	%		ASTM D888-09(C)
DO	17.04	mg/L		ASTM D888-09(C)
pH (Field)	8.16	SU		EPA 150.2
Specific Conductance (Field)	718	umho/cm		SM2510B
Temperature	6.03	°C		SM2550B(2)
Turbidity (Hach)	14.2	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010860	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	62	mg/L	10	EPA 300.0
Fluoride	0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	12	mg/L	10	SM2540D
Solids, Total (TS)	410	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	410	mg/L	10	SM2540C
Sulfate	27	mg/L	15	EPA 300.0
Lab ID # 3010861	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	81	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3010862	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010863	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.8	mg/L	0.1	EPA 353.2
Lab ID # 3010864	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.17	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 211 of 433

Lab ID # 3010865		Result		Reporting Limit	<u>Method</u>
TOC		4.1	mg/L	0.5	SM5310C
Lab ID # AA14511		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.57	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16176		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		579.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0015	Sample Date: 04/22/2014		IDEM Sample	#. AB16/20	
Water Flow Type Glide	Sample Date: 04/22/2014 Water Appearance	Clear	IDEM Sample :	/ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:			•	.,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		104.4	%		ASTM D888-09(C)
DO		11.83	mg/L		ASTM D888-09(C)
pH (Field)		7.92	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		9.83	°C		SM2550B(2)
Turbidity (Hach)		4.55	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16420		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli					

Thursday, July 30, 2015 Page 212 of 433

SiteID : WMI-04-0015	Sample Date:	04/29/2014		IDEM Sample	#: AB16492	
Water Flow Type Glide	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			95.4	%		ASTM D888-09(C)
DO			10.21	mg/L		ASTM D888-09(C)
pH (Field)			7.51	SU		EPA 150.2
Specific Conductance (Field)			527	umho/cm		SM2510B
Temperature			12.22	°C		SM2550B(2)
Turbidity (Hach)			101	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			1	Lookup		Observation
Wind Direction			18	Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # AB16492			Result		Reporting Limit	<u>Method</u>
E. coli			1553.1	MPN/100mL	1	SM9223B
Lab ID # AB16492a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			24196	MPN/100mL	10	SM9223B
Coliforms (Total) SiteID: WMI-04-0015 Water Flow Type Glide	Sample Date:	05/06/2014 Appearance	24196 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0015 Water Flow Type Glide	Water		Clear	IDEM Sample	#: AB16811	✓ Algae?
SiteID: WMI-04-0015	Water	Appearance	Clear	IDEM Sample	#: AB16811 /ater Depth	✓ Algae?
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec):	Water	Appearance	Clear	IDEM Sample	#: AB16811 /ater Depth	✓ Algae?
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water	Appearance	Clear	IDEM Sample W Juatic Life?	#: AB16811 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water	Appearance	Clear Ac	IDEM Sample W quatic Life?	#: AB16811 /ater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water	Appearance	Clear Acc Result	IDEM Sample W quatic Life? % mg/L	#: AB16811 /ater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water	Appearance	Clear Acc Result 97.8 11.28 7.75	IDEM Sample W quatic Life? % mg/L	#: AB16811 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water	Appearance	Clear Acc Result 97.8 11.28 7.75	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16811 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water	Appearance	Clear Result 97.8 11.28 7.75 842 9.06	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16811 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water	Appearance	Clear Result 97.8 11.28 7.75 842 9.06 3.74	IDEM Sample W quatic Life? % mg/L SU umho/cm °C	#: AB16811 /ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0015 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 97.8 11.28 7.75 842 9.06 3.74 3	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16811 /ater 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: WMI-04-0015 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 97.8 11.28 7.75 842 9.06 3.74 3 2	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16811 /ater 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: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water	Appearance	Clear Result 97.8 11.28 7.75 842 9.06 3.74 3 2 27	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16811 /ater 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: WMI-04-0015 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water	Appearance	Clear Result 97.8 11.28 7.75 842 9.06 3.74 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16811 /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
SiteID: WMI-04-0015 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 v Estimated?	Clear Result 97.8 11.28 7.75 842 9.06 3.74 3 2 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16811 /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

Thursday, July 30, 2015 Page 213 of 433

Water Flow Type Glide	Water Appearance	Clear		Water Depth	✓ Algae?
<i>,</i> .				•	_
Water Flow (cf/sec):	☐ Flow Estimated?	∟ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	Method
% Sat		101.8	%		ASTM D888-09(C)
DO		10.54	mg/L		ASTM D888-09(C)
pH (Field)		7.44	SU		EPA 150.2
Specific Conductance (Field)		726	umho/cm		SM2510B
Temperature		13.36	°C		SM2550B(2)
Turbidity (Hach)		7.17	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3027023		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		270	mg/L	1	SM2320B
Chloride		50	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		420	mg/L	10	SM2540C
Sulfate		24	mg/L	15	EPA 300.0
Lab ID # 3027024		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)		86	mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3027025		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027026		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3.5	mg/L	0.1	EPA 353.2
Lab ID # 3027027		<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.13	mg/L	0.05	SM4500P-E
Lab ID # 3027028		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 214 of 433

Lab ID # AA17820		Result		Reporting Limit	<u>Method</u>
COD		5	mg/L	10	EPA 410.4
TKN		0.94	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16944		Result		Reporting Limit	Method
E. coli		1986.3	MPN/100mL	1	SM9223B
Lab ID # AB16944a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		24196	MPN/100mL	10	SM9223B
SiteID: WMI-04-0015	Sample Date: 06/10/2014	1	IDFM Sample	•#: AB17393	
Water Flow Type Run	Water Appearance		-	Water Depth	☐ Algae?
	☐ Flow Estimated			•	
Water Flow (cf/sec):	□ Flow Estimated	ır 🗆 Ad	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		84.7	%		ASTM D888-09(C)
DO		8.36	mg/L		ASTM D888-09(C)
pH (Field)		7.32	SU		EPA 150.2
Specific Conductance (Field)		564	umho/cm		SM2510B
Temperature		15.91	°C		SM2550B(2)
Turbidity (Hach)		45.1	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042501		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		200	mg/L	1	SM2320B
Chloride		28	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)		18	mg/L	10	SM2540D
Solids, Total (TS)		370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		16	mg/L	5	EPA 300.0
Lab ID # 3042502		Result		Reporting Limit	Method
Hardness (as CaCO3)		260	mg/L	0.66	SM2340B
Calcium (Total)		67	mg/L	0.1	EPA 200.7
Magnesium (Total)		23	mg/L	0.1	EPA 200.7
Lab ID # 3042503		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 215 of 433

Lab ID # 3042504		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	_	9.3	mg/L	0.1	EPA 353.2
Lab ID # 3042505		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.23	mg/L	0.05	SM4500P-E
Lab ID # 3042506		Result		Reporting Limit	<u>Method</u>
TOC		4.7	mg/L	0.5	SM5310C
Lab ID # AA20553		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN		0.77	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17393		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		435.2	MPN/100mL	1	SM9223B
Water Flow Type Glide	Water Appearance	Murky	W	#: AB17567 Vater Depth	☐ Algae?
Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance Flow Estimated?		Wuatic Life?		_
Water Flow (cf/sec):				/ater Depth	_
Water Flow (cf/sec): Sampler Comments:		☐ Aq	uatic Life?	Vater Depth Canopy Closed %	0-20%
Water Flow (cf/sec): Sampler Comments: Lab ID #		Result	uatic Life?	Vater Depth Canopy Closed %	0-20%
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat		Result	watic Life? % mg/L	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		Result 85.4 7.81 7.77 333	% mg/L SU umho/cm	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)		Result 85.4 7.81 7.77	% mg/L SU umho/cm	Vater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		Result 85.4 7.81 7.77 333 19.64 259	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 85.4 7.81 7.77 333 19.64 259 4	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 85.4 7.81 7.77 333 19.64 259 4	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 85.4 7.81 7.77 333 19.64 259 4 7	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		Result 85.4 7.81 7.77 333 19.64 259 4 7	% mg/L SU umho/cm °C NTU 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
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 # 3060069		Result 85.4 7.81 7.77 333 19.64 259 4 7 27 2 Result	% 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 Method
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 # 3060069 Alkalinity (as CaCO3)		Result 85.4 7.81 7.77 333 19.64 259 4 7 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Vater 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 SM2320B
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 # 3060069 Alkalinity (as CaCO3) Chloride		Result 85.4 7.81 7.77 333 19.64 259 4 7 27 2 Result 100 34	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation SM2520B EPA 300.0
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 # 3060069 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		Result 85.4 7.81 7.77 333 19.64 259 4 7 27 2 Result 100 34 230	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
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 # 3060069 Alkalinity (as CaCO3) Chloride		Result 85.4 7.81 7.77 333 19.64 259 4 7 27 2 Result 100 34 230 460	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation EMethod SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 216 of 433

Lab ID # 3060070		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		160	mg/L	0.66	SM2340B
Calcium (Total)		39	mg/L	0.1	EPA 200.7
Magnesium (Total)		14	mg/L	0.1	EPA 200.7
Lab ID # 3060071		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060072		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.1	mg/L	0.1	EPA 353.2
Lab ID # 3060073		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.87	mg/L	0.05	SM4500P-E
Lab ID # 3060074		Result		Reporting Limit	Method
TOC		4.9	mg/L	0.5	SM5310C
Lab ID # AA22937		Result		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN		0.38	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17567a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0015	Sample Date: 07/15/2014		IDEM Sample	#• AD10202	
	·	01	IDEM Sample		
Water Flow Type Run	Water Appearance	Clear	V	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments: Turb =	5.7 NTU				

ab ID#	Decult		Departing Limit	arting Limit Mathad	
ab ID #	Result	Result Re		eporting Limit Method	
% Sat	60.7	%		SM4500-OG	
DO	5.68	mg/L		SM4500-OG	
pH (Field)	7.68	SU		EPA 150.2	
Specific Conductance (Field)	951	umho/cm		SM2510B	
Temperature	17.62	°C		SM2550B(2)	
Turbidity (Hach)	4.68	NTU		EPA 180.1	
Air Temp	4	Lookup		Observation	
Sky Conditions	2	Lookup		Observation	
Wind Direction	27	Lookup		Observation	
Wind Strength	1	Lookup		Observation	

Thursday, July 30, 2015 Page 217 of 433

SiteID: WMI-04-0015 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18755

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	35.5	%		ASTM D888-09(C)
DO	3.3	mg/L		ASTM D888-09(C)
pH (Field)	7.64	SU		EPA 150.2
Specific Conductance (Field)	1300	umho/cm		SM2510B
Temperature	19.07	°C		SM2550B(2)
Turbidity (Hach)	9.63	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 # 3087145	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	180	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	700	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	670	mg/L	10	SM2540C
Sulfate	82	mg/L	25	EPA 300.0
Lab ID # 3087146	Result		Reporting Limit	Method
Hardness (as CaCO3)	340	mg/L	0.66	SM2340B
Calcium (Total)	79	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
Lab ID # 3087147	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087148	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087149	Result		Reporting Limit	Method
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E
Lab ID # 3087150	Result		Reporting Limit	<u>Method</u>
TOC	5.9	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 218 of 433

Lab ID # AA25799		Result		Reporting Limit	Method
COD		22	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18755		Result		Reporting Limit	Method
Coliforms (Total)	-	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0015	Sample Date: 09/16/2014		IDEM Sample	#: AB19070	
Nater Flow Type Glide	Water Appearance	Clear	v	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		72.4	%		ASTM D888-09(C)
DO		7.16	mg/L		ASTM D888-09(C)
pH (Field)		7.74	SU		EPA 150.2
Specific Conductance (Field)		850	umho/cm		SM2510B
Temperature		15.91			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105544		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS) Sulfate			mg/L mg/L	10 25	SM2540C EPA 300.0
Sullate		33	mg/L	20	EPA 300.0
Lab ID # 3105545		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105546		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105547		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 219 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105548

Lab ID # 3103348		Result		Reporting Limit	Wethou
Phosphorus, Total		0.13	mg/L	0.05	SM4500P-E
Lab ID # 3105549		Result		Reporting Limit	Method
TOC		3.7	mg/L	0.5	SM5310C
Lab ID # AA28047		Result		Reporting Limit	Method
COD		8	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19070		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1046.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0015	Sample Date: 10/28/2014		IDEM Sample	#: AB19253	
Nater Flow Type Glide	Water Appearance	Murky	-	ater 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		60.9	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.51			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.12			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1 Observation
Air Temp			Lookup		Observation
Sky Conditions Wind Direction			Lookup Lookup		Observation
Willia Direction					Observation
Wind Strength		2	Lookup		Observation
		2 Result	Lookup	Reporting Limit	Observation <u>Method</u>
		Result	Lookup mg/L	Reporting Limit	
Lab ID # 3130490		Result 330			<u>Method</u>
Lab ID # 3130490 Alkalinity (as CaCO3) Chloride		330 53	mg/L	1	Method SM2320B
Lab ID # 3130490 Alkalinity (as CaCO3) Chloride		330 53 < 10	mg/L mg/L	1 10	Method SM2320B EPA 300.0
Lab ID # 3130490 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		330 53 < 10 470	mg/L mg/L mg/L	1 10 10	Method SM2320B EPA 300.0 SM2540D
Lab ID # 3130490 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		330 53 < 10 470 460	mg/L mg/L mg/L mg/L	1 10 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		330 53 < 10 470 460	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		330 53 < 10 470 460 31	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 10 5	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130491		330 53 < 10 470 460 31 Result	mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 5 Reporting Limit	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 220 of 433

Lab ID # 3130492	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130493	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.1	EPA 353.2
Lab ID # 3130494	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3130495	Result		Reporting Limit	<u>Method</u>
TOC	2.6	mg/L	0.5	SM5310C
Lab ID # AA31624	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.35	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19253	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	1553.1	MPN/100mL	1	SM9223B

	Weather Code Definitions									
SC			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						

Thursday, July 30, 2015 Page 221 of 433

 SiteID:
 WMI-03-0003
 USGS Hydrologic Unit:
 051201030301

 Stream Name:
 Big Lick Creek
 County:
 Blackford

Description: CR 700 E **Latitude:** 40 23 12.09502 **Longitude:** -85 14 20.46627

Drainage: 7.152 Site Number: 14T-122

SiteID: WMI-03-0003 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16177

Water Flow Type Glide Water Appearance Brown Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments:

% Sat	105.7	%		ASTM D888-09(C)
DO	12.93	mg/L		ASTM D888-09(C)
pH (Field)	8.01	SU		EPA 150.2
Specific Conductance (Field)	773	umho/cm		SM2510B
Temperature	6.61	°C		SM2550B(2)
Turbidity (Hach)	51.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3010876	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	210	mg/L	1	SM2320B
Chloride	81	mg/L	10	EPA 300.0
Fluoride	0.3	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	15	mg/L	10	SM2540D
Solids, Total (TS)	490	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460	mg/L	10	SM2540C
Sulfate	55	mg/L	15	EPA 300.0
Lab ID # 3010877	Result		Reporting Limit	Method
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	71	mg/L	0.1	EPA 200.7
Magnesium (Total)	27	mg/L	0.1	EPA 200.7
Lab ID # 3010878	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010879	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.6	mg/L	0.1	EPA 353.2
Lab ID # 3010880	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.43	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 222 of 433

Lab ID # 3010881			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			7.3	mg/L	0.5	SM5310C
Lab ID # AA14513			<u>Result</u>		Reporting Limit	Method
COD			12	mg/L	10	EPA 410.4
TKN			0.75	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16177			Result		Reporting Limit	Method
Coliforms (Total)			4106	MPN/100mL	10	SM9223B
E. coli			1553.1	MPN/100mL	1	SM9223B
SiteID: WMI-03-0003	Sample Date:	04/22/2014		IDEM Sample #	: AB16421	
Water Flow Type Glide	•	ppearance	Clear	•	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow	Estimated?	✓ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			120.7	%		ASTM D888-09(C)
DO			12.44	mg/L		ASTM D888-09(C)
pH (Field)			8.01	SU		EPA 150.2
Specific Conductance (Field)			1259	umho/cm		SM2510B
Temperature			13.84	°C		SM2550B(2)
Turbidity (Hach)			9.97	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			2	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			2	Lookup		Observation

> 2419.6 MPN/100mL

686.7 MPN/100mL

2419.6

1

SM9223B

SM9223B

Thursday, July 30, 2015 Page 223 of 433

Coliforms (Total)

E. coli

SiteID: WMI-03-0003	Sample Date: 04/29/2014		IDEM Sample	#: AB16493	
Water Flow Type Glide	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		85.5	%		ASTM D888-09(C)
DO		8.76	mg/L		ASTM D888-09(C)
pH (Field)		7.63	SU		EPA 150.2
Specific Conductance (Field)		450	umho/cm		SM2510B
Temperature		14.21	°C		SM2550B(2)
Turbidity (Hach)		234	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16493a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
		0404	MDNI/4 OOmal	40	SM9223B
SiteID: WMI-03-0003	Sample Date: 05/06/2014	8164	MPN/100mL IDEM Sample	#: AB16812	SIWISZZSB
SiteID: WMI-03-0003	Sample Date: 05/06/2014 Water Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-03-0003 Water Flow Type Glide	•	Clear	IDEM Sample	#: AB16812	✓ Algae?
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16812 Vater Depth	✓ Algae?
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16812 Vater Depth	✓ Algae?
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample V quatic Life?	#: AB16812 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result 150 16.18	IDEM Sample quatic Life? % mg/L	#: AB16812 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample quatic Life? % mg/L	#: AB16812 Vater Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Ac Result 150 16.18 7.95	IDEM Sample quatic Life? % mg/L	#: AB16812 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Ac Result 150 16.18 7.95	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16812 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 150 16.18 7.95 1317 11.86	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16812 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 150 16.18 7.95 1317 11.86 9.42	IDEM Sample V quatic Life? % mg/L SU umho/cm °C	#: AB16812 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 150 16.18 7.95 1317 11.86 9.42 3	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU	#: AB16812 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-03-0003 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 150 16.18 7.95 1317 11.86 9.42 3 2	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16812 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: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 150 16.18 7.95 1317 11.86 9.42 3 2 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16812 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-03-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 150 16.18 7.95 1317 11.86 9.42 3 2 27	Market Ma	#: AB16812 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
SiteID: WMI-03-0003 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 150 16.18 7.95 1317 11.86 9.42 3 2 27 2 Result	Market Ma	#: AB16812 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

Thursday, July 30, 2015 Page 224 of 433

SiteID: WMI-03-0003 Sa	imple Date: 05/13/2014		
Water Flow Type Glide	Water Appearance Murky	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life? Canopy Closed %	0-20%
Sampler Comments:			
Lab ID#	<u>Result</u>	Reporting Limit	<u>Method</u>
% Sat	96.9	%	ASTM D888-09(C)
DO	8.7	mg/L	ASTM D888-09(C)
pH (Field)	7.78	SU	EPA 150.2
Specific Conductance (Field)	1002	umho/cm	SM2510B
Temperature	20.45	°C	SM2550B(2)
Turbidity (Hach)	25	NTU	EPA 180.1
Air Temp	5	Lookup	Observation
Sky Conditions		Lookup	Observation
Wind Direction		Lookup	Observation
Wind Strength		Lookup	Observation
Lab ID # 3027071	<u>Result</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L 1	SM2320B
Chloride	110	mg/L 20	EPA 300.0
Solids, Suspended Total, (TSS)	17	mg/L 10	SM2540D
Solids, Total (TS)	630	mg/L 10	SM2540B
Solids, Total Dissolved (TDS)	610	mg/L 10	SM2540C
Sulfate		mg/L 15	EPA 300.0
Lab ID # 3027072	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	330	mg/L 0.66	SM2340B
Calcium (Total)	82	mg/L 0.1	EPA 200.7
Magnesium (Total)	32	mg/L 0.1	EPA 200.7
Lab ID # 3027073	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.4	mg/L 0.1	SM4500NH3-D
Lab ID # 3027074	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	5.8	mg/L 0.1	EPA 353.2
Lab ID # 3027075	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.46	mg/L 0.05	SM4500P-E
Lab ID # 3027076	Result	Reporting Limit	<u>Method</u>
TOC	g 2	mg/L 0.5	SM5310C
100	8.2	. IIIg/L U.5	SIVI53 TUC

Thursday, July 30, 2015 Page 225 of 433

Lab ID # AA17821		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		2.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16945		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1732.9	MPN/100mL	1	SM9223B
SiteID: WMI-03-0003	Sample Date: 06/10/2014		IDEM Sample	#: AB17394	
Water Flow Type Glide	Water Appearance	Brown	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.2	%		ASTM D888-09(C)
DO		7.76	mg/L		ASTM D888-09(C)
pH (Field)		7.52	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		17.42			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042509		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		41	mg/L	25	EPA 300.0
Lab ID # 3042510		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		20	mg/L	0.1	EPA 200.7
Lab ID # 3042511		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042512		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 226 of 433

Lab ID # 3042513			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.5	mg/L	0.05	SM4500P-E
Lab ID # 3042514			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			6.3	mg/L	0.5	SM5310C
Lab ID # AA20554			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			24	mg/L	10	EPA 410.4
TKN			0.9	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17394			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			980.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0003	Sample Date: 0	07/08/2014		IDEM Sample	e # : AB17568	
Water Flow Type Glide	Water Ap	pearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	□ Flow F	Estimated?	☐ A n	uatic Life?	Canopy Closed %	
Sampler Comments:				judilo Elic.	ounopy closed /8	0 20 /0
Lab ID #			Danult		Donostion Limit	Mathad
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			84.3			ASTM D888-09(C)
DO			7.64 7.85	mg/L		ASTM D888-09(C) EPA 150.2
pH (Field)						SM2510B
Specific Conductance (Field)			1349	umho/cm		SIVIZATUD
Temperature			40.00	00		
T L. L			19.89			SM2550B(2)
Turbidity (Hach)			37	NTU		SM2550B(2) EPA 180.1
Air Temp			37 4	NTU Lookup		SM2550B(2) EPA 180.1 Observation
Air Temp Sky Conditions			37 4 4	NTU Lookup Lookup		SM2550B(2) EPA 180.1 Observation Observation
Air Temp Sky Conditions Wind Direction			37 4 4 27	NTU Lookup Lookup Lookup		SM2550B(2) EPA 180.1 Observation Observation Observation
Air Temp Sky Conditions			37 4 4 27	NTU Lookup Lookup		SM2550B(2) EPA 180.1 Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength			37 4 4 27	NTU Lookup Lookup Lookup	Reporting Limit	SM2550B(2) EPA 180.1 Observation Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3)			37 4 4 27 1 Result	NTU Lookup Lookup Lookup mg/L	Reporting Limit	SM2550B(2) EPA 180.1 Observation Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength			37 4 4 27 1 Result	NTU Lookup Lookup Lookup Lookup		SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride			37 4 4 27 1 Result 240 190	NTU Lookup Lookup Lookup mg/L	1	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride			37 4 4 27 1 Result 240 190 37	NTU Lookup Lookup Lookup mg/L mg/L	1 20	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)			37 4 4 27 1 Result 240 190 37 870	NTU Lookup Lookup Lookup Mg/L mg/L mg/L	1 20 10	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)			37 4 4 27 1 Result 240 190 37 870 810	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 20 10 10	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)			37 4 4 27 1 Result 240 190 37 870 810	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 20 10 10 10	SM2550B(2) EPA 180.1 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate			37 4 4 27 1 Result 240 190 37 870 810 140 Result	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 20 10 10 10 50	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060077 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3060078			37 4 4 27 1 Result 240 190 37 870 810 140 Result 400	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	1 20 10 10 10 50 Reporting Limit	SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 227 of 433

Lab ID # 3060079		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060080		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		4.9	mg/L	0.1	EPA 353.2
Lab ID # 3060081		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.8	mg/L	0.05	SM4500P-E
Lab ID # 3060082		Result		Reporting Limit	<u>Method</u>
TOC		6.9	mg/L	0.5	SM5310C
Lab ID # AA22938		Result		Reporting Limit	Method
COD		20	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17568		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-03-0003	Sample Date: 07/15/2014		IDEM Sample	#: AB18382	
Water Flow Type Run	Water Appearance	Clear	-	Vater Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		100.2			SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)			SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		21.02			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp		4	Lookup		Observation

Thursday, July 30, 2015 Page 228 of 433

3 Lookup

27 Lookup

1 Lookup

Observation

Observation

Observation

Sky Conditions

Wind Direction

Wind Strength

SiteID: WMI-03-0003 **Sample Date:** 08/19/2014 **IDEM Sample #:** AB18756

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

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

Sampler Comments:

Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SM2510B SM2550B(2) EPA 180.1 Observation Observation
SM2550B(2) EPA 180.1 Observation Observation
EPA 180.1 Observation Observation
Observation Observation
Observation
Observation
Observation
Observation
<u>Method</u>
SM2320B
EPA 300.0
SM2540D
SM2540B
SM2540C
EPA 300.0
<u>Method</u>
SM2340B
EPA 200.7
EPA 200.7
<u>Method</u>
SM4500NH3-D
<u>Method</u>
EPA 353.2
<u>Method</u>
SM4500P-E
<u>Method</u>
SM5310C

Thursday, July 30, 2015 Page 229 of 433

Lab ID # AA25800		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		22	mg/L	10	EPA 410.4
TKN		0.82	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18756		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		143	MPN/100mL	1	SM9223B
SiteID: WMI-03-0003	Sample Date: 09/16/2014		IDEM Sample	#: AB19071	
Vater Flow Type Glide	Water Appearance	Murky	v	Vater Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		74.6	%		ASTM D888-09(C)
DO		7.49	mg/L		ASTM D888-09(C)
pH (Field)		7.67	SU		EPA 150.2
Specific Conductance (Field)		828	umho/cm		SM2510B
Temperature		15.11			SM2550B(2)
Turbidity (Hach)		33.6	NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105552		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride		92	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		69	mg/L	25	EPA 300.0
Lab ID # 3105553		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		23	mg/L	0.1	EPA 200.7
Lab ID # 3105554		<u>Result</u>		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105555		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 230 of 433

Lab ID # 3105556			Result		Reporting Limit	Method
Phosphorus, Total			0.37	mg/L	0.05	SM4500P-E
Lab ID # 3105557			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			5.2	mg/L	0.5	SM5310C
Lab ID # AA28048			Result		Reporting Limit	Method
COD			13	mg/L	10	EPA 410.4
TKN			0.65	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19071			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			365.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0003	Sample Date:	10/28/2014		IDEM Sampl	e #: AB19254	
Water Flow Type Glide	Water	Appearance	Clear		Water Depth	✓ Algae?
Water Flow (cf/sec):	Flow	v Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		· Loumatou .	iii Ac	judilo Elio:	cullopy closed /s	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			61.1	%		ASTM D888-09(C)
DO			6.18	mg/L		ASTM D888-09(C)
pH (Field)			7.54	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			14.65	_		SM2550B(2)
Turbidity (Hach)			6.08	NTU		EPA 180.1
Air Temp			3	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction			18	Lookup		Observation
Wind Strength			3	Lookup		Observation
Lab ID # 3130498			Result		Reporting Limit	Method
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	40	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			83	mg/L	5	EPA 300.0
Lab ID # 3130499			<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			440	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			44	mg/L	0.1	EPA 200.7
Thomas days the OO OOA5						

Thursday, July 30, 2015 Page 231 of 433

Lab ID # 3130500	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130501	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.9	mg/L	0.1	EPA 353.2
Lab ID # 3130502	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.49	mg/L	0.05	SM4500P-E
Lab ID # 3130503	Result		Reporting Limit	<u>Method</u>
TOC	4.3	mg/L	0.5	SM5310C
Lab ID # AA31625	Result		Reporting Limit	<u>Method</u>
COD	13	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19254	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	547.5	MPN/100mL	1	SM9223B

	Weather Code Definitions							
	C nditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale	0 2 00			

Thursday, July 30, 2015 Page 232 of 433

Wind Direction

Wind Strength

Phosphorus, Total

SiteID: WMI-04-0018 USGS Hydrologic Unit: 051201030402 Stream Name: Rees Ditch County: Delaware Description: CR 350 E Latitude: 40 20 8.40445 Longitude: -85 19 24.36091 Drainage: 13.065 Site Number: 14T-123 SiteID: WMI-04-0018 Sample Date: 04/15/2014 IDEM Sample #: AB16179 ☐ Algae? **Water Appearance Water Depth** Water Flow Type Murky ☐ Flow Estimated? Water Flow (cf/sec): □ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 90.8 % DO 11.14 mg/L ASTM D888-09(C) pH (Field) 7.79 SU EPA 150.2 Specific Conductance (Field) 622 umho/cm SM2510B Temperature 6.47 °C SM2550B(2) Turbidity (Hach) 21 NTU EPA 180.1 Air Temp 2 Lookup Observation Sky Conditions 2 Lookup Observation

27 Lookup

2 Lookup

Observation

Observation

SM4500P-E

Lab ID # 3010921	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	24	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	14	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370	mg/L	10	SM2540C
Sulfate	39	mg/L	15	EPA 300.0
Lab ID # 3010924	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	83	mg/L	0.1	EPA 200.7
Magnesium (Total)	27	mg/L	0.1	EPA 200.7
Lab ID # 3010925	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3010928	<u>Result</u>		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	EPA 353.2
Lab ID # 3010931	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 233 of 433

0.16 mg/L

0.05

Lab ID # 3010934			Result		Reporting Limit	<u>Method</u>
TOC			4.2	mg/L	0.5	SM5310C
Lab ID # AA14514			<u>Result</u>		Reporting Limit	Method
COD			5.4	mg/L	10	EPA 410.4
TKN			0.55	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16179			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			1553.1	MPN/100mL	1	SM9223B
E. coli			129.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0018	Sample Date:	04/22/2014		IDEM Sample	#• AB16422	
Water Flow Type Glide	Sample Date:	Appearance	Murky	IDEM Sample	#: AB10423	☐ Algae?
					·	_
Water Flow (cf/sec): Sampler Comments: Nesting	geese directly up	v Estimated? ostream	□ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			98	%		ASTM D888-09(C)
DO			10.29	mg/L		ASTM D888-09(C)
pH (Field)			7.84	SU		EPA 150.2
Specific Conductance (Field)			696	umho/cm		SM2510B
Temperature			13.03	°C		SM2550B(2)
Turbidity (Hach)			12.7	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			2	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			2	Lookup		Observation
Lab ID # AB16423			Result		Reporting Limit	Method
Lab ID # AB16423 Coliforms (Total)				MPN/100mL	Reporting Limit	Method SM9223B

Thursday, July 30, 2015 Page 234 of 433

SiteID: WMI-04-0018	Sample Date: 04/29/2014	IDEM Sample #: AB16495				
Water Flow Type Run	Water Appearance	Brown	1	Water Depth	☐ Algae?	
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%	
Sampler Comments:						
Lab ID#		Result		Reporting Limit	<u>Method</u>	
% Sat		78	%		ASTM D888-09(C)	
DO		8.14	mg/L		ASTM D888-09(C)	
pH (Field)		7.63	SU		EPA 150.2	
Specific Conductance (Field)		382	umho/cm		SM2510B	
Temperature		13.35	°C		SM2550B(2)	
Turbidity (Hach)		208	NTU		EPA 180.1	
Air Temp		4	Lookup		Observation	
Sky Conditions			Lookup		Observation	
Wind Direction			Lookup		Observation	
Wind Strength		3	Lookup		Observation	
Lab ID # AB16495a		Result		Reporting Limit	<u>Method</u>	
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B	
					CMOOOD	
E. coli SiteID: WMI-04-0018	Sample Date: 05/06/2014	2142	MPN/100mL IDEM Sample	10 #: AB16814	SM9223B	
SiteID: WMI-04-0018	Sample Date: 05/06/2014 Water Appearance	2142 Clear	IDEM Sample		✓ Algae?	
SiteID: WMI-04-0018 Water Flow Type Glide	·	Clear	IDEM Sample	#: AB16814	✓ Algae?	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16814 Water Depth	✓ Algae?	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16814 Water Depth	✓ Algae?	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample \ uatic Life?	#: AB16814 Water Depth Canopy Closed %	✓ Algae? 0-20%	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample \text{ uatic Life?}	#: AB16814 Water Depth Canopy Closed %	✓ Algae? 0-20% Method	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Aq Result	IDEM Sample Nuatic Life? % mg/L	#: AB16814 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)	
SiteID: WMI-04-0018 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Aq Result 100.7 10.96 7.64	IDEM Sample Nuatic Life? % mg/L	#: AB16814 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)	
SiteID: WMI-04-0018 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Aq Result 100.7 10.96 7.64	IDEM Sample Juatic Life? % mg/L SU umho/cm	#: AB16814 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2	
SiteID: WMI-04-0018 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 100.7 10.96 7.64 712	We mg/L SU umho/cm °C	#: AB16814 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B	
SiteID: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 100.7 10.96 7.64 712 11.45 8.18	We mg/L SU umho/cm °C	#: AB16814 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)	
SiteID: WMI-04-0018 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 100.7 10.96 7.64 712 11.45 8.18 3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16814 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: WMI-04-0018 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 100.7 10.96 7.64 712 11.45 8.18 3 2	## Cookup	#: AB16814 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: WMI-04-0018 Nater Flow Type Glide Nater 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 100.7 10.96 7.64 712 11.45 8.18 3 2 27	"We will be solved by the second by the second by the second be second by the second b	#: AB16814 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: WMI-04-0018 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 100.7 10.96 7.64 712 11.45 8.18 3 2 27	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16814 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: WMI-04-0018 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 100.7 10.96 7.64 712 11.45 8.18 3 2 27 2 Result	"We mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16814 Nater 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	

Thursday, July 30, 2015 Page 235 of 433

SiteID: WMI-04-0018 **Sample Date**: 05/13/2014 **IDEM Sample #**: AB16947

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

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

Sampler Comments:

% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	7.46 690 18.99 6.91 5	mg/L SU umho/cm	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	5.99 7.46 690 18.99 6.91 5	mg/L SU umho/cm °C NTU		ASTM D888-09(C) EPA 150.2 SM2510B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	7.46 690 18.99 6.91 5	SU umho/cm °C NTU		EPA 150.2 SM2510B
Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	690 18.99 6.91 5	umho/cm °C NTU		SM2510B
Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	18.99 6.91 5 2	°C NTU		
Turbidity (Hach) Air Temp Sky Conditions Wind Direction	6.91 5 2	NTU		
Air Temp Sky Conditions Wind Direction	5 2	_		SM2550B(2)
Sky Conditions Wind Direction	2	Lookup		EPA 180.1
Wind Direction				Observation
	27	Lookup		Observation
Wind Strength		Lookup		Observation
Time Calonyal	2	Lookup		Observation
Lab ID # 3027079	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	270	mg/L	1	SM2320B
Chloride	39	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400	mg/L	10	SM2540C
Sulfate	44	mg/L	15	EPA 300.0
Lab ID # 3027080	Result		Reporting Limit	Method
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	81	mg/L	0.1	EPA 200.7
Magnesium (Total)	28	mg/L	0.1	EPA 200.7
Lab ID # 3027081	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027082	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	EPA 353.2
Lab ID # 3027083	Result		Reporting Limit	Method
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3027084	Result		Reporting Limit	<u>Method</u>
TOC	4.7	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 236 of 433

Water Flow Type Run Water Appearance Brown Water Depth □ AI Water Flow (ct/sec): □ Flow Estimated? □ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Result Reporting Limit Methods Lab ID # Result Reporting Limit Methods DO 6.62 mg/L A STM D88 DF (Field) 7.24 SU EPA 16 Specific Conductance (Field) 545 umho/cm SMZ556 Turbidity (Hach) 53.1 NTU EPA 16 SMZ556 Turbidity (Hach) 53.1 NTU EPA 18 EPA 18 Air Temp 4 Lookup Observa Observa Sky Conditions 8 Lookup Observa Observa Observa Wind Direction 27 Lookup Observa Observa Wind Strength 2 Lookup Observa Chloride	
Coliforms (Total) Sample Date: 06/10/2014 IDEM Sample #: AB17395	Org)-B
Coliforms (Total) > 2419.6 MPN/100mL 2419.6 SM922	
E. coli	<u>iod</u>
SiteID: WMI-04-0018 Sample Date: 06/10/2014 IDEM Sample #: AB17395	23B
Water Flow Type Run Water Appearance Brown Water Depth □ AI Water Flow (ct/sec): □ Flow Estimated? □ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Result Reporting Limit Methods Water Flow (ct/sec): □ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Water Flow (ct/sec): □ Aquatic Life? Canopy Closed % 0-20% ■ A Lab ID # A Sat Masses ■ A Sat Masses DO A Sat Masses ■	23B
Nater Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%	
Result Reporting Limit Meth	gae?
Result Reporting Limit Meth.	
% Sat 68.2 % ASTM D88 DO 6.62 mg/L ASTM D88 pH (Field) 7.24 SU EPA 15 Specific Conductance (Field) 545 umho/cm SM251 Temperature 16.32 °C SM2550 Turbidity (Hach) 53.1 NTU EPA 16 Air Temp 4 Lookup Observa Sky Conditions 8 Lookup Observa Wind Direction 27 Lookup Observa Wind Strength 2 Lookup Observa Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sul	
DO 6.62 mg/L ASTM D88 pH (Field) 7.24 SU EPA 15 Specific Conductance (Field) 545 umho/cm SM251 Temperature 16.32 °C SM2550 Turbidity (Hach) 53.1 NTU EPA 16 Air Temp 4 Lookup Observa Sky Conditions 8 Lookup Observa Wind Direction 27 Lookup Observa Wind Strength 2 Lookup Observa Wind Strength 2 Lookup Observa Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 5 EPA 30 Sulfate 27 mg/L 5 EPA 30 Sulfate 27 mg/L 5 EPA 30	<u>iod</u>
pH (Field) 7.24 SU EPA 15 Specific Conductance (Field) 545 umho/cm SM251 Temperature 16.32 °C SM2550 Turbidity (Hach) 53.1 NTU EPA 18 Air Temp 4 Lookup Observation Sky Conditions 8 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3042517 Result Reporting Limit Method Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	8-09(C)
Specific Conductance (Field) 545 umho/cm SM251 Temperature 16.32 °C SM2550 Turbidity (Hach) 53.1 NTU EPA 18 Air Temp 4 Lookup Observation Sky Conditions 8 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3042517 Result Reporting Limit Method Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	8-09(C)
Temperature 16.32 °C SM2550 Turbidity (Hach) 53.1 NTU EPA 18 Air Temp 4 Lookup Observa Sky Conditions 8 Lookup Observa Wind Direction 27 Lookup Observa Wind Strength 2 Lookup Observa Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Turbidity (Hach) 53.1 NTU EPA 18 Air Temp 4 Lookup Observa Sky Conditions 8 Lookup Observa Wind Direction 27 Lookup Observa Wind Strength 2 Lookup Observa Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Air Temp	, ,
Sky Conditions 8 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3042517 Result Reporting Limit Method Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Wind Direction 27 Lookup Observation Wind Strength 2 Lookup Observation Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Wind Strength 2 Lookup Observation Lab ID # 3042517 Result Reporting Limit Meth Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride Chloride 16 mg/L 2 EPA 30 Chloride Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Chloride Solids, Total (TS) 370 mg/L 10 SM254 Chloride Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Chloride Sulfate 27 mg/L 5 EPA 30 Chloride	
Lab ID # 3042517 Result Reporting Limit Method Alkalinity (as CaCO3) 190 mg/L 1 SM232 Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Alkalinity (as CaCO3) Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 190 mg/L 10 SM254	ation
Chloride 16 mg/L 2 EPA 30 Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	<u>od</u>
Solids, Suspended Total, (TSS) 28 mg/L 10 SM254 Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Solids, Total (TS) 370 mg/L 10 SM254 Solids, Total Dissolved (TDS) 310 mg/L 10 SM254 Sulfate 27 mg/L 5 EPA 30	
Solids, Total Dissolved (TDS) Sulfate 310 mg/L 10 SM254 5 EPA 30	
Sulfate 27 mg/L 5 EPA 30	
	JU.U
Lab ID # 3042518 Result Reporting Limit Meth	<u>od</u>
Hardness (as CaCO3) 260 mg/L 0.66 SM234	
Calcium (Total) 68 mg/L 0.1 EPA 20	
Magnesium (Total) 21 mg/L 0.1 EPA 20	0.7
Lab ID # 3042519 Result Reporting Limit Meth	<u>iod</u>
Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500N	IH3-D
Lab ID # 3042520 Result Reporting Limit Meth	od
Nitrogen, Nitrate+Nitrite 5.4 mg/L 0.1 EPA 35	

Thursday, July 30, 2015 Page 237 of 433

Lab ID # 3042521		Result		Reporting Limit	Method
Phosphorus, Total		0.3	mg/L	0.05	SM4500P-E
Lab ID # 3042522		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		5.9	mg/L	0.5	SM5310C
Lab ID # AA20555		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		0.9	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17395		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		579.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0018	Sample Date: 07/08/2014		IDEM Sample	#: AB17569	
Nater Flow Type Run	Water Appearance	Brown	w	ater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:			quado Ello :	canopy crocou //	0 2070
Lab ID #		Darrell		Dan author Liveti	Madhad
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		87.2			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.64			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		19.34			SM2550B(2)
Turbidity (Hach)		1000			EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3060085		Result		Reporting Limit	Method
Lab ID # 3060085 Alkalinity (as CaCO3)		81	mg/L	Reporting Limit	Method SM2320B
		81	mg/L mg/L		
Alkalinity (as CaCO3) Chloride		81	-	1	SM2320B
Alkalinity (as CaCO3) Chloride		81 6.7 3000	mg/L	1 2	SM2320B EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		81 6.7 3000 3400	mg/L mg/L	1 2 10	SM2320B EPA 300.0 SM2540D
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		81 6.7 3000 3400 390	mg/L mg/L mg/L	1 2 10 10	SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		81 6.7 3000 3400 390	mg/L mg/L mg/L mg/L	1 2 10 10	SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		81 6.7 3000 3400 390 27	mg/L mg/L mg/L mg/L	1 2 10 10 10 5	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3060086		81 6.7 3000 3400 390 27 Result	mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5 Reporting Limit	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 238 of 433

Lab ID # 3060087		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060088		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.8	mg/L	0.1	EPA 353.2
Lab ID # 3060089		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.98	mg/L	0.05	SM4500P-E
Lab ID # 3060090		Result		Reporting Limit	<u>Method</u>
TOC		6.7	mg/L	0.5	SM5310C
Lab ID # AA22939		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17569a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	24196	SM9223B
E. coli		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0018	Sample Date: 07/15/2014		IDEM Sample #	: AB18381	
Water Flow Type Pool	Water Appearance	Clear	Wa	ater Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		68	%		SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)		7.71	SU		EPA 150.2
Specific Conductance (Field)		703	umho/cm		SM2510B
Temperature		20.08	°C		SM2550B(2)
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation

Thursday, July 30, 2015 Page 239 of 433

SiteID: WMI-04-0018 **Sample Date:** 08/19/2014 **IDEM Sample #**: AB18757

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	Method
% Sat	59.6	%		ASTM D888-09(C
DO	5.72	mg/L		ASTM D888-09(C
pH (Field)	7.5	SU		EPA 150.2
Specific Conductance (Field)	774	umho/cm		SM2510B
Temperature	17.36	°C		SM2550B(2)
Turbidity (Hach)	5.2	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction		Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087161	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	320	mg/L	1	SM2320B
Chloride	17	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	480	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	410	mg/L	10	SM2540C
Sulfate	58	mg/L	25	EPA 300.0
Lab ID # 3087162	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	370	mg/L	0.66	SM2340B
Calcium (Total)	97	mg/L	0.1	EPA 200.7
Magnesium (Total)	31	mg/L	0.1	EPA 200.7
Lab ID # 3087163	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087164	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3087165	Result		Reporting Limit	Method
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3087166	Result		Reporting Limit	<u>Method</u>
TOC	2.4	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 240 of 433

Lab ID # AA25801		<u>Result</u>		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		0.47	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18757		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0018	Sample Date: 09/16/2014		IDEM Sample	#: AB19072	
Vater Flow Type Glide	Water Appearance	Clear	v	Vater 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		72.6	%		ASTM D888-09(C)
DO		7.53	mg/L		ASTM D888-09(C)
pH (Field)		7.48	SU		EPA 150.2
Specific Conductance (Field)		719	umho/cm		SM2510B
Temperature		13.67	°C		SM2550B(2)
Turbidity (Hach)		6.17	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105560		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		290	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		410	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		49	mg/L	25	EPA 300.0
Lab ID # 3105561		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105562		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105563		Result		Reporting Limit	Method

Thursday, July 30, 2015 Page 241 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105564

				Wethou
	0.08	mg/L	0.05	SM4500P-E
	Result		Reporting Limit	Method
	3.2	mg/L	0.5	SM5310C
	Result		Reporting Limit	Method
	8	mg/L	10	EPA 410.4
	< 0.3	mg/L	0.3	SM4500N(Org)-B
	<u>Result</u>		Reporting Limit	Method
			2419.6	SM9223B
	547.5	MPN/100mL	1	SM9223B
Sample Date: 10/28/2014		IDEM Sample	#: AB19255	
Water Appearance	Clear	-		✓ Algae?
☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
	,			
	Result		Reporting Limit	<u>Method</u>
·	59.9	%		ASTM D888-09(C)
		-		ASTM D888-09(C)
				EPA 150.2
				SM2510B
				SM2550B(2)
				EPA 180.1
		•		Observation
				Observation
				Observation Observation
	Result		Reporting Limit	<u>Method</u>
	310	mg/L	1	SM2320B
		-	2	EPA 300.0
		-	10	SM2540D
	430	mg/L	10	SM2540B
	420	mg/L	10	SM2540C
	59	mg/L	5	EPA 300.0
	<u>Result</u>		Reporting Limit	Method
		mg/L	Reporting Limit 0.66	Method SM2340B
	370	mg/L mg/L		
	Water Appearance	Result 8 < 0.3	Result 8 mg/L < 0.3 mg/L	Result Reporting Limit

Thursday, July 30, 2015 Page 242 of 433

Lab ID # 3130508	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130509	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	EPA 353.2
Lab ID # 3130510	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.05	mg/L	0.05	SM4500P-E
Lab ID # 3130511	Result		Reporting Limit	<u>Method</u>
TOC	3.3	mg/L	0.5	SM5310C
Lab ID # AA31626	Result		Reporting Limit	<u>Method</u>
COD	8	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19255	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	1986.3	MPN/100mL	1	SM9223B

	Weather Code Definitions								
	SC WD Conditions Wind Direction		SC Sky Conditions		WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32				
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45				
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60				
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75				
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85				
6 - Fog				5 - Strong	6 - > 86				
7 - Shower				6 - Gale	0 2 00				

Thursday, July 30, 2015 Page 243 of 433

SiteID:WMI-04-0016USGS Hydrologic Unit:051201030402Stream Name:Bosman DitchCounty:Delaware

Drainage: 5.452 Site Number: 14T-124

SiteID: WMI-04-0016 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16180

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	101.8	%		ASTM D888-09(C)
DO	12.48	mg/L		ASTM D888-09(C)
pH (Field)	7.96	SU		EPA 150.2
Specific Conductance (Field)	586	umho/cm		SM2510B
Temperature	6.54	°C		SM2550B(2)
Turbidity (Hach)	17	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3011012	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	22	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	13	mg/L	10	SM2540D
Solids, Total (TS)	350	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	33	mg/L	15	EPA 300.0
Lab ID # 3011013	Result		Reporting Limit	Method
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	79	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3011014	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011015	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.9	mg/L	0.1	EPA 353.2
Lab ID # 3011016	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 244 of 433

Lab ID # 3011017		Result		Reporting Limit	<u>Method</u>
TOC		4.1	mg/L	0.5	SM5310C
			J		
Lab ID # AA14517		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.37	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16180		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		1732.9	MPN/100mL	1	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
Nater Flow Type Glide	Sample Date: 04/22/2014 Water Appearance	Murky	•	#: AB16424 /ater Depth	✓ Algae?
	Water Appearance		W	later Depth	_
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:			•		_
Nater Flow (cf/sec):	Water Appearance		W	later Depth	_
Nater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Aq	Wuatic Life?	/ater Depth Canopy Closed %	0-20%
Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	✓ Ac	watic Life?	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 116.1 12.17 8.04	watic Life? % mg/L SU	/ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result 116.1 12.17 8.04 625	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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 116.1 12.17 8.04 625 13.24	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 116.1 12.17 8.04 625 13.24 6.33	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 116.1 12.17 8.04 625 13.24 6.33 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
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 116.1 12.17 8.04 625 13.24 6.33 4 2	watic Life? % mg/L SU umho/cm °C NTU Lookup 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 Observation
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 116.1 12.17 8.04 625 13.24 6.33 4 2	% 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

Result

> 2419.6 MPN/100mL

124.6 MPN/100mL

Reporting Limit

2419.6

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 245 of 433

Lab ID # AB16424

Coliforms (Total)

E. coli

SiteID: WMI-04-0016	Sample Date: 04/29/2014		IDEM Sample	#: AB16496	
Water Flow Type Glide	Water Appearance	Brown	V	Vater 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		88.4	%		ASTM D888-09(C)
DO		9.14	mg/L		ASTM D888-09(C)
pH (Field)		7.68	SU		EPA 150.2
Specific Conductance (Field)		427	umho/cm		SM2510B
Temperature		13.77	°C		SM2550B(2)
Turbidity (Hach)		158	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # AB16496a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
		2202	MPN/100mL	10	SM9223B
E. coli SiteID: WMI-04-0016	Sample Date: 05/06/2014	2302	IDEM Sample		GWGZZGB
SiteID: WMI-04-0016	Sample Date: 05/06/2014 Water Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-04-0016 Water Flow Type Glide	•	Clear	IDEM Sample	#: AB16815	✓ Algae?
SiteID: WMI-04-0016	Water Appearance	Clear	IDEM Sample	#: AB16815 Vater Depth	✓ Algae?
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16815 Vater Depth	✔ Algae?
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Ac	IDEM Sample V quatic Life?	#: AB16815 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear ✓ Ac	IDEM Sample V quatic Life?	#: AB16815 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result 126.6 13.72	IDEM Sample V quatic Life?	#: AB16815 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 126.6 13.72 7.9 625	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16815 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 126.6 13.72 7.9	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16815 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 126.6 13.72 7.9 625 11.71	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16815 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 126.6 13.72 7.9 625 11.71 4.74	IDEM Sample V quatic Life? % mg/L SU umho/cm °C	#: AB16815 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 126.6 13.72 7.9 625 11.71 4.74 2	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU	#: AB16815 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-04-0016 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 126.6 13.72 7.9 625 11.71 4.74 2 1	IDEM Sample Viquatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16815 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: WMI-04-0016 Nater Flow Type Glide Nater 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 126.6 13.72 7.9 625 11.71 4.74 2 1 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16815 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-04-0016 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 126.6 13.72 7.9 625 11.71 4.74 2 1 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16815 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
SiteID: WMI-04-0016 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 126.6 13.72 7.9 625 11.71 4.74 2 1 27 3 Result	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16815 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

Thursday, July 30, 2015 Page 246 of 433

SiteID: WMI-04-0016 **Sample Date**: 05/13/2014 **IDEM Sample #**: AB16948

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	99	%		ASTM D888-09(C)
DO	9.02	mg/L		ASTM D888-09(C)
pH (Field)	7.75	SU		EPA 150.2
Specific Conductance (Field)	607	umho/cm		SM2510B
Temperature	19.85	°C		SM2550B(2)
Turbidity (Hach)	7.94	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3027087	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	24	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360	mg/L	10	SM2540C
Sulfate	33	mg/L	15	EPA 300.0
Lab ID # 3027088	Result		Reporting Limit	Method
Hardness (as CaCO3)	300	mg/L	0.66	SM2340B
Calcium (Total)	74	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3027089	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027090	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.5	mg/L	0.1	EPA 353.2
Lab ID # 3027091	<u>Result</u>		Reporting Limit	Method
Phosphorus, Total	0.06	mg/L	0.05	SM4500P-E
Lab ID # 3027092	<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 247 of 433

Lab ID # AA17823		<u>Result</u>		Reporting Limit	Method
COD		5	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16948		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-04-0016	Sample Date: 06/10/2014		IDEM Sample	#: AB17396	
Nater Flow Type Run	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	Method
% Sat		81.2	%	-	ASTM D888-09(C)
% Sat DO			mg/L		ASTM D888-09(C)
pH (Field)		7.46	•		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.33			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 # 3042525		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		170	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS) Sulfate			mg/L mg/L	10 5	SM2540C EPA 300.0
Lab ID # 3042526		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		230	mg/L	0.66	SM2340B
Calcium (Total)		59	mg/L	0.1	EPA 200.7
Magnesium (Total)		19	mg/L	0.1	EPA 200.7
Lab ID # 3042527		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
		Result		Reporting Limit	<u>Method</u>
Lab ID # 3042528		resure		rtoporting Limit	

Thursday, July 30, 2015 Page 248 of 433

Lab ID # 3042529		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.27	mg/L	0.05	SM4500P-E
Lab ID # 3042530		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		6.7	mg/L	0.5	SM5310C
Lab ID # AA20556		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		0.8	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17396		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		770.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0016	Sample Date: 07/08/2014		IDEM Sample	#: AB17570	
Nater Flow Type Run	Water Appearance	Brown	w	ater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		_ 7.0	juulio Elio	canopy crocou //	0 2070
Lab ID #		D 14		Demonstra a Liverte	Madhad
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		69.7			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.53			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		19.19			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3060093		Result		Reporting Limit	Method
Lab ID # 3060093 Alkalinity (as CaCO3)			mg/L	Reporting Limit	Method SM2320B
		60	mg/L mg/L		
Alkalinity (as CaCO3) Chloride		60	-	1	SM2320B
Alkalinity (as CaCO3) Chloride		60 4.9 2500	mg/L	1 2	SM2320B EPA 300.0
Alkalinity (as CaCO3) Chloride Golids, Suspended Total, (TSS)		60 4.9 2500 2500	mg/L mg/L	1 2 10	SM2320B EPA 300.0 SM2540D
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		60 4.9 2500 2500 140	mg/L mg/L mg/L	1 2 10 10	SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		60 4.9 2500 2500 140	mg/L mg/L mg/L mg/L	1 2 10 10	SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		60 4.9 2500 2500 140 9.2 Result	mg/L mg/L mg/L mg/L	1 2 10 10 10 5	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3060094		60 4.9 2500 2500 140 9.2 Result	mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5 Reporting Limit	SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 249 of 433

Lab ID # 3060095		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060096		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.6	mg/L	0.1	EPA 353.2
Lab ID # 3060097		Result		Reporting Limit	Method
Phosphorus, Total		0.78	mg/L	0.05	SM4500P-E
Lab ID # 3060098		Result		Reporting Limit	<u>Method</u>
TOC		4.6	mg/L	0.5	SM5310C
Lab ID # AA22940		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17570a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		10462	MPN/100mL	10	SM9223B
CitalD: WMI 04 004C	Carryla Data: 07/45/0044		IDEM Commis	- #- AD40000	
SiteID: WMI-04-0016	Sample Date: 07/15/2014		_	e#: AB18380	
Nater Flow Type Run	Water Appearance	Clear		Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		57.6	%		SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)		7.79	-		EPA 150.2
Specific Conductance (Field)		659	umho/cm		SM2510B
Temperature		19.27	°C		SM2550B(2)
Turbidity (Hach)		3.4	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions		3	Lookup		Observation
					6 1 11

Thursday, July 30, 2015 Page 250 of 433

27 Lookup

1 Lookup

Observation

Observation

Wind Direction

Wind Strength

SiteID: WMI-04-0016 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18758

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	Method
% Sat	70.3	%		ASTM D888-09(C)
DO	6.72	mg/L		ASTM D888-09(C
pH (Field)	7.53	SU		EPA 150.2
Specific Conductance (Field)	743	umho/cm		SM2510B
Temperature	17.38	°C		SM2550B(2)
Turbidity (Hach)	3.16	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 # 3087169	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	18	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	430	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400	mg/L	10	SM2540C
Sulfate	64	mg/L	25	EPA 300.0
Lab ID # 3087170	Result		Reporting Limit	Method
Hardness (as CaCO3)	360	mg/L	0.66	SM2340B
Calcium (Total)	95	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3087171	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087172	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
Lab ID # 3087173	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3087174	<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 251 of 433

Lab ID # AA25802		<u>Result</u>		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		0.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18758		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		387.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0016	Sample Date: 09/16/2014		IDEM Sample	#: AB19073	
Vater Flow Type Glide	Water Appearance	Clear	v	Vater Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
ampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		76.6	%		ASTM D888-09(C)
DO		7.9	mg/L		ASTM D888-09(C)
pH (Field)		7.53	SU		EPA 150.2
Specific Conductance (Field)		627	umho/cm		SM2510B
Temperature		13.93	°C		SM2550B(2)
Turbidity (Hach)		7.49	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105566		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		250	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		42	mg/L	25	EPA 300.0
Lab ID # 3105567		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3105568		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105569		<u>Result</u>		Reporting Limit	<u>Method</u>
Lab ID # 3103303					

Thursday, July 30, 2015 Page 252 of 433

Lab ID # 3105570		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.11	mg/L	0.05	SM4500P-E
Lab ID # 3105571		<u>Result</u>		Reporting Limit	Method
TOC		3	mg/L	0.5	SM5310C
Lab ID # AA28050		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19073		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		209.8	MPN/100mL	1	SM9223B
SiteID: WMI-04-0016	Sample Date: 10/28/2014		IDEM Sample	#: AB19256	
Nater Flow Type Glide	Water Appearance	Clear	-	Vater Depth	✓ Algae?
Vater Flow (cf/sec):	Flow Estimated?	Π Δα	uatic Life?	Canopy Closed %	
Sampler Comments:	□ 1 low Estimated:		quatic Life:	Callopy Closed 76	0 20 / 0
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		63.4	%		ASTM D888-09(C)
DO		6.6	mg/L		ASTM D888-09(C)
pH (Field)		7.44	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.47			SM2550B(2)
Turbidity (Hach)		3.86	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction		18	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3130514		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	-	300	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate			mg/L	5	EPA 300.0
Lab ID # 3130515		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		92	mg/L	0.1	EPA 200.7
Magnesium (Total)		31	mg/L	0.1	EPA 200.7
hursday, July 30, 2015					Page 253 of 433

Thursday, July 30, 2015 Page 253 of 433

Lab ID # 3130516	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130517	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.5	mg/L	0.1	EPA 353.2
Lab ID # 3130518	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3130519	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC	2.8	mg/L	0.5	SM5310C
Lab ID # AA31627	<u>Result</u>		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.45	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19256	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	61.3	MPN/100mL	1	SM9223B

	Weather Code Definitions							
SC WD WS AT								
Sky Co	nditions	I	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				

Thursday, July 30, 2015 Page 254 of 433

SiteID: WMI-04-0017 USGS Hydrologic Unit: 051201030402 Stream Name: Mississinewa River County: Delaware Description: CR 371 E Latitude: 40 19 7.85842 Lonaitude: -85 19 10.26693 Drainage: 310.689 Site Number: 14T-125 SiteID: WMI-04-0017 IDEM Sample #: AB16181 Sample Date: 04/15/2014 ☐ Algae? Water Flow Type Glide **Water Appearance Water Depth** Murky ☐ Flow Estimated? ■ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 88.8 % DO 10.11 mg/L ASTM D888-09(C) pH (Field) 8.16 SU EPA 150.2 Specific Conductance (Field) 608 umho/cm SM2510B Temperature 9.5 °C SM2550B(2) Turbidity (Hach) 38.3 NTU EPA 180.1 Air Temp 2 Lookup Observation Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength Observation 2 Lookup Lab ID # 3011020 **Reporting Limit Method** Result Alkalinity (as CaCO3) 240 mg/l SM2320B

Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	22	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	30	mg/L	10	SM2540D
Solids, Total (TS)	390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	31	mg/L	15	EPA 300.0
Lab ID # 3011021	Result		Reporting Limit	Method
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	79	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3011022	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011023	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.5	mg/L	0.1	EPA 353.2
Lab ID # 3011024	Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 255 of 433

Lab ID # 3011025		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA14518		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16181		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1299.7	MPN/100mL	1	SM9223B
E. coli		99	MPN/100mL	1	SM9223B
SiteID: WMI-04-0017	Sample Date: 04/22/2014		IDEM Sample	#· AB16425	
Water Flow Type Glide	Water Appearance	Murky		/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		99.4	%		ASTM D888-09(C)
DO		10.06	mg/L		ASTM D888-09(C)
pH (Field)		8.3	SU		EPA 150.2
Specific Conductance (Field)		656	umho/cm		SM2510B
Temperature		14.75	°C		SM2550B(2)
Turbidity (Hach)		14.9	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16425		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		59.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 256 of 433

SiteID: WMI-04-0017	Sample Date: 04/29/2014		IDEM Sample	#: AB16497	
Vater Flow Type Run	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		90.6	%		ASTM D888-09(C)
DO		9.33	mg/L		ASTM D888-09(C)
pH (Field)		8.14	SU		EPA 150.2
Specific Conductance (Field)		587	umho/cm		SM2510B
Temperature		13.96	°C		SM2550B(2)
Turbidity (Hach)		85.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16497		Result		Reporting Limit	Method
E. coli		1046.2	MPN/100mL	1	SM9223B
Lab ID # AB16497a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
	Sample Date: 05/06/2014	> 24196	MPN/100mL IDEM Sample		SM9223B
SiteID: WMI-04-0017	Sample Date: 05/06/2014 Water Appearance	> 24196 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0017 Nater Flow Type Glide	•	Murky	IDEM Sample	#: AB16816	✓ Algae?
SiteID: WMI-04-0017 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16816 Vater Depth	✓ Algae?
SiteID: WMI-04-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample	#: AB16816 Vater Depth	✓ Algae?
SiteID: WMI-04-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Ac	IDEM Sample V juatic Life?	#: AB16816 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Ac Result	IDEM Sample Viguatic Life?	#: AB16816 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0017 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Acc Result 116.6 12.1	IDEM Sample Viguatic Life? % mg/L	#: AB16816 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Murky Ac Result 116.6 12.1 8.34	IDEM Sample Viguatic Life? % mg/L SU	#: AB16816 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0017 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Result 116.6 12.1 8.34 642	IDEM Sample W Juatic Life? % mg/L SU umho/cm	#: AB16816 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0017 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Murky Result 116.6 12.1 8.34 642 13.78	IDEM Sample W Juatic Life? % mg/L SU umho/cm °C	#: AB16816 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0017 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Murky Result 116.6 12.1 8.34 642 13.78 10	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU	#: AB16816 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: WMI-04-0017 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Murky Result 116.6 12.1 8.34 642 13.78 10 3	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16816 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: WMI-04-0017 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	Murky Result 116.6 12.1 8.34 642 13.78 10 3 2	Multic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16816 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: WMI-04-0017 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	Murky Result 116.6 12.1 8.34 642 13.78 10 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16816 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
SiteID: WMI-04-0017 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	Murky Result 116.6 12.1 8.34 642 13.78 10 3 2 27	Multic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16816 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: WMI-04-0017 Nater Flow Type Glide Nater 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	Murky Result 116.6 12.1 8.34 642 13.78 10 3 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16816 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
SiteID: WMI-04-0017 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	Murky Result 116.6 12.1 8.34 642 13.78 10 3 2 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16816 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

Thursday, July 30, 2015 Page 257 of 433

Notor Flow Type Bus	Water Appearance	Drown		Water Depth	Algae?
Nater Flow Type Run	Water Appearance	Brown		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	Method
% Sat		82.3	%		ASTM D888-09(C)
DO		7.28	mg/L		ASTM D888-09(C
pH (Field)		7.96	SU		EPA 150.2
Specific Conductance (Field)		631	umho/cm		SM2510B
Temperature		21.31	°C		SM2550B(2)
Turbidity (Hach)		35.4	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3027095		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		29	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		27	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		41	mg/L	15	EPA 300.0
Lab ID # 3027096		<u>Result</u>		Reporting Limit	Method
Hardness (as CaCO3)		310	mg/L	0.66	SM2340B
Calcium (Total)		71	mg/L	0.1	EPA 200.7
Magnesium (Total)		31	mg/L	0.1	EPA 200.7
Lab ID # 3027097		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027098		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		3.1	mg/L	0.1	EPA 353.2
Lab ID # 3027099		<u>Result</u>		Reporting Limit	Method
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3027100		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 258 of 433

Lab ID # AA17824		<u>Result</u>		Reporting Limit	Method
COD		14	mg/L	10	EPA 410.4
TKN		1.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16949		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		488.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0017	Sample Date: 06/10/2014		IDEM Sample	#: AB17397	
Vater Flow Type Riffle	Water Appearance	Brown	W	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		79.8	%		ASTM D888-09(C)
DO		7.57	mg/L		ASTM D888-09(C)
pH (Field)		7.57	SU		EPA 150.2
Specific Conductance (Field)		510	umho/cm		SM2510B
Temperature		17.76	°C		SM2550B(2)
Turbidity (Hach)		166	NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042533		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		160	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		19	mg/L	5	EPA 300.0
Lab ID # 3042534		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042535		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
		Result		Reporting Limit	<u>Method</u>
Lab ID # 3042536		itesuit		rtoporting Limit	

Thursday, July 30, 2015 Page 259 of 433

Lab ID # 3042537	Ē	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.74	mg/L	0.05	SM4500P-E
Lab ID # 3042538	Ē	Result		Reporting Limit	<u>Method</u>
TOC		6.6	mg/L	0.5	SM5310C
Lab ID # AA20557	Ē	Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.49	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17397	E	Result		Reporting Limit	<u>Method</u>
E. coli		727	MPN/100mL	1	SM9223B
Lab ID # AB17397a	E	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	>	24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0017 Water Flow Type Run Water Flow (cf/sec):	Sample Date: 07/08/2014 Water Appearance ☐ Flow Estimated?	Murky	-	#: AB17571 later Depth Canopy Closed %	☐ Algae? 0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments:	Water Appearance Flow Estimated?	□ Aq	W	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance Flow Estimated?	☐ Aq	Wuatic Life?	ater Depth	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance Flow Estimated?	Result	wuatic 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 Flow Estimated?	Aq	wuatic Life? % 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: Lab ID # % Sat DO pH (Field)	Water Appearance Flow Estimated?	Result 98.8 8.8 8.22	wuatic Life? % mg/L SU	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 Flow Estimated?	Result 98.8 8.8 8.22 599	wuatic 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 Flow Estimated?	Result 98.8 8.8 8.22 599 20.99	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance Flow Estimated?	98.8 8.8 8.22 599 20.99 114	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance Flow Estimated?	98.8 8.8 8.22 599 20.99 114 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
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 Appearance Flow Estimated?	98.8 8.8 8.22 599 20.99 114 4	% mg/L SU umho/cm °C NTU Lookup 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 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 Wind Direction	Water Appearance Flow Estimated?	Result 98.8 8.8 8.22 599 20.99 114 4 4 27	% 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
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 Flow Estimated?	Result 98.8 8.8 8.22 599 20.99 114 4 4 27	% mg/L SU umho/cm °C NTU Lookup 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 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 Wind Direction Wind Strength	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	Result 98.8 8.8 8.22 599 20.99 114 4 4 27	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	98.8 8.8 8.22 599 20.99 114 4 27 1	% 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
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 Lab ID # 3060101	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	98.8 8.8 8.22 599 20.99 114 4 27 1 Result	% mg/L SU umho/cm °C NTU Lookup 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 Method
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 Wind Strength Lab ID # 3060101 Alkalinity (as CaCO3) Chloride	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	98.8 8.8 8.22 599 20.99 114 4 27 1 Result 240 29	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Tater 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 SM2320B
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 Wind Strength Lab ID # 3060101 Alkalinity (as CaCO3)	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	98.8 8.8 8.22 599 20.99 114 4 27 1 Result 240 29 31	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Observation SM2320B EPA 300.0
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 Wind Strength Lab ID # 3060101 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance ☐ Flow Estimated? <u>Flow Estimated</u>	98.8 8.8 8.22 599 114 4 4 27 1 Result 240 29 31 360	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Smarrous Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 260 of 433

Lab ID # 3060102		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		300	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3060103		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060104		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.9	mg/L	0.1	EPA 353.2
Lab ID # 3060105		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3060163		Result		Reporting Limit	Method
TOC		3.9	mg/L	0.5	SM5310C
Lab ID # AA22941		Result		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17571a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli			MPN/100mL	10	SM9223B
SiteID: WMI-04-0017	Sample Date: 08/12/2014		IDFM Sample	•#: AB18379	
Vater Flow Type Run	Water Appearance	Murky	-	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		73.4	%		SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)		8.22			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature					
		22.64			SM2550B(2)
Turbidity (Hach) Air Temp		21.8	°C NTU Lookup		SM2550B(2) EPA 180.1 Observation

Thursday, July 30, 2015 Page 261 of 433

5 Lookup

27 Lookup

1 Lookup

Observation

Observation

Observation

Sky Conditions

Wind Direction

Wind Strength

SiteID: WMI-04-0017	Sample Date: 08/19/2014			
Vater Flow Type Glide	Water Appearance Murk	у	Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Resu	l <u>t</u>	Reporting Limit	<u>Method</u>
% Sat	85	.4 %		ASTM D888-09(C)
DO	7.:	56 mg/L		ASTM D888-09(C)
pH (Field)	8.	06 SU		EPA 150.2
Specific Conductance (Field)	7:	98 umho/cm		SM2510B
Temperature	21.:	27 °C		SM2550B(2)
Turbidity (Hach)	17	.4 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 # 3087183	Resu	<u>lt</u>	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	2	30 mg/L	1	SM2320B
Chloride		18 mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		17 mg/L	10	SM2540D
Solids, Total (TS)	4.	30 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	4.	20 mg/L	10	SM2540C
Sulfate		49 mg/L	25	EPA 300.0
Lab ID # 3087184	Resu	l <u>t</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	3.	20 mg/L	0.66	SM2340B
Calcium (Total)		71 mg/L	0.1	EPA 200.7
Magnesium (Total)		33 mg/L	0.1	EPA 200.7
Lab ID # 3087185	Resu	l <u>t</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	<0	.1 mg/L	0.1	SM4500NH3-D
Lab ID # 3087186	Resu	<u>lt</u>	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	C	.8 mg/L	0.1	EPA 353.2
Lab ID # 3087187	Resu	<u>lt</u>	Reporting Limit	Method
Phosphorus, Total	0.	16 mg/L	0.05	SM4500P-E
Lab ID # 3087188	Resu	<u> t</u>	Reporting Limit	Method
TOC	4	.5 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 262 of 433

Lab ID # AA25804		Result		Reporting Limit	<u>Method</u>
COD		16	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18759		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-04-0017	Sample Date: 09/16/2014		IDEM Sample	#: AB19074	
Vater Flow Type Glide	Water Appearance	Murky	1	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		85.3	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.84	-		EPA 150.2
Specific Conductance (Field)		619	umho/cm		SM2510B
Temperature		14.91	°C		SM2550B(2)
Turbidity (Hach)		19.1	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 # 3105574		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		230	mg/L	1	SM2320B
Chloride		28	mg/L	10	EPA 300.0
olids, Suspended Total, (TSS)		13	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		34	mg/L	25	EPA 300.0
Lab ID # 3105575		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		280	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3105576		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105577		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 263 of 433

Lab ID # 3105578			Result		Reporting Limit	Method
Phosphorus, Total			0.26	mg/L	0.05	SM4500P-E
L ab ID # 3105579			Result		Reporting Limit	<u>Method</u>
TOC			4.9	mg/L	0.5	SM5310C
Lab ID # AA28051			Result		Reporting Limit	Method
COD			11	mg/L	10	EPA 410.4
TKN			0.41	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19074			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			488.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0017	Sample Date:	10/28/2014		IDEM Sample	#: AB19257	
Nater Flow Type Glide	Water A	Appearance	Clear	١	Water Depth	✓ Algae?
Vater Flow (cf/sec):	Flow	Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		Latimateu	Ac	judilo Elic :	Carlopy Glosed 70	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			66.3			ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			7.59			EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			13.93			SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp			3	Lookup		Observation
Sky Conditions			0	La alore		
Wind Direction			8	Lookup		Observation
				Lookup		Observation Observation
Wind Strength			18			
Wind Strength			18	Lookup	Reporting Limit	Observation
Wind Strength			18 1 Result	Lookup	Reporting Limit	Observation Observation
Wind Strength Lab ID # 3130522			18 1 Result	Lookup Lookup		Observation Observation Method
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride			18 1 Result	Lookup Lookup mg/L	1	Observation Observation Method SM2320B
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride			18 1 Result 300 48 < 10	Lookup Lookup mg/L mg/L	1 10	Observation Observation Method SM2320B EPA 300.0
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)			18 1 Result 300 48 < 10 460	Lookup Lookup mg/L mg/L mg/L	1 10 10	Observation Observation Method SM2320B EPA 300.0 SM2540D
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)			18 1 Result 300 48 < 10 460 440	Lookup Lookup mg/L mg/L mg/L mg/L	1 10 10 10	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate			18 1 Result 300 48 < 10 460 440	mg/L mg/L mg/L mg/L mg/L	1 10 10 10	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)			18 1 Result 300 48 < 10 460 440 48 Result	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 5	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Wind Strength Lab ID # 3130522 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130523			18 1 Result 300 48 < 10 460 440 48 Result	mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 5 Reporting Limit	Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 264 of 433

Lab ID # 3130524	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130525	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.1	mg/L	0.1	EPA 353.2
Lab ID # 3130526	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.18	mg/L	0.05	SM4500P-E
Lab ID # 3130527	Result		Reporting Limit	<u>Method</u>
TOC	4.8	mg/L	0.5	SM5310C
Lab ID # AA31628	Result		Reporting Limit	<u>Method</u>
COD	8	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19257	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	48.7	MPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 265 of 433

USGS Hydrologic Unit: 051201030404 **SiteID:** WMI-04-0019 Stream Name: Mississinewa River County: Delaware Description: Romy Street 40 20 18.34946 Longitude: -85 21 17.07164 Drainage: 334.545 Site Number: 14T-126 **SiteID:** WMI-04-0019 Sample Date: 04/15/2014 IDEM Sample #: AB16182 ☐ Algae? Water Flow Type Run **Water Appearance** Murky **Water Depth** ☐ Aquatic Life? ☐ Flow Estimated? Water Flow (cf/sec): Canopy Closed % 0-20% Sampler Comments: FLOW NOT TAKEN DUE TO FLOODING

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	91.8	%		ASTM D888-09(C
DO	10.42	mg/L		ASTM D888-09(C
pH (Field)	8.14	SU		EPA 150.2
Specific Conductance (Field)	598	umho/cm		SM2510B
Temperature	9.5	°C		SM2550B(2)
Turbidity (Hach)	39.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	3	Lookup		Observation
Lab ID # 3011028	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	23	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	31	mg/L	10	SM2540D
Solids, Total (TS)	400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	31	mg/L	15	EPA 300.0
Lab ID # 3011029	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	77	mg/L	0.1	EPA 200.7
Magnesium (Total)	29	mg/L	0.1	EPA 200.7
Lab ID # 3011030	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011031	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	5.1	mg/L	0.1	EPA 353.2
Lab ID # 3011032	<u>Result</u>		Reporting Limit	<u>Method</u>
Dhaankama Tatal	0.07	,,	0.05	01445000 5

Thursday, July 30, 2015 Page 266 of 433

0.27 mg/L

0.05

SM4500P-E

Phosphorus, Total

Lab ID # 3011033		Result		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA14519		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.41	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16182		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		125.9	MPN/100mL	1	SM9223B
C:t-ID: WMI 04 0040	Commis Data: 04/22/2014		IDEM Commis	#. AD46406	
SiteID: WMI-04-0019 Water Flow Type Glide	Sample Date: 04/22/2014 Water Appearance	Murky	IDEM Sample	#: AB10420 /ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	Δn	uatic Life?	Canopy Closed %	_
Sampler Comments:			autio Eiio i	canopy ciocoa //	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		105.4	%		ASTM D888-09(C)
DO		10.62	mg/L		ASTM D888-09(C)
pH (Field)		8.38	SU		EPA 150.2
Specific Conductance (Field)		655	umho/cm		SM2510B
Temperature		14.99	°C		SM2550B(2)
Turbidity (Hach)		15.6	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # AB16426		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		50.4	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 267 of 433

	Sample Date:	04/29/2014		IDEM Sample	#: AB16498	
Water Flow Type Riffle	Water	Appearance	Brown	V	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow	w Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			97.4	%		ASTM D888-09(C)
DO			9.96	mg/L		ASTM D888-09(C)
pH (Field)			8.26	SU		EPA 150.2
Specific Conductance (Field)			600	umho/cm		SM2510B
Temperature			14.24	°C		SM2550B(2)
Turbidity (Hach)			56.9	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Trina Guerigui				200.00		000011411011
Lab ID # AB16498			Result		Reporting Limit	<u>Method</u>
E. coli			770.1	MPN/100mL	1	SM9223B
Lab ID # AB16498a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
Coliforms (Total) SiteID: WMI-04-0019 Water Flow Type Run	Sample Date:	05/06/2014 Appearance	> 24196 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0019	Sample Date:		Murky	IDEM Sample	#: AB16817	✓ Algae?
SiteID: WMI-04-0019 Water Flow Type Run	Sample Date:	Appearance	Murky	IDEM Sample	#: AB16817 /ater Depth	✓ Algae?
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec):	Sample Date:	Appearance	Murky	IDEM Sample	#: AB16817 /ater Depth	✓ Algae?
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Sample Date: Water	Appearance	Murky	IDEM Sample W quatic Life?	#: AB16817 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Sample Date: Water	Appearance	Murky Acc Result 117.9	IDEM Sample W quatic Life?	#: AB16817 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Sample Date: Water	Appearance	Murky Acc Result 117.9	IDEM Sample Viquatic Life? % mg/L	#: AB16817 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37	IDEM Sample Viquatic Life? % mg/L	#: AB16817 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37	IDEM Sample Viquatic Life? % mg/L SU umho/cm	#: AB16817 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72	IDEM Sample Viquatic Life? % mg/L SU umho/cm	#: AB16817 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72 10.4	IDEM Sample Viquatic Life? % mg/L SU umho/cm °C NTU	#: AB16817 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: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72 10.4 4	IDEM Sample Viquatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16817 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: WMI-04-0019 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	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72 10.4 4 1	IDEM Sample Viquatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16817 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: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72 10.4 4 1	IDEM Sample Viquatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16817 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: WMI-04-0019 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Sample Date: Water	Appearance	Murky Result 117.9 12.2 8.37 640 13.72 10.4 4 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16817 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: WMI-04-0019 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	Sample Date: Water	Appearance w Estimated?	Murky Result 117.9 12.2 8.37 640 13.72 10.4 4 1 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16817 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

Thursday, July 30, 2015 Page 268 of 433

Nater Flow Type Run	Water Appearance	Murky		Water Depth	✓ Algae?
	☐ Flow Estimated?		uatic Life?	-	_
Nater Flow (cf/sec):	☐ Flow Estimated?	□ A0	juatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		91.7	%		ASTM D888-09(C)
DO		8.03	mg/L		ASTM D888-09(C)
pH (Field)		8.01	SU		EPA 150.2
Specific Conductance (Field)		645	umho/cm		SM2510B
Temperature		21.84	°C		SM2550B(2)
Turbidity (Hach)		18.4	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3027103		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		250	mg/L	1	SM2320B
Chloride		31	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		25	mg/L	10	SM2540D
Solids, Total (TS)		400	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		380	mg/L	10	SM2540C
Sulfate		42	mg/L	15	EPA 300.0
Lab ID # 3027104		Result		Reporting Limit	Method
Hardness (as CaCO3)		310	mg/L	0.66	SM2340B
Calcium (Total)		73	mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3027105		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027106		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2.4	mg/L	0.1	EPA 353.2
Lab ID # 3027107		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3027108		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 269 of 433

Lab ID # AA17825		Result		Reporting Limit	Method
COD		14	mg/L	10	EPA 410.4
TKN		1.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16950		Result		Reporting Limit	Method
Coliforms (Total)			MPN/100mL	2419.6	SM9223B
E. coli		435.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0019	Sample Date: 06/10/2014		IDEM Sample :	#: AB17398	
Nater Flow Type Run	Water Appearance	Brown	W	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		84	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.62			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		17.92			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042541		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		19	mg/L	5	EPA 300.0
Lab ID # 3042542		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042543		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
				Dan antin n Limit	Mathad
Lab ID # 3042544		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 270 of 433

Lab ID # 3042545		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.48	mg/L	0.05	SM4500P-E
Lab ID # 3042546		<u>Result</u>		Reporting Limit	Method
TOC		6.8	mg/L	0.5	SM5310C
Lab ID # AA20558		Result		Reporting Limit	<u>Method</u>
COD		22	mg/L	10	EPA 410.4
TKN		1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17398		Result		Reporting Limit	<u>Method</u>
E. coli		1299.7	MPN/100mL	1	SM9223B
Lab ID # AB17398a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0019 S Water Flow Type Run	Sample Date: 07/08/2014 Water Appearance	Murky	IDEM Sample :	#: AB17572 /ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	
Water Flow (cf/sec): Sampler Comments: Lab ID #				-	
Sampler Comments:		☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		Result	uatic Life?	Canopy Closed %	0-20% Method
Sampler Comments: Lab ID # % Sat		Result	yuatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO		Result 109 9.62 8.29	yuatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Sampler Comments: Lab ID # % Sat DO pH (Field)		Result 109 9.62 8.29	% mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		Result 109 9.62 8.29 607 21.36	% mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 109 9.62 8.29 607 21.36 21.6 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)
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 109 9.62 8.29 607 21.36 21.6 4	% 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 Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 109 9.62 8.29 607 21.36 21.6 4	% mg/L SU umho/cm °C NTU Lookup	Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 109 9.62 8.29 607 21.36 21.6 4 4 27	% 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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		Result 109 9.62 8.29 607 21.36 21.6 4 4 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		Result 109 9.62 8.29 607 21.36 21.6 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060108		Result 109 9.62 8.29 607 21.36 21.6 4 27 2 Result 240 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	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
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060108 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		Result 109 9.62 8.29 607 21.36 21.6 4 4 27 2 Result 240 27 11	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	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 Observation Method SM2320B
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060108 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		Result 109 9.62 8.29 607 21.36 21.6 4 27 2 Result 240 27 11 380	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Observation SM2320B EPA 300.0
Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060108 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		Result 109 9.62 8.29 607 21.36 21.6 4 4 27 2 Result 240 27 11 380 340	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 271 of 433

Lab ID # 3060109		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		290	mg/L	0.66	SM2340B
Calcium (Total)		70	mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3060110		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060111		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.9	mg/L	0.1	EPA 353.2
Lab ID # 3060112		Result		Reporting Limit	Method
Phosphorus, Total		0.18	mg/L	0.05	SM4500P-E
Lab ID # 3060113		Result		Reporting Limit	<u>Method</u>
тос		4	mg/L	0.5	SM5310C
Lab ID # AA22942		Result		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN		0.35	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17572		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1553.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0019	Sample Date: 08/12/2014		IDEM Sample	#· ∆R18367	
Water Flow Type Run	Water Appearance	Murky	-	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	_
Sampler Comments:	□ FIOW ESUINATED?	. ✓ AC	qualic Lile?	Carlopy Closed %	0-20 /0
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		90	%		SM4500-OG
DO			mg/L		SM4500-OG
pH (Field)		8.36	SU		EPA 150.2

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	90	%		SM4500-OG
DO	7.51	mg/L		SM4500-OG
pH (Field)	8.36	SU		EPA 150.2
Specific Conductance (Field)	655	umho/cm		SM2510B
Temperature	22.79	°C		SM2550B(2)
Turbidity (Hach)	46.7	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	3	Lookup		Observation

Thursday, July 30, 2015 Page 272 of 433

SiteID: WMI-04-0019 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18760

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	126.1	%		ASTM D888-09(C)
DO	11.06	mg/L		ASTM D888-09(C)
pH (Field)	8.1	SU		EPA 150.2
Specific Conductance (Field)	735	umho/cm		SM2510B
Temperature	21.84	°C		SM2550B(2)
Turbidity (Hach)	22.2	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	16.5179	cf/sec		ΓM D5089-95/D3858
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
_ab ID # 3087200	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	250	mg/L	1	SM2320B
Chloride	46	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	25	mg/L	10	SM2540D
Solids, Total (TS)	420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	380	mg/L	10	SM2540C
Sulfate	49	mg/L	25	EPA 300.0
Lab ID # 3087201	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	300	mg/L	0.66	SM2340B
Calcium (Total)	62	mg/L	0.1	EPA 200.7
Magnesium (Total)	33	mg/L	0.1	EPA 200.7
Lab ID # 3087202	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3087203	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
_ab ID # 3087204	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.08	mg/L	0.05	SM4500P-E
Lab ID # 3087205	Result		Reporting Limit	<u>Method</u>
TOC	5.3	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 273 of 433

Lab ID # AA25806		Result		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
					, ,,
Lab ID # AB18760		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		83.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0019	Sample Date: 09/16/2014		IDEM Sample	#: AB19075	
Water Flow Type Riffle	Water Appearance	Murky	v	Vater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
	□ I low Estimated:	<u> </u>	quatic Life:	Carlopy Closed 76	0-2070
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		89.1	%		ASTM D888-09(C)
DO		8.98	mg/L		ASTM D888-09(C)
pH (Field)		7.91	SU		EPA 150.2
Specific Conductance (Field)		620	umho/cm		SM2510B
Temperature		14.95	°C		SM2550B(2)
Turbidity (Hach)		15.9	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		51.5022	•		ΓM D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
S			•		
Lab ID # 3105582		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		230	mg/L	1	SM2320B
Chloride		24	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		11	mg/L	10	SM2540D
Solids, Total (TS)		360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		330	mg/L	10	SM2540C
Sulfate		31	mg/L	25	EPA 300.0
Lab ID # 3105583		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		280	mg/L	0.66	SM2340B
Calcium (Total)		72	mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3105584		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 274 of 433

Result

Reporting Limit

Method

Lab ID # 3105585

Lab ID # 3103363		Result		Reporting Limit	Welliou
Nitrogen, Nitrate+Nitrite		1.8	mg/L	0.1	EPA 353.2
Lab ID # 3105586		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.23	mg/L	0.05	SM4500P-E
Lab ID # 3105587		Result		Reporting Limit	Method
TOC		4.7	mg/L	0.5	SM5310C
Lab ID # AA28052		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.65	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19075		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0019	Sample Date: 10/28/2014		IDEM Sample	#: AB19258	
SiteID: WMI-04-0019 Nater Flow Type Glide Nater Flow (cf/sec):	Sample Date: 10/28/2014 Water Appearance Flow Estimated?	Clear	-	#: AB19258 /ater Depth Canopy Closed %	☐ Algae?
Nater Flow Type Glide	Water Appearance		W	/ater Depth	_
Nater Flow Type Glide Nater Flow (cf/sec):	Water Appearance		W	/ater Depth	_
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	Water Appearance	☐ Ac	Wquatic Life?	/ater Depth Canopy Closed %	0-20%
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	Wquatic Life?	/ater Depth Canopy Closed %	0-20%
Nater Flow Type Glide 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)
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 75.1 7.79 7.65 778	% mg/L SU umho/cm	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 75.1 7.79 7.65 778 13.57	% mg/L SU umho/cm °C	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37	% mg/L SU umho/cm °C NTU	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	75.1 7.79 7.65 778 13.57 7.37 4	% 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
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852	% mg/L SU umho/cm °C NTU Lookup cf/sec	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓM D5389-95/D3858
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 ΓΜ D5389-95/D3858 Observation Observation
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	/ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 ΓΜ D5389-95/D3858 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130530 Alkalinity (as CaCO3)	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27 3 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 TM D5389-95/D3858 Observation Observation Observation Observation Method SM2320B
Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130530 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27 3 Result 300 44	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130530 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27 3 Result 300 44 < 10	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27 3 Result 300 44 < 10 470	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 10 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130530 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 75.1 7.79 7.65 778 13.57 7.37 4 37.0852 8 27 3 Result 300 44 <10 470 420	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 275 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Observation

Observation

Lab ID # 3130531

200 12 0.0000.				<u></u>	
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		85	mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3130532		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130533		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		0.9	mg/L	0.1	EPA 353.2
Lab ID # 3130534		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.14	mg/L	0.05	SM4500P-E
Lab ID # 3130535		Result		Reporting Limit	<u>Method</u>
TOC		4.7	mg/L	0.5	SM5310C
Lab ID # AA31629		Result		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN		0.47	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19258		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1986.3	MPN/100mL	1	SM9223B
E. coli		56.5	MPN/100mL	1	SM9223B
SiteID: WMI-04-0019	Sample Date: 11/19/2014		IDEM Sample	#: AB19604	
Water Flow Type Run	Water Appearance	Clear	·	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	- Π Δα	quatic Life?	Canopy Closed %	_
Sampler Comments:	_ riow Estimated.		quado Eno.	canopy closed /8	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		109.9	%		ASTM D888-09(C)
DO		16.16	mg/L		ASTM D888-09(C)
pH (Field)		8.29			EPA 150.2
Specific Conductance (Field)		850	umho/cm		SM2510B
Temperature		-0.27			SM2550B(2)
Turbidity (Hach)		2.58	NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		35.6266			ГМ D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Mind Diversities		40	1 1		01

Thursday, July 30, 2015 Page 276 of 433

Wind Direction

Wind Strength

18 Lookup

3 Lookup

Lab ID # 3142777	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	330	mg/L	1	SM2320B
Chloride	47	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	510	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	470	mg/L	10	SM2540C
Sulfate	45	mg/L	25	EPA 300.0
Lab ID # 3142778	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		mg/L	0.66	SM2340B
Calcium (Total)	90	mg/L	0.1	EPA 200.7
Magnesium (Total)	37	mg/L	0.1	EPA 200.7
Lab ID # 3142779	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3142780	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	EPA 353.2
Lab ID # 3142781	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3142782	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC	3.5	mg/L	0.5	SM5310C
Lab ID # 50107929004	Result		Reporting Limit	<u>Method</u>
COD	20.9	mg/L	10	EPA 410.4
TKN	0.59	-	0.5	EPA 351.2
Lab ID # AB19604	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	1986.3	MPN/100mL	1	SM9223B
E. coli	78	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 277 of 433

SiteID: WMI-04-0019	Sample Date: 12/15/2014	IDEM Sample #: AB19851	
Water Flow Type Riffle	Water Appearance Clear	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated? ☐ Ac	quatic Life? Canopy Closed %	0-20%
Sampler Comments:			
Lab ID #	Result	Reporting Limit	Method
% Sat	101.5	%	ASTM D888-09(C)
DO	12.99	mg/L	ASTM D888-09(C)
pH (Field)	8.18	SU	EPA 150.2
Specific Conductance (Field)	745	umho/cm	SM2510B
Temperature	4.8	°C	SM2550B(2)
Turbidity (Hach)	5.87	NTU	EPA 180.1
Air Temp	2	Lookup	Observation
Flow	118.2922	cf/sec	ASTM D3858-95
Sky Conditions	4	Lookup	Observation
Wind Direction	27	Lookup	Observation
Wind Strength		Lookup	Observation
Lab ID # 3156167	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	300	mg/L 1	SM2320B
Chloride		mg/L 10	EPA 300.0
Solids, Suspended Total, (TSS)		mg/L 10	SM2540D
Solids, Total (TS)		mg/L 10	SM2540B
Solids, Total Dissolved (TDS)		mg/L 10	SM2540C
Sulfate		mg/L 25	EPA 300.0
Lab ID # 3156168	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	370	mg/L 0.66	SM2340B
Calcium (Total)		mg/L 0.1	EPA 200.7
Magnesium (Total)		mg/L 0.1	EPA 200.7
Lab ID # 3156169	Result	Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L 0.1	SM4500NH3-D
Lab ID # 3156170	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.4	mg/L 0.1	EPA 353.2
Lab ID # 3156171	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.13	mg/L 0.05	SM4500P-E
Lab ID # 3156172	Result	Reporting Limit	<u>Method</u>
TOC	2.9	mg/L 0.5	SM5310C

Thursday, July 30, 2015 Page 278 of 433

Lab ID # 50109606006		<u>Resul</u>	<u>t</u>	Reporting Limit	<u>Method</u>
COD		< 1	0 mg/L	10	EPA 410.4
TKN		< 0	5 mg/L	0.5	EPA 351.2
SiteID: WMI-04-0019	Sample Date: 01	/20/2015	IDEM Samp	ole #: AB20322	
Water Flow Type Run	Water App	earance Murk	/	Water Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Es	stimated?	Aquatic Life?	Canopy Closed %	0-20%
Lab ID #		<u>Resul</u>	t.	Reporting Limit	<u>Method</u>
% Sat		87	4 %		ASTM D888-09(C)
DO			8 mg/L		ASTM D888-09(C)
pH (Field)			9 SU		EPA 150.2
Specific Conductance (Field)			4 umho/cm		SM2510B
Temperature			8 °C		SM2550B(2)
Turbidity (Hach)			6 NTU		EPA 180.1
Air Temp			2 Lookup		Observation
Sky Conditions			2 Lookup		Observation
Wind Direction			7 Lookup		Observation
Wind Strength			0 Lookup		Observation
Lab ID # 3173790		Resul	ţ	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		14	0 mg/L	1	SM2320B
Chloride			8 mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			7 mg/L	10	SM2540D
Solids, Total (TS)			0 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			0 mg/L	10	SM2540C
Sulfate		1	8 mg/L	5	EPA 300.0
Lab ID # 3173791		Resul	<u>t</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		16	0 mg/L	0.66	SM2340B
Calcium (Total)		4	2 mg/L	0.1	EPA 200.7
Magnesium (Total)		1	6 mg/L	0.1	EPA 200.7
Lab ID # 3173792		Resul	<u>t</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3173793		Resul	ţ	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2	2 mg/L	0.1	EPA 353.2
Lab ID # 3173794		Resul	<u>t</u>	Reporting Limit	Method

Thursday, July 30, 2015 Page 279 of 433

Lab ID # 3173795		Result		Reporting Limit	<u>Method</u>
TOC		6.7	mg/L	0.5	SM5310C
Lab ID # 50111361006		<u>Result</u>		Reporting Limit	Method
COD		19.3	mg/L	10	EPA 410.4
TKN		0.94	mg/L	0.5	EPA 351.2
SiteID: WMI-04-0019	Sample Date: 03/17/2015		IDEM Samp	ole #: AB20795	
Water Flow Type Run	Water Appearance	Murky	•	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		92.9	%		ASTM D888-09(C)
DO		11.39	mg/L		ASTM D888-09(C)
pH (Field)		7.83	SU		EPA 150.2
Specific Conductance (Field)		517	umho/cm		SM2510B
Temperature		6.64	°C		SM2550B(2)
Turbidity (Hach)		35.5	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # 3208974		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		190	mg/L	1	SM2320B
Chloride		23	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		24	mg/L	10	SM2540D
Solids, Total (TS)		340	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		28	mg/L	15	EPA 300.0
Lab ID # 3208975		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		23	mg/L	0.1	EPA 200.7
Lab ID # 3208976		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3208977		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		5	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 280 of 433

Result	Reporting Limit	<u>Method</u>
0.3 mg/L	0.05	SM4500P-E
<u>Result</u>	Reporting Limit	<u>Method</u>
5.2 mg/L	0.5	SM5310C
<u>Result</u>	Reporting Limit	<u>Method</u>
< 10 mg/L	10	EPA 410.4
0.87 mg/L	0.5	EPA 351.2
	0.3 mg/L Result 5.2 mg/L Result < 10 mg/L	0.3 mg/L 0.05 Result Reporting Limit

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

Thursday, July 30, 2015 Page 281 of 433

 SiteID:
 WMI-04-0009
 USGS Hydrologic Unit:
 051201030404

 Stream Name:
 Dodge Creek
 County:
 Delaware

Description: Eaton-Wheeling Pike **Latitude:** 40 20 59.12624 **Longitude:** -85 24 58.56710

Drainage: 1.716 Site Number: 14T-128

SiteID: WMI-04-0009 **Sample Date:** 04/15/2014 **IDEM Sample #**: AB16183

Water Flow Type Glide 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	120.6	%		ASTM D888-09(C)
DO	14.79	mg/L		ASTM D888-09(C)
pH (Field)	8.32	SU		EPA 150.2
Specific Conductance (Field)	537	umho/cm		SM2510B
Temperature	6.64	°C		SM2550B(2)
Turbidity (Hach)	17.4	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3011036	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	210	mg/L	1	SM2320B
Chloride	29	mg/L	6	EPA 300.0
Fluoride	0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	14	mg/L	10	SM2540D
Solids, Total (TS)	320	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	15	mg/L	15	EPA 300.0
Lab ID # 3011037	Result		Reporting Limit	Method
Hardness (as CaCO3)	260	mg/L	0.66	SM2340B
Calcium (Total)	65	mg/L	0.1	EPA 200.7
Magnesium (Total)	23	mg/L	0.1	EPA 200.7
Lab ID # 3011038	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011039	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.1	EPA 353.2
Lab ID # 3011040	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 282 of 433

Lab ID # 3011041		Result		Reporting Limit	<u>Method</u>
TOC		5.7	mg/L	0.5	SM5310C
Lab ID # AA14520		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		5	mg/L	10	EPA 410.4
TKN		0.47	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16183		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		770.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0009	Sample Date: 04/22/2014	Cloar	IDEM Sample		√ Alges?
Nater Flow Type Glide	Water Appearance	Clear	W	ater Depth	✓ Algae?
	·		•		
Nater Flow Type Glide Nater Flow (cf/sec):	Water Appearance		W	ater Depth	
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Aq	Wuatic Life?	ater Depth Canopy Closed %	0-20%
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Result 124.4 12.52	Wiguatic Life?	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 124.4 12.52 8.23	wquatic Life? % mg/L SU	ater Depth Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 124.4 12.52 8.23 620	wquatic 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 Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 124.4 12.52 8.23 620 15.13	% 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 Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 124.4 12.52 8.23 620 15.13 4.46	% 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 Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 124.4 12.52 8.23 620 15.13 4.46	% 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 Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	Water Appearance	Result 124.4 12.52 8.23 620 15.13 4.46 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
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 124.4 12.52 8.23 620 15.13 4.46 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

<u>Result</u>

> 2419.6 MPN/100mL

2419.6 MPN/100mL

Reporting Limit

2419.6

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 283 of 433

Lab ID # AB16427

Coliforms (Total)

E. coli

SiteID: WMI-04-0009	Sample Date: 04/29/2014			#: AB16499	
Vater Flow Type Glide	Water Appearance	Brown	W	later 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		102.1	%		ASTM D888-09(C)
DO		10.2	mg/L		ASTM D888-09(C)
pH (Field)		7.92	SU		EPA 150.2
Specific Conductance (Field)		456	umho/cm		SM2510B
Temperature		15.35	°C		SM2550B(2)
Turbidity (Hach)		76.5	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		2	Lookup		Observation
Wind Direction		18	Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16499		Result		Reporting Limit	<u>Method</u>
E. coli		1732.9	MPN/100mL	1	SM9223B
Lab ID # AB16499a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
	Sample Date: 05/06/2014	> 24196	MPN/100mL IDEM Sample		SM9223B
	Sample Date: 05/06/2014 Water Appearance	> 24196 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0009 Water Flow Type Glide	·	Clear	IDEM Sample	#: AB16818	✓ Algae?
SiteID: WMI-04-0009 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16818 /ater Depth	✓ Algae?
SiteID: WMI-04-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AB16818 /ater Depth	✓ Algae?
SiteID: WMI-04-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✔ Ac	IDEM Sample W quatic Life?	#: AB16818 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Ac	IDEM Sample W quatic Life?	#: AB16818 /ater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear ✓ Acc Result	IDEM Sample Wiguatic Life? % mg/L	#: AB16818 /ater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 137.2 14.25 8.13	IDEM Sample W quatic Life? % mg/L SU	#: AB16818 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0009 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 137.2 14.25 8.13 596	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16818 /ater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0009 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 137.2 14.25 8.13 596 13.49	IDEM Sample W quatic Life? % mg/L SU umho/cm °C	#: AB16818 /ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0009 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 137.2 14.25 8.13 596 13.49 5.37	IDEM Sample W quatic Life? % mg/L SU umho/cm °C NTU	#: AB16818 /ater 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: WMI-04-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 137.2 14.25 8.13 596 13.49 5.37 4	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16818 /ater 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: WMI-04-0009 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 137.2 14.25 8.13 596 13.49 5.37 4 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16818 /ater 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: WMI-04-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 137.2 14.25 8.13 596 13.49 5.37 4 1 27	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16818 /ater 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: WMI-04-0009 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 137.2 14.25 8.13 596 13.49 5.37 4 1 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16818 /ater 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: WMI-04-0009 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 137.2 14.25 8.13 596 13.49 5.37 4 1 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16818 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

Thursday, July 30, 2015 Page 284 of 433

Water Flow Type Run	Water Appearance	IDEM Sample #: AB16951 Clear Water Depth			✓ Algae?
	Flow Estimated?	_		•	_
Water Flow (cf/sec):	☐ Flow Estimated?	□ A0	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		139.2	%		ASTM D888-09(C)
DO		12.05	mg/L		ASTM D888-09(C)
pH (Field)		8.09	SU		EPA 150.2
Specific Conductance (Field)		591	umho/cm		SM2510B
Temperature		22.44	°C		SM2550B(2)
Turbidity (Hach)		8.01	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3027111		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		250	mg/L	1	SM2320B
Chloride		27	mg/L	4	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		16	mg/L	10	EPA 300.0
Lab ID # 3027112		Result		Reporting Limit	Method
Hardness (as CaCO3)		280	mg/L	0.66	SM2340B
Calcium (Total)		71	mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3027113		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027114		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2.7	mg/L	0.1	EPA 353.2
Lab ID # 3027115		Result		Reporting Limit	Method
Phosphorus, Total		0.11	mg/L	0.05	SM4500P-E
Lab ID # 3027116		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 285 of 433

Lab ID # AA17826		<u>Result</u>		Reporting Limit	Method
COD		12	mg/L	10	EPA 410.4
TKN		1.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16951		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		648.8	MPN/100mL	1	SM9223B
SiteID: WMI-04-0009	Sample Date: 06/10/2014		IDEM Sample	#: AB17379	
Nater Flow Type Run	Water Appearance	Murky	W	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		97.3	%		ASTM D888-09(C)
DO		9.35	mg/L		ASTM D888-09(C)
pH (Field)		7.76	SU		EPA 150.2
Specific Conductance (Field)		563	umho/cm		SM2510B
Temperature		17.24	°C		SM2550B(2)
Turbidity (Hach)		18.1	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 # 3042549		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		230	mg/L	1	SM2320B
Chloride		20	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		12	mg/L	5	EPA 300.0
Lab ID # 3042550		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3042551		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
		Decult		Reporting Limit	<u>Method</u>
Lab ID # 3042552		Result		Reporting Limit	<u>MCtilou</u>

Thursday, July 30, 2015 Page 286 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3042553

		Result		Reporting Limit	Metriou
Phosphorus, Total		0.15	mg/L	0.05	SM4500P-E
Lab ID # 3042554		Result		Reporting Limit	Method
TOC		3.6	mg/L	0.5	SM5310C
Lab ID # AA20559		Result		Reporting Limit	Method
COD		9	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17379		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		1203.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0009	Sample Date: 07/08/2014		IDEM Sample	#: AB17553	
Nater Flow Type Glide	Water Appearance	Murky	-	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		101.1	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		8.08			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
			°C		
Temperature		20.98			SM2550B(2)
Turbidity (Hach)		29.6	NTU		EPA 180.1
Turbidity (Hach) Air Temp		29.6 4	NTU Lookup		EPA 180.1 Observation
Turbidity (Hach) Air Temp Sky Conditions		29.6 4 4	NTU Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction		29.6 4 4 27	NTU Lookup Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions		29.6 4 4 27	NTU Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		29.6 4 4 27	NTU Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		29.6 4 4 27 2 Result	NTU Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		29.6 4 4 27 2 Result	NTU Lookup Lookup Lookup Lookup		EPA 180.1 Observation Observation Observation Observation Method
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride		29.6 4 4 27 2 Result	NTU Lookup Lookup Lookup Lookup	1	EPA 180.1 Observation Observation Observation Observation Method SM2320B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride		29.6 4 4 27 2 Result 250 16 21	NTU Lookup Lookup Lookup mg/L mg/L	1 2	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		29.6 4 4 27 2 Result 250 16 21 350	NTU Lookup Lookup Lookup mg/L mg/L mg/L	1 2 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		29.6 4 4 27 2 Result 250 16 21 350 330	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 2 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		29.6 4 4 27 2 Result 250 16 21 350 330	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 2 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TSS)		29.6 4 4 27 2 Result 250 16 21 350 330 21 Result	NTU Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060116 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3060117		29.6 4 4 27 2 Result 250 16 21 350 330 21 Result	NTU Lookup Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	1 2 10 10 10 5 Reporting Limit	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 287 of 433

Lab ID # 3060118			Result		Reporting Limit	Method
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060119			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			2.4	mg/L	0.1	EPA 353.2
Lab ID # 3060120			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.18	mg/L	0.05	SM4500P-E
Lab ID # 3060121			Result		Reporting Limit	<u>Method</u>
TOC			3.5	mg/L	0.5	SM5310C
Lab ID # AA22943			Result		Reporting Limit	<u>Method</u>
COD			6	mg/L	10	EPA 410.4
TKN			0.38	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17553			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-04-0009	Sample Date:	07/15/2014		IDEM Sample	∍#: AB18378	
Water Flow Type Run	Water	Appearance	Murky		Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flov	w Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			<u>Result</u>		Reporting Limit	Method
% Sat			107.9	%		SM4500-OG
DO			8.79	mg/L		SM4500-OG
pH (Field)			8.27	SU		EPA 150.2
Specific Conductance (Field)			475	umho/cm		SM2510B
Temperature			24.32	°C		SM2550B(2)
Air Temp				Lookup		Observation
All Tellip			4	Lookup		Oboolvation
Sky Conditions				Lookup		Observation
·			2			

Thursday, July 30, 2015 Page 288 of 433

SiteID: WMI-04-0009 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18741

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	Method
% Sat	72.1	%		ASTM D888-09(C)
DO	6.42	mg/L		ASTM D888-09(C
pH (Field)	7.67	SU		EPA 150.2
Specific Conductance (Field)	518	umho/cm		SM2510B
Temperature	21.47	°C		SM2550B(2)
Turbidity (Hach)	6.63	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3087208	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	220	mg/L	1	SM2320B
Chloride	14	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	290	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	240	mg/L	10	SM2540C
Sulfate	< 25	mg/L	25	EPA 300.0
Lab ID # 3087209	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	240	mg/L	0.66	SM2340B
Calcium (Total)	52	mg/L	0.1	EPA 200.7
Magnesium (Total)	27	mg/L	0.1	EPA 200.7
Lab ID # 3087210	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3087211	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3087212	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3087213	Result		Reporting Limit	Method
TOC	5.5	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 289 of 433

Lab ID # AA25807		Result		Reporting Limit	<u>Method</u>
COD		19	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18741		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		866.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0009	Sample Date: 09/16/2014		IDEM Sample	#: AB19056	
Vater Flow Type Run	Water 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		102.1	%		ASTM D888-09(C)
DO		10.39			ASTM D888-09(C)
pH (Field)		7.89	-		EPA 150.2
Specific Conductance (Field)		650	umho/cm		SM2510B
Temperature		14.68	°C		SM2550B(2)
Turbidity (Hach)		9.54	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3105590		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		270	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		16	mg/L	5	EPA 300.0
Lab ID # 3105591		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105592		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105593		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.8	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 290 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105594

Lab 1D # 3103394		Result		Reporting Limit	Metriou
Phosphorus, Total		0.08	mg/L	0.05	SM4500P-E
Lab ID # 3105595		Result		Reporting Limit	Method
TOC		4.4	mg/L	0.5	SM5310C
Lab ID # AA28053		Result		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19056		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		272.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0009	Sample Date: 10/28/2014		IDEM Sample	#: AB19239	
Nater Flow Type Run	Water Appearance	Clear	-	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				,	
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		71.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.47			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.77			SM2550B(2)
Turbidity (Hach)		8.14	NTU		EPA 180.1
Air Temp			Lookup		Observation
Air Temp Sky Conditions		8	Lookup		Observation Observation
Air Temp Sky Conditions Wind Direction		8 27	Lookup Lookup		Observation Observation Observation
Air Temp Sky Conditions		8 27	Lookup		Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength		8 27	Lookup Lookup	Reporting Limit	Observation Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength		8 27 2 Result	Lookup Lookup	Reporting Limit	Observation Observation Observation
Air Temp Sky Conditions Wind Direction Wind Strength		8 27 2 Result	Lookup Lookup Lookup		Observation Observation Observation Observation Method
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride		8 27 2 Result 310 25	Lookup Lookup Lookup	1	Observation Observation Observation Observation Method SM2320B
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride		8 27 2 Result 310 25 < 10	Lookup Lookup Lookup mg/L mg/L	1 2	Observation Observation Observation Observation Method SM2320B EPA 300.0
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		8 27 2 Result 310 25 < 10 390	Lookup Lookup Lookup mg/L mg/L mg/L	1 2 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		8 27 2 Result 310 25 < 10 390 380	Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 2 10 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		8 27 2 Result 310 25 < 10 390 380	Lookup Lookup Mg/L mg/L mg/L mg/L mg/L	1 2 10 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		8 27 2 Result 310 25 < 10 390 380 18 Result	Lookup Lookup Mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130538 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130539		8 27 2 Result 310 25 < 10 390 380 18 Result 340	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 2 10 10 10 5 Reporting Limit	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 291 of 433

Lab ID # 3130540	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130541	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.4	mg/L	0.1	EPA 353.2
Lab ID # 3130542	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.06	mg/L	0.05	SM4500P-E
Lab ID # 3130543	Result		Reporting Limit	<u>Method</u>
TOC	4.1	mg/L	0.5	SM5310C
Lab ID # AA31630	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19239	Result		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	488.4	MPN/100mL	1	SM9223B

		W	eather Code Def	initions	
	C nditions	,	WD Vind Direction	WS Wind Strength	AT Air Temp
1 - Clear 2 - Scattered 3 - Partly 4 - Cloudy 5 - Mist 6 - Fog 7 - Shower	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 -> 86

Thursday, July 30, 2015 Page 292 of 433

 SiteID:
 WMI-04-0010
 USGS Hydrologic Unit:
 051201030403

 Stream Name:
 Hedgeland Ditch
 County:
 Delaware

Description: CR 1070 N **Latitude:** 40 20 43.29423 **Longitude:** -85 27 50.81799

Drainage: 12.323 Site Number: 14T-129

SiteID: WMI-04-0010 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16184

Water Flow Type Run 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	123.6	%		ASTM D888-09(C)
DO	15.08	mg/L		ASTM D888-09(C)
pH (Field)	8.08	SU		EPA 150.2
Specific Conductance (Field)	592	umho/cm		SM2510B
Temperature	6.78	°C		SM2550B(2)
Turbidity (Hach)	5.99	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	9	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3011044	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	23	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	370	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	22	mg/L	15	EPA 300.0
Lab ID # 3011045	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	310	mg/L	0.66	SM2340B
Calcium (Total)	84	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3011046	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011047	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.8	mg/L	0.1	EPA 353.2
Lab ID # 3011048	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 293 of 433

Lab ID # 3011049

243 13		itouit		rtoporting zmit	
TOC		6.9	mg/L	0.5	SM5310C
.ab ID # AA14521		Result		Reporting Limit	<u>Method</u>
COD		7	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16184		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		129.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date: 04/22/2014		IDEM Sample	#: AB16428	
Notes Flour Trans Clids	Water Appearance	Clear	W	later Depth	✓ Algae?
Vater Flow Type Glide	water Appearance				
Vater Flow (cf/sec):	☐ Flow Estimated?	☐ A q	uatic Life?	Canopy Closed %	0-20%
Vater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq			
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID #	☐ Flow Estimated?	Result	uatic Life?	Canopy Closed % Reporting Limit	Method
Vater Flow (cf/sec): Sampler Comments: Excessive	☐ Flow Estimated?	Result	quatic Life?		Method ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO	☐ Flow Estimated?	Result	yuatic Life? % mg/L		Method ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat	☐ Flow Estimated?	Result 133.1 14.22 8.17	yuatic Life? % mg/L		Method ASTM D888-09(C) ASTM D888-09(C)
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field)	☐ Flow Estimated?	Result 133.1 14.22 8.17	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	☐ Flow Estimated?	Result 133.1 14.22 8.17 641 13.09	% mg/L SU umho/cm		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	☐ Flow Estimated?	Result 133.1 14.22 8.17 641 13.09 3.67	% mg/L SU umho/cm °C		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID #	☐ Flow Estimated?	133.1 14.22 8.17 641 13.09 3.67	% 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
Water Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	☐ Flow Estimated?	133.1 14.22 8.17 641 13.09 3.67 4	% 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 Observation
Water Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions	☐ Flow Estimated?	Result 133.1 14.22 8.17 641 13.09 3.67 4 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
Vater Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction	☐ Flow Estimated?	Result 133.1 14.22 8.17 641 13.09 3.67 4 2 27	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup		Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
Water Flow (cf/sec): Sampler Comments: Excessive Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength	☐ Flow Estimated?	Result 133.1 14.22 8.17 641 13.09 3.67 4 2 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Result

Reporting Limit

<u>Method</u>

Thursday, July 30, 2015 Page 294 of 433

SiteID: WMI-04-0010	Sample Date:	04/29/2014		IDEM Sample	#: AB16500	
Water Flow Type Run	Water A	Appearance	Murky	,	Water 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			114.6	%		ASTM D888-09(C)
DO			11.93	mg/L		ASTM D888-09(C)
pH (Field)			7.71	SU		EPA 150.2
Specific Conductance (Field)			601	umho/cm		SM2510B
Temperature			13.49	°C		SM2550B(2)
Turbidity (Hach)			25.9	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions				Lookup		Observation
Wind Direction				Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # AB16500				·	Danastina Limit	Mathad
Lab ID # AB 10000			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			000.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date:	05/06/2014	900.4		•#: AB16819	CINGLEGE
SiteID: WMI-04-0010	•	05/06/2014 Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-04-0010 Water Flow Type Glide	Water <i>i</i>		Clear	IDEM Sample	#: AB16819	✓ Algae?
SiteID: WMI-04-0010	Water <i>i</i>	Appearance	Clear	IDEM Sample	#: AB16819 Water Depth	✓ Algae?
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec):	Water <i>i</i>	Appearance	Clear	IDEM Sample	#: AB16819 Water Depth	✓ Algae?
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water <i>i</i>	Appearance	Clear □ A q	IDEM Sample	#: AB16819 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water <i>i</i>	Appearance	Clear Aq	IDEM Sample valuatic Life?	#: AB16819 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water <i>i</i>	Appearance	Clear Aq Result 128.8 13.96	IDEM Sample valuatic Life?	#: AB16819 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0010 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9	IDEM Sample valuatic Life? % mg/L	#: AB16819 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0010 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9	Muatic Life? % mg/L SU umho/cm	#: AB16819 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9 684 11.83	Muatic Life? % mg/L SU umho/cm	#: AB16819 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0010 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9 684 11.83 3.52	### Minute Complete C	#: AB16819 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0010 Nater Flow Type Glide Nater 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 128.8 13.96 7.9 684 11.83 3.52 4	Muatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16819 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-04-0010 Nater Flow Type Glide 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 128.8 13.96 7.9 684 11.83 3.52 4 1	"Watic Life?" "Mag/L SU umho/cm "C NTU Lookup Lookup	#: AB16819 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-04-0010 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 <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9 684 11.83 3.52 4 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16819 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
SiteID: WMI-04-0010 Nater Flow Type Glide 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 128.8 13.96 7.9 684 11.83 3.52 4 1	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16819 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
SiteID: WMI-04-0010 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 <i>i</i>	Appearance	Clear Result 128.8 13.96 7.9 684 11.83 3.52 4 1 27 2 Result	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16819 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

Thursday, July 30, 2015 Page 295 of 433

SiteID: WMI-04-0010 **Sample Date**: 05/13/2014 **IDEM Sample #**: AB16952

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	120.2	%		ASTM D888-09(C)
DO	10.96	mg/L		ASTM D888-09(C)
pH (Field)	7.78	SU		EPA 150.2
Specific Conductance (Field)	682	umho/cm		SM2510B
Temperature	19.99	°C		SM2550B(2)
Turbidity (Hach)	3.8	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3027119	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	300	mg/L	1	SM2320B
Chloride	27	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	410	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390	mg/L	10	SM2540C
Sulfate	25	mg/L	15	EPA 300.0
Lab ID # 3027120	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		mg/L	0.66	SM2340B
Calcium (Total)	96	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3027121	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027122	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.2	mg/L	0.1	EPA 353.2
Lab ID # 3027123	Result		Reporting Limit	Method
Phosphorus, Total	0.13	mg/L	0.05	SM4500P-E
Lab ID # 3027124	Result		Reporting Limit	Method

Thursday, July 30, 2015 Page 296 of 433

Lab ID # AA17827		<u>Result</u>		Reporting Limit	Method
COD		13	mg/L	10	EPA 410.4
TKN		1.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16952		Result		Reporting Limit	Method
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		59.1	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date: 06/10/2014		IDEM Sample	#: AB17380	
Nater Flow Type Run	Water Appearance	Murky	W	later Depth	☐ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Aq	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		71.8	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.32			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.89			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042557		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		210	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		18	mg/L	5	EPA 300.0
Lab ID # 3042558		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042559		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042560		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 297 of 433

Lab ID # 3042561			Result		Reporting Limit	Method
Phosphorus, Total			0.22	mg/L	0.05	SM4500P-E
Lab ID # 3042562			Result		Reporting Limit	<u>Method</u>
TOC			7.2	mg/L	0.5	SM5310C
Lab ID # AA20560			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			21	mg/L	10	EPA 410.4
TKN			0.9	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17380			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			238.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date:	07/08/2014		IDEM Sample	e #: AB17554	
Water Flow Type Run	Water	Appearance	Clear		Water Depth	✓ Algae?
Water Flow (cf/sec):	Flov	v Estimated?	✓ Δα	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:			_ / ~	juutio Elio	cunopy ciocou /i	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			64	%		ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			7.66	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			19.69			SM2550B(2)
Turbidity (Hach)			13.2	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			3	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			3	Lookup		Observation
Lab ID # 3060140			Result		Reporting Limit	Method
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			21	mg/L	5	EPA 300.0
Lab ID # 3060141			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)				mg/L	0.66	SM2340B
Calcium (Total)			97	mg/L	0.1	EPA 200.7
Magnesium (Total)			29	mg/L	0.1	EPA 200.7
Thursday, July 00, 0045						

Thursday, July 30, 2015 Page 298 of 433

Lab ID # 3060142			<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060144			Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite			2.1	mg/L	0.1	EPA 353.2
Lab ID # 3060145			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.21	mg/L	0.05	SM4500P-E
Lab ID # 3060146			Result		Reporting Limit	<u>Method</u>
TOC			6.2	mg/L	0.5	SM5310C
Lab ID # AA22946			Result		Reporting Limit	<u>Method</u>
COD			14	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17554			Result		Reporting Limit	Method
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			> 2419.6	MPN/100mL	2419.6	SM9223B
SitalD: WMI-04-0010	Sample Date:	08/13/2014		IDEM Sample	. #· ΔB18377	
	Sample Date:	08/13/2014	Q.	_	#: AB18377	
		08/13/2014 Appearance	Clear	_	#: AB18377 Water Depth	✓ Algae?
Nater Flow Type Run	Water			_		-
Nater Flow Type Run Nater Flow (cf/sec):	Water	Appearance		,	Water Depth	_
Water Flow Type Run Water Flow (cf/sec):	Water	Appearance		,	Water Depth	_
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water	Appearance	✓ Aq	uatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water	Appearance	Result	uatic Life?	Water Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water	Appearance	Result	quatic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method SM4500-OG
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water	Appearance	Result 64.9 5.97 8.01	quatic Life? % mg/L	Water Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water	Appearance	Result 64.9 5.97 8.01	yuatic Life? % mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water	Appearance	Result 64.9 5.97 8.01 747 18.13	yuatic Life? % mg/L SU umho/cm	Water Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water	Appearance	Result 64.9 5.97 8.01 747 18.13 3.12	% mg/L SU umho/cm °C	Water Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B SM2550B(2)

Thursday, July 30, 2015 Page 299 of 433

Wind Direction

Wind Strength

27 Lookup

1 Lookup

Observation

Observation

SiteID: WMI-04-0010	Sample Date: 08/19/2014 IDEM Sample #: AB18742				
Vater Flow Type Pool	Water Appearance	Clear		Water Depth	✓ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:				.,	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		66.1	%		SM4500-OG
DO		6.01	mg/L		SM4500-OG
pH (Field)		7.76	SU		EPA 150.2
Specific Conductance (Field)		820	umho/cm		SM2510B
Temperature		20.06	°C		SM2550B(2)
Turbidity (Hach)		6.6	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3087232		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		350	mg/L	1	SM2320B
Chloride		26	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		440	mg/L	10	SM2540C
Sulfate		41	mg/L	25	EPA 300.0
Lab ID # 3087233		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		380	mg/L	0.66	SM2340B
Calcium (Total)		98	mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3087234		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087235		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087236		<u>Result</u>		Reporting Limit	Method
Phosphorus, Total		0.3	mg/L	0.05	SM4500P-E
Lab ID # 3087237		<u>Result</u>		Reporting Limit	Method
TOC		4.7	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 300 of 433

Lab ID # AA25810		Result		Reporting Limit	Method
COD		15	mg/L	10	EPA 410.4
TKN		0.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18742		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		54.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date: 09/16/2014		IDEM Sample	#: AB19057	
Nater Flow Type Glide	Water Appearance	Clear	V	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		68	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)			SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.7			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 # 3105614		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		350	mg/L	1	SM2320B
Chloride		27	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		460	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		480	mg/L	10	SM2540C
Sulfate		39	mg/L	25	EPA 300.0
Lab ID # 3105615		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		34	mg/L	0.1	EPA 200.7
Lab ID # 3105616		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105617		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.2	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 301 of 433

Lab ID # 3105618		Result		Reporting Limit	Method
Phosphorus, Total		0.22	mg/L	0.05	SM4500P-E
Lab ID # 3105619		Result		Reporting Limit	<u>Method</u>
TOC		5.4	mg/L	0.5	SM5310C
Lab ID # AA28056		Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19057		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		235.9	MPN/100mL	1	SM9223B
SiteID: WMI-04-0010	Sample Date: 10/28/2014		IDEM Sample	#: AB19240	
Nater Flow Type Riffle	Water Appearance	Clear	_	Vater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:	_ riow Louindicu.	A	qualio Elic.	Carlopy Glosca 70	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		61.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.55			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		13.29			SM2550B(2)
Turbidity (Hach)		3.19	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		22	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3130576		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		370	mg/L	1	SM2320B
Chloride		30	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		480	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		470	mg/L	10	SM2540C
Sulfate		26	mg/L	25	EPA 300.0
Lab ID # 3130577		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		110	mg/L	0.1	EPA 200.7
Magnesium (Total)		33	mg/L	0.1	EPA 200.7
Thursday, July 30, 2015					Page 302 of 433

Thursday, July 30, 2015 Page 302 of 433

Lab ID # 3130578	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130579	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
Lab ID # 3130580	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E
Lab ID # 3130581	Result		Reporting Limit	<u>Method</u>
TOC	6.7	mg/L	0.5	SM5310C
Lab ID # AA31633	Result		Reporting Limit	<u>Method</u>
COD	15	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19240	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	129.1	MPN/100mL	1	SM9223B

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

Thursday, July 30, 2015 Page 303 of 433

 SiteID:
 WMI-04-0011
 USGS Hydrologic Unit:
 051201030403

 Stream Name:
 Pike Creek
 County:
 Delaware

Description: Eaton-Wheeling Pike **Latitude:** 40 21 47.35793 **Longitude:** -85 27 25.75107

Drainage: 21.311 Site Number: 14T-130

SiteID: WMI-04-0011 **Sample Date**: 04/15/2014 **IDEM Sample #**: AB16185

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

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 25.1287 cfs

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	110.6	%		ASTM D888-09(C)
DO	13.26	mg/L		ASTM D888-09(C)
pH (Field)	8.15	SU		EPA 150.2
Specific Conductance (Field)	594	umho/cm		SM2510B
Temperature	7.42	°C		SM2550B(2)
Turbidity (Hach)	15.4	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Flow	25.1287	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3011052	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	21	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	11	mg/L	10	SM2540D
Solids, Total (TS)	380	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360	mg/L	10	SM2540C
Sulfate	30	mg/L	15	EPA 300.0
Lab ID # 3011053	Result		Reporting Limit	Method
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	83	mg/L	0.1	EPA 200.7
Magnesium (Total)	26	mg/L	0.1	EPA 200.7
Lab ID # 3011054	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011055	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	4.4	mg/L	0.1	EPA 353.2
Lab ID # 3011056	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 304 of 433

Lab ID # 3011057		Result		Reporting Limit	Method
TOC		3.9	mg/L	0.5	SM5310C
Lab ID # AA14522		Result		Reporting Limit	Method
COD	-	12	mg/L	10	EPA 410.4
TKN		0.66	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16185		Result		Reporting Limit	Method
Coliforms (Total)		1986.3	MPN/100mL	1	SM9223B
E. coli		228.2	MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 04/22/2014		IDEM Sample	#: AB16429	
Water Flow Type Riffle	Water Appearance	Murky	•	/ater 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		134	%		ASTM D888-09(C)
% Sat DO		134 13.95			ASTM D888-09(C) ASTM D888-09(C)
			mg/L		, ,
DO pH (Field) Specific Conductance (Field)		13.95 8.36 602	mg/L SU umho/cm		ASTM D888-09(C)
DO pH (Field) Specific Conductance (Field) Temperature		13.95 8.36 602 13.84	mg/L SU umho/cm °C		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		13.95 8.36 602 13.84 11.3	mg/L SU umho/cm °C NTU		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		13.95 8.36 602 13.84 11.3	mg/L SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		13.95 8.36 602 13.84 11.3 4	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		13.95 8.36 602 13.84 11.3 4 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		13.95 8.36 602 13.84 11.3 4 1	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		13.95 8.36 602 13.84 11.3 4 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		13.95 8.36 602 13.84 11.3 4 1 27 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit 2419.6	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 305 of 433

SiteID: WMI-04-0011	Sample Date: 04/29/2014		IDEM Sample	#: AB16501	
Vater Flow Type Riffle	Water Appearance	Murky	V	Vater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		111.2	%		ASTM D888-09(C)
DO		11.6	mg/L		ASTM D888-09(C)
pH (Field)		7.9	SU		EPA 150.2
Specific Conductance (Field)		611	umho/cm		SM2510B
Temperature		13.5	°C		SM2550B(2)
Turbidity (Hach)		36.3	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16501		Result		Reporting Limit	<u>Method</u>
E. coli		648.8	MPN/100mL	1	SM9223B
Lab ID # AB16501a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
	0	> 24196			SM9223B
SiteID: WMI-04-0011	Sample Date: 05/06/2014 Water Appearance		IDEM Sample	#: AB16820	
SiteID: WMI-04-0011 Water Flow Type Riffle	Water Appearance	Clear	IDEM Sample	#: AB16820 Vater Depth	✓ Algae?
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec):	•	Clear	IDEM Sample	#: AB16820	✓ Algae?
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AB16820 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample	#: AB16820 Vater Depth	✓ Algae?
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample V juatic Life?	#: AB16820 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-04-0011 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample V quatic Life?	#: AB16820 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0011 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample V quatic Life? % mg/L	#: AB16820 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0011 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 126.9 13.65 8.14	IDEM Sample V quatic Life? % mg/L	#: AB16820 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 126.9 13.65 8.14 626	IDEM Sample V Juatic Life? % mg/L SU umho/cm	#: AB16820 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0011 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 126.9 13.65 8.14 626 12.2	IDEM Sample V Juatic Life? % mg/L SU umho/cm	#: AB16820 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0011 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 126.9 13.65 8.14 626 12.2 5.56	IDEM Sample V Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16820 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: WMI-04-0011 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 Appearance	Clear Result 126.9 13.65 8.14 626 12.2 5.56 4	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16820 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: WMI-04-0011 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 Appearance	Clear Result 126.9 13.65 8.14 626 12.2 5.56 4 1	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16820 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: WMI-04-0011 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 126.9 13.65 8.14 626 12.2 5.56 4 1 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16820 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: WMI-04-0011 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	Clear Result 126.9 13.65 8.14 626 12.2 5.56 4 1 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16820 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
SiteID: WMI-04-0011 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 Result 126.9 13.65 8.14 626 12.2 5.56 4 1 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16820 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

Thursday, July 30, 2015 Page 306 of 433

Nater Flow Type Riffle	Water Appearance	Clear		Water Depth	✓ Algae?
Nater Flow (cf/sec):	Flow Estimated?		uatic Life?	·	_
Sampler Comments:	□ Flow Estilliated?	□ A0	qualic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		104.4	%		ASTM D888-09(C)
DO		9.5	mg/L		ASTM D888-09(C)
pH (Field)		7.79	SU		EPA 150.2
Specific Conductance (Field)		644	umho/cm		SM2510B
Temperature		19.81	°C		SM2550B(2)
Turbidity (Hach)		_	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Flow		11.7993			ГМ D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3027127		<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		270	mg/L	1	SM2320B
Chloride		25	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		370	mg/L	10	SM2540C
Sulfate		38	mg/L	15	EPA 300.0
Lab ID # 3027130		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		86	mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3027131		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027134		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.5	mg/L	0.1	EPA 353.2
Lab ID # 3027137		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.12	mg/L	0.05	SM4500P-E
Lab ID # 3027140		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 307 of 433

Lab ID # AA17828		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		14	mg/L	10	EPA 410.4
TKN		1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16953		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		579.4	MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 06/10/2014		IDEM Sample	#: AB17381	
Water Flow Type Riffle	Water Appearance	Murky	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		88.1			ASTM D888-09(C)
DO		8.57	mg/L		ASTM D888-09(C)
pH (Field)		7.6	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		16.64	°C		SM2550B(2)
Turbidity (Hach)		_	NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		59.7762			ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3042565		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		24	mg/L	5	EPA 300.0
Lab ID # 3042566		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		23	mg/L	0.1	EPA 200.7
Lab ID # 3042567		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 308 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3042568

Nitrogen, Nitrate+Nitrite		9.1	mg/L	0.1	EPA 353.2
Lab ID # 3042569		Result		Reporting Limit	Method
Phosphorus, Total		0.28	mg/L	0.05	SM4500P-E
Lab ID # 3042570		Result		Reporting Limit	Method
TOC		5	mg/L	0.5	SM5310C
Lab ID # AA20561		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		22	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17381		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		325.5	MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 07/08/2014		IDEM Sample	#: AB17555	
SiteID: WMI-04-0011 Water Flow Type Run	Sample Date: 07/08/2014 Water Appearance	Murky	IDEM Sample	#: AB17555 Vater Depth	✓ Algae?
	·	_	_		
Nater Flow Type Run	Water Appearance	_	V	Vater Depth	
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	_	V	Vater Depth	
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water Appearance	✓ Ac	V quatic Life?	Vater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result 91.5 8.4	vquatic Life? % mg/L	Vater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	vquatic Life? % mg/L	Vater 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 Appearance	Result 91.5 8.4 7.95	vquatic Life? % mg/L	Vater 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) Specific Conductance (Field) Temperature	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47	% mg/L SU umho/cm °C	Vater 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) Temperature Turbidity (Hach)	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47	yquatic Life? % 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) EPA 180.1
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	91.5 8.4 7.95 659 19.47 24.4	% 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)
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	91.5 8.4 7.95 659 19.47 24.4 4 8.3047	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓM D5389-95/D3858
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	PRESULT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3	% mg/L SU umho/cm °C NTU Lookup cf/sec 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
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	PRESULT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓM D5389-95/D3858
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec 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 ΓΜ D5389-95/D3858 Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength	Water Appearance	91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27 3	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec 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 FM D5389-95/D3858 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060132 Alkalinity (as CaCO3) Chloride	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27 3 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 FM D5389-95/D3858 Observation Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060132 Alkalinity (as CaCO3)	Water Appearance	PRESUIT 91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27 3 Result 280 22 16	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Vater 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 TM D5389-95/D3858 Observation Observation Observation Observation Method SM2320B
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060132 Alkalinity (as CaCO3) Chloride	Water Appearance	91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27 3 Result 280 22 16 460	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 2	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060132 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	91.5 8.4 7.95 659 19.47 24.4 4 8.3047 3 27 3 Result 280 22 16 460	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 2 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 309 of 433

Lab ID # 3060133		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		89	mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3060134		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060135		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.7	mg/L	0.1	EPA 353.2
Lab ID # 3060136		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3060137		Result		Reporting Limit	<u>Method</u>
TOC		5.5	mg/L	0.5	SM5310C
Lab ID # AA22945		Result		Reporting Limit	<u>Method</u>
COD		6	mg/L	10	EPA 410.4
TKN		0.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17555		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 08/11/2014		IDEM Sample #	#: AB18376	
Water Flow Type Run	Water Appearance	Clear	•	ater 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		89.5	%		SM4500-OG

ab ID #	<u>Result</u>	Reporting Limit	<u>Method</u>
% Sat	89.5 %		SM4500-OG
DO	7.52 mg/L		SM4500-OG
pH (Field)	8.13 SU		EPA 150.2
Specific Conductance (Field)	680 umho	o/cm	SM2510B
Temperature	22.47 °C		SM2550B(2)
Turbidity (Hach)	6.3 NTU		EPA 180.1
Air Temp	5 Look	up	Observation
Sky Conditions	3 Look	up	Observation
Wind Direction	27 Look	up	Observation
Wind Strength	1 Look	qu	Observation

Thursday, July 30, 2015 Page 310 of 433

SiteID: WMI-04-0011 **Sample Date**: 08/19/2014 **IDEM Sample #**: AB18743

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	95	%		ASTM D888-09(C)
DO	8.63	mg/L		ASTM D888-09(C)
pH (Field)	7.87	SU		EPA 150.2
Specific Conductance (Field)	737	umho/cm		SM2510B
Temperature	19.97	°C		SM2550B(2)
Turbidity (Hach)	6	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Flow	1.6944	cf/sec		ΓM D5089-95/D3858
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087224	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	300	mg/L	1	SM2320B
Chloride	21	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		mg/L	10	SM2540D
Solids, Total (TS)		mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		mg/L	10	SM2540C
Sulfate		mg/L	25	EPA 300.0
Lab ID # 3087225	Result		Reporting Limit	Method
Hardness (as CaCO3)	350	mg/L	0.66	SM2340B
Calcium (Total)	90	mg/L	0.1	EPA 200.7
Magnesium (Total)		mg/L	0.1	EPA 200.7
Lab ID # 3087226	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087227	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087228	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3087229	Result		Reporting Limit	<u>Method</u>
TOC	2.7	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 311 of 433

Lab ID # AA25809		Result		Reporting Limit	<u>Method</u>
COD TKN			mg/L mg/L	10 0.3	EPA 410.4 SM4500N(Org)-B
Lab ID # AB18743		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	2419.6 1	SM9223B SM9223B
SiteID: WMI-04-0011	Sample Date: 09/16/2014		IDEM Sample	#: AB19058	
Water Flow Type Riffle	Water Appearance	Murky	W	ater Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	Method
% Sat		93.9	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		6.93			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.22			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow Sky Conditions		9.8763			TM D5389-95/D3858
Sky Conditions Wind Direction			Lookup Lookup		Observation Observation
Wind Strength			Lookup		Observation
Lab ID # 3105606		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		280	mg/L	1	SM2320B
Chloride		24	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		39	mg/L	25	EPA 300.0
Lab ID # 3105607		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		27	mg/L	0.1	EPA 200.7
Lab ID # 3105608		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 312 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105609

Nitrogen, Nitrate+Nitrite		1.2	mg/L	0.1	EPA 353.2
Lab ID # 3105610		Result		Reporting Limit	Method
Phosphorus, Total		0.13	mg/L	0.05	SM4500P-E
Lab ID # 3105611		Result		Reporting Limit	Method
TOC		5	mg/L	0.5	SM5310C
Lab ID # AA28055		Result		Reporting Limit	<u>Method</u>
COD		8	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19058		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 10/28/2014		IDEM Sample	#· AB19241	
	Water Appearance	Clear	-	Water Depth	✓ Algae?
Water Flow Type Riffle	Water Appearance	_	V	-	_
	•	_	-	Water Depth Canopy Closed %	_
Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	_	V	-	_
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	✓ Ac	V quatic Life?	Canopy Closed %	0-20%
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	quatic Life?	Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Result 87.6 9.06	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C)
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 87.6 9.06 7.67	quatic Life? % mg/L SU	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Result 87.6 9.06 7.67 719	quatic Life? % mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Result 87.6 9.06 7.67 719 13.61	% 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)
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88	% 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 Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3	% 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 Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422	% mg/L SU umho/cm °C NTU Lookup cf/sec	Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓM D5389-95/D3858
Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 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 Flow	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27	% mg/L SU umho/cm °C NTU Lookup cf/sec	Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓM D5389-95/D3858
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup	Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓΜ D5389-95/D3858 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	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 FM D5389-95/D3858 Observation 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568 Alkalinity (as CaCO3)	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation Method SM2320B
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result 300 32	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result 300 32 < 10	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10 10	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result 300 32 <10 440	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10 10 10	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130568 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 87.6 9.06 7.67 719 13.61 4.88 3 5.6422 4 27 2 Result 300 32 <10 440 410	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10 10	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 313 of 433

Lab ID # 3130569		Result		Reporting Limit	Method
Hardness (as CaCO3)		370	mg/L	0.66	SM2340B
Calcium (Total)		95	mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3130570		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130571		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.3	mg/L	0.1	EPA 353.2
Lab ID # 3130572		Result		Reporting Limit	Method
Phosphorus, Total		< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3130573		Result		Reporting Limit	<u>Method</u>
TOC		3.8	mg/L	0.5	SM5310C
Lab ID # AA31632		Result		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19241		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-04-0011	Sample Date: 11/19/2014		IDEM Sample	#· AR19611	
Water Flow Type Riffle	Water Appearance	Clear	-	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	-
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		109.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		8.05	SU		FPA 150 2

ab ID #	Result		Reporting Limit Meth	<u>iod</u>
% Sat	109.6	%	ASTM D88	8-09(C)
DO	15.75	mg/L	ASTM D88	8-09(C)
pH (Field)	8.05	SU	EPA 15	50.2
Specific Conductance (Field)	783	umho/cm	SM251	0B
Temperature	0.058	°C	SM2550	B(2)
Turbidity (Hach)	2.93	NTU	EPA 18	30.1
Air Temp	1	Lookup	Observa	ation
Flow	3.2505	cf/sec	ГМ D5389-9	5/D3858
Sky Conditions	4	Lookup	Observa	ation
Wind Direction	18	Lookup	Observa	ation
Wind Strength	3	Lookup	Observa	ation

Thursday, July 30, 2015 Page 314 of 433

Lab ID # 3142785	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	320 ।	mg/L	1	SM2320B
Chloride	26 ।	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	450 ।	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 ।	mg/L	10	SM2540C
Sulfate	49 ।	mg/L	25	EPA 300.0
Lab ID # 3142786	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	390	mg/L	0.66	SM2340B
Calcium (Total)	100 1	mg/L	0.1	EPA 200.7
Magnesium (Total)	34 ।	mg/L	0.1	EPA 200.7
Lab ID # 3142787	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3142788	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.6	mg/L	0.1	EPA 353.2
Lab ID # 3142789	Result		Reporting Limit	Method
Phosphorus, Total	0.05	mg/L	0.05	SM4500P-E
Lab ID # 3142790	Result		Reporting Limit	<u>Method</u>
TOC	2.6	mg/L	0.5	SM5310C
Lab ID # 50107929005	Result		Reporting Limit	<u>Method</u>
COD	11.8	mg/L	10	EPA 410.4
TKN	< 0.5	-	0.5	EPA 351.2
Lab ID # AB19611	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	387 3	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 315 of 433

SiteID: WMI-04-0011	Sample Date: 12/16/2014		IDEM Samp	ole #: AB19846	
Water Flow Type Riffle	Water 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		91.3	%		ASTM D888-09(C)
DO		11.1	mg/L		ASTM D888-09(C)
pH (Field)		8.05	SU		EPA 150.2
Specific Conductance (Field)		719	umho/cm		SM2510B
Temperature		6.81	°C		SM2550B(2)
Turbidity (Hach)		7.69	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		12.8375	cf/sec		ΓM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3156213		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		310	mg/L	1	SM2320B
Chloride		28	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		430	mg/L	10	SM2540C
Sulfate			mg/L	25	EPA 300.0
Lab ID # 3156214		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		380	mg/L	0.66	SM2340B
Calcium (Total)		100	mg/L	0.1	EPA 200.7
Magnesium (Total)		31	mg/L	0.1	EPA 200.7
Lab ID # 3156215		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3156216		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		1.5	mg/L	0.1	EPA 353.2
Lab ID # 3156217		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.1	mg/L	0.05	SM4500P-E
Lab ID # 3156218		Result		Reporting Limit	<u>Method</u>
TOC		3.7	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 316 of 433

Lab ID # 50109606012		Result		Reporting Limit	Method
COD TKN			mg/L mg/L	10 0.5	EPA 410.4 EPA 351.2
SiteID: WMI-04-0011	Sample Date: 01/20/2015		IDEM Sampl	le #: AB20317	
Nater Flow Type Riffle	Water Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		99			ASTM D888-09(C)
DO		12.92	-		ASTM D888-09(C)
pH (Field)		7.92	SU		EPA 150.2
Specific Conductance (Field)		560	umho/cm		SM2510B
Temperature		4.11	°C		SM2550B(2)
Turbidity (Hach)		18.4	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		28.1965	cf/sec		ΓM D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3173844		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		230	mg/L	1	SM2320B
Chloride		21	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)		10	mg/L	10	SM2540D
Solids, Total (TS)		330	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		320	mg/L	10	SM2540C
Sulfate		24	mg/L	5	EPA 300.0
Lab ID # 3173845		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3173846		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	_	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3173847		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.9	mg/L	0.1	EPA 353.2
Lab ID # 3173848		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 317 of 433

Lab ID # 3173849			Result		Reporting Limit	<u>Method</u>
TOC			4.3	mg/L	0.5	SM5310C
Lab ID # 50111361011			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			< 10	mg/L	10	EPA 410.4
TKN			< 0.5	mg/L	0.5	EPA 351.2
SiteID: WMI-04-0011	Sample Date:	03/17/2015		IDEM Samp	le #: AB20790	
Water Flow Type Riffle	Water	Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	Flov	v Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		- Louinatou i		judiio Elio i	campy closes /s	0 20,0
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			94.4	%		ASTM D888-09(C)
DO			11.72			ASTM D888-09(C)
pH (Field)			7.89	•		EPA 150.2
Specific Conductance (Field)			550	umho/cm		SM2510B
Temperature			6.02	°C		SM2550B(2)
Turbidity (Hach)			20.5	NTU		EPA 180.1
Air Temp			2	Lookup		Observation
Flow			44.2911	cf/sec		ΓM D5389-95/D3858
Sky Conditions			2	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # 3209012			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			220	mg/L	1	SM2320B
Chloride			23	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)			16	mg/L	10	SM2540D
Solids, Total (TS)			360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			300	mg/L	10	SM2540C
Sulfate			24	mg/L	15	EPA 300.0
Lab ID # 3209013			Result		Reporting Limit	Method
Hardness (as CaCO3)				mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			23	mg/L	0.1	EPA 200.7
Lab ID # 3209014			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3209015			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			3.3	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 318 of 433

Lab ID # 3209016	Result	Reporting Limit	<u>Method</u>	
Phosphorus, Total	0.26 mg/L	0.05	SM4500P-E	
Lab ID # 3209017	Result	Reporting Limit	<u>Method</u>	
TOC	4.5 mg/L	0.5	SM5310C	
Lab ID # 50114905012	Result	Reporting Limit	<u>Method</u>	
COD	< 10 mg/L	10	EPA 410.4	
TKN	0.62 mg/L	0.5	EPA 351.2	

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

Thursday, July 30, 2015 Page 319 of 433

SiteID: WMI-04-0012 USGS Hydrologic Unit: 051201030404 Stream Name: Mississinewa River County: Delaware Description: CR 364 W Latitude: 40 22 20.85967 Longitude: -85 27 23.16790 Site Number: 14T-131 Drainage: 424.403 **SiteID:** WMI-04-0012 Sample Date: 04/15/2014 IDEM Sample #: AB16186 ☐ Algae? Water Depth Water Flow Type Glide **Water Appearance** Murky ☐ Flow Estimated? ☐ Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments: FLOW - 471.66 cfs

Water Flow (cf/sec):

DO	D888-09(C) D888-09(C) D888-09(C) PA 150.2 M2510B D2510B D2550B(2) PA 180.1 D888-09(C) D988-09(C) D9
pH (Field) 8.25 SU E Specific Conductance (Field) 605 umho/cm 3 Temperature 9.94 °C SM Turbidity (Hach) 38 NTU E Air Temp 2 Lookup O Flow 471.66 cf/sec FM D5 Sky Conditions 2 Lookup O Wind Direction 27 Lookup O Wind Strength 2 Lookup O Alkalinity (as CaCO3) 220 mg/L 1 5 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320	PA 150.2 M2510B M2550B(2) PA 180.1 eservation B89-95/D3858 eservation eservation eservation Method
Specific Conductance (Field) 605 umho/cm Section Temperature 9.94 °C St Turbidity (Hach) 38 NTU E Air Temp 2 Lookup O Flow 471.66 cf/sec FM D5 Sky Conditions 2 Lookup O Wind Direction 27 Lookup O Wind Strength 2 Lookup O Alkalinity (as CaCO3) 220 mg/L 1 S Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 S Solids, Total (TS) 390 mg/L 10 S Solids, Total Dissolved (TDS) 350 mg/L 10 S Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 S Calcium (Total) 79 mg/L 0.1 E	M2510B l2550B(2) PA 180.1 servation 389-95/D3858 servation servation servation
Temperature	I2550B(2) PA 180.1 Isservation B89-95/D3858 Isservation
Turbidity (Hach) Air Temp 2 Lookup O Flow 471.66 ct/sec TM D5 Sky Conditions 2 Lookup O Wind Direction Wind Strength 2 Lookup O Lab ID # 3011060 Result Reporting Limit Reporting Limit Alkalinity (as CaCO3) Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 30 mg/L 10 SS Solids, Total (TS) 390 mg/L 10 SS Solids, Total Dissolved (TDS) Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Reporting Limit Reporting Limit	PA 180.1 servation 889-95/D3858 servation servation servation Method M2320B
Air Temp 2 Lookup 00 Flow 471.66 cf/sec ΓM D5 Sky Conditions 2 Lookup 0 Wind Direction 27 Lookup 00 Wind Strength 2 Lookup 00 Wind Strength 2 Lookup 00 Lab ID # 3011060 Result Reporting Limit Alkalinity (as CaCO3) 220 mg/L 1 3 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit	servation 889-95/D3858 servation servation servation Method
Flow	889-95/D3858 servation servation servation Method
Sky Conditions 2 Lookup O Wind Direction 27 Lookup O Wind Strength 2 Lookup O Lab ID # 3011060 Result Reporting Limit Alkalinity (as CaCO3) 220 mg/L 1 5 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	servation servation servation Method
Wind Direction 27 Lookup O Wind Strength 2 Lookup O Lab ID # 3011060 Result Reporting Limit Alkalinity (as CaCO3) 220 mg/L 1 5 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit E Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	servation servation Method M2320B
Lab ID # 3011060 Result Reporting Limit Alkalinity (as CaCO3) 220 mg/L 1 5 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	Method M2320B
Lab ID # 3011060 Result Reporting Limit Alkalinity (as CaCO3) 220 mg/L 1 5 Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 5 Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	Method M2320B
Alkalinity (as CaCO3) Chloride Chloride Fluoride Chloride	M2320B
Chloride 26 mg/L 6 E Fluoride 0.2 mg/L 0.1 SM Solids, Suspended Total, (TSS) 30 mg/L 10 S Solids, Total (TS) 390 mg/L 10 S Solids, Total Dissolved (TDS) 350 mg/L 10 S Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit S Hardness (as CaCO3) 320 mg/L 0.66 S Calcium (Total) 79 mg/L 0.1 E	
Fluoride	PA 300.0
Solids, Suspended Total, (TSS) 30 mg/L 10 Solids, Total (TS) 390 mg/L 10 Solids, Total (TS) 350 mg/L 10 Solids, Total Dissolved (TDS) 350 mg/L 15 E	
Solids, Total (TS) 390 mg/L 10 5 Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	4500F(-)-C
Solids, Total Dissolved (TDS) 350 mg/L 10 5 Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 5 Calcium (Total) 79 mg/L 0.1 E	M2540D
Sulfate 33 mg/L 15 E Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 S Calcium (Total) 79 mg/L 0.1 E	M2540B
Lab ID # 3011061 Result Reporting Limit Hardness (as CaCO3) 320 mg/L 0.66 S Calcium (Total) 79 mg/L 0.1 E	M2540C
Hardness (as CaCO3) 320 mg/L 0.66 S Calcium (Total) 79 mg/L 0.1 E	PA 300.0
Calcium (Total) 79 mg/L 0.1 E	Method
	M2340B
Magnesium (Total) 29 mg/L 0.1 E	PA 200.7
	PA 200.7
Lab ID # 3011062 Result Reporting Limit	<u>Method</u>
Nitrogen, Ammonia < 0.1 mg/L 0.1 SM	500NH3-D
Lab ID # 3011063 Result Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite 4.6 mg/L 0.1 E	PA 353.2
Lab ID # 3011064 Result Reporting Limit	
Phosphorus, Total 0.26 mg/L 0.05 SI	<u>Method</u>

Thursday, July 30, 2015 Page 320 of 433

Lab ID # 3011065		Result		Reporting Limit	<u>Method</u>
TOC		4.3	mg/L	0.5	SM5310C
Lab ID # AA14523		Result		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN		0.64	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16186		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1986.3	MPN/100mL	1	SM9223B
E. coli		172.3	MPN/100mL	1	SM9223B
SiteID: WMI-04-0012	Sample Date: 04/22/2014		IDEM Sample	#· AB16430	
Water Flow Type Glide	Water Appearance	Murky		/ater 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		119	%		ASTM D888-09(C)
DO		11.95	mg/L		ASTM D888-09(C)
pH (Field)		8.41	SU		EPA 150.2
Specific Conductance (Field)		661	umho/cm		SM2510B
Temperature		15.17	°C		SM2550B(2)
Turbidity (Hach)		12.5	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 # AB16430		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		115.3	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 321 of 433

SiteID : WMI-04-0012	Sample Date:	04/29/2014	IDEM Sample #: AB16502			
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			94.3	%		ASTM D888-09(C)
DO			9.58	mg/L		ASTM D888-09(C)
pH (Field)			8.12	SU		EPA 150.2
Specific Conductance (Field)			522	umho/cm		SM2510B
Temperature			14.61	°C		SM2550B(2)
Turbidity (Hach)			120	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			1	Lookup		Observation
Wind Direction			18	Lookup		Observation
Wind Strength			4	Lookup		Observation
Lab ID # AB16502			Result		Reporting Limit	<u>Method</u>
E. coli			1986.3	MPN/100mL	1	SM9223B
Lab ID # AB16502a			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 24196	MPN/100mL	24196	SM9223B
Coliforms (Total) SiteID: WMI-04-0012 Water Flow Type Glide	Sample Date:	05/06/2014 Appearance	> 24196 Murky	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-04-0012 Water Flow Type Glide	Water		Murky	IDEM Sample	#: AB16821 Vater Depth	✓ Algae?
SiteID: WMI-04-0012	Water	Appearance	Murky	IDEM Sample	#: AB16821	✓ Algae?
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec):	Water	Appearance	Murky	IDEM Sample	#: AB16821 Vater Depth	✓ Algae?
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water □ Flow	Appearance	Murky	IDEM Sample W Juatic Life?	#: AB16821 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Flow	Appearance	Murky Ac	IDEM Sample W quatic Life?	#: AB16821 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Flow	Appearance	Murky Acc Result	IDEM Sample Wiguatic Life? % mg/L	#: AB16821 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance	Murky Ac Result 134.4 13.88 8.38	IDEM Sample Wiguatic Life? % mg/L	#: AB16821 Vater Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Flow	Appearance	Murky Ac Result 134.4 13.88 8.38	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16821 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85	IDEM Sample W quatic Life? % mg/L SU umho/cm	#: AB16821 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27	IDEM Sample W quatic Life? % mg/L SU umho/cm °C NTU	#: AB16821 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27 4	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16821 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: WMI-04-0012 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 Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27 4 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16821 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: WMI-04-0012 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27 4 1	IDEM Sample Wiguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16821 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: WMI-04-0012 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 Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27 4 1	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16821 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: WMI-04-0012 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 Flow	Appearance	Murky Result 134.4 13.88 8.38 649 13.85 8.27 4 1 27 2 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16821 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

Thursday, July 30, 2015 Page 322 of 433

	Sample Date: 05/13/2014		IDEW Sample	e#: AB16954	
Water Flow Type Run	Water Appearance	Brown	,	Water 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		109.5	%		ASTM D888-09(C)
DO		9.53	mg/L		ASTM D888-09(C)
pH (Field)		8.16	SU		EPA 150.2
Specific Conductance (Field)		631	umho/cm		SM2510B
Temperature		22.58	°C		SM2550B(2)
Turbidity (Hach)		14.7	NTU		EPA 180.1
Air Temp		5	Lookup		Observation
Flow		362.33	•		ГМ D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3027149		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		31	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate			mg/L	15	EPA 300.0
Lab ID # 3027150		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		310	mg/L	0.66	SM2340B
Calcium (Total)		71	mg/L	0.1	EPA 200.7
Magnesium (Total)		30	mg/L	0.1	EPA 200.7
Lab ID # 3027151		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3027152		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.8	mg/L	0.1	EPA 353.2
Lab ID # 3027153		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.17	mg/L	0.05	SM4500P-E
Lab ID # 3027154		Result		Reporting Limit	Method

Thursday, July 30, 2015 Page 323 of 433

Lab ID # AA17829		Result		Reporting Limit	<u>Method</u>
COD		18	mg/L	10	EPA 410.4
TKN		0.98	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16954		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		410.6	MPN/100mL	1	SM9223B
SiteID: WMI-04-0012	Sample Date: 06/10/2014		IDEM Sample	#: AB17382	
Water Flow Type Run	Water Appearance	Brown	W	later 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		88.5	%		ASTM D888-09(C)
DO		8.21	mg/L		ASTM D888-09(C)
pH (Field)		7.74	SU		EPA 150.2
Specific Conductance (Field)		476	umho/cm		SM2510B
Temperature		18.87	°C		SM2550B(2)
Turbidity (Hach)		184	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		774.79	cf/sec		ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042573		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride		19	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	5	EPA 300.0
Lab ID # 3042574		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		20	mg/L	0.1	EPA 200.7
Lab ID # 3042575		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 324 of 433

Lab ID # 3042576		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		11	mg/L	1	EPA 353.2
Lab ID # 3042577		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.63	mg/L	0.05	SM4500P-E
Lab ID # 3042578		Result		Reporting Limit	<u>Method</u>
TOC		7.1	mg/L	0.5	SM5310C
Lab ID # AA20562		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		30	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17382		Result		Reporting Limit	<u>Method</u>
E. coli		1119.9	MPN/100mL	1	SM9223B
Lab ID # AB17382a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-04-0012	Sample Date: 07/08/2014		IDEM Sample #:	AB17556	
Water Flow Type Run	Water Appearance	Clear	Wa	ter Depth	✓ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	128.1	%		ASTM D888-09(C)
DO	11.21	mg/L		ASTM D888-09(C)
pH (Field)	8.32	SU		EPA 150.2
Specific Conductance (Field)	645	umho/cm		SM2510B
Temperature	21.88	°C		SM2550B(2)
Turbidity (Hach)	9.2	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	117.65	cf/sec		ΓM D5389-95/D3858
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	4	Lookup		Observation

Thursday, July 30, 2015 Page 325 of 433

Lab ID # 3060124	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	240	mg/L	1	SM2320B
Chloride	35	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350	mg/L	10	SM2540C
Sulfate	43	mg/L	5	EPA 300.0
Lab ID # 3060125	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	67	mg/L	0.1	EPA 200.7
Magnesium (Total)	30	mg/L	0.1	EPA 200.7
Lab ID # 3060126	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060127	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	EPA 353.2
Lab ID # 3060128	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E
Lab ID # 3060129	Result		Reporting Limit	Method
TOC	5.3	mg/L	0.5	SM5310C
Lab ID # AA22944	Result		Reporting Limit	Method
COD	11	mg/L	10	EPA 410.4
TKN	0.49		0.3	SM4500N(Org)-B
Lab ID # AB17556	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	290.9	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 326 of 433

SiteID: WMI-04-0012 Sample Date: 08/13/2014 IDEM Sample #: AB18375 ✓ Algae? **Water Depth** Water Flow Type **Water Appearance** Murky ☐ Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** % Sat 63.5 % SM4500-OG DO 5.68 mg/L SM4500-OG pH (Field) 8.11 SU EPA 150.2 Specific Conductance (Field) 782 umho/cm SM2510B Temperature 19.24 °C SM2550B(2) Turbidity (Hach) 20.6 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions 1 Lookup Observation Observation Wind Direction 27 Lookup Wind Strength 0 Lookup Observation SiteID: WMI-04-0012 Sample Date: 08/19/2014 IDEM Sample #: AB18744 **Water Depth** ✓ Algae? Water Flow Type Run **Water Appearance** Murky Flow Estimated? ✓ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit** Method ASTM D888-09(C) % Sat 95.6 % DO 8.4 mg/L ASTM D888-09(C) 8.05 SU EPA 150.2 pH (Field) Specific Conductance (Field) 868 umho/cm SM2510B Temperature 21.66 °C SM2550B(2) Turbidity (Hach) 21.6 NTU EPA 180.1 Air Temp 5 Lookup Observation TM D5089-95/D3858 Flow 21.9789 cf/sec Sky Conditions 2 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID # 3087216 **Reporting Limit** Result **Method** 250 mg/L SM2320B Alkalinity (as CaCO3) 1 71 mg/L Chloride 10 EPA 300.0 Solids, Suspended Total, (TSS) 22 mg/L 10 SM2540D Solids, Total (TS) 480 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 460 mg/L 10 SM2540C Sulfate 64 mg/L 25 EPA 300.0

Thursday, July 30, 2015 Page 327 of 433

Lab ID # 3087217			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			310	mg/L	0.66	SM2340B
Calcium (Total)			66	mg/L	0.1	EPA 200.7
Magnesium (Total)			34	mg/L	0.1	EPA 200.7
Lab ID # 3087218			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3087219			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			0.5	mg/L	0.1	EPA 353.2
Lab ID # 3087220			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.28	mg/L	0.05	SM4500P-E
Lab ID # 3087221			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			6.4	mg/L	0.5	SM5310C
Lab ID # AA25808			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			17	mg/L	10	EPA 410.4
TKN			0.8	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18744			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			133.4	MPN/100mL	1	SM9223B
SitolD: WMI 04 0040	Sample Date:	00/16/2014		IDEM Samuel	- #: AB10050	
SiteID: WMI-04-0012 Water Flow Type Riffle	•	09/16/2014 appearance	Murky	-	e #: AB19059 Water Depth	✓ Algae?
		Estimated?		uatic Life?	Canopy Closed %	_
Water Flow (cf/sec): Sampler Comments:	□ FIOW	Estimated?	ı ▼ A0	uatic Life?	Carlopy Closed %	∪-∠U%

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	90	%		ASTM D888-09(C)
DO	9.07	mg/L		ASTM D888-09(C)
pH (Field)	7.96	SU		EPA 150.2
Specific Conductance (Field)	636	umho/cm		SM2510B
Temperature	14.93	°C		SM2550B(2)
Turbidity (Hach)	14.2	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	99.2714	cf/sec		ΓM D5389-95/D3858
Sky Conditions	3	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 328 of 433

Lab ID # 3105598	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	32	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	39	mg/L	25	EPA 300.0
Lab ID # 3105599	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	280	mg/L	0.66	SM2340B
Calcium (Total)	71	mg/L	0.1	EPA 200.7
Magnesium (Total)	24	mg/L	0.1	EPA 200.7
Lab ID # 3105600	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105601	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.7	mg/L	0.1	EPA 353.2
Lab ID # 3105602	Result		Reporting Limit	Method
Phosphorus, Total	0.23	mg/L	0.05	SM4500P-E
Lab ID # 3105603	Result		Reporting Limit	<u>Method</u>
TOC	5.1	mg/L	0.5	SM5310C
Lab ID # AA28054	Result		Reporting Limit	Method
COD	13	mg/L	10	EPA 410.4
TKN	0.41	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19059	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	1732.9	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 329 of 433

SiteID: WMI-04-0012 **Sample Date**: 10/28/2014 **IDEM Sample #**: AB19242

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	75.9	%		ASTM D888-09(C)
DO	7.85	mg/L		ASTM D888-09(C)
pH (Field)	7.74	SU		EPA 150.2
Specific Conductance (Field)	792	umho/cm		SM2510B
Temperature	13.67	°C		SM2550B(2)
Turbidity (Hach)	4.32	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Flow	56.8081	cf/sec		ΓM D5389-95/D3858
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
.ab ID # 3130546	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	300	mg/L	1	SM2320B
Chloride	53	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420	mg/L	10	SM2540C
Sulfate	49	mg/L	25	EPA 300.0
_ab ID # 3130549	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	350	mg/L	0.66	SM2340B
Calcium (Total)	87	mg/L	0.1	EPA 200.7
Magnesium (Total)	32	mg/L	0.1	EPA 200.7
Lab ID # 3130550	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
.ab ID # 3130553	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.9	mg/L	0.1	EPA 353.2
_ab ID # 3130556	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.12	mg/L	0.05	SM4500P-E
Lab ID # 3130559	Result		Reporting Limit	<u>Method</u>
TOC	5.5	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 330 of 433

Lab ID # AA31631		Result		Reporting Limit	<u>Method</u>
COD		8	mg/L	10	EPA 410.4
TKN		0.56	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19242		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		52	MPN/100mL	1	SM9223B
SiteID: WMI-04-0012	Sample Date: 11/19/2014		IDEM Sample	#: AB19609	
Water Flow Type Run	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		113.2	%		ASTM D888-09(C)
DO		16.51	mg/L		ASTM D888-09(C)
pH (Field)		8.21	SU		EPA 150.2
Specific Conductance (Field)		857	umho/cm		SM2510B
Temperature		-0.08	°C		SM2550B(2)
Turbidity (Hach)		3.12	NTU		EPA 180.1
Air Temp		1	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction		18	Lookup		Observation
Wind Strength		3	Lookup		Observation
Lab ID # 3142821		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		48	mg/L	25	EPA 300.0
Lab ID # 3142822		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		36	mg/L	0.1	EPA 200.7
Lab ID # 3142823		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3142824		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.4	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 331 of 433

Lab ID # 3142825		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.06	mg/L	0.05	SM4500P-E
Lab ID # 3142826		Result		Reporting Limit	Method
TOC		4.1	mg/L	0.5	SM5310C
Lab ID # 50107929008		Result		Reporting Limit	Method
COD		16.2	mg/L	10	EPA 410.4
TKN		< 0.5	mg/L	0.5	EPA 351.2
Lab ID # AB19609		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		193.5	MPN/100mL	1	SM9223B
SiteID: WMI-04-0012	Sample Date: 12/15/2014		IDEM Sample	#• ΔR1985 <i>4</i>	
Water Flow Type Run	Water Appearance	Clear	_	/ater Depth	☐ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
pio:					
Lab ID #		Result		Reporting Limit	Method
•		Result 99.8	%	Reporting Limit	Method ASTM D888-09(C)
Lab ID # % Sat DO		99.8	mg/L	Reporting Limit	
Lab ID # % Sat DO pH (Field)		99.8 12.47 8.1	mg/L SU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		99.8 12.47 8.1 755	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		99.8 12.47 8.1 755 5.76	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		99.8 12.47 8.1 755 5.76	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		99.8 12.47 8.1 755 5.76 6.78	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	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		99.8 12.47 8.1 755 5.76 6.78 2 153.34	mg/L SU umho/cm °C NTU Lookup cf/sec	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions		99.8 12.47 8.1 755 5.76 6.78 2 153.34	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		99.8 12.47 8.1 755 5.76 6.78 2 153.34	mg/L SU umho/cm °C NTU Lookup cf/sec	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID# 3156189 Alkalinity (as CaCO3)		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4 27 1	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156189 Alkalinity (as CaCO3) Chloride		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4 27 1 Result	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156189 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4 27 1 Result 300 36 12	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156189 Alkalinity (as CaCO3) Chloride		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4 27 1 Result 300 36 12	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3156189 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		99.8 12.47 8.1 755 5.76 6.78 2 153.34 4 27 1 Result 300 36 12 460	mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 10 10	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 332 of 433

Lab ID # 3156190		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		380) mg/L	0.66	SM2340B
Calcium (Total)			l mg/L	0.1	EPA 200.7
Magnesium (Total)			3 mg/L	0.1	EPA 200.7
Lab ID # 3156191		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.7	mg/L	0.1	SM4500NH3-D
Lab ID # 3156192		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			3 mg/L	0.1	EPA 353.2
Lab ID # 3156193		<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.12	2 mg/L	0.05	SM4500P-E
Lab ID # 3156194		<u>Result</u>		Reporting Limit	Method
TOC		3.8	B mg/L	0.5	SM5310C
Lab ID # 50109606009		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		< 10	mg/L	10	EPA 410.4
TKN		0.59	mg/L	0.5	EPA 351.2
SiteID: WMI-04-0012	Sample Date: 0	1/20/2015	IDEM Sam	ole#: AB20325	
	Sample Date: 0 Water Ap			ple #: AB20325 Water Depth	☐ Algae?
Water Flow Type Run	Water Ap	pearance Murky		Water Depth	-
SiteID: WMI-04-0012 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Ap	pearance Murky			-
Water Flow Type Run Water Flow (cf/sec):	Water Ap	pearance Murky		Water Depth	-
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water Ap	pearance Murky stimated? A	quatic Life?	Water Depth Canopy Closed %	0-20%
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Ap	pearance Murky stimated? Result 88.4	quatic Life?	Water Depth Canopy Closed %	0-20% Method
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Ap	Pearance Murky stimated? A Result 88.4 13.03	quatic 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 Ap	Pearance Murky stimated? A Result 88.4 13.03 7.8	quatic Life?	Water 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 Ap	Pearance Murky stimated? A Result 88.4 13.03 7.8	quatic Life?	Water Depth Canopy Closed %	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)	Water Ap	Result 88.4 13.03 7.8 366 -0.32	quatic Life?	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 Ap	Result 88.4 13.03 7.8 366 -0.32 43.7	quatic Life? 4 % 5 mg/L 6 SU 6 umho/cm 2 °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)	Water Ap	Nurky Stimated? A	quatic Life? 4 % 5 mg/L 6 sumho/cm 2 °C 7 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 Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Ap	Result 88.4 13.03 7.8 366 -0.32 43.7	quatic Life? 3 % 3 mg/L 3 SU 4 umho/cm 2 °C 7 NTU 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

Thursday, July 30, 2015 Page 333 of 433

Lab ID # 3173836	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	130 n	mg/L	1	SM2320B
Chloride	19 r	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	22 r	mg/L	10	SM2540D
Solids, Total (TS)	240 r	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	190 r	mg/L	10	SM2540C
Sulfate	17 n	mg/L	5	EPA 300.0
Lab ID # 3173837	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	160 n	-	0.66	SM2340B
Calcium (Total)	40 r	mg/L	0.1	EPA 200.7
Magnesium (Total)	14 n	mg/L	0.1	EPA 200.7
Lab ID # 3173838	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1 n	mg/L	0.1	SM4500NH3-D
Lab ID # 3173839	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.8 n	mg/L	0.1	EPA 353.2
Lab ID # 3173840	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.42 n	mg/L	0.05	SM4500P-E
Lab ID # 3173841	Result		Reporting Limit	<u>Method</u>
TOC	7 n	mg/L	0.5	SM5310C
Lab ID # 50111361010	<u>Result</u>		Reporting Limit	<u>Method</u>
COD	17.8 n	mg/L	10	EPA 410.4
TKN	0.74 n	mg/L	0.5	EPA 351.2

Thursday, July 30, 2015 Page 334 of 433

SiteID: WMI-04-0012	Sample Date: 03/17/2015	ı	DEM Samp	ole #: AB20798	
Nater Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aqu	atic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
% Sat		93.2			ASTM D888-09(C)
DO		11.36 r	ng/L		ASTM D888-09(C)
pH (Field)		7.63	SU		EPA 150.2
Specific Conductance (Field)			ımho/cm		SM2510B
Temperature		6.8	C		SM2550B(2)
Turbidity (Hach)		36.5	NTU		EPA 180.1
Air Temp		2 l	_ookup		Observation
Flow		841.5	cf/sec		ΓM D5389-95/D3858
Sky Conditions		3 l	_ookup		Observation
Wind Direction		27 l	_ookup		Observation
Wind Strength		2 l	_ookup		Observation
Lab ID # 3209004		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		180 r	ng/L	1	SM2320B
Chloride		23 r	ng/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		27 r	ng/L	10	SM2540D
Solids, Total (TS)		340 r	-	10	SM2540B
Solids, Total Dissolved (TDS)		280 r	ng/L	10	SM2540C
Sulfate		26 r	-	15	EPA 300.0
Lab ID # 3209005		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		250 r	mg/L	0.66	SM2340B
Calcium (Total)		64 r	ng/L	0.1	EPA 200.7
Magnesium (Total)		22 r	-	0.1	EPA 200.7
Lab ID # 3209006		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1 r	ng/L	0.1	SM4500NH3-D
Lab ID # 3209007		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		4.4 r	ng/L	0.1	EPA 353.2
Lab ID # 3209008		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.33 r	ng/L	0.05	SM4500P-E
Lab ID # 3209009		Result		Reporting Limit	<u>Method</u>
TOC		5.4 r	ng/L	0.5	SM5310C

Thursday, July 30, 2015 Page 335 of 433

Lab ID # 50114905011	Result	Reporting Limit	<u>Method</u>	
COD	< 10 mg/L	10	EPA 410.4	
TKN	0.81 mg/L	0.5	EPA 351.2	

	Weather Code Definitions							
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				

Thursday, July 30, 2015 Page 336 of 433

SiteID: WMI-03-0009 USGS Hydrologic Unit: 051201030302
Stream Name: Big Lick Creek County: Delaware

Description: CR 1275 N **Latitude:** 40 22 37.62475 **Longitude:** -85 26 52.32484

Drainage: 76.171 **Site Number:** 14T-132

SiteID: WMI-03-0009 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16187

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

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 49.2288 cfs

Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	84.1	%		ASTM D888-09(C)
DO	10.86	mg/L		ASTM D888-09(C)
pH (Field)	7.71	SU		EPA 150.2
Specific Conductance (Field)	624	umho/cm		SM2510B
Temperature	4.42	°C		SM2550B(2)
Turbidity (Hach)	23.5	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Flow	49.2288	cf/sec		ΓM D5389-95/D3858
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3011068	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	220	mg/L	1	SM2320B
Chloride	32	mg/L	6	EPA 300.0
Fluoride	< 0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	16	mg/L	10	SM2540D
Solids, Total (TS)	390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360	mg/L	10	SM2540C
Sulfate	43	mg/L	15	EPA 300.0
Lab ID # 3011069	Result		Reporting Limit	Method
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	77	mg/L	0.1	EPA 200.7
Magnesium (Total)	24	mg/L	0.1	EPA 200.7
Lab ID # 3011070	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011071	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.2	mg/L	0.1	EPA 353.2
Lab ID # 3011072	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.24	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 337 of 433

Lab ID # 3011073		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		6.3	mg/L	0.5	SM5310C
Lab ID # AA14524		Result		Reporting Limit	Method
COD		20	mg/L	10	EPA 410.4
TKN		0.87	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16187		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-03-0009	Sample Date: 04/23/2014		IDEM Sample	#• AB16/31	
Water Flow Type Glide	Water Appearance	Murky		/ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			•		
Lab ID #		Result		Reporting Limit	Method
		Result	%	Reporting Limit	Method ASTM D888-09(C)
Lab ID #		74.8	% mg/L	Reporting Limit	
Lab ID #		74.8	mg/L	Reporting Limit	ASTM D888-09(C)
Lab ID # % Sat DO		74.8 8.42 7.71 765	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
Lab ID # % Sat DO pH (Field)		74.8 8.42 7.71	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		74.8 8.42 7.71 765 9.3	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		74.8 8.42 7.71 765 9.3 7.03	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		74.8 8.42 7.71 765 9.3 7.03	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		74.8 8.42 7.71 765 9.3 7.03 2	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		74.8 8.42 7.71 765 9.3 7.03 2 1	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		74.8 8.42 7.71 765 9.3 7.03 2 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		74.8 8.42 7.71 765 9.3 7.03 2 1 27 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 338 of 433

SiteID: WMI-03-0009	Sample Date: 04/30/2014		IDEM Sample	#: AB16503	
Water Flow Type Run	Water Appearance	Brown	V	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		73.4	%		ASTM D888-09(C)
DO		7.78	mg/L		ASTM D888-09(C)
pH (Field)		7.76	SU		EPA 150.2
Specific Conductance (Field)		508	umho/cm		SM2510B
Temperature		12.67	°C		SM2550B(2)
Turbidity (Hach)		80.7	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16503a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli SiteID: WMI-03-0009	Sample Date: 05/07/2014	9208	MPN/100mL IDEM Sample	10 #: AB16822	SM9223B
SiteID: WMI-03-0009	Sample Date: 05/07/2014 Water Appearance	9208 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-03-0009 Water Flow Type Run	•	Clear	IDEM Sample	#: AB16822	✓ Algae?
SiteID: WMI-03-0009	Water Appearance	Clear	IDEM Sample	#: AB16822 Water Depth	✓ Algae?
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16822 Water Depth	✔ Algae?
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample V quatic Life?	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample V quatic Life?	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample V quatic Life? % mg/L	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Ac Result 62.8 6.59 7.43	IDEM Sample V quatic Life? % mg/L	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Ac Result 62.8 6.59 7.43	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 62.8 6.59 7.43 809 13.04	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16822 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 62.8 6.59 7.43 809 13.04 5.29	IDEM Sample Quatic Life? % mg/L SU umho/cm °C	#: AB16822 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 62.8 6.59 7.43 809 13.04 5.29 3	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU	#: AB16822 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-03-0009 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	Clear Result 62.8 6.59 7.43 809 13.04 5.29 3 2	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16822 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: WMI-03-0009 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	Clear Result 62.8 6.59 7.43 809 13.04 5.29 3 2 27	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16822 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
SiteID: WMI-03-0009 Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 62.8 6.59 7.43 809 13.04 5.29 3 2 27	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16822 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
SiteID: WMI-03-0009 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	Clear Result 62.8 6.59 7.43 809 13.04 5.29 3 2 27 2 Result	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16822 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

Thursday, July 30, 2015 Page 339 of 433

SiteID: WMI-03-0009	Sample Date: 05/14/2014			
Vater Flow Type Run	Water Appearance Brown		Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	69.2	2 %		ASTM D888-09(C)
DO	6.71	mg/L		ASTM D888-09(C)
pH (Field)	7.54	: SU		EPA 150.2
Specific Conductance (Field)	460) umho/cm		SM2510B
Temperature	16.77	′ °C		SM2550B(2)
Turbidity (Hach)	282	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions		Lookup		Observation
Wind Direction		' Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3027157	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	130) mg/L	1	SM2320B
Chloride	30) mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)	160) mg/L	10	SM2540D
Solids, Total (TS)	500) mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340) mg/L	10	SM2540C
Sulfate	31	mg/L	15	EPA 300.0
Lab ID # 3027158	Result		Reporting Limit	Method
Hardness (as CaCO3)	210) mg/L	0.66	SM2340B
Calcium (Total)	56	6 mg/L	0.1	EPA 200.7
Magnesium (Total)	17	mg/L	0.1	EPA 200.7
Lab ID # 3027159	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.5	i mg/L	0.1	SM4500NH3-D
Lab ID # 3027160	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	4.7	mg/L	0.1	EPA 353.2
Lab ID # 3027161	Result		Reporting Limit	Method
Phosphorus, Total	0.98	B mg/L	0.25	SM4500P-E
Lab ID # 3027162	Result		Reporting Limit	Method
TOC		3 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 340 of 433

Lab ID # AA17830		<u>Result</u>		Reporting Limit	<u>Method</u>
COD TKN			mg/L mg/L	10 0.3	EPA 410.4 SM4500N(Org)-B
Lab ID # AB16955a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) E. coli			MPN/100mL MPN/100mL	24196 10	SM9223B SM9223B
SiteID: WMI-03-0009	Sample Date: 06/11/2014		IDEM Sample	#: AB17383	
Water Flow Type Run	Water Appearance	Murky	W	ater Depth	☐ Algae?
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		75.5	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.57			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.11			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		76.3146			FM D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction Wind Strength			Lookup Lookup		Observation Observation
Lab ID # 3042581		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)		390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		330	mg/L	10	SM2540C
Sulfate		35	mg/L	5	EPA 300.0
Lab ID # 3042582		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		19	mg/L	0.1	EPA 200.7
Lab ID # 3042583		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 341 of 433

Lab ID # 3042584		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		5.9	mg/L	0.1	EPA 353.2
Lab ID # 3042585		<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.34	mg/L	0.05	SM4500P-E
Lab ID # 3042586		Result		Reporting Limit	<u>Method</u>
TOC		7.4	mg/L	0.5	SM5310C
Lab ID # AA20563		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		30	mg/L	10	EPA 410.4
TKN		1.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17383a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		9208	MPN/100mL	10	SM9223B
SiteID: WMI-03-0009	Sample Date: 07/09/2014		_	#: AB17557	
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance Flow Estimated?	Murky ✓ Aq	_	#: AB17557 /ater Depth Canopy Closed %	✓ Algae? 0-20%
Nater Flow Type Run	Water Appearance	_	W	ater Depth	-
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	_	W	ater Depth	-
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	Wuguatic 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 61.7 4.71	watic Life? % 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: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 61.7 4.71 7.78	watic Life? % mg/L SU	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	Result 61.7 4.71 7.78 907	% 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	Result 61.7 4.71 7.78 907 19.78	% 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	Result 61.7 4.71 7.78 907 19.78 8.42	% 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	Result 61.7 4.71 7.78 907 19.78 8.42 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
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Result 61.7 4.71 7.78 907 19.78 8.42 4	% mg/L SU umho/cm °C NTU Lookup 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
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 61.7 4.71 7.78 907 19.78 8.42 4 1 27	% 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 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 61.7 4.71 7.78 907 19.78 8.42 4 1 27	% mg/L SU umho/cm °C NTU Lookup Lookup 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 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 61.7 4.71 7.78 907 19.78 8.42 4 1 27 0 Result	% 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
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 # 3060149	Water Appearance	Result 61.7 4.71 7.78 907 19.78 8.42 4 1 27 0 Result	% mg/L SU umho/cm °C NTU Lookup 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 Method
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 # 3060149 Alkalinity (as CaCO3)	Water Appearance	Result 61.7 4.71 7.78 907 19.78 8.42 4 1 27 0 Result 260 82	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	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 SM2320B
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 # 3060149 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 61.7 4.71 7.78 907 19.78 8.42 4 1 27 0 Result 260 82 < 10	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Smethod SM2320B EPA 300.0
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 # 3060149 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 61.7 4.71 7.78 907 19.78 8.42 4 1 27 0 Result 260 82 < 10 580	% mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Smethod SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 342 of 433

Lab ID # 3060150		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		84	mg/L	0.1	EPA 200.7
Magnesium (Total)		32	mg/L	0.1	EPA 200.7
Lab ID # 3060151		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060152		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1	mg/L	0.1	EPA 353.2
Lab ID # 3060153		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.16	mg/L	0.05	SM4500P-E
Lab ID # 3060154		Result		Reporting Limit	<u>Method</u>
TOC		6.1	mg/L	0.5	SM5310C
Lab ID # AA22947		Result		Reporting Limit	<u>Method</u>
COD		11	mg/L	10	EPA 410.4
TKN		0.49	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17557		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		387.3	MPN/100mL	1	SM9223B
SiteID: WMI-03-0009	Sample Date: 08/13/2014		IDEM Sample #	: AB18374	
Water Flow Type Run	Water Appearance	Clear	-	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	✓ ∧	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:	How Estimated:	<u> </u>	quatic Life:	Carlopy Closed 76	0-2076
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		87.7			SM4500-OG
DO		8 03	ma/l		SM4500-OG

b ID #	Result	Reporting	<u> Limit</u> <u>Method</u>
% Sat	87.7 %	, 0	SM4500-OG
DO	8.03 m	ng/L	SM4500-OG
pH (Field)	8.18 S	SU	EPA 150.2
Specific Conductance (Field)	1234 u	mho/cm	SM2510B
Temperature	18.09 °C	С	SM2550B(2)
Turbidity (Hach)	5.44 N	ITU	EPA 180.1
Air Temp	4 L	ookup	Observation
Sky Conditions	1 L	ookup	Observation
Wind Direction	0 L	ookup	Observation
Wind Strength	0 L	ookup	Observation

Thursday, July 30, 2015 Page 343 of 433

SiteID: WMI-03-0009 **Sample Date**: 08/20/2014 **IDEM Sample #**: AB18745

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	39.8	%		ASTM D888-09(C)
DO	3.48	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	1394	umho/cm		SM2510B
Temperature	20.82	°C		SM2550B(2)
Turbidity (Hach)	3.3	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	4.274	cf/sec		ΓM D5089-95/D3858
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
.ab ID # 3087240	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	280	mg/L	1	SM2320B
Chloride	170	mg/L	20	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	780	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	750	mg/L	10	SM2540C
Sulfate	130	mg/L	25	EPA 300.0
_ab ID # 3087243	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340	mg/L	0.66	SM2340B
Calcium (Total)	80	mg/L	0.1	EPA 200.7
Magnesium (Total)	35	mg/L	0.1	EPA 200.7
_ab ID # 3087244	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087247	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	1.9	mg/L	0.1	EPA 353.2
_ab ID # 3087250	Result		Reporting Limit	Method
Phosphorus, Total	0.36	mg/L	0.05	SM4500P-E
Lab ID # 3087253	Result		Reporting Limit	<u>Method</u>
тос	8.2	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 344 of 433

Lab ID # AA25811		Result		Reporting Limit	<u>Method</u>
COD		28	mg/L	10	EPA 410.4
TKN		0.96	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18745		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		166.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0009	Sample Date: 09/17/2014		IDEM Sample	#: AB19060	
Water Flow Type Run	Water Appearance	Clear	W	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	Method
% Sat		76.5			ASTM D888-09(C)
DO		8.03	mg/L		ASTM D888-09(C)
pH (Field)		7.78	SU		EPA 150.2
Specific Conductance (Field)		848	umho/cm		SM2510B
Temperature		12.72	°C		SM2550B(2)
Turbidity (Hach)		8.67	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Flow		16.796	cf/sec		ΓM D5389-95/D3858
Sky Conditions		6	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # 3105628		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		68	mg/L	25	EPA 300.0
Lab ID # 3105629		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3105630		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 345 of 433

Lab ID # 3105631		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.5	mg/L	0.1	EPA 353.2
Lab ID # 3105632		<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.18	mg/L	0.05	SM4500P-E
Lab ID # 3105633		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		7.2	mg/L	0.5	SM5310C
Lab ID # AA28058		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		19	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19060		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		344.8	MPN/100mL	1	SM9223B
SiteID: WMI-03-0009 Vater Flow Type Run	Sample Date: 10/29/2014 Water Appearance	Murky	IDEM Sample :	ater Depth	✓ Algae?
Vater Flow Type Run Vater Flow (cf/sec):	-		-		
Water Flow Type Run Water Flow (cf/sec): Sampler Comments:	Water Appearance		w	ater Depth	
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments:	Water Appearance	☐ Aq	W quatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments:	Water Appearance	Result	W quatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result	wuatic 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 66.5 7.43 7.72	wuatic Life? % 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: Lab ID #	Water Appearance	Result 66.5 7.43 7.72	% 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 #	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3	% 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
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191	% mg/L SU umho/cm °C NTU Lookup cf/sec	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 TM D5389-95/D3858
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 TM D5389-95/D3858 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 Flow	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27	% mg/L SU umho/cm °C NTU Lookup cf/sec	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 TM D5389-95/D3858
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup 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 TM D5389-95/D3858 Observation 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130584	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27 1 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Tater 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 TM D5389-95/D3858 Observation Observation Observation Observation Method
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130584 Alkalinity (as CaCO3)	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27 1 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Tater 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 TM D5389-95/D3858 Observation Observation Observation Observation Method SM2320B
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130584 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27 1 Result 280 100	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Observation SM2320B EPA 300.0
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27 1 Result 280 100 <10	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Tater 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 FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130584 Alkalinity (as CaCO3)	Water Appearance	Result 66.5 7.43 7.72 991 10.27 5.13 3 22.6191 1 27 1 Result 280 100 <10 570	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Observation SM2320B EPA 300.0

Thursday, July 30, 2015 Page 346 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Observation

Observation

Lab ID # 3130585

 0.00000					<u></u>	
Hardness (as CaCO3)			350	mg/L	0.66	SM2340B
Calcium (Total)			90	mg/L	0.1	EPA 200.7
Magnesium (Total)			30	mg/L	0.1	EPA 200.7
Lab ID # 3130586			Result		Reporting Limit	Method
Nitrogen, Ammonia			0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3130587			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			0.9	mg/L	0.1	EPA 353.2
Lab ID # 3130588			Result		Reporting Limit	Method
Phosphorus, Total			0.18	mg/L	0.05	SM4500P-E
Lab ID # 3130589			Result		Reporting Limit	<u>Method</u>
TOC			9	mg/L	0.5	SM5310C
Lab ID # AA31634			Result		Reporting Limit	<u>Method</u>
COD			24	mg/L	10	EPA 410.4
TKN				mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19243			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-03-0009	Sample Date:	12/16/2014		IDEM Sample	#: AB19853	
Water Flow Type Run	Water	Appearance	Murky	_	Vater Depth	✓ Algae?
Water Flow (cf/sec):		··· · Estimated?	_	uatic Life?	Canopy Closed %	_
Sampler Comments:				•		
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			63	%		ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			7.84			EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			6.32			SM2550B(2)
Turbidity (Hach)				NTU		EPA 180.1
Air Temp				Lookup		Observation
Flow			36.5129			ГМ D5389-95/D385
Sky Conditions				Lookup		Observation
Wind Direction			27	Lookup		Observation

Thursday, July 30, 2015 Page 347 of 433

27 Lookup

2 Lookup

Wind Direction

Wind Strength

Lab ID # 3156205	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	290 mg	/L 1	SM2320B
Chloride	52 mg	/L 10	EPA 300.0
Solids, Suspended Total, (TSS)	17 mg	/L 10	SM2540D
Solids, Total (TS)	500 mg	/L 10	SM2540B
Solids, Total Dissolved (TDS)	460 mg	/L 10	SM2540C
Sulfate	58 mg	/L 25	EPA 300.0
Lab ID # 3156206	<u>Result</u>	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	340 mg	/L 0.66	SM2340B
Calcium (Total)	92 mg	/L 0.1	EPA 200.7
Magnesium (Total)	28 mg	/L 0.1	EPA 200.7
Lab ID # 3156207	<u>Result</u>	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.6 mg	/L 0.1	SM4500NH3-D
Lab ID # 3156208	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1 mg	/L 0.1	EPA 353.2
Lab ID # 3156209	<u>Result</u>	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.27 mg	/L 0.05	SM4500P-E
Lab ID # 3156210	<u>Result</u>	Reporting Limit	Method
TOC	9.7 mg	/L 0.5	SM5310C
Lab ID # 50109606011	<u>Result</u>	Reporting Limit	<u>Method</u>
COD	25.6 mg	/L 10	EPA 410.4
TKN	1.6 mg	/L 0.5	EPA 351.2

Thursday, July 30, 2015 Page 348 of 433

SiteID: WMI-03-0009	Sample Date: 01/20/2015	IDEM Sample	e #: AB20324	
Nater Flow Type Run	Water Appearance Brown	,	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	89.1	1 %		ASTM D888-09(C)
DO	12.68	3 mg/L		ASTM D888-09(C)
pH (Field)	7.65	5 SU		EPA 150.2
Specific Conductance (Field)	390) umho/cm		SM2510B
Temperature	0.95	5 °C		SM2550B(2)
Turbidity (Hach)	50.1	1 NTU		EPA 180.1
Air Temp	2	2 Lookup		Observation
Sky Conditions		1 Lookup		Observation
Wind Direction		7 Lookup		Observation
Wind Strength) Lookup		Observation
Lab ID # 3173828	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	130) mg/L	1	SM2320B
Chloride	28	3 mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)	34	4 mg/L	10	SM2540D
Solids, Total (TS)	230) mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	210) mg/L	10	SM2540C
Sulfate	20) mg/L	5	EPA 300.0
Lab ID # 3173829	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	160) mg/L	0.66	SM2340B
Calcium (Total)	42	2 mg/L	0.1	EPA 200.7
Magnesium (Total)	12	2 mg/L	0.1	EPA 200.7
Lab ID # 3173830	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	1 mg/L	0.1	SM4500NH3-D
Lab ID # 3173831	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.0	3 mg/L	0.1	EPA 353.2
Lab ID # 3173832	Result		Reporting Limit	Method
Phosphorus, Total	0.31	1 mg/L	0.05	SM4500P-E
Lab ID # 3173833	<u>Result</u>		Reporting Limit	Method
TOC	8.4	1 mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 349 of 433

Lab ID # 50111361009		Result		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		0.81	mg/L	0.5	EPA 351.2
SiteID: WMI-03-0009	Sample Date: 03/17/2015		IDEM Sample	le#: AB20797	
Nater Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		91.3	%		ASTM D888-09(C)
DO		11.24	-		ASTM D888-09(C)
pH (Field)		7.7			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		6.4			SM2550B(2)
Turbidity (Hach)		46.4	NTU		EPA 180.1
Air Temp			Lookup		Observation
Flow		72.274	cf/sec		ΓM D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3208988		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride		30	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		13	mg/L	10	SM2540D
Solids, Total (TS)		320	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		270	mg/L	10	SM2540C
Sulfate		31	mg/L	15	EPA 300.0
Lab ID # 3208989		<u>Result</u>		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		18	mg/L	0.1	EPA 200.7
Lab ID # 3208990		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3208991		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.7	mg/L	0.1	EPA 353.2
Lab ID # 3208992		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 350 of 433

Lab ID # 3208993	Result	Reporting Limit	<u>Method</u>	
TOC	6.7 mg/L	0.5	SM5310C	
Lab ID # 50114905009	Result	Reporting Limit	<u>Method</u>	
Lab ID # 50114905009 COD	Result 12.2 mg/L	Reporting Limit	Method EPA 410.4	

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

Thursday, July 30, 2015 Page 351 of 433

 SiteID:
 WMI-03-0005
 USGS Hydrologic Unit:
 051201030302

 Stream Name:
 Townsand Lucas Ditch
 County:
 Blackford

Description: CR 300 S **Latitude:** 40 24 26.80611 **Longitude:** -85 25 15.24705

Drainage: 6.984 Site Number: 14T-134

SiteID: WMI-03-0005 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16188

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	93.2	%		ASTM D888-09(C)
DO	12.11	mg/L		ASTM D888-09(C)
pH (Field)	8.18	SU		EPA 150.2
Specific Conductance (Field)	528	umho/cm		SM2510B
Temperature	4.31	°C		SM2550B(2)
Turbidity (Hach)	12.9	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3011101	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	200	mg/L	1	SM2320B
Chloride	19	mg/L	6	EPA 300.0
Fluoride	< 0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	340	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	28	mg/L	15	EPA 300.0
Lab ID # 3011102	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	260	mg/L	0.66	SM2340B
Calcium (Total)	70	mg/L	0.1	EPA 200.7
Magnesium (Total)	22	mg/L	0.1	EPA 200.7
Lab ID # 3011103	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011104	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	3.6	mg/L	0.1	EPA 353.2
Lab ID # 3011105	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 352 of 433

Lab ID # 3011106		Result		Reporting Limit	<u>Method</u>
TOC		4.6	mg/L	0.5	SM5310C
Lab ID # AA14525		<u>Result</u>		Reporting Limit	Method
COD		< 10	mg/L	10	EPA 410.4
TKN		0.98	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16188		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		2419.6	MPN/100mL	1	SM9223B
E. coli		64.5	MPN/100mL	1	SM9223B
SiteID: WMI-03-0005	Sample Date: 04/23/2014		IDEM Sample	#: AB16432	
Water Flow Type Glide	Water Appearance	Clear	W	ater 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>
Lab ID #		Result 84	%	Reporting Limit	Method ASTM D888-09(C)
		84	% mg/L	Reporting Limit	
% Sat DO pH (Field)		84	mg/L	Reporting Limit	ASTM D888-09(C)
% Sat DO pH (Field) Specific Conductance (Field)		84 9.34 8.09 585	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
% Sat DO pH (Field) Specific Conductance (Field) Temperature		84 9.34 8.09 585 10.42	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		84 9.34 8.09 585 10.42 6.11	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		84 9.34 8.09 585 10.42 6.11	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		84 9.34 8.09 585 10.42 6.11 2	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		84 9.34 8.09 585 10.42 6.11 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		84 9.34 8.09 585 10.42 6.11 2	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		84 9.34 8.09 585 10.42 6.11 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		84 9.34 8.09 585 10.42 6.11 2 1 27 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 353 of 433

SiteID: WMI-03-0005	Sample Date: 04/30/2014		IDEM Sample	#: AB16504	
Water Flow Type Riffle	Water Appearance	Murky	V	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		89.1	%		ASTM D888-09(C)
DO		9.73	mg/L		ASTM D888-09(C)
pH (Field)		7.99	SU		EPA 150.2
Specific Conductance (Field)		513	umho/cm		SM2510B
Temperature		11.32	°C		SM2550B(2)
Turbidity (Hach)		24.7	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16504		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli SiteID: WMI-03-0005	Sample Date: 05/07/2014	435.2	MPN/100mL IDEM Sample	#: AB16823	SM9223B
SiteID: WMI-03-0005	Sample Date: 05/07/2014 Water Appearance	435.2 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-03-0005 \$	•	Clear	IDEM Sample	#: AB16823	✓ Algae?
SiteID: WMI-03-0005	Water Appearance	Clear	IDEM Sample	#: AB16823 Vater Depth	✓ Algae?
SiteID: WMI-03-0005 S Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16823 Vater Depth	✓ Algae?
SiteID: WMI-03-0005 S Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear	IDEM Sample V quatic Life?	#: AB16823 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0005 S Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear Acc Result 84.2 8.82	IDEM Sample quatic Life? % mg/L	#: AB16823 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0005 S Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result 84.2 8.82 7.83	IDEM Sample quatic Life? % mg/L SU	#: AB16823 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-03-0005 SWater Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result 84.2 8.82 7.83	IDEM Sample quatic Life? % mg/L	#: AB16823 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0005 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Acc Result 84.2 8.82 7.83	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16823 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0005 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 84.2 8.82 7.83 557 13.17	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16823 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0005 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 84.2 8.82 7.83 557 13.17 5.55	IDEM Sample Quatic Life? % mg/L SU umho/cm °C	#: AB16823 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0005 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 Result 84.2 8.82 7.83 557 13.17 5.55 3	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU	#: AB16823 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-03-0005 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 Result 84.2 8.82 7.83 557 13.17 5.55 3 2	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16823 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: WMI-03-0005 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 Result 84.2 8.82 7.83 557 13.17 5.55 3 2 27	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16823 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: WMI-03-0005 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 Wind Strength	Water Appearance	Clear Result 84.2 8.82 7.83 557 13.17 5.55 3 2 27	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16823 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
SiteID: WMI-03-0005 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	Clear Result 84.2 8.82 7.83 557 13.17 5.55 3 2 27 1 Result	IDEM Sample Quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16823 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

Thursday, July 30, 2015 Page 354 of 433

SiteID: WMI-03-0005	Sample Date: 05/14/2014	IDEM Sample #: AB16956	_
Nater Flow Type Run	Water Appearance Brown	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life? Canopy Closed	% 0-20%
Sampler Comments:			
Lab ID #	Result	Reporting Limit	<u>Method</u>
% Sat	83.2	%	ASTM D888-09(C)
DO	8.54	mg/L	ASTM D888-09(C)
pH (Field)	7.48	SU	EPA 150.2
Specific Conductance (Field)	473	umho/cm	SM2510B
Temperature	14.02	°C	SM2550B(2)
Turbidity (Hach)	141	NTU	EPA 180.1
Air Temp	4	Lookup	Observation
Sky Conditions		Lookup	Observation
Wind Direction		Lookup	Observation
Wind Strength		Lookup	Observation
Lab ID # 3027165	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	140	mg/L 1	SM2320B
Chloride	23	mg/L 6	EPA 300.0
Solids, Suspended Total, (TSS)	68	mg/L 10	SM2540D
Solids, Total (TS)	430	mg/L 10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L 10	SM2540C
Sulfate	27	mg/L 15	EPA 300.0
Lab ID # 3027166	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	230	mg/L 0.66	SM2340B
Calcium (Total)	65	mg/L 0.1	EPA 200.7
Magnesium (Total)	18	mg/L 0.1	EPA 200.7
Lab ID # 3027167	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.3	mg/L 0.1	SM4500NH3-D
Lab ID # 3027168	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	7.6	mg/L 0.1	EPA 353.2
Lab ID # 3027169	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.71	mg/L 0.05	SM4500P-E
Lab ID # 3027170	Result	Reporting Limit	<u>Method</u>
TOC	12	mg/L 0.5	SM5310C

Thursday, July 30, 2015 Page 355 of 433

Lab ID # AA17831		Result		Reporting Limit	<u>Method</u>
COD		47	mg/L	10	EPA 410.4
TKN		2.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16956a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		3448	MPN/100mL	10	SM9223B
SiteID: WMI-03-0005	Sample Date: 06/11/2014		IDEM Sample	#: AB17384	
Water Flow Type Run	Water Appearance	Murky	-	Vater 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		89.5	%		ASTM D888-09(C)
DO		8.4	mg/L		ASTM D888-09(C)
pH (Field)		7.85	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.59	°C		SM2550B(2)
Turbidity (Hach)		35.3	NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3042589		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		21	mg/L	5	EPA 300.0
Lab ID # 3042590		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		20	mg/L	0.1	EPA 200.7
Lab ID # 3042591		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042592		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		10	mg/L	1	EPA 353.2

Thursday, July 30, 2015 Page 356 of 433

	Result	Reporting Limit Method
	0.26 mg/L	0.05 SM4500P-E
	Result	Reporting Limit Method
	7.2 mg/L	0.5 SM5310C
	Result	Reporting Limit Method
	18 mg/L	10 EPA 410.4
	1.1 mg/L	0.3 SM4500N(Org)
	Result	Reporting Limit Method
	> 2419.6 MPN/1	00mL 2419.6 SM9223B
	272.3 MPN/1	00mL 1 SM9223B
ple Date: 07/09/20	Date: 07/09/2014 IDEM S	Sample #: AB17558
Water Appearan	Water Appearance Clear	Water Depth ✓ Algae?
☐ Flow Estimate	☐ Flow Estimated? ✓ Aquatic L	ife? Canopy Closed % 0-20%
	·	
	Result	Reporting Limit Method
	76.4 %	ASTM D888-09
	7.01 mg/L	ASTM D888-09
	8.05 SU	EPA 150.2
	624 umho/d	
	19.58 °C	SM2550B(2)
	12 NTU	EPA 180.1
	4 Lookup	
	1 Lookup	
	27 Lookup	
	0 Lookup	Observation Observation
	Result	Reporting Limit Method
	250 mg/L	1 SM2320B
	27 mg/L	2 EPA 300.0
	< 10 mg/L	10 SM2540D
	370 mg/L	10 SM2540B
	330 mg/L	10 SM2540C
	29 mg/L	5 EPA 300.0
	Result	Reporting Limit Method
		0.66 SM2340B
	310 mg/L	
	310 mg/L 79 mg/L	0.1 EPA 200.7
		310 mg/L

Thursday, July 30, 2015 Page 357 of 433

	Result		Reporting Limit	Method
	< 0.1	mg/L	0.1	SM4500NH3-D
	Result		Reporting Limit	<u>Method</u>
	3.8	mg/L	0.1	EPA 353.2
	<u>Result</u>		Reporting Limit	<u>Method</u>
	0.12	mg/L	0.05	SM4500P-E
	Result		Reporting Limit	Method
	5.1	mg/L	0.5	SM5310C
	Result		Reporting Limit	<u>Method</u>
	6	mg/L	10	EPA 410.4
		•	0.3	SM4500N(Org)-B
	Result		Reporting Limit	<u>Method</u>
	> 2419.6	MPN/100mL	2419.6	SM9223B
	488.4	MPN/100mL	1	SM9223B
Sample Date: 08/11/2014		IDEM Sample	#: AB18373	
Water Appearance	Murky	v	Vater Depth	✓ Algae?
	• ✓ Ac	quatic Life?	Canopy Closed %	0-20%
ai poois				
	Result		Reporting Limit	Method
	90	%		SM4500-OG
	7.2	mg/L		SM4500-OG
	8	SU		EPA 150.2
	528	umho/cm		SM2510B
	528 25.01	umho/cm		
	Water Appearance	Co.1 Result 3.8 Result 0.12 Result 5.1 Result 6 0.41 Result > 2419.6 488.4 Sample Date: 08/11/2014 Water Appearance Murky	Result 3.8 mg/L	Co.1 mg/L Co.1 Result Reporting Limit 3.8 mg/L Co.1 Result Reporting Limit 0.12 mg/L Co.05 Result Reporting Limit 5.1 mg/L Co.5 Result Reporting Limit 6 mg/L Co.3 Result Reporting Limit 6 mg/L Co.3 Result Reporting Limit 6 mg/L Co.3 7 mg/L Co.3 8 mg/L Co.5 10 mg/L Co.3 10 mg

Thursday, July 30, 2015 Page 358 of 433

5 Lookup

3 Lookup

27 Lookup

2 Lookup

Observation

Observation

Observation

Observation

Air Temp

Sky Conditions

Wind Direction

Wind Strength

SiteID: WMI-03-0005 **Sample Date**: 08/20/2014 **IDEM Sample #**: AB18746

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

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

Sampler Comments: Isolated Pool

Result		Reporting Limit	<u>Method</u>
43	%		ASTM D888-09(C)
3.93	mg/L		ASTM D888-09(C)
7.75	SU		EPA 150.2
583	umho/cm		SM2510B
19.7	°C		SM2550B(2)
24.7	NTU		EPA 180.1
4	Lookup		Observation
1	Lookup		Observation
27	Lookup		Observation
1	Lookup		Observation
Result		Reporting Limit	<u>Method</u>
210	mg/L	1	SM2320B
25	mg/L	10	EPA 300.0
19	mg/L	10	SM2540D
320	mg/L	10	SM2540B
290	mg/L	10	SM2540C
41	mg/L	25	EPA 300.0
Result		Reporting Limit	Method
240	mg/L	0.66	SM2340B
57	mg/L	0.1	EPA 200.7
25	mg/L	0.1	EPA 200.7
Result		Reporting Limit	<u>Method</u>
0.1	mg/L	0.1	SM4500NH3-D
Result		Reporting Limit	<u>Method</u>
< 0.1	mg/L	0.1	EPA 353.2
Result		Reporting Limit	Method
0.14	mg/L	0.05	SM4500P-E
<u>Result</u>		Reporting Limit	<u>Method</u>
	43 3.93 7.75 583 19.7 24.7 4 1 27 1 Result 210 25 19 320 290 41 Result 240 57 25 Result 0.1 Result 0.1 Result 0.14	43 % 3.93 mg/L 7.75 SU 583 umho/cm 19.7 °C 24.7 NTU 4 Lookup 1 Lookup 27 Lookup 1 Lookup 1 Lookup 28 mg/L 29 mg/L 320 mg/L 290 mg/L 41 mg/L Result 240 mg/L 57 mg/L 25 mg/L 25 mg/L 41 mg/L Result 240 mg/L 57 mg/L 25 mg/L 26 mg/L 27 mg/L 28 mg/L 49 mg/L 41 mg/L Result 240 mg/L 25 mg/L 26 mg/L 27 mg/L 28 mg/L 290 mg/L 290 mg/L 41 mg/L Result 240 mg/L 25 mg/L 26 mg/L 27 mg/L 28 mg/L 290 mg/L 290 mg/L 41 mg/L	43 % 3.93 mg/L 7.75 SU 583 umho/cm 19.7 °C 24.7 NTU 4 Lookup 1 Lookup 27 Lookup 1 Lookup 28 mg/L 19 mg/L 19 mg/L 10 320 mg/L 10 320 mg/L 10 41 mg/L 25 mg/L 10 42 mg/L 10 320 mg/L 10 320 mg/L 10 41 mg/L 25 mg/L 10 41 mg/L 26 Result Reporting Limit 240 mg/L 0.1 25 mg/L 0.1 Result Reporting Limit 0.1 mg/L 0.1 Result Reporting Limit 0.1 mg/L 0.1 Result Reporting Limit 0.1 mg/L 0.1 Result Reporting Limit

Thursday, July 30, 2015 Page 359 of 433

Lab ID # AA25812		Result		Reporting Limit	<u>Method</u>
COD		19	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18746		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		16.9	MPN/100mL	1	SM9223B
SiteID: WMI-03-0005	Sample Date: 09/17/2014		IDEM Sample	#: AB19061	
Vater Flow Type Run	Water Appearance	Clear	١	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		88.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		8.04	-		EPA 150.2
Specific Conductance (Field)		668	umho/cm		SM2510B
Temperature		12.18	°C		SM2550B(2)
Turbidity (Hach)		6.97	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		6	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # 3105644		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		260	mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		39	mg/L	25	EPA 300.0
Lab ID # 3105645		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		330	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3105646		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105647		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		2.8	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 360 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105648

Lab 1D # 3103046		Result		Reporting Limit	Wethou
Phosphorus, Total		0.14	mg/L	0.05	SM4500P-E
Lab ID # 3105649		Result		Reporting Limit	<u>Method</u>
TOC		7.2	mg/L	0.5	SM5310C
Lab ID # AA28060		Result		Reporting Limit	Method
COD		20	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19061		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		613.1	MPN/100mL	1	SM9223B
SiteID: WMI-03-0005	Sample Date: 10/29/2014		IDEM Sample	#: AB19244	
Nater Flow Type Riffle	Water Appearance	Clear	•	ater 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		71.8	%		ASTM D888-09(C)
DO		8.05	mg/L		ASTM D888-09(C)
pH (Field)		7.69	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		10.44			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
			1 1		
Air Temp			Lookup		Observation
Sky Conditions		1	Lookup		Observation
Sky Conditions Wind Direction		1 27	Lookup Lookup		Observation Observation
Sky Conditions		1 27	Lookup		Observation
Sky Conditions Wind Direction Wind Strength		1 27	Lookup Lookup	Reporting Limit	Observation Observation
Sky Conditions Wind Direction Wind Strength		1 27 1 Result	Lookup Lookup	Reporting Limit	Observation Observation Observation
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592		1 27 1 Result	Lookup Lookup Lookup		Observation Observation Observation Method
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride		1 27 1 Result 270 22	Lookup Lookup Lookup	1	Observation Observation Observation Method SM2320B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride		1 27 1 Result 270 22 < 10	Lookup Lookup Lookup mg/L mg/L	1 10	Observation Observation Observation Method SM2320B EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		1 27 1 Result 270 22 < 10 370	Lookup Lookup Lookup mg/L mg/L mg/L	1 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		1 27 1 Result 270 22 < 10 370 360	Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 10 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		1 27 1 Result 270 22 < 10 370 360	Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		1 27 1 Result 270 22 < 10 370 360 30 Result	Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 10 25	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130592 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130593		1 27 1 Result 270 22 < 10 370 360 30 Result 320	Lookup Lookup Mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 25 Reporting Limit	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 361 of 433

Lab ID # 3130594	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130595	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.3	mg/L	0.1	EPA 353.2
Lab ID # 3130596	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	< 0.05	mg/L	0.05	SM4500P-E
Lab ID # 3130597	Result		Reporting Limit	<u>Method</u>
TOC	5.9	mg/L	0.5	SM5310C
Lab ID # AA31635	Result		Reporting Limit	<u>Method</u>
COD	10	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19244	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	218.7	MPN/100mL	1	SM9223B

	Weather Code Definitions							
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				

Thursday, July 30, 2015 Page 362 of 433

 SiteID:
 WMI-03-0010
 USGS Hydrologic Unit:
 051201030302

 Stream Name:
 Little Joe Creek
 County:
 Blackford

Description: CR 300 S **Latitude:** 40 24 25.60028 **Longitude:** -85 23 35.97738

Drainage: 4.393 Site Number: 14T-135

SiteID: WMI-03-0010 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16190

Water Flow Type Glide 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	97.9	%		ASTM D888-09(C)
DO	13.05			ASTM D888-09(C)
pH (Field)	7.98	-		EPA 150.2
Specific Conductance (Field)	579	umho/cm		SM2510B
Temperature	3.34	°C		SM2550B(2)
Turbidity (Hach)	21.9	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3011109	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	230	mg/L	1	SM2320B
Chloride	25	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	14	mg/L	10	SM2540D
Solids, Total (TS)	360	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320	mg/L	10	SM2540C
Sulfate	21	mg/L	15	EPA 300.0
Lab ID # 3011110	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	76	mg/L	0.1	EPA 200.7
Magnesium (Total)	25	mg/L	0.1	EPA 200.7
Lab ID # 3011111	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011112	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.5	mg/L	0.1	EPA 353.2
Lab ID # 3011113	Result		Reporting Limit	Method
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 363 of 433

Lab ID # 3011114		Result		Reporting Limit	<u>Method</u>
TOC		4.8	mg/L	0.5	SM5310C
Lab ID # AA14526		Result		Reporting Limit	<u>Method</u>
COD		20	mg/L	10	EPA 410.4
TKN		0.78	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16190		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		235.9	MPN/100mL	1	SM9223B
SiteID: WMI-03-0010	Sample Date: 04/23/2014		IDEM Sample	#. AD16424	
SiteID: WMI-03-0010 Water Flow Type Run	Sample Date: 04/23/2014 Water Appearance	Clear	IDEM Sample	/ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	_
Sampler Comments:	_ How Estimated:	□ ∧	quatic Life:	Callopy Closed 76	0 2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		87.2	%		ASTM D888-09(C)
DO		10.24	mg/L		ASTM D888-09(C)
pH (Field)		7.94	SU		EPA 150.2
Specific Conductance (Field)		595	umho/cm		SM2510B
Temperature		8.2	°C		SM2550B(2)
Turbidity (Hach)		8.21	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16434		Result		Reporting Limit	Method
Coliforms (Total)		1413.6	MPN/100mL	1	SM9223B
E. coli		115.3	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 364 of 433

SiteID: WMI-03-0010	Sample Date: 04/30/2014		IDEM Sample	#: AB16506	
Nater Flow Type Riffle	Water Appearance	Murky	,	Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated	P □ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		90.4	%		ASTM D888-09(C)
DO		10.1	mg/L		ASTM D888-09(C)
pH (Field)		7.85	SU		EPA 150.2
Specific Conductance (Field)		572	umho/cm		SM2510B
Temperature		10.36	°C		SM2550B(2)
Turbidity (Hach)		26.1	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16506		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
, ,			MDNI/400mal	4	CMOOOD
E. coli SiteID: WMI-03-0010	Sample Date: 05/07/2014	222.4	MPN/100mL IDEM Sample	1 • #: AB16825	SM9223B
SiteID: WMI-03-0010	Sample Date: 05/07/2014 Water Appearance	222.4 Clear	IDEM Sample		✓ Algae?
SiteID: WMI-03-0010 Water Flow Type Riffle	•	Clear	IDEM Sample	#: AB16825	✓ Algae?
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16825 Water Depth	✓ Algae?
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16825 Water Depth	✓ Algae?
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Ac	IDEM Sample \ quatic Life?	#: AB16825 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0010 Vater Flow Type Riffle Vater Flow (cf/sec): Sampler Comments:	Water Appearance	Clear Ac Result	IDEM Sample \ quatic Life?	#: AB16825 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result	IDEM Sample quatic Life? % mg/L	#: AB16825 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-03-0010 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 90.2 9.71 7.63	IDEM Sample quatic Life? % mg/L	#: AB16825 Water Depth Canopy Closed %	ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0010 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 90.2 9.71 7.63	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16825 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 90.2 9.71 7.63 619 11.9	IDEM Sample quatic Life? % mg/L SU umho/cm	#: AB16825 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0010 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 90.2 9.71 7.63 619 11.9 7.25	IDEM Sample quatic Life? % mg/L SU umho/cm °C	#: AB16825 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0010 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 90.2 9.71 7.63 619 11.9 7.25 4	Market Sample Note of the Note	#: AB16825 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: WMI-03-0010 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 Appearance	Clear Result 90.2 9.71 7.63 619 11.9 7.25 4	IDEM Sample quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16825 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: WMI-03-0010 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 Appearance	Clear Result 90.2 9.71 7.63 619 11.9 7.25 4 2 27	Market Sample National Cookup Lookup IDEM Sample National Cookup NTU Lookup Lookup	#: AB16825 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: WMI-03-0010 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 Result 90.2 9.71 7.63 619 11.9 7.25 4 2 27	Market Ma	#: AB16825 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: WMI-03-0010 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	Clear Result 90.2 9.71 7.63 619 11.9 7.25 4 2 27 1 Result	Market Ma	#: AB16825 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

Thursday, July 30, 2015 Page 365 of 433

SiteID: WMI-03-0010	Sample Date: 05/14/2014		
Vater Flow Type Run	Water Appearance Brown	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life? Canopy Closed %	6 0-20%
Sampler Comments:			
Lab ID #	Result	Reporting Limit	<u>Method</u>
% Sat	82.1	%	ASTM D888-09(C)
DO	8.45	mg/L	ASTM D888-09(C)
pH (Field)	7.42	SU	EPA 150.2
Specific Conductance (Field)	472	umho/cm	SM2510B
Temperature	14.03	°C	SM2550B(2)
Turbidity (Hach)	131	NTU	EPA 180.1
Air Temp	4	Lookup	Observation
Sky Conditions		Lookup	Observation
Wind Direction		Lookup	Observation
Wind Strength		Lookup	Observation
Lab ID # 3027173	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	130	mg/L 1	SM2320B
Chloride	29	mg/L 6	EPA 300.0
Solids, Suspended Total, (TSS)	73	mg/L 10	SM2540D
Solids, Total (TS)	420	mg/L 10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L 10	SM2540C
Sulfate	16	mg/L 15	EPA 300.0
Lab ID # 3027174	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	210	mg/L 0.66	SM2340B
Calcium (Total)	56	mg/L 0.1	EPA 200.7
Magnesium (Total)	16	mg/L 0.1	EPA 200.7
Lab ID # 3027175	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.7	mg/L 0.1	SM4500NH3-D
Lab ID # 3027176	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	9.8	mg/L 0.1	EPA 353.2
Lab ID # 3027177	Result	Reporting Limit	<u>Method</u>
Phosphorus, Total	0.6	mg/L 0.05	SM4500P-E
Lab ID # 3027178	<u>Result</u>	Reporting Limit	<u>Method</u>
TOC	13	mg/L 0.5	SM5310C

Thursday, July 30, 2015 Page 366 of 433

Lab ID # AA17832		Result		Reporting Limit	<u>Method</u>
COD		38	mg/L	10	EPA 410.4
TKN		2.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16958a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		8664	MPN/100mL	10	SM9223B
SiteID: WMI-03-0010	Sample Date: 06/11/2014		IDEM Sample	#: AB17385	
Vater Flow Type Run	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		87	%		ASTM D888-09(C)
DO		8.44	mg/L		ASTM D888-09(C)
pH (Field)		7.74	SU		EPA 150.2
Specific Conductance (Field)		597	umho/cm		SM2510B
Temperature		16.7	°C		SM2550B(2)
Turbidity (Hach)		25.3	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		4	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3042597		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		220	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		16	mg/L	5	EPA 300.0
Lab ID # 3042598		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3042599		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042600		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 367 of 433

Lab ID # 3042601			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.2	mg/L	0.05	SM4500P-E
Lab ID # 3042602			Result		Reporting Limit	<u>Method</u>
TOC			6.1	mg/L	0.5	SM5310C
Lab ID # AA20565			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			14	mg/L	10	EPA 410.4
TKN			0.65	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17385			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			770.1	MPN/100mL	1	SM9223B
SiteID: WMI-03-0010	Sample Date:	07/09/2014		IDEM Sampl	e #: AB17559	
Water Flow Type Run	Water	Appearance	Murky		Water Depth	✓ Algae?
Nater Flow (cf/sec):	Flov	v Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		· Loumatou	_ / ~	,uadio 21101	cullopy cloccu /i	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			76.4	%		ASTM D888-09(C)
DO			7.13	mg/L		ASTM D888-09(C)
pH (Field)			7.88	SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			18.02			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 # 3060208			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			23	mg/L	5	EPA 300.0
Lab ID # 3060209			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			320	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			27	mg/L	0.1	EPA 200.7
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Thursday, July 30, 2015 Page 368 of 433

Lab ID # 3060210		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060211		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.1	mg/L	0.1	EPA 353.2
Lab ID # 3060212		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.2	mg/L	0.05	SM4500P-E
Lab ID # 3060213		Result		Reporting Limit	<u>Method</u>
TOC		5.4	mg/L	0.5	SM5310C
Lab ID # AA22949		Result		Reporting Limit	<u>Method</u>
COD		6	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17559		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		816.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0010	Sample Date:	08/11/2014	IDEM Sample	#. AD10272	
	•		IDEM Sample		
Water Flow Type Run	Water Ap	opearance Clear	W	ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow E	Estimated?	quatic Life?	Canopy Closed %	0-20%

Sampler Comments: Q6 TURB = 8.3

_ab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	73.2	%		SM4500-OG
DO	6.21	mg/L		SM4500-OG
pH (Field)	7.98	SU		EPA 150.2
Specific Conductance (Field)	603	umho/cm		SM2510B
Temperature	21.8	°C		SM2550B(2)
Turbidity (Hach)	11.8	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation

Thursday, July 30, 2015 Page 369 of 433

SiteID: WMI-03-0010 Sample Date: 08/20/2014 IDEM Sample #: AB18747 ✓ Algae? **Water Appearance Water Depth** Water Flow Type Glide Clear ☐ Flow Estimated? ☐ Aquatic Life? Water Flow (cf/sec): Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 58.4 % DO ASTM D888-09(C) 5.51 mg/L pH (Field) 7.72 SU EPA 150.2 Specific Conductance (Field) 632 umho/cm SM2510B Temperature 18.57 °C SM2550B(2) Turbidity (Hach) 9.93 NTU EPA 180.1 Air Temp 4 Lookup Observation Sky Conditions Observation 1 Lookup Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID # 3087270 **Reporting Limit** Result **Method** Alkalinity (as CaCO3) 260 mg/L 1 SM2320B 21 mg/L 10 EPA 300.0 Chloride Solids, Suspended Total, (TSS) 12 mg/L 10 SM2540D Solids, Total (TS) 360 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 340 mg/L 10 SM2540C Sulfate 34 mg/L EPA 300.0 25 Lab ID # 3087271 Result **Reporting Limit Method** Hardness (as CaCO3) 290 mg/L 0.66 SM2340B 78 mg/L EPA 200.7 Calcium (Total) 0.1 Magnesium (Total) 25 mg/L EPA 200.7 0.1 Lab ID # 3087272 Result **Reporting Limit Method** < 0.1 mg/L 0.1 SM4500NH3-D Nitrogen, Ammonia Lab ID # 3087273 Result **Reporting Limit Method** EPA 353.2 Nitrogen, Nitrate+Nitrite < 0.1 mg/L 0.1 Lab ID # 3087274 Result **Reporting Limit Method** Phosphorus, Total 0.09 mg/L 0.05 SM4500P-E Lab ID # 3087275 Result **Reporting Limit Method** TOC 0.5 SM5310C 10 mg/L

Thursday, July 30, 2015 Page 370 of 433

Lab ID # AA25813		Result		Reporting Limit	Method
COD		30	mg/L	10	EPA 410.4
TKN		0.8	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18747		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		387.3	MPN/100mL	1	SM9223B
SiteID: WMI-03-0010	Sample Date: 09/17/2014		IDEM Sample	#: AB19062	
Vater Flow Type Riffle	Water Appearance	Clear	W	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		80	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.81	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		11.28			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 # 3105652		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS) Sulfate			mg/L mg/L	10 25	SM2540C EPA 300.0
Sullate		30	mg/L	20	EPA 300.0
Lab ID # 3105655		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		28	mg/L	0.1	EPA 200.7
Lab ID # 3105656		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105659		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.7	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 371 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105662

Lab 1D # 3103002		Result			Metriou
Phosphorus, Total		0.16	mg/L	0.05	SM4500P-E
Lab ID # 3105665		Result		Reporting Limit	Method
TOC		5.7	mg/L	0.5	SM5310C
Lab ID # AA28061		Result		Reporting Limit	Method
COD		16	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19062		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		547.5	MPN/100mL	1	SM9223B
SiteID: WMI-03-0010	Sample Date: 10/29/2014		IDEM Sample	#: AB19245	
Nater Flow Type Riffle	Water Appearance	Clear	•	/ater 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		71.8	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.73			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		9.63	°C		SM2550B(2)
					, ,
Turbidity (Hach)		4.66	NTU		EPA 180.1
Turbidity (Hach) Air Temp		4.66 3	Lookup		EPA 180.1 Observation
Turbidity (Hach) Air Temp Sky Conditions		4.66 3 1	Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction		4.66 3 1 27	Lookup Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions		4.66 3 1 27	Lookup Lookup		EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.66 3 1 27	Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.66 3 1 27 2 Result	Lookup Lookup Lookup	Reporting Limit	EPA 180.1 Observation Observation Observation
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		4.66 3 1 27 2 Result	Lookup Lookup Lookup Lookup		EPA 180.1 Observation Observation Observation Observation Method
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride		4.66 3 1 27 2 Result 300 36	Lookup Lookup Lookup Mg/L	1	EPA 180.1 Observation Observation Observation Observation Method SM2320B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride		4.66 3 1 27 2 Result 300 36 < 10	Lookup Lookup Lookup Mg/L mg/L	1 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		4.66 3 1 27 2 Result 300 36 < 10 400	Lookup Lookup Lookup Mg/L mg/L mg/L	1 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		4.66 3 1 27 2 Result 300 36 < 10 400 400	Lookup Lookup Lookup Mg/L mg/L mg/L mg/L	1 10 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		4.66 3 1 27 2 Result 300 36 < 10 400 400	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TSS)		4.66 3 1 27 2 Result 300 36 < 10 400 400 22 Result	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 10 5	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3130600 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130601		4.66 3 1 27 2 Result 300 36 <10 400 400 22 Result 350	Lookup Lookup Lookup Mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 5 Reporting Limit	EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 372 of 433

Lab ID # 3130602	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130603	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3130604	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
Lab ID # 3130605	Result		Reporting Limit	<u>Method</u>
TOC	5.5	mg/L	0.5	SM5310C
Lab ID # AA31636	Result		Reporting Limit	<u>Method</u>
COD	7	mg/L	10	EPA 410.4
TKN		mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19245	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	261.3	MPN/100mL	1	SM9223B

	Weather Code Definitions						
S	С		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			

Thursday, July 30, 2015 Page 373 of 433

 SiteID:
 WMI-03-0006
 USGS Hydrologic Unit:
 051201030302

 Stream Name:
 Big Lick Creek
 County:
 Blackford

Description: CR 100 W **Latitude:** 40 25 47.28229 **Longitude:** -85 23 20.95801

Drainage: 52.302 Site Number: 14T-136

SiteID: WMI-03-0006 **Sample Date:** 04/16/2014 **IDEM Sample #**: AB16191

Water Flow Type Glide Water Appearance Murky Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life? Canopy Closed % 0-20%

Sampler Comments: FLOW - 33.3414 cfs

Lab ID #	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	92.4	%		ASTM D888-09(C)
DO	11.8	mg/L		ASTM D888-09(C)
pH (Field)	7.89	SU		EPA 150.2
Specific Conductance (Field)	685	umho/cm		SM2510B
Temperature	4.91	°C		SM2550B(2)
Turbidity (Hach)	23.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Flow	33.3414	cf/sec		ΓM D5389-95/D3858
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3011117	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	220	mg/L	1	SM2320B
Chloride	47	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	13	mg/L	10	SM2540D
Solids, Total (TS)	450	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400	mg/L	10	SM2540C
Sulfate	50	mg/L	15	EPA 300.0
Lab ID # 3011118	Result		Reporting Limit	Method
Hardness (as CaCO3)	290	mg/L	0.66	SM2340B
Calcium (Total)	77	mg/L	0.1	EPA 200.7
Magnesium (Total)	24	mg/L	0.1	EPA 200.7
Lab ID # 3011119	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011120	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	2.1	mg/L	0.1	EPA 353.2
Lab ID # 3011121	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.23	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 374 of 433

Lab ID # 3011122		Result		Reporting Limit	<u>Method</u>
TOC		6.8	mg/L	0.5	SM5310C
Lab ID # AA14527		Result		Reporting Limit	<u>Method</u>
COD		25	mg/L	10	EPA 410.4
TKN		1.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16191		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		416	MPN/100mL	1	SM9223B
OVID WIMI 02 0000	04/02/044		IDEM Commit	# ADACA05	
SiteID: WMI-03-0006 Water Flow Type Glide	Sample Date: 04/23/2014	Clear	IDEM Sample	#: AB16435 /ater Depth	✓ Algae?
21.	Water Appearance	Clear	V	•	_
Water Flow (cf/sec):	☐ Flow Estimated?	?	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		90	%		ASTM D888-09(C)
DO		10.24	mg/L		ASTM D888-09(C)
pH (Field)		7.91	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		9.61			SM2550B(2)
Turbidity (Hach)		8.9	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16435		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1553.1	MPN/100mL	1	SM9223B
E. coli		209.8	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 375 of 433

SiteID: WMI-03-0006	Sample Date: 04/30/2014		IDEM Sample	#: AB16507	
Water Flow Type Run	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.1	%		ASTM D888-09(C)
DO		8.7	mg/L		ASTM D888-09(C)
pH (Field)		7.71	SU		EPA 150.2
Specific Conductance (Field)		548	umho/cm		SM2510B
Temperature		12.08	°C		SM2550B(2)
Turbidity (Hach)		65.4	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16507a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
` '					01400000
E. coli SiteID: WMI-03-0006	Sample Date: 05/07/2014	6131	MPN/100mL IDEM Sample	#: AB16826	SM9223B
SiteID: WMI-03-0006	Sample Date: 05/07/2014 Water Appearance	6131 Clear	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-03-0006 Water Flow Type Glide	•	Clear	IDEM Sample	#: AB16826	✓ Algae?
SiteID: WMI-03-0006	Water Appearance	Clear	IDEM Sample	#: AB16826 Vater Depth	✓ Algae?
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16826 Vater Depth	✓ Algae?
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample V quatic Life?	#: AB16826 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample V Juatic Life?	#: AB16826 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result 88 9.37 7.64	IDEM Sample Juatic Life?	#: AB16826 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 88 9.37 7.64 861	IDEM Sample Juatic Life?	#: AB16826 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Ac Result 88 9.37 7.64	IDEM Sample Juatic Life?	#: AB16826 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 88 9.37 7.64 861 12.43	IDEM Sample Juatic Life?	#: AB16826 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0006 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 88 9.37 7.64 861 12.43 7.34	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16826 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0006 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 88 9.37 7.64 861 12.43 7.34 4	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16826 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI-03-0006 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 88 9.37 7.64 861 12.43 7.34 4	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16826 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: WMI-03-0006 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 88 9.37 7.64 861 12.43 7.34 4 2 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16826 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: WMI-03-0006 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 88 9.37 7.64 861 12.43 7.34 4 2 27	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16826 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
SiteID: WMI-03-0006 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 88 9.37 7.64 861 12.43 7.34 4 2 27 1 Result	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16826 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

Thursday, July 30, 2015 Page 376 of 433

SiteID: WMI-03-0006	Sample Date: 05/14/2014	IDEM Sample #: AB16959	
Vater Flow Type Run	Water Appearance Brown	Water Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated? ☐ A	quatic Life? Canopy Closed %	6 0-20%
Sampler Comments:			
Lab ID #	Result	Reporting Limit	<u>Method</u>
% Sat	73.7	%	ASTM D888-09(C)
DO	7.34	mg/L	ASTM D888-09(C)
pH (Field)	7.31	SU	EPA 150.2
Specific Conductance (Field)	440	umho/cm	SM2510B
Temperature	15.5	°C	SM2550B(2)
Turbidity (Hach)	251	NTU	EPA 180.1
Air Temp		Lookup	Observation
Sky Conditions		Lookup	Observation
Wind Direction		Lookup	Observation
Wind Strength		Lookup	Observation
Lab ID # 3027181	Result	Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	110	mg/L 1	SM2320B
Chloride	32	mg/L 6	EPA 300.0
Solids, Suspended Total, (TSS)	160	mg/L 10	SM2540D
Solids, Total (TS)	460	mg/L 10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L 10	SM2540C
Sulfate	29	mg/L 15	EPA 300.0
Lab ID # 3027182	Result	Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	190	mg/L 0.66	SM2340B
Calcium (Total)	51	mg/L 0.1	EPA 200.7
Magnesium (Total)	15	mg/L 0.1	EPA 200.7
Lab ID # 3027183	Result	Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.7	mg/L 0.1	SM4500NH3-D
Lab ID # 3027184	Result	Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	6.9	mg/L 0.1	EPA 353.2
Lab ID # 3027185	Result	Reporting Limit	Method
Phosphorus, Total	0.98	mg/L 0.05	SM4500P-E
Lab ID # 3027186	<u>Result</u>	Reporting Limit	<u>Method</u>
TOC		mg/L 0.5	SM5310C

Thursday, July 30, 2015 Page 377 of 433

Lab ID # AA17833		<u>Result</u>		Reporting Limit	<u>Method</u>
COD			mg/L	10	EPA 410.4
TKN		3.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16959a		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			MPN/100mL	24196	SM9223B
E. coli		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-03-0006	Sample Date: 06/11/2014		IDEM Sample	#: AB17386	
Water Flow Type Run	Water Appearance	Murky	w	ater Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		80.8			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.6	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.1	°C		SM2550B(2)
Turbidity (Hach)		_	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Flow		51.154			ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042605		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		38	mg/L	5	EPA 300.0
Lab ID # 3042606		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		19	mg/L	0.1	EPA 200.7
Lab ID # 3042607		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 378 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3042608

Nitrogen, Nitrate+Nitrite		5.1	mg/L	0.1	EPA 353.2
Lab ID # 3042609		Result		Reporting Limit	Method
Phosphorus, Total		0.39	mg/L	0.05	SM4500P-E
Lab ID # 3042610		Result		Reporting Limit	Method
TOC		8.1	mg/L	0.5	SM5310C
Lab ID # AA20566		Result		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17386a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		7701	MPN/100mL	10	SM9223B
SiteID: WMI-03-0006	Sample Date: 07/09/2014		IDFM Sample:	#• AB17560	
SiteID: WMI-03-0006 Nater Flow Type Run	Sample Date: 07/09/2014 Water Appearance	Murky	IDEM Sample	#: AB17560 /ater Depth	✓ Algae?
Nater Flow Type Run	Water Appearance	_	W	/ater Depth	-
	•	_	-		-
Nater Flow Type Run Nater Flow (cf/sec):	Water Appearance	_	W	/ater Depth	-
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	Wiguatic Life?	Vater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments:	Water Appearance	Result	watic Life?	Vater 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 Appearance	Result	yuatic Life? % mg/L	Vater Depth Canopy Closed %	0-20%
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Result 71.9 6.57 7.79	yuatic Life? % mg/L	Vater 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 71.9 6.57 7.79	% mg/L SU umho/cm	Vater 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 71.9 6.57 7.79 718 19.7	% mg/L SU umho/cm	Vater 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 Turbidity (Hach)	Water Appearance	71.9 6.57 7.79 718 19.7 26	% 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
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	71.9 6.57 7.79 718 19.7 26	% 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
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	71.9 6.57 7.79 718 19.7 26 4 13.6685	% mg/L SU umho/cm °C NTU Lookup cf/sec	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
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1	% mg/L SU umho/cm °C NTU Lookup	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation IM D5389-95/D3858 Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓΜ D5389-95/D3858
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 ΓΜ D5389-95/D3858 Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength	Water Appearance	71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27 2	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 FM D5389-95/D3858 Observation Observation Observation
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060216	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060216 Alkalinity (as CaCO3)	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27 2 Result 180 78	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Vater 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 FM D5389-95/D3858 Observation Observation Observation Observation SM2320B
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060216 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27 2 Result 180 78 14	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Canopy Closed % Reporting Limit Reporting Limit 1 20	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation TM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3060216 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	71.9 6.57 7.79 718 19.7 26 4 13.6685 1 27 2 Result 180 78 14 450	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 20 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 379 of 433

Lab ID # 3060219		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		230	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3060220		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060223		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		2	mg/L	0.1	EPA 353.2
Lab ID # 3060226		Result		Reporting Limit	Method
Phosphorus, Total		0.3	mg/L	0.1	SM4500P-E
Lab ID # 3060229		Result		Reporting Limit	<u>Method</u>
TOC		6.6	mg/L	0.5	SM5310C
Lab ID # AA22950		Result		Reporting Limit	<u>Method</u>
COD		20	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17560		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			MPN/100mL	1	SM9223B
SiteID: WMI-03-0006	Sample Date: 08/11/2014		IDEM Sample #	#: AB18371	
Water Flow Type Run	Water Appearance	Clear	•	ater Depth	✓ Algae?

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

Sampler Comments: Q6 Turb = 2.3 NTU

ab ID #	Result	Reporting Limit	Method
% Sat	88.1 %	-	SM4500-OG
DO	7.33 mg/L	-	SM4500-OG
pH (Field)	7.98 SU		EPA 150.2
Specific Conductance (Field)	1720 umh	o/cm	SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	6.6 NTU		EPA 180.1
Air Temp	4 Look	:up	Observation
Sky Conditions	4 Look	up	Observation
Wind Direction	27 Look	:up	Observation
Wind Strength	1 Look	cup	Observation

Thursday, July 30, 2015 Page 380 of 433

SiteID: WMI-03-0006 **Sample Date**: 08/20/2014 **IDEM Sample #**: AB18748

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	71.5	%		ASTM D888-09(C)
DO	6.42	mg/L		ASTM D888-09(C)
pH (Field)	7.78	SU		EPA 150.2
Specific Conductance (Field)	1760	umho/cm		SM2510B
Temperature	20.3	°C		SM2550B(2)
Turbidity (Hach)	2.75	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Flow	2.5033	cf/sec		ΓM D5089-95/D3858
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
.ab ID # 3087278	Result		Reporting Limit	Method
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride		mg/L	20	EPA 300.0
Solids, Suspended Total, (TSS)		mg/L	10	SM2540D
Solids, Total (TS)	1000	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	970	mg/L	10	SM2540C
Sulfate	170	mg/L	25	EPA 300.0
Lab ID # 3087279	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	380	mg/L	0.66	SM2340B
Calcium (Total)	86	mg/L	0.1	EPA 200.7
Magnesium (Total)	39	mg/L	0.1	EPA 200.7
Lab ID # 3087280	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087281	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	4.5	mg/L	0.1	EPA 353.2
_ab ID # 3087282	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.7	mg/L	0.05	SM4500P-E
Lab ID # 3087283	Result		Reporting Limit	<u>Method</u>
TOC	9.6	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 381 of 433

Lab ID # AA25814		Result		Reporting Limit	<u>Method</u>
COD		32	mg/L	10	EPA 410.4
TKN		1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18748		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		135.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0006	Sample Date: 09/17/2014		IDEM Sample	#: AB19063	
Water Flow Type Glide	Water Appearance	Clear	W	later Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		98.2	%		ASTM D888-09(C)
DO		10.25	mg/L		ASTM D888-09(C)
pH (Field)		7.7	SU		EPA 150.2
Specific Conductance (Field)		855	umho/cm		SM2510B
Temperature		13.32	°C		SM2550B(2)
Turbidity (Hach)		8.46	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Flow		12.0203	cf/sec		ГМ D5389-95/D3858
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3105674		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		63	mg/L	25	EPA 300.0
Lab ID # 3105675		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		77	mg/L	0.1	EPA 200.7
Magnesium (Total)		24	mg/L	0.1	EPA 200.7
Lab ID # 3105676		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D

Thursday, July 30, 2015 Page 382 of 433

Lab ID # 3105677		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.6	mg/L	0.1	EPA 353.2
Lab ID # 3105678		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.27	mg/L	0.05	SM4500P-E
Lab ID # 3105679		Result		Reporting Limit	<u>Method</u>
TOC		9.2	mg/L	0.5	SM5310C
Lab ID # AA28062		Result		Reporting Limit	<u>Method</u>
COD		27	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19063		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		461.1	MPN/100mL	1	SM9223B
SiteID: WMI-03-0006 Water Flow Type Run Water Flow (cf/sec):	Sample Date: 10/29/2014 Water Appearance Flow Estimated?	Murky	IDEM Sample : W quatic Life?	#: AB19246 /ater Depth Canopy Closed %	✓ Algae?
Water Flow Type Run	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	Wquatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result	Wquatic Life?	ater Depth Canopy Closed %	0-20%
Vater Flow Type Run Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Result 70.6 7.87	Wiguatic 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 70.6 7.87 7.7	watic Life? % 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: Lab ID #	Water Appearance	Result 70.6 7.87 7.7 996 10.42	% 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: Lab ID #	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43	% 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: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	70.6 7.87 7.7 996 10.42 5.43	% 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
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow	Water Appearance	70.6 7.87 7.7 996 10.42 5.43 3 17.1279	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓΜ D5389-95/D3858
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup	ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓΜ D5389-95/D3858 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 Flow Sky Conditions Wind Direction	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1	watic Life? % mg/L SU umho/cm °C NTU Lookup cf/sec	ater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation ΓΜ D5389-95/D3858 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 Flow Sky Conditions	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2	% mg/L SU umho/cm °C NTU Lookup cf/sec 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 ΓΜ D5389-95/D3858 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 Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130608	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Tater Depth Canopy Closed % Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation Method
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130608 Alkalinity (as CaCO3)	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Tater Depth Canopy Closed % Reporting Limit Reporting Limit	Method ASTM D888-09(C) ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation Method SM2320B
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130608 Alkalinity (as CaCO3) Chloride	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result 280 96	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit Reporting Limit 1 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Method SM2320B EPA 300.0
Nater Flow Type Run Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130608 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result 280 96 <10	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation SM2320B EPA 300.0 SM2540D
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result 280 96 < 10 580	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup Lookup	Reporting Limit 1 10 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Wethod SM2320B EPA 300.0 SM2540D SM2540B
Water Flow Type Run Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Flow Sky Conditions Wind Direction Wind Strength Lab ID # 3130608 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)	Water Appearance	Result 70.6 7.87 7.7 996 10.42 5.43 3 17.1279 1 27 2 Result 280 96 <10 580 560	% mg/L SU umho/cm °C NTU Lookup cf/sec Lookup Lookup Lookup	Reporting Limit 1 10 10	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation FM D5389-95/D3858 Observation Observation Observation Observation SM2320B EPA 300.0 SM2540D

Thursday, July 30, 2015 Page 383 of 433

Lab ID # 3130609		Result		Reporting Limit	Method
Hardness (as CaCO3)		360	mg/L	0.66	SM2340B
Calcium (Total)		92	mg/L	0.1	EPA 200.7
Magnesium (Total)		31	mg/L	0.1	EPA 200.7
Lab ID # 3130610		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3130611		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.8	mg/L	0.1	EPA 353.2
Lab ID # 3130612		<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.17	mg/L	0.05	SM4500P-E
Lab ID # 3130613		Result		Reporting Limit	<u>Method</u>
TOC		8.3	mg/L	0.5	SM5310C
Lab ID # AA31637		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		19	mg/L	10	EPA 410.4
TKN		1.2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19246		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		816.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0006	Sample Date: 11/19/2014		IDEM Sample :	#: AB19603	
Water Flow Type Glide	Water Appearance	Murky	_	ater 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		101.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.88			EPA 150.2
Specific Conductance (Field)		1385	umho/cm		SM2510B

Thursday, July 30, 2015 Page 384 of 433

2.91 °C

16.1 NTU

7.0351 cf/sec

1 Lookup

4 Lookup

18 Lookup

3 Lookup

SM2550B(2)

EPA 180.1

Observation

TM D5389-95/D3858

Observation

Observation

Observation

Temperature

Air Temp

Flow

Turbidity (Hach)

Sky Conditions

Wind Direction

Wind Strength

Lab ID # 3142793	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	370	mg/L	1	SM2320B
Chloride	140	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	17	mg/L	10	SM2540D
Solids, Total (TS)	830	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	810	mg/L	10	SM2540C
Sulfate	110	mg/L	25	EPA 300.0
Lab ID # 3142796	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	450	mg/L	0.66	SM2340B
Calcium (Total)	120	mg/L	0.1	EPA 200.7
Magnesium (Total)	38	mg/L	0.1	EPA 200.7
Lab ID # 3142797	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.5	mg/L	0.1	SM4500NH3-D
Lab ID # 3142800	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.1	mg/L	0.1	EPA 353.2
Lab ID # 3142803	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.15	mg/L	0.05	SM4500P-E
Lab ID # 3142806	<u>Result</u>		Reporting Limit	<u>Method</u>
TOC	16	mg/L	0.5	SM5310C
Lab ID # 50107929006	<u>Result</u>		Reporting Limit	<u>Method</u>
COD	55.7	mg/L	10	EPA 410.4
TKN	1.9	mg/L	0.5	EPA 351.2
Lab ID # AB19603	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6	MPN/100mL	2419.6	SM9223B

Thursday, July 30, 2015 Page 385 of 433

SiteID: WMI-03-0006	Sample Date: 12/15/2014		IDEM Samp	ole #: AB19852	
Nater Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		89.7	%		ASTM D888-09(C)
DO		10.99	-		ASTM D888-09(C)
pH (Field)		8.02	SU		EPA 150.2
Specific Conductance (Field)		810	umho/cm		SM2510B
Temperature		6.52	°C		SM2550B(2)
Turbidity (Hach)		17.1	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		17.4106	cf/sec		TM D5389-95/D3858
Sky Conditions		4	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # 3156175		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		280	mg/L	1	SM2320B
Chloride		55	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate			mg/L	25	EPA 300.0
Lab ID # 3156176		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		340	mg/L	0.66	SM2340B
Calcium (Total)		93	mg/L	0.1	EPA 200.7
Magnesium (Total)			mg/L	0.1	EPA 200.7
Lab ID # 3156177		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.6	mg/L	0.1	SM4500NH3-D
Lab ID # 3156178		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1	mg/L	0.1	EPA 353.2
Lab ID # 3156179		Result		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.27	mg/L	0.05	SM4500P-E
Lab ID # 3156180		Result		Reporting Limit	<u>Method</u>
TOC		9.8	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 386 of 433

Lab ID # 50109606007		Result		Reporting Limit	Method
COD TKN			mg/L mg/L	10 0.5	EPA 410.4 EPA 351.2
TIM		1.5		0.3	LI A 331.2
SiteID: WMI-03-0006	Sample Date: 01/20/2015		IDEM Sampl	le #: AB20323	
Nater Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		87.4	%		ASTM D888-09(C)
DO		12.46	-		ASTM D888-09(C)
pH (Field)		7.59			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		0.93			SM2550B(2)
Turbidity (Hach)		53.3	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Flow		64.9317	cf/sec		ГМ D5389-95/D3858
Sky Conditions		3	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3173806		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		130	mg/L	1	SM2320B
Chloride		29	mg/L	4	EPA 300.0
Solids, Suspended Total, (TSS)		14	mg/L	10	SM2540D
Solids, Total (TS)		260	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		220	mg/L	10	SM2540C
Sulfate		24	mg/L	10	EPA 300.0
Lab ID # 3173809		<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		160	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		13	mg/L	0.1	EPA 200.7
Lab ID # 3173810		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	_	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3173813		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.7	mg/L	0.1	EPA 353.2
Lab ID # 3173816		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 387 of 433

Lab ID # 3173819			Result		Reporting Limit	<u>Method</u>
TOC			8.6	mg/L	0.5	SM5310C
Lab ID # 50111361008			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			26.9	mg/L	10	EPA 410.4
TKN			0.93	mg/L	0.5	EPA 351.2
SiteID: WMI-03-0006	Sample Date:	03/17/2015		IDEM Samp	le #: AB20796	
Water Flow Type Glide	Water	Appearance	Murky		Water Depth	☐ Algae?
Nater Flow (cf/sec):	Flow	v Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:				,	ошнору оносош /о	
Lab ID#			Result		Reporting Limit	<u>Method</u>
% Sat			83.9	%		ASTM D888-09(C)
DO			10.44	mg/L		ASTM D888-09(C)
pH (Field)			7.72	SU		EPA 150.2
Specific Conductance (Field)			566	umho/cm		SM2510B
Temperature			5.89	°C		SM2550B(2)
Turbidity (Hach)			44.8	NTU		EPA 180.1
Air Temp			2	Lookup		Observation
Flow			79.6114	cf/sec		ΓM D5389-95/D3858
Sky Conditions			3	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength				Lookup		Observation
Lab ID # 3208966			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)			180	mg/L	1	SM2320B
Chloride			44	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)			52	mg/L	10	SM2540D
Solids, Total (TS)			380	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			320	mg/L	10	SM2540C
Sulfate			38	mg/L	15	EPA 300.0
Lab ID # 3208967			Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)				mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			19	mg/L	0.1	EPA 200.7
Lab ID # 3208968			Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia			0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3208969			Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite			1.7	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 388 of 433

Result	Reporting Limit	<u>Method</u>
0.7 mg/L	0.25	SM4500P-E
Result	Reporting Limit	<u>Method</u>
9.9 mg/L	0.5	SM5310C
Result	Reporting Limit	<u>Method</u>
23 mg/L	10	EPA 410.4
2.1 mg/L	0.5	EPA 351.2
	0.7 mg/L Result 9.9 mg/L Result 23 mg/L	Result Reporting Limit 9.9 mg/L 0.5 Result Reporting Limit 23 mg/L 10

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

Thursday, July 30, 2015 Page 389 of 433

SiteID: WMI-03-0007 USGS Hydrologic Unit: 051201030302
Stream Name: Moore Prong County: Blackford

Description: CR 100 W **Latitude:** 40 26 30.45634 **Longitude:** -85 23 21.03347

Drainage: 5.167 Site Number: 14T-137

SiteID: WMI-03-0007 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16192

Water Flow Type Riffle Water Appearance Murky 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	102.8	%		ASTM D888-09(C)
DO	13.45	mg/L		ASTM D888-09(C)
pH (Field)	8.18	SU		EPA 150.2
Specific Conductance (Field)	572	umho/cm		SM2510B
Temperature	3.97	°C		SM2550B(2)
Turbidity (Hach)	12.4	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3011125	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	210	mg/L	1	SM2320B
Chloride	31	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	350	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330	mg/L	10	SM2540C
Sulfate	31	mg/L	15	EPA 300.0
Lab ID # 3011126	<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	270	mg/L	0.66	SM2340B
Calcium (Total)	72	mg/L	0.1	EPA 200.7
Magnesium (Total)	22	mg/L	0.1	EPA 200.7
Lab ID # 3011127	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011128	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.2	mg/L	0.1	EPA 353.2
Lab ID # 3011129	Result		Reporting Limit	Method
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 390 of 433

Lab ID # 3011130		Result		Reporting Limit	<u>Method</u>
TOC		4	mg/L	0.5	SM5310C
Lab ID # AA14528		Result		Reporting Limit	<u>Method</u>
COD		15	mg/L	10	EPA 410.4
TKN		0.59	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16192		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		206.4	MPN/100mL	1	SM9223B
6:4-ID- WMI 02 0007	Campula Datas 04/22/2014		IDEM Commis	#- AD46426	
SiteID: WMI-03-0007 Water Flow Type Glide	Sample Date: 04/23/2014 Water Appearance		IDEM Sample	#: AB16436 Vater Depth	✓ Algae?
				·	_
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	? L AC	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		81.8	%		ASTM D888-09(C)
DO		10.68	mg/L		ASTM D888-09(C)
pH (Field)		8.08	SU		EPA 150.2
Specific Conductance (Field)		670	umho/cm		SM2510B
Temperature		7.69	°C		SM2550B(2)
Turbidity (Hach)		7.14	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16436		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		290.9	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 391 of 433

SiteID: WMI-03-0007	Sample Date: 04/30/2014		IDEM Sample	#: AB16508	
Nater Flow Type Run	Water Appearance	Murky	1	Water Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	☐ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID#		Result		Reporting Limit	<u>Method</u>
% Sat		95.3	%		ASTM D888-09(C)
DO		10.62	mg/L		ASTM D888-09(C)
pH (Field)		7.93	SU		EPA 150.2
Specific Conductance (Field)		594	umho/cm		SM2510B
Temperature		10.48	°C		SM2550B(2)
Turbidity (Hach)		15.3	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16508		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
		F70.4	MPN/100mL	4	SM9223B
E. coli SiteID: WMI-03-0007	Sample Date: 05/07/2014	579.4	IDEM Sample	1 #: AB16827	GWIJZZJD
SiteID: WMI-03-0007	Sample Date: 05/07/2014 Water Appearance	Clear	IDEM Sample		✓ Algae?
SiteID: WMI-03-0007 Water Flow Type Riffle	•	Clear	IDEM Sample	#: AB16827	✓ Algae?
SiteID: WMI-03-0007	Water Appearance	Clear	IDEM Sample	#: AB16827 Water Depth	✓ Algae?
SiteID: WMI-03-0007 Water Flow Type Riffle Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16827 Water Depth	✓ Algae?
SiteID: WMI-03-0007 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments:	Water Appearance	Clear ✓ Ac	IDEM Sample \ uatic Life?	#: AB16827 Water Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI-03-0007 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result 88.1	IDEM Sample \ uatic Life?	#: AB16827 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac Result 88.1	IDEM Sample \text{\quatic Life?} % mg/L	#: AB16827 Water Depth Canopy Closed %	ASTM D888-09(C)
SiteID: WMI-03-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Result 88.1 9.48 7.83	IDEM Sample \text{\quatic Life?} % mg/L	#: AB16827 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Result 88.1 9.48 7.83	IDEM Sample Juatic Life?	#: AB16827 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI-03-0007 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 88.1 9.48 7.83 680 11.96	IDEM Sample Juatic Life?	#: AB16827 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0007 Water Flow Type Riffle Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 88.1 9.48 7.83 680 11.96 6.3	IDEM Sample Juatic Life? % mg/L SU umho/cm °C	#: AB16827 Water Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0007 Nater Flow Type Riffle Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Clear Result 88.1 9.48 7.83 680 11.96 6.3 4	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU	#: AB16827 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: WMI-03-0007 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 Appearance	Clear Result 88.1 9.48 7.83 680 11.96 6.3 4	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16827 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: WMI-03-0007 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 Appearance	Clear Result 88.1 9.48 7.83 680 11.96 6.3 4 2 27	IDEM Sample Juatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16827 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: WMI-03-0007 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 Wind Strength	Water Appearance	Clear Result 88.1 9.48 7.83 680 11.96 6.3 4 2 27	"C NTU Lookup Lookup Lookup	#: AB16827 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: WMI-03-0007 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	Clear Result 88.1 9.48 7.83 680 11.96 6.3 4 2 27 1 Result	"C NTU Lookup Lookup Lookup	#: AB16827 Nater 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

Thursday, July 30, 2015 Page 392 of 433

	Sample Date: 05/14/2014				
Vater Flow Type Run	Water Appearance Brow	vn	Water Depth	☐ Algae?	
Nater Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%	
Sampler Comments:					
Lab ID #	<u>Resi</u>	ı <u>lt</u>	Reporting Limit	<u>Method</u>	
% Sat	7	9.9 %		ASTM D888-09(C)	
DO		3.3 mg/L		ASTM D888-09(C)	
pH (Field)	7	35 SU		EPA 150.2	
Specific Conductance (Field)	2	49 umho/cm		SM2510B	
Temperature	13	55 °C		SM2550B(2)	
Turbidity (Hach)	1	13 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 # 3027189	Resu	ılt	Reporting Limit	Method	
Alkalinity (as CaCO3)	1	20 mg/L	1	SM2320B	
Chloride		32 mg/L	6	EPA 300.0	
Solids, Suspended Total, (TSS)		68 mg/L	10	SM2540D	
Solids, Total (TS)	3	80 mg/L	10	SM2540B	
Solids, Total Dissolved (TDS)	3	40 mg/L	10	SM2540C	
Sulfate		26 mg/L	15	EPA 300.0	
Lab ID # 3027190	Resu	<u>ılt</u>	Reporting Limit	Method	
Hardness (as CaCO3)	2	00 mg/L	0.66	SM2340B	
Calcium (Total)		56 mg/L	0.1	EPA 200.7	
Magnesium (Total)		14 mg/L	0.1	EPA 200.7	
Lab ID # 3027191	Resu	<u>ılt</u>	Reporting Limit	Method	
Nitrogen, Ammonia		0.4 mg/L	0.1	SM4500NH3-D	
Lab ID # 3027192	Resu	ılt	Reporting Limit	<u>Method</u>	
Nitrogen, Nitrate+Nitrite		6.7 mg/L	0.1	EPA 353.2	
Lab ID # 3027193	Resu	ı <u>lt</u>	Reporting Limit	Method	
Phosphorus, Total	0	85 mg/L	0.05	SM4500P-E	
Lab ID # 3027194	Resi	ılt	Reporting Limit	Method	

Thursday, July 30, 2015 Page 393 of 433

Lab ID # AA17834		Result		Reporting Limit	<u>Method</u>
COD		56	mg/L	10	EPA 410.4
TKN		2.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16960a		<u>Result</u>		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		2247	MPN/100mL	10	SM9223B
SiteID: WMI-03-0007	Sample Date: 06/11/2014		IDEM Sample	#: AB17387	
Vater Flow Type Riffle	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		92.7	%		ASTM D888-09(C)
DO		8.89	mg/L		ASTM D888-09(C)
pH (Field)		7.88	SU		EPA 150.2
Specific Conductance (Field)		602	umho/cm		SM2510B
Temperature		17.3	°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 # 3042613		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		220	mg/L	1	SM2320B
Chloride		29	mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)		11	mg/L	10	SM2540D
Solids, Total (TS)		340	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		340	mg/L	10	SM2540C
Sulfate		26	mg/L	5	EPA 300.0
Lab ID # 3042614		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		22	mg/L	0.1	EPA 200.7
Lab ID # 3042615		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042616		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 394 of 433

Lab ID # 3042617			<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.15	mg/L	0.05	SM4500P-E
Lab ID # 3042618			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			4	mg/L	0.5	SM5310C
Lab ID # AA20567			Result		Reporting Limit	<u>Method</u>
COD			< 10	mg/L	10	EPA 410.4
TKN			0.83	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17387			Result		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			1553.1	MPN/100mL	1	SM9223B
SiteID: WMI-03-0007	Sample Date:	07/09/2014		IDEM Sampl	l e # : AB17561	
Nater Flow Type Pool	Water A	Appearance	Clear		Water Depth	✓ Algae?
Vater Flow (cf/sec):	Flow	Estimated?	✓ Δc	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:	_ I IOW	Lamateu	⊡ Ac	judilo Ello:	oanopy closed /a	0.2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			92.5	%		ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)			8.1	SU		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 Wind Strength				Lookup Lookup		Observation Observation
wind Stieligtii			O	Lookup		Objet valion
Lab ID # 3060244			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			65	mg/L	5	EPA 300.0
Lab ID # 3060245			Result		Reporting Limit	Method
Hardness (as CaCO3)			340	mg/L	0.66	SM2340B
Calcium (Total)			89	mg/L	0.1	EPA 200.7
Magnesium (Total)			30	mg/L	0.1	EPA 200.7
TI						

Thursday, July 30, 2015 Page 395 of 433

Lab ID # 3060246	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060247	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.8	mg/L	0.1	EPA 353.2
Lab ID # 3060248	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.13	mg/L	0.05	SM4500P-E
Lab ID # 3060249	Result		Reporting Limit	<u>Method</u>
TOC	3.6	mg/L	0.5	SM5310C
Lab ID # AA22952	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.61	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17561	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	686.7	MPN/100mL	1	SM9223B

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

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

Sampler Comments: Q6 Turb: 10.1 NTU

ab ID #	Result		Reporting Limit	<u>Method</u>
% Sat	88.3	%		SM4500-OG
DO	7.63	mg/L		SM4500-OG
pH (Field)	8.24	SU		EPA 150.2
Specific Conductance (Field)	711	umho/cm		SM2510B
Temperature	21.06	°C		SM2550B(2)
Turbidity (Hach)	9.44	NTU		EPA 180.1
Air Temp	4	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation

Thursday, July 30, 2015 Page 396 of 433

SiteID: WMI-03-0007 **Sample Date:** 08/20/2014 **IDEM Sample #:** AB18749

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	Method
% Sat	85.7	%		ASTM D888-09(C
DO	7.61	mg/L		ASTM D888-09(C
pH (Field)	8.04	SU		EPA 150.2
Specific Conductance (Field)	784	umho/cm		SM2510B
Temperature	21.12	°C		SM2550B(2)
Turbidity (Hach)	38.4	NTU		EPA 180.1
Air Temp	5	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction		Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 3087286	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	260	mg/L	1	SM2320B
Chloride	26	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	480	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480	mg/L	10	SM2540C
Sulfate	100	mg/L	25	EPA 300.0
Lab ID # 3087287	Result		Reporting Limit	Method
Hardness (as CaCO3)	330	mg/L	0.66	SM2340B
Calcium (Total)	81	mg/L	0.1	EPA 200.7
Magnesium (Total)	32	mg/L	0.1	EPA 200.7
Lab ID # 3087288	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087289	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087290	Result		Reporting Limit	Method
Phosphorus, Total	0.11	mg/L	0.05	SM4500P-E
Lab ID # 3087291	Result		Reporting Limit	<u>Method</u>
TOC	4.2	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 397 of 433

Lab ID # AA25815		Result		Reporting Limit	Method
COD		15	mg/L	10	EPA 410.4
TKN		< 0.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18749		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		248.9	MPN/100mL	1	SM9223B
SiteID: WMI-03-0007	Sample Date: 09/17/2014		IDEM Sample	#: AB19064	
Vater Flow Type Run	Water Appearance	Murky	W	ater Depth	✓ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:			-		
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		94.7	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.99	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		12.53			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 # 3105682		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS) Sulfate			mg/L mg/L	10 25	SM2540C EPA 300.0
Sulfate		40	mg/L	20	EFA 300.0
Lab ID # 3105683		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		25	mg/L	0.1	EPA 200.7
Lab ID # 3105684		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105685		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		0.6	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 398 of 433

Lab ID # 3105686			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.12	mg/L	0.05	SM4500P-E
Lab ID # 3105687			Result		Reporting Limit	Method
TOC			4.1	mg/L	0.5	SM5310C
Lab ID # AA28063			Result		Reporting Limit	Method
COD			6	mg/L	10	EPA 410.4
TKN			0.67	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19064			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			579.4	MPN/100mL	1	SM9223B
SiteID: WMI-03-0007	Sample Date:	10/29/2014		IDEM Sample	e#: AB19247	
Vater Flow Type Riffle	Water /	Appearance	Clear		Water Depth	✓ Algae?
Nater Flow (cf/sec):	Flow	Estimated?	Π Δα	uatic Life?	Canopy Closed %	
Sampler Comments:	_ 1.0w	Louinatea.	_ A.	judilo Ello:	canopy closed //	0 20 / 0
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			80.6			ASTM D888-09(C)
DO				mg/L		ASTM D888-09(C)
pH (Field)				SU		EPA 150.2
Specific Conductance (Field)				umho/cm		SM2510B
Temperature			9.65			SM2550B(2)
Turbidity (Hach)			5.23	NTU		EPA 180.1
Air Temp			3	Lookup		Observation
Sky Conditions			1	Lookup		Observation
Wind Direction			27	Lookup		Observation
Wind Strength			2	Lookup		Observation
-			3	LOOKUP		Observation
Lab ID # 3130616			Result	Соокир	Reporting Limit	<u>Method</u>
Lab ID # 3130616 Alkalinity (as CaCO3)			Result	mg/L	Reporting Limit	
Alkalinity (as CaCO3) Chloride			Result 300			<u>Method</u>
Alkalinity (as CaCO3) Chloride			300 38	mg/L	1	Method SM2320B
Alkalinity (as CaCO3) Chloride			300 38 13	mg/L mg/L	1 10	Method SM2320B EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)			300 38 13 450	mg/L mg/L mg/L	1 10 10	Method SM2320B EPA 300.0 SM2540D
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)			300 38 13 450 430	mg/L mg/L mg/L mg/L	1 10 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate			300 38 13 450 430	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)			300 38 13 450 430 42 Result	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 25	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0
Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130617			300 38 13 450 430 42 Result	mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 25 Reporting Limit	Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 399 of 433

Lab ID # 3130618	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130619	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.4	mg/L	0.1	EPA 353.2
Lab ID # 3130620	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
Lab ID # 3130621	Result		Reporting Limit	<u>Method</u>
TOC	4.1	mg/L	0.5	SM5310C
Lab ID # AA31638	Result		Reporting Limit	<u>Method</u>
COD	6	mg/L	10	EPA 410.4
TKN	0.32	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19247	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	816.4	MPN/100mL	1	SM9223B

	Weather Code Definitions									
	C nditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp					
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32					
2 - Scattered	9 - Snow	0	East (90 Degrees)	1 - Light	2 - 33-45					
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60					
4 - Cloudy	10 - Sieet	27	West (270 Degrees)	3 - Moderate	4 - 61-75					
5 - Mist		2	West (270 Degrees)	4 - Mod./Strong	5 - 76-85					
6 - Fog				5 - Strong	6 - > 86					
7 - Shower				6 - Gale	0 2 00					

Thursday, July 30, 2015 Page 400 of 433

 SiteID:
 WMI040-0003
 USGS Hydrologic Unit:
 051201030301

 Stream Name:
 Little Lick Creek
 County:
 Blackford

Description: SR 3, S of Hartford City **Latitude:** 40 26 32.11331 **Longitude:** -85 22 12.26957

Drainage: 12.939 Site Number: 14T-138

SiteID: WMI040-0003 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16193

Water Flow Type Glide 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	82.8	%		ASTM D888-09(C)
DO	10.41			ASTM D888-09(C)
pH (Field)	7.71	-		EPA 150.2
Specific Conductance (Field)		umho/cm		SM2510B
Temperature	5.58	°C		SM2550B(2)
Turbidity (Hach)	33.3	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength		Lookup		Observation
Lab ID # 3011133	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	170	mg/L	1	SM2320B
Chloride	25	mg/L	6	EPA 300.0
Fluoride	0.1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	16	mg/L	10	SM2540D
Solids, Total (TS)	330	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	34	mg/L	15	EPA 300.0
Lab ID # 3011134	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	230	mg/L	0.66	SM2340B
Calcium (Total)	64	mg/L	0.1	EPA 200.7
Magnesium (Total)	17	mg/L	0.1	EPA 200.7
Lab ID # 3011135	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011136	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.9	mg/L	0.1	EPA 353.2
Lab ID # 3011137	Result		Reporting Limit	Method
Phosphorus, Total	0.21	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 401 of 433

Lab ID # 3011138		<u>Result</u>		Reporting Limit	<u>Method</u>
TOC		8.7	mg/L	0.5	SM5310C
Lab ID # AA14529		Result		Reporting Limit	Method
COD		27	mg/L	10	EPA 410.4
TKN		0.91	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16193		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		686.7	MPN/100mL	1	SM9223B
SiteID: WMI040-0003	Sample Date: 04/23/2014		IDEM Sample	#∙ AR16437	
Water Flow Type Glide	Water Appearance	Murky	-	/ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	• □ Ac	quatic Life?	Canopy Closed %	0-20%
			•	.,	
Sampler Comments:					
Lab ID #		Result		Reporting Limit	Method
		Result	%	Reporting Limit	Method ASTM D888-09(C)
Lab ID #		94.8	% mg/L	Reporting Limit	<u> </u>
Lab ID #		94.8		Reporting Limit	ASTM D888-09(C)
Lab ID # % Sat DO		94.8 10.07 7.9	mg/L	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C)
Lab ID # % Sat DO pH (Field)		94.8 10.07 7.9	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
Lab ID # % Sat DO pH (Field) Specific Conductance (Field)		94.8 10.07 7.9 535 12.14	mg/L SU umho/cm	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		94.8 10.07 7.9 535 12.14 23.1	mg/L SU umho/cm °C	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		94.8 10.07 7.9 535 12.14 23.1	mg/L SU umho/cm °C NTU	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		94.8 10.07 7.9 535 12.14 23.1 2	mg/L SU umho/cm °C NTU Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		94.8 10.07 7.9 535 12.14 23.1 2	mg/L SU umho/cm °C NTU Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		94.8 10.07 7.9 535 12.14 23.1 2	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
% Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength		94.8 10.07 7.9 535 12.14 23.1 2 1 27 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation

Thursday, July 30, 2015 Page 402 of 433

SiteID: WMI040-0003	Sample Date: 04/30/2014		IDEM Sample	#: AB16509	
Nater Flow Type Glide	Water Appearance	Brown	V	Vater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		71.7	%		ASTM D888-09(C)
DO		7.75	mg/L		ASTM D888-09(C)
pH (Field)		7.47	SU		EPA 150.2
Specific Conductance (Field)		434	umho/cm		SM2510B
Temperature		11.8	°C		SM2550B(2)
Turbidity (Hach)		84.4	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16509		Result		Reporting Limit	Method
E. coli		1413.6	MPN/100mL	1	SM9223B
Lab ID # AB16509a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		19863	MPN/100mL	10	SM9223B
	Sample Date: 05/07/2014	19863		<u> </u>	SM9223B
SiteID: WMI040-0003	Sample Date: 05/07/2014 Water Appearance	19863 Murky	IDEM Sample	<u> </u>	SM9223B ✓ Algae?
SiteID: WMI040-0003 Water Flow Type Glide	•	Murky	IDEM Sample	#: AB16828	✓ Algae?
SiteID: WMI040-0003 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Murky	IDEM Sample	#: AB16828 Vater Depth	✓ Algae?
SiteID: WMI040-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample	#: AB16828 Vater Depth	✓ Algae?
SiteID: WMI040-0003 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appearance	Murky	IDEM Sample V juatic Life?	#: AB16828 Vater Depth Canopy Closed %	✓ Algae? 0-20%
SiteID: WMI040-0003 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Acc Result 91.7	IDEM Sample V juatic Life?	#: AB16828 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Murky Acc Result 91.7	IDEM Sample Viguatic Life? % mg/L	#: AB16828 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Murky Ac Result 91.7 9.24 7.65	IDEM Sample W quatic Life? % mg/L SU	#: AB16828 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Murky Result 91.7 9.24 7.65 612	IDEM Sample W Juatic Life? % mg/L SU umho/cm	#: AB16828 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Murky Result 91.7 9.24 7.65 612 14.9	IDEM Sample W Juatic Life? % mg/L SU umho/cm °C	#: AB16828 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearance	Murky Result 91.7 9.24 7.65 612 14.9 54	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU	#: AB16828 Vater Depth Canopy Closed %	Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1
SiteID: WMI040-0003 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Murky Result 91.7 9.24 7.65 612 14.9 54 4	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16828 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: WMI040-0003 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Murky Result 91.7 9.24 7.65 612 14.9 54 4	Multic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16828 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: WMI040-0003 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Murky Result 91.7 9.24 7.65 612 14.9 54 4 2 27	IDEM Sample Viguatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16828 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: WMI040-0003 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	Murky Result 91.7 9.24 7.65 612 14.9 54 4 2 27	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16828 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
SiteID: WMI040-0003 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	Murky Result 91.7 9.24 7.65 612 14.9 54 4 2 27 1 Result	Muatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16828 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

Thursday, July 30, 2015 Page 403 of 433

SiteID: WMI040-0003	Sample Date: 05/14/2014		IDEM Samp	le #: AB16961	
Water Flow Type Glide	Water Appearance	Brown		Water 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		68.6	%		ASTM D888-09(C)
DO		6.92	mg/L		ASTM D888-09(C)
pH (Field)		7.17	SU		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		15.1	_		SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		0	Lookup		Observation
Lab ID # 3027239		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		89	mg/L	1	SM2320B
Chloride		31	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		28	mg/L	15	EPA 300.0
Lab ID # 3027240		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		180	mg/L	0.66	SM2340B
Calcium (Total)		49	mg/L	0.1	EPA 200.7
Magnesium (Total)		13	mg/L	0.1	EPA 200.7
Lab ID # 3027241		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.8	mg/L	0.1	SM4500NH3-D
Lab ID # 3027242		Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite		7.1	mg/L	0.1	EPA 353.2
Lab ID # 3027243		Result		Reporting Limit	Method
Phosphorus, Total		0.88	mg/L	0.05	SM4500P-E
Lab ID # 3027244		Result		Reporting Limit	<u>Method</u>
TOC		17	mg/L	0.5	SM5310C

Thursday, July 30, 2015 Page 404 of 433

Lab ID # AA17835		Result		Reporting Limit	<u>Method</u>
COD		64	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16961a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI040-0003	Sample Date: 06/11/2014		IDEM Sample	#: AB17388	
Vater Flow Type Glide	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Vater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		65.7	%		ASTM D888-09(C)
DO		6.15	mg/L		ASTM D888-09(C)
pH (Field)		7.25	SU		EPA 150.2
Specific Conductance (Field)		438	umho/cm		SM2510B
Temperature		18.52	°C		SM2550B(2)
Turbidity (Hach)		58.9	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions		8	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042621		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		130	mg/L	1	SM2320B
Chloride		20	mg/L	4	EPA 300.0
Solids, Suspended Total, (TSS)		29	mg/L	10	SM2540D
Solids, Total (TS)		330	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		270	mg/L	10	SM2540C
Sulfate		30	mg/L	10	EPA 300.0
Lab ID # 3042624		Result		Reporting Limit	Method
Hardness (as CaCO3)		200	mg/L	0.66	SM2340B
Calcium (Total)		56	mg/L	0.1	EPA 200.7
Magnesium (Total)		14	mg/L	0.1	EPA 200.7
Lab ID # 3042625		Result		Reporting Limit	Method
Nitrogen, Ammonia		0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3042628		<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 405 of 433

Lab ID # 3042631			Result		Reporting Limit	<u>Method</u>
Phosphorus, Total			0.31	mg/L	0.05	SM4500P-E
Lab ID # 3042634			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			12	mg/L	0.5	SM5310C
Lab ID # AA20568			Result		Reporting Limit	<u>Method</u>
COD			36	mg/L	10	EPA 410.4
TKN			0.33	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17388			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			1732.9	MPN/100mL	1	SM9223B
SiteID: WMI040-0003	Sample Date:	07/09/2014		IDEM Sampl	e #: AB17562	
Water Flow Type Glide	Water A	ppearance	Clear		Water Depth	✓ Algae?
Nater Flow (cf/sec):	Flow	Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:		Louinatea :	iii Ac	judilo Elic .	ounopy closed //	0 2070
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			91.9	%		ASTM D888-09(C)
DO			8	mg/L		ASTM D888-09(C)
pH (Field)			7.81	SU		EPA 150.2
Specific Conductance (Field)			680	umho/cm		SM2510B
Temperature			22.02	°C		SM2550B(2)
Turbidity (Hach)			11.9	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 # 3060260			Result		Reporting Limit	Method
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride				mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			47	mg/L	5	EPA 300.0
Lab ID # 3060261			<u>Result</u>		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			320	mg/L	0.66	SM2340B
Calcium (Total)			89	mg/L	0.1	EPA 200.7
Magnesium (Total)			24	mg/L	0.1	EPA 200.7
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Thursday, July 30, 2015 Page 406 of 433

Lab ID # 3060262		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060263		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		0.1	mg/L	0.1	EPA 353.2
Lab ID # 3060264		Result		Reporting Limit	Method
Phosphorus, Total		0.24	mg/L	0.05	SM4500P-E
Lab ID # 3060265		Result		Reporting Limit	<u>Method</u>
TOC		11	mg/L	0.5	SM5310C
Lab ID # AA22954		<u>Result</u>		Reporting Limit	<u>Method</u>
COD		27	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17562		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		281.2	MPN/100mL	1	SM9223B
SiteID: WMI040-0003	Sample Date: 07/16/20	.4.4			
		114	IDEM Sample a	#: AB18400	
Nater Flow Type Run	•		IDEM Sample a		✓ Algae?
	Water Appearan	ce Brown	W	ater Depth	✓ Algae?
Water Flow (cf/sec):	•	ce Brown	-		
Water Flow (cf/sec):	Water Appearan	ce Brown	W	ater Depth	
Nater Flow (cf/sec): Sampler Comments: Q6 Turk	Water Appearan	ed? Ac	W quatic Life?	ater Depth Canopy Closed %	0-20% Method
Vater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID #	Water Appearan	Result	wquatic Life?	ater Depth Canopy Closed %	0-20% Method SM4500-OG
Vater Flow (cf/sec): Sampler Comments: Q6 Turb Lab ID # % Sat DO	Water Appearan	Result 72.2 6.18	wuatic Life? % mg/L	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG
Vater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat DO pH (Field)	Water Appearan	Result 72.2 6.18 7.84	wuquatic Life? % mg/L SU	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2
Vater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearan	Result 72.2 6.18 7.84 775	% mg/L SU umho/cm	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B
Vater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat	Water Appearan	Result 72.2 6.18 7.84 775 21.27	% mg/L SU umho/cm °C	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B SM2550B(2)
Nater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat	Water Appearan	Result 72.2 6.18 7.84 775 21.27	% mg/L SU umho/cm °C NTU	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B SM2550B(2) EPA 180.1
Nater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat	Water Appearan	Result 72.2 6.18 7.84 775 21.27	% mg/L SU umho/cm °C NTU Lookup	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B SM2550B(2)
Nater Flow (cf/sec): Sampler Comments: Q6 Turk Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appearan	Result 72.2 6.18 7.84 775 21.27	% mg/L SU umho/cm °C NTU	ater Depth Canopy Closed %	0-20% Method SM4500-OG SM4500-OG EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation

Thursday, July 30, 2015 Page 407 of 433

SiteID: WMI040-0003 **Sample Date**: 08/20/2014 **IDEM Sample #**: AB18750

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	32.8	%		ASTM D888-09(C)
DO	2.84	mg/L		ASTM D888-09(C)
pH (Field)	7.59	SU		EPA 150.2
Specific Conductance (Field)	1000	umho/cm		SM2510B
Temperature	22.26	°C		SM2550B(2)
Turbidity (Hach)	2.37	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 # 3087294	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	88	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	560	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	550	mg/L	10	SM2540C
Sulfate	110	mg/L	25	EPA 300.0
Lab ID # 3087295	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	320	mg/L	0.66	SM2340B
Calcium (Total)	75	mg/L	0.1	EPA 200.7
Magnesium (Total)	31	mg/L	0.1	EPA 200.7
Lab ID # 3087296	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087297	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087298	Result		Reporting Limit	Method
Phosphorus, Total	0.36	mg/L	0.05	SM4500P-E
,				
Lab ID # 3087299	<u>Result</u>		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 408 of 433

Lab ID # AA25816		Result		Reporting Limit	Method
COD		24	mg/L	10	EPA 410.4
TKN		0.61	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18750		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		127.4	MPN/100mL	1	SM9223B
SiteID: WMI040-0003	Sample Date: 09/17/2014		IDEM Sample	#: AB19065	
Vater Flow Type Run	Water Appearance	Clear	V	Vater 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		34.6	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.42	-		EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		14.53			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 # 3105690		Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		160	mg/L	1	SM2320B
Chloride		14	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)		240	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		26	mg/L	25	EPA 300.0
Lab ID # 3105691		Result		Reporting Limit	Method
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)		53	mg/L	0.1	EPA 200.7
Magnesium (Total)		13	mg/L	0.1	EPA 200.7
Lab ID # 3105692		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3105693		<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 409 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105694

Lab 1D # 3103094		Result		Reporting Limit	Wethou
Phosphorus, Total		0.35	mg/L	0.05	SM4500P-E
Lab ID # 3105695		Result		Reporting Limit	Method
TOC		13	mg/L	0.5	SM5310C
Lab ID # AA28064		Result		Reporting Limit	Method
COD		40	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19065		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI040-0003	Sample Date: 10/29/2014		IDEM Sample #	# : AB19248	
Water Flow Type Glide	Water Appearance	Murky	•	ater 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	·	45.1	%		ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.35			EPA 150.2
Specific Conductance (Field)		-	umho/cm		SM2510B
Temperature		11.18			SM2550B(2)
Turbidity (Hach)		15	NTU		EPA 180.1
A ' T		_			
Air Temp			Lookup		Observation
Sky Conditions		1	Lookup		Observation Observation
		1 27			Observation
Sky Conditions Wind Direction Wind Strength		1 27	Lookup Lookup	Reporting Limit	Observation Observation Observation
Sky Conditions Wind Direction Wind Strength		1 27 1 Result	Lookup Lookup	Reporting Limit	Observation Observation Observation Observation
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624		1 27 1 Result	Lookup Lookup Lookup		Observation Observation Observation Observation Method
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride		1 27 1 Result 230 33	Lookup Lookup Lookup	1	Observation Observation Observation Observation Method SM2320B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride		1 27 1 Result 230 33 15	Lookup Lookup Lookup mg/L mg/L	1 10	Observation Observation Observation Observation Method SM2320B EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		1 27 1 Result 230 33 15 420	Lookup Lookup Lookup mg/L mg/L mg/L	1 10 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		27 1 Result 230 33 15 420 330	Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 10 10 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		27 1 Result 230 33 15 420 330	Lookup Lookup Mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		1 27 1 Result 230 33 15 420 330 55 Result	Lookup Lookup Mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 10 25	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130624 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130625		1 27 1 Result 230 33 15 420 330 55 Result 300	Lookup Lookup Lookup mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 25 Reporting Limit	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0 Method

Thursday, July 30, 2015 Page 410 of 433

Lab ID # 3130626	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3130627	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	EPA 353.2
Lab ID # 3130628	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.07	mg/L	0.05	SM4500P-E
Lab ID # 3130629	Result		Reporting Limit	Method
TOC	23	mg/L	2.5	SM5310C
Lab ID # AA31639	Result		Reporting Limit	<u>Method</u>
COD	55	mg/L	10	EPA 410.4
TKN	2.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19248	Result		Reporting Limit	<u>Method</u>
E. coli	325.5	MPN/100mL	1	SM9223B
Lab ID # AB19248a	Result		Reporting Limit	Method
Coliforms (Total)	11199	MPN/100mL	10	SM9223B

	Weather Code Definitions										
SC 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							

Thursday, July 30, 2015 Page 411 of 433

Air Temp

Sky Conditions

Lab ID # 3011188

Phosphorus, Total

SiteID: WMI040-0009 USGS Hydrologic Unit: 051201030301 Stream Name: Big Lick Creek County: Blackford Description: SR 3 South of Hartford City Latitude: 40 25 53.50547 **Longitude**: -85 22 12.61135 Drainage: Site Number: 14T-139 32.464 SiteID: WMI040-0009 IDEM Sample #: AB16194 Sample Date: 04/16/2014 ☐ Algae? **Water Appearance Water Depth** Water Flow Type Murky ☐ Flow Estimated? Water Flow (cf/sec): □ Aquatic Life? Canopy Closed % 0-20% **Sampler Comments:** Lab ID# Result **Reporting Limit Method** ASTM D888-09(C) % Sat 102.8 % DO 12.79 mg/L ASTM D888-09(C) pH (Field) 8.12 SU EPA 150.2 Specific Conductance (Field) 650 umho/cm SM2510B Temperature 5.92 °C SM2550B(2) Turbidity (Hach) 23.7 NTU EPA 180.1

2 Lookup

1 Lookup

Observation

Observation

Method

SM4500P-E

Wind Direction Wind Strength		Lookup Lookup		Observation Observation
Lab ID # 3011178	<u>Result</u>		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	220 ו	mg/L	1	SM2320B
Chloride	42 1	•	10	EPA 300.0
Fluoride	0.3 1	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	12 ו	mg/L	10	SM2540D
Solids, Total (TS)	420 1	-	10	SM2540B
Solids, Total Dissolved (TDS)	380 1	mg/L	10	SM2540C
Sulfate	53 ו	mg/L	15	EPA 300.0
Lab ID # 3011181	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	290 ו	mg/L	0.66	SM2340B
Calcium (Total)	78 ו	mg/L	0.1	EPA 200.7
Magnesium (Total)	25 1	mg/L	0.1	EPA 200.7
Lab ID # 3011182	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3011185	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.9 ו	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 412 of 433

Result

0.18 mg/L

Reporting Limit

0.05

Lab ID # 3011191		Result		Reporting Limit	<u>Method</u>
TOC		5.6	mg/L	0.5	SM5310C
Lab ID # AA14530		Result		Reporting Limit	<u>Method</u>
COD		13	mg/L	10	EPA 410.4
TKN		0.75	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16194		Result		Reporting Limit	Method
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		209.8	MPN/100mL	1	SM9223B
Water Flow Type Glide	Water Appearance	Clear	W	ater Depth	✓ Algae?
		_		•	_
Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments:	Water Appearance Flow Estimated?	_	W quatic Life?	/ater Depth Canopy Closed %	_
Nater Flow (cf/sec):		_		•	_
Vater Flow (cf/sec): Sampler Comments:		✓ Aq	quatic Life?	Canopy Closed %	0-20%
Vater Flow (cf/sec): Sampler Comments: Lab ID #		✓ Aq	quatic Life?	Canopy Closed %	0-20% Method ASTM D888-09(C)
Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)		Result	quatic Life? % mg/L	Canopy Closed %	0-20% Method ASTM D888-09(C)
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat		Result 122.6 13.64 8.31 738	% mg/L SU umho/cm	Canopy Closed %	0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature		Result 122.6 13.64 8.31 738 10.54	% 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)
Water Flow (cf/sec): sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)		Result 122.6 13.64 8.31 738 10.54 4.63	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 122.6 13.64 8.31 738 10.54 4.63 2	% 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
Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		Result 122.6 13.64 8.31 738 10.54 4.63 2 1	% 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 (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		Result 122.6 13.64 8.31 738 10.54 4.63 2 1	% 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

Result

1413.6 MPN/100mL

104.6 MPN/100mL

Reporting Limit

1

<u>Method</u>

SM9223B

SM9223B

Thursday, July 30, 2015 Page 413 of 433

Lab ID # AB16438

Coliforms (Total)

E. coli

SiteID: WMI040-0009	Sample Date: 04/30/2014		IDEM Sample		
Vater Flow Type Glide	Water Appearance	Murky	V	Vater 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		87.9	%		ASTM D888-09(C)
DO		9.34	mg/L		ASTM D888-09(C)
pH (Field)		7.83	SU		EPA 150.2
Specific Conductance (Field)		513	umho/cm		SM2510B
Temperature		12.5	°C		SM2550B(2)
Turbidity (Hach)		61.4	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		3	Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength			Lookup		Observation
Lab ID # AB16510		Result		Reporting Limit	<u>Method</u>
E. coli		1299.7	MPN/100mL	1	SM9223B
Lab ID # AB16510a		Result		Reporting Limit	Method
O " (T ()					
Coliforms (Total)		19863	MPN/100mL	10	SM9223B
		19863			SM9223B
SiteID: WMI040-0009	Sample Date: 05/07/2014 Water Appearance		IDEM Sample	#: AB16829	
SiteID: WMI040-0009 Water Flow Type Glide	Water Appearance	Clear	IDEM Sample	#: AB16829 Vater Depth	✓ Algae?
SiteID: WMI040-0009	•	Clear	IDEM Sample	#: AB16829	✓ Algae?
SiteID: WMI040-0009 Water Flow Type Glide Water Flow (cf/sec):	Water Appearance	Clear	IDEM Sample	#: AB16829 Vater Depth	✓ Algae?
SiteID: WMI040-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Ac	IDEM Sample V quatic Life?	#: AB16829 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI040-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID #	Water Appearance	Clear Acc Result	IDEM Sample V quatic Life?	#: AB16829 Vater Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI040-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO	Water Appearance	Clear Ac Result 119.6 12.28	IDEM Sample V quatic Life? % mg/L	#: AB16829 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI040-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field)	Water Appearance	Clear Acc Result 119.6 12.28 8.04	IDEM Sample V quatic Life? % mg/L SU	#: AB16829 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2
SiteID: WMI040-0009 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appearance	Clear Result 119.6 12.28 8.04 726	IDEM Sample V quatic Life? % mg/L SU umho/cm	#: AB16829 Vater Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI040-0009 Vater Flow Type Glide Vater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appearance	Clear Result 119.6 12.28 8.04 726 14.11	IDEM Sample V quatic Life? % mg/L SU umho/cm °C	#: AB16829 Vater Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI040-0009 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appearance	Clear Result 119.6 12.28 8.04 726 14.11 4.94	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU	#: AB16829 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: WMI040-0009 Nater Flow Type Glide Nater Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp	Water Appearance	Clear Result 119.6 12.28 8.04 726 14.11 4.94 4	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup	#: AB16829 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: WMI040-0009 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 119.6 12.28 8.04 726 14.11 4.94 4	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16829 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: WMI040-0009 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 119.6 12.28 8.04 726 14.11 4.94 4 2 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16829 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: WMI040-0009 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 119.6 12.28 8.04 726 14.11 4.94 4 2 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup	#: AB16829 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: WMI040-0009 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 119.6 12.28 8.04 726 14.11 4.94 4 2 27	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16829 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: WMI040-0009 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 ☐ Flow Estimated?	Clear Result 119.6 12.28 8.04 726 14.11 4.94 4 2 27 1 Result	IDEM Sample V quatic Life? % mg/L SU umho/cm °C NTU Lookup Lookup Lookup	#: AB16829 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

Thursday, July 30, 2015 Page 414 of 433

DO	SiteID: WMI040-0009	Sample Date: 05/14/2014	Sample Date: 05/14/2014 IDEM Sample #: AB16962				
Result Reporting Limit Method	Water Flow Type Glide	Water Appearance			Water Depth	☐ Algae?	
	Nater Flow (cf/sec):	☐ Flow Estimated?	□ Ac	quatic Life?	Canopy Closed %	0-20%	
W Sat	Sampler Comments:						
DO	Lab ID#		Result		Reporting Limit	<u>Method</u>	
PH (Field)	% Sat		76	%		ASTM D888-09(C)	
Specific Conductance (Field)	DO		7.56	mg/L		ASTM D888-09(C)	
Temperature	pH (Field)		7.34	SU		EPA 150.2	
Turbidity (Hach) 293 NTU EPA 180.1 Air Temp 4 Lookup Observation Observation Sky Conditions 4 Lookup Observation Observation Wind Direction Wind Strength 27 Lookup Observation Observation Lab ID # 3027247 Result Reporting Limit Method Alkalinity (as CaCO3) 110 mg/L 1 SM2320B Method Chloride 29 mg/L 6 EPA 300.0 SM2320B Chloride 29 mg/L 10 SM2540D SM2540D Solids, Suspended Total, (TSS) 180 mg/L 10 SM2540D SM2540D Solids, Total (TS) 330 mg/L 10 SM2540C SM2540D Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C SM2540C Sulfate 26 mg/L 15 EPA 300.0 SM2540C Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitr	Specific Conductance (Field)		417	umho/cm		SM2510B	
Air Temp Sky Conditions Air Conditions Wind Direction Wind Strength Air Conditions Wind Strength Air Conditions Wind Strength Air Conditions Air Conditions Wind Strength Air Conditions A	Temperature		15.61	°C		SM2550B(2)	
Sky Conditions Wind Direction 27 Lookup Observation Observat	Turbidity (Hach)		293	NTU		EPA 180.1	
Wind Direction Wind Strength 27 Lookup Lookup Observation Observation Lab ID # 3027247 Result Reporting Limit Method Alkalinity (as CaCO3) 110 mg/L 1 SM2320B Chloride 29 mg/L 6 EPA 300.0 Solids, Suspended Total, (TSS) 180 mg/L 10 SM2540D Solids, Total (TS) 510 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C Sulfate 26 mg/L 15 EPA 300.0 Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) 50 mg/L 0.1 EPA 200.7 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Air Temp		4	Lookup		Observation	
Lab ID # 3027247 Result Reporting Limit Method Alkalinity (as CaCO3) Chloride 110 mg/L 29 mg/L 16 EPA 300.0 Solids, Suspended Total, (TSS) Solids, Total (TSS) Solids, Total Dissolved (TDS) Solids, Total Dissolved (TDS) Sulfate 330 mg/L 26 mg/L 26 mg/L 15 EPA 300.0 10 SM2540D S	Sky Conditions		4	Lookup		Observation	
Lab ID # 3027247 Result Reporting Limit Method Alkalinity (as CaCO3) Chloride 110 mg/L 1 SM2320B EPA 300.0 Solids, Suspended Total, (TSS) Solids, Total (TS) 180 mg/L 10 SM2540D SM2540B Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540B SM2540B SM2540B SM2540B SM2540B SM2540B SM2540B SM2540B SM2540B SM2540C Sulfate 15 EPA 300.0 Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) Calcium (Total) 190 mg/L 50 mg/L 0.66 50 mg/L 50 mg/L 50 mg/L 50 mg/L 50 mg/L 0.1 EPA 200.7 50 mg/L 50	Wind Direction		27	Lookup		Observation	
Alkalinity (as CaCO3) 110 mg/L 1 SM2320B Chloride 29 mg/L 6 EPA 300.0 Solids, Suspended Total, (TSS) 180 mg/L 10 SM2540D Solids, Total (TS) 510 mg/L 10 SM2540B Solids, Total (TS) 330 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C Sulfate 26 mg/L 15 EPA 300.0 Sulfate 26 mg/L 15 EPA 300.0 Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) 16 mg/L 0.1 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-E Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Wind Strength		0	Lookup		Observation	
Chloride 29 mg/L 6 EPA 300.0 Solids, Suspended Total, (TSS) 180 mg/L 10 SM2540D Solids, Total (TS) 510 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C Sulfate 26 mg/L 15 EPA 300.0 Lab ID# 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) 16 mg/L 0.1 EPA 200.7 Lab ID# 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID# 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID# 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID# 3027252 Result Reporting Limit	Lab ID # 3027247		Result		Reporting Limit	Method	
Solids, Suspended Total, (TSS) 180 mg/L 10 SM2540D Solids, Total (TS) 510 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C Sulfate 26 mg/L 15 EPA 300.0 Lab ID # 3027248 Result Reporting Limit Method	Alkalinity (as CaCO3)		110	mg/L	1	SM2320B	
Solids, Total (TS)	Chloride		29	mg/L	6	EPA 300.0	
Solids, Total Dissolved (TDS) 330 mg/L 10 SM2540C Sulfate 26 mg/L 15 EPA 300.0	Solids, Suspended Total, (TSS)		180	mg/L	10	SM2540D	
Sulfate 26 mg/L 15 EPA 300.0 Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) 16 mg/L 0.1 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Solids, Total (TS)		510	mg/L	10	SM2540B	
Lab ID # 3027248 Result Reporting Limit Method Hardness (as CaCO3) 190 mg/L 0.66 SM2340B Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) 16 mg/L 0.1 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Solids, Total Dissolved (TDS)		330	mg/L	10	SM2540C	
Hardness (as CaCO3)	Sulfate		26	mg/L	15	EPA 300.0	
Calcium (Total) 50 mg/L 0.1 EPA 200.7 Magnesium (Total) EPA 200.7 Magnesium (Total) Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Lab ID # 3027248		Result		Reporting Limit	Method	
Magnesium (Total) 16 mg/L 0.1 EPA 200.7 Lab ID # 3027249 Result Reporting Limit Method Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Hardness (as CaCO3)		190	mg/L	0.66	SM2340B	
Lab ID # 3027249ResultReporting LimitMethodNitrogen, Ammonia0.7 mg/L0.1SM4500NH3-DLab ID # 3027250ResultReporting LimitMethodNitrogen, Nitrate+Nitrite6.4 mg/L0.1EPA 353.2Lab ID # 3027251ResultReporting LimitMethodPhosphorus, Total0.98 mg/L0.25SM4500P-ELab ID # 3027252ResultReporting LimitMethod	Calcium (Total)		50	mg/L	0.1	EPA 200.7	
Nitrogen, Ammonia 0.7 mg/L 0.1 SM4500NH3-D Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Magnesium (Total)		16	mg/L	0.1	EPA 200.7	
Lab ID # 3027250 Result Reporting Limit Method Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Lab ID # 3027249		Result		Reporting Limit	Method	
Nitrogen, Nitrate+Nitrite 6.4 mg/L 0.1 EPA 353.2 Lab ID # 3027251 Result Reporting Limit Method Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Nitrogen, Ammonia		0.7	mg/L	0.1	SM4500NH3-D	
Lab ID # 3027251ResultReporting LimitMethodPhosphorus, Total0.98 mg/L0.25SM4500P-ELab ID # 3027252ResultReporting LimitMethod	Lab ID # 3027250		<u>Result</u>		Reporting Limit	Method	
Phosphorus, Total 0.98 mg/L 0.25 SM4500P-E Lab ID # 3027252 Result Reporting Limit Method	Nitrogen, Nitrate+Nitrite		6.4	mg/L	0.1	EPA 353.2	
Lab ID # 3027252 Result Reporting Limit Method	Lab ID # 3027251		Result		Reporting Limit	<u>Method</u>	
	Phosphorus, Total		0.98	mg/L	0.25	SM4500P-E	
TOC 16 mg/l 0.5 SM5210C	Lab ID # 3027252		Result		Reporting Limit	Method	
	TOC		16	ma/l	0.5	SM5310C	

Thursday, July 30, 2015 Page 415 of 433

Lab ID # AA17836		Result		Reporting Limit	Method
COD		59	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16962a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		7701	MPN/100mL	10	SM9223B
SiteID: WMI040-0009	Sample Date: 06/11/2014		IDEM Sample	#: AB17390	
Vater Flow Type Glide	Water Appearance	Murky	v	Vater Depth	☐ Algae?
Nater Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		89.7	%		ASTM D888-09(C)
DO		8.47	mg/L		ASTM D888-09(C)
pH (Field)		7.74	SU		EPA 150.2
Specific Conductance (Field)		526	umho/cm		SM2510B
Temperature		18.09	°C		SM2550B(2)
Turbidity (Hach)		54.4	NTU		EPA 180.1
Air Temp		4	Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042649		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		180	mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		33	mg/L	5	EPA 300.0
Lab ID # 3042650		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		20	mg/L	0.1	EPA 200.7
Lab ID # 3042651		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3042652		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 416 of 433

Lab ID # 3042653			<u>Result</u>		Reporting Limit	Method
Phosphorus, Total			0.3	mg/L	0.05	SM4500P-E
Lab ID # 3042654			<u>Result</u>		Reporting Limit	<u>Method</u>
TOC			5.8	mg/L	0.5	SM5310C
Lab ID # AA20570			<u>Result</u>		Reporting Limit	<u>Method</u>
COD			15	mg/L	10	EPA 410.4
TKN			0.86	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17390			<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			1119.9	MPN/100mL	1	SM9223B
SiteID: WMI040-0009	Sample Date:	07/09/2014		IDEM Sampl	l e #: AB17564	
Nater Flow Type Run	Water A	Appearance	Murky		Water Depth	✓ Algae?
Vater Flow (cf/sec):	Flow	/ Estimated?	✓ Ac	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:				, www	camppy crocca /o	
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			111.7	%		ASTM D888-09(C)
DO			9.9	mg/L		ASTM D888-09(C)
pH (Field)			8.15			EPA 150.2
Specific Conductance (Field)			-	umho/cm		SM2510B
Temperature			21.16	_		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 # 3060268			Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)				mg/L	1	SM2320B
Chloride			47	mg/L	10	EPA 300.0
Solids, Suspended Total, (TSS)				mg/L	10	SM2540D
Solids, Total (TS)				mg/L	10	SM2540B
Solids, Total Dissolved (TDS)				mg/L	10	SM2540C
Sulfate			49	mg/L	5	EPA 300.0
Lab ID # 3060269			Result		Reporting Limit	Method
Hardness (as CaCO3)			200	mg/L	0.66	SM2340B
Calcium (Total)				mg/L	0.1	EPA 200.7
Magnesium (Total)			17	mg/L	0.1	EPA 200.7
Flores deve July 00, 0045						

Thursday, July 30, 2015 Page 417 of 433

Lab ID # 3060270			Result		Reporting Limit	Method
Nitrogen, Ammonia			< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3060271			Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite			1.3	mg/L	0.1	EPA 353.2
Lab ID # 3060272			Result		Reporting Limit	Method
Phosphorus, Total			0.18	mg/L	0.05	SM4500P-E
Lab ID # 3060273			Result		Reporting Limit	Method
TOC			4.5	mg/L	0.5	SM5310C
Lab ID # AA22955			Result		Reporting Limit	Method
COD			7	mg/L	10	EPA 410.4
TKN			0.74	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17564			Result		Reporting Limit	Method
Coliforms (Total)			> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli			2419.6	MPN/100mL	1	SM9223B
SiteID: WMI040-0009	Sample Date:	07/16/2014		IDEM Sample	#: AB18401	
Water Flow Type Glide	Water	Appearance	Brown	1	Water Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flov	w Estimated?	✓ Ac	quatic Life?	Canopy Closed %	0-20%
Sampler Comments:						
Lab ID #			Result		Reporting Limit	<u>Method</u>
% Sat			83.3	%		SM4500-OG
DO				mg/L		SM4500-OG
pH (Field)			8.16	SU		EPA 150.2
Specific Conductance (Field)			871	umho/cm		SM2510B
Temperature			21.81	°C		SM2550B(2)
Turbidity (Hach)			5.14	NTU		EPA 180.1
Air Temp			4	Lookup		Observation
Sky Conditions			4	Lookup		Observation
Wind Direction			0	Lookup		Observation
				-		

Thursday, July 30, 2015 Page 418 of 433

1 Lookup

Observation

Wind Strength

SiteID: WMI040-0009 **Sample Date:** 08/20/2014 **IDEM Sample #**: AB18752

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	Method
% Sat	86.9	%		ASTM D888-09(C)
DO	7.7	mg/L		ASTM D888-09(C)
pH (Field)	7.88	SU		EPA 150.2
Specific Conductance (Field)	1480	umho/cm		SM2510B
Temperature	21.08	°C		SM2550B(2)
Turbidity (Hach)	2.69	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 # 3087302	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		mg/L	1	SM2320B
Chloride	210	mg/L	20	EPA 300.0
Solids, Suspended Total, (TSS)	< 10	mg/L	10	SM2540D
Solids, Total (TS)	830	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	790	mg/L	10	SM2540C
Sulfate	140	mg/L	25	EPA 300.0
Lab ID # 3087303	Result		Reporting Limit	Method
Hardness (as CaCO3)	360	mg/L	0.66	SM2340B
Calcium (Total)	79	mg/L	0.1	EPA 200.7
Magnesium (Total)	39	mg/L	0.1	EPA 200.7
Lab ID # 3087304	Result		Reporting Limit	Method
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3087305	Result		Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1	mg/L	0.1	EPA 353.2
Lab ID # 3087306	Result		Reporting Limit	Method
Phosphorus, Total	0.05	mg/L	0.05	SM4500P-E
Lab ID # 3087307	Result		Reporting Limit	<u>Method</u>
TOC	4.1	mg/L	0.5	SM5310C
TOC	4.1	mg/L	0.5	SM53

Thursday, July 30, 2015 Page 419 of 433

Lab ID # AA25817		Result		Reporting Limit	<u>Method</u>
COD		17	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB18752		<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		193.5	MPN/100mL	1	SM9223B
SiteID: WMI040-0009	Sample Date: 09/17/2014		IDEM Sample	#: AB19067	
Vater Flow Type Glide	Water Appearance	Clear	١	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		98.5	%		ASTM D888-09(C)
DO		10.13			ASTM D888-09(C)
pH (Field)		7.95	-		EPA 150.2
Specific Conductance (Field)		854	umho/cm		SM2510B
Temperature		13.9	°C		SM2550B(2)
Turbidity (Hach)		6.72	NTU		EPA 180.1
Air Temp		3	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 3105698		Result		Reporting Limit	Method
Alkalinity (as CaCO3)		240	mg/L	1	SM2320B
Chloride		62	mg/L	10	EPA 300.0
solids, Suspended Total, (TSS)		< 10	mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		64	mg/L	25	EPA 300.0
Lab ID # 3105699		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		320	mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		26	mg/L	0.1	EPA 200.7
Lab ID # 3105700		Result		Reporting Limit	Method
Nitrogen, Ammonia		< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3105701		Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		1.1	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 420 of 433

<u>Result</u>

Reporting Limit

<u>Method</u>

Lab ID # 3105702

		Result			Methou
Phosphorus, Total		0.16	mg/L	0.05	SM4500P-E
Lab ID # 3105703		Result		Reporting Limit	Method
TOC		5.5	mg/L	0.5	SM5310C
Lab ID # AA28065		Result		Reporting Limit	Method
COD		14	mg/L	10	EPA 410.4
TKN			mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19067		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		488.4	MPN/100mL	1	SM9223B
SiteID: WMI040-0009	Sample Date: 10/29/2014		IDEM Sample #	#: AB19250	
Water Flow Type Glide	Water Appearance	Clear	-	ater 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		111.2	%		ASTM D888-09(C)
DO		12.33	-		ASTM D888-09(C)
pH (Field)		8.07			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		10.53			SM2550B(2)
Turbidity (Hach)			NTU 		EPA 180.1
Air Temp			Lookun		
			Lookup		Observation
Sky Conditions		1	Lookup		Observation
		1 27	•		
Sky Conditions Wind Direction Wind Strength		1 27 2	Lookup Lookup	Reportina Limit	Observation Observation Observation
Sky Conditions Wind Direction Wind Strength		1 27 2 Result	Lookup Lookup Lookup	Reporting Limit	Observation Observation Observation Method
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3)		1 27 2 Result	Lookup Lookup Lookup	1	Observation Observation Observation Method SM2320B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride		1 27 2 Result 290 120	Lookup Lookup Lookup mg/L mg/L	1 10	Observation Observation Observation Method SM2320B EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		1 27 2 Result 290 120 < 10	Lookup Lookup Lookup mg/L mg/L mg/L	1 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		1 27 2 Result 290 120 < 10 650	Lookup Lookup Lookup mg/L mg/L mg/L mg/L	1 10 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		1 27 2 Result 290 120 < 10 650 660	Lookup Lookup Lookup mg/L mg/L mg/L	1 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate		1 27 2 Result 290 120 < 10 650 660	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10	Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS)		1 27 2 Result 290 120 < 10 650 660 94 Result	mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 10 25	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0
Sky Conditions Wind Direction Wind Strength Lab ID # 3130632 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate Lab ID # 3130633		1 27 2 Result 290 120 < 10 650 660 94 Result 380	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 10 10 10 10 25 Reporting Limit	Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540D SM2540B SM2540C EPA 300.0

Thursday, July 30, 2015 Page 421 of 433

Lab ID # 3130634	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	< 0.1	mg/L	0.1	SM4500NH3-D
Lab ID # 3130635	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1.4	mg/L	0.1	EPA 353.2
Lab ID # 3130636	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.16	mg/L	0.05	SM4500P-E
Lab ID # 3130637	Result		Reporting Limit	<u>Method</u>
TOC	4.7	mg/L	0.5	SM5310C
Lab ID # AA31640	Result		Reporting Limit	<u>Method</u>
COD	< 10	mg/L	10	EPA 410.4
TKN	0.58	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19250	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	727	MPN/100mL	1	SM9223B

	Weather Code Definitions							
SC		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				

Thursday, July 30, 2015 Page 422 of 433

 SiteID:
 WMI-03-0008
 USGS Hydrologic Unit:
 051201030301

 Stream Name:
 Little Lick Creek
 County:
 Blackford

Description: CR 75 E **Latitude:** 40 26 57.22707 **Longitude:** -85 21 20.65245

Drainage: 12.075 **Site Number:** 14T-140

SiteID: WMI-03-0008 **Sample Date**: 04/16/2014 **IDEM Sample #**: AB16195

Water Flow Type Glide 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	92.5	%		ASTM D888-09(C)
DO	11.59	mg/L		ASTM D888-09(C)
pH (Field)	7.67	SU		EPA 150.2
Specific Conductance (Field)	513	umho/cm		SM2510B
Temperature	5.65	°C		SM2550B(2)
Turbidity (Hach)	32.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	2	Lookup		Observation
Lab ID # 3011200	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)	170	mg/L	1	SM2320B
Chloride	27	mg/L	6	EPA 300.0
Fluoride	0.2	mg/L	0.1	SM4500F(-)-C
Solids, Suspended Total, (TSS)	20	mg/L	10	SM2540D
Solids, Total (TS)	340	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	310	mg/L	10	SM2540C
Sulfate	37	mg/L	15	EPA 300.0
Lab ID # 3011201	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	230	mg/L	0.66	SM2340B
Calcium (Total)	65	mg/L	0.1	EPA 200.7
Magnesium (Total)	18	mg/L	0.1	EPA 200.7
Lab ID # 3011202	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.3	mg/L	0.1	SM4500NH3-D
Lab ID # 3011203	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	EPA 353.2
Lab ID # 3011204	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.24	mg/L	0.05	SM4500P-E

Thursday, July 30, 2015 Page 423 of 433

Lab ID # 3011205		Result		Reporting Limit	<u>Method</u>
TOC		9	mg/L	0.5	SM5310C
Lab ID # AA14531		Result		Reporting Limit	<u>Method</u>
COD		35	mg/L	10	EPA 410.4
TKN		1.5	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16195		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli		> 2419.6	MPN/100mL	2419.6	SM9223B
SiteID: WMI-03-0008	Sample Date: 04/23/2014		IDEM Comple	#. AP46420	
SiteID: WMI-03-0008 Water Flow Type Glide	Sample Date: 04/23/2014 Water Appearance	Murky	IDEM Sample	#: AB10439 /ater Depth	✓ Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		quatic Life?	Canopy Closed %	_
Sampler Comments:	_ How Estimated:		quatio Elic:	Canopy Closed 70	0.2070
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		83.5	%		ASTM D888-09(C)
DO		9.58	mg/L		ASTM D888-09(C)
pH (Field)		7.67	SU		EPA 150.2
Specific Conductance (Field)		543	umho/cm		SM2510B
Temperature		8.35	°C		SM2550B(2)
Turbidity (Hach)		15	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		27	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # AB16439		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		5475	MPN/100mL	10	SM9223B
E. coli		160.7	MPN/100mL	1	SM9223B

Thursday, July 30, 2015 Page 424 of 433

	Sample Date: 04/3	30/2014	IDEM Sample	#: AB16511	
Water Flow Type Glide	Water Appe	earance Murky	· \	Water Depth	☐ Algae?
Water Flow (cf/sec):	☐ Flow Est	imated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat		79.	1 %		ASTM D888-09(C)
DO		8.	6 mg/L		ASTM D888-09(C)
pH (Field)		7.4	9 SU		EPA 150.2
Specific Conductance (Field)		43	8 umho/cm		SM2510B
Temperature		11.3	6 °C		SM2550B(2)
Turbidity (Hach)		76.	8 NTU		EPA 180.1
Air Temp			3 Lookup		Observation
Sky Conditions			2 Lookup		Observation
Wind Direction			7 Lookup		Observation
Wind Strength			2 Lookup		Observation
wind Ottorigut			2 Lookup		Observation
Lab ID # AB16511		Result		Reporting Limit	<u>Method</u>
E. coli		1203.	3 MPN/100mL	1	SM9223B
Lab ID # AB16511a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		1986	3 MPN/100mL	10	SM9223B
Coliforms (Total) SiteID: WMI-03-0008 Water Flow Type Glide	Sample Date: 05/0	07/2014	IDEM Sample		SM9223B ✓ Algae?
SiteID: WMI-03-0008 Water Flow Type Glide	-	07/2014 earance Murky	IDEM Sample	#: AB16830	✓ Algae?
SiteID: WMI-03-0008	Water Appe	07/2014 earance Murky	IDEM Sample	#: AB16830 Water Depth	✓ Algae?
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec):	Water Appe	07/2014 earance Murky	IDEM Sample \(\) Aquatic Life?	#: AB16830 Water Depth	✓ Algae?
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appe	07/2014 earance Murky imated?	IDEM Sample \(\) Aquatic Life?	#: AB16830 Water Depth Canopy Closed %	✓ Algae? 0-20% Method
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments:	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life?	#: AB16830 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID #	Water Appe	07/2014 earance Murky imated? A Result 72. 7.7	IDEM Sample Aquatic Life?	#: AB16830 Water Depth Canopy Closed %	Algae? 0-20% Method ASTM D888-09(C)
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life? 8 % 6 mg/L	#: AB16830 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C)
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field)	Water Appe	07/2014 earance Murky imated? A Result 72. 7.7 7.4 61	IDEM Sample Aquatic Life? 8 % 6 mg/L 8 SU	#: AB16830 Water Depth Canopy Closed %	✓ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature	Water Appe	07/2014 parance Murky imated? A Result 72. 7.7 7.4 61 12.2	IDEM Sample Aquatic Life? 8 % 6 mg/L 8 SU 0 umho/cm	#: AB16830 Water Depth Canopy Closed %	■ Algae? 0-20% Method ASTM D888-09(C) ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
SiteID: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat DO pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach)	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life? 8 % 6 mg/L 8 SU 0 umho/cm 8 °C 1 NTU	#: AB16830 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: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life? Representation of the second se	#: AB16830 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: WMI-03-0008 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 Appe	07/2014 earance Murky imated? A Result 72. 7.7 7.4 61 12.2 16.	IDEM Sample Aquatic Life? 8 % 6 mg/L 8 SU 0 umho/cm 8 °C 1 NTU 4 Lookup 2 Lookup	#: AB16830 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: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life? Representation of the second se	#: AB16830 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: WMI-03-0008 Water Flow Type Glide Water Flow (cf/sec): Sampler Comments: Lab ID # % Sat	Water Appe	07/2014 earance Murky imated?	IDEM Sample Aquatic Life? Representation of the second se	#: AB16830 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
SiteID: WMI-03-0008 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 Appe	07/2014 earance Murky imated? A Result 72. 7.7 7.4 61 12.2 16. Result	IDEM Sample Aquatic Life? Representation of the second se	#: AB16830 Nater 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

Thursday, July 30, 2015 Page 425 of 433

	Water Appearance	Brown		Water Depth	☐ Algae?
Water Flow Type Glide				•	_
Water Flow (cf/sec):	☐ Flow Estimated?	∟ Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #	!	Result		Reporting Limit	Method
% Sat		68.9	%		ASTM D888-09(C
DO		7	mg/L		ASTM D888-09(C
pH (Field)		7.08	SU		EPA 150.2
Specific Conductance (Field)		382	umho/cm		SM2510B
Temperature		14.64	°C		SM2550B(2)
Turbidity (Hach)		205	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 # 3027269	Į.	Result		Reporting Limit	<u>Method</u>
Alkalinity (as CaCO3)		92	mg/L	1	SM2320B
Chloride		22	mg/L	6	EPA 300.0
Solids, Suspended Total, (TSS)		89	mg/L	10	SM2540D
Solids, Total (TS)		420	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		300	mg/L	10	SM2540C
Sulfate		30	mg/L	15	EPA 300.0
Lab ID # 3027270	<u>!</u>	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)		170	mg/L	0.66	SM2340B
Calcium (Total)		48	mg/L	0.1	EPA 200.7
Magnesium (Total)		12	mg/L	0.1	EPA 200.7
Lab ID # 3027271	!	Result		Reporting Limit	Method
Nitrogen, Ammonia		0.8	mg/L	0.1	SM4500NH3-D
Lab ID # 3027272	!	<u>Result</u>		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite		6	mg/L	0.1	EPA 353.2
Lab ID # 3027273	<u> </u>	<u>Result</u>		Reporting Limit	<u>Method</u>
Phosphorus, Total		0.73	mg/L	0.05	SM4500P-E
Lab ID # 3027274		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 426 of 433

Lab ID # AA17839		Result		Reporting Limit	Method
COD		68	mg/L	10	EPA 410.4
TKN		2.4	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB16963a		Result		Reporting Limit	Method
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
E. coli		> 24196	MPN/100mL	24196	SM9223B
SiteID: WMI-03-0008	Sample Date: 06/11/2014		IDEM Sample	#: AB17391	
Nater Flow Type Run	Water Appearance	Brown	W	ater 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		71.5			ASTM D888-09(C)
DO			mg/L		ASTM D888-09(C)
pH (Field)		7.19			EPA 150.2
Specific Conductance (Field)			umho/cm		SM2510B
Temperature		18.25			SM2550B(2)
Turbidity (Hach)			NTU		EPA 180.1
Air Temp			Lookup		Observation
Sky Conditions			Lookup		Observation
Wind Direction			Lookup		Observation
Wind Strength		2	Lookup		Observation
Lab ID # 3042665		Result		Reporting Limit	Method
Alkalinity (as CaCO3)			mg/L	1	SM2320B
Chloride			mg/L	2	EPA 300.0
Solids, Suspended Total, (TSS)			mg/L	10	SM2540D
Solids, Total (TS)			mg/L	10	SM2540B
Solids, Total Dissolved (TDS)			mg/L	10	SM2540C
Sulfate		31	mg/L	5	EPA 300.0
Lab ID # 3042666		Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)			mg/L	0.66	SM2340B
Calcium (Total)			mg/L	0.1	EPA 200.7
Magnesium (Total)		15	mg/L	0.1	EPA 200.7
Lab ID # 3042667		Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia		0.4	mg/L	0.1	SM4500NH3-D
Lab ID # 3042668		Result		Reporting Limit	<u>Method</u>

Thursday, July 30, 2015 Page 427 of 433

Result

Reporting Limit

Method

Lab ID # 3042669

Lab ID # 3042669		Result		Reporting Limit	<u>ivietnoa</u>
Phosphorus, Total		0.3	mg/L	0.05	SM4500P-E
Lab ID # 3042670		Result		Reporting Limit	Method
TOC		11	mg/L	0.5	SM5310C
Lab ID # AA20572		Result		Reporting Limit	Method
COD			mg/L	10	EPA 410.4
TKN		2	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17391		<u>Result</u>		Reporting Limit	<u>Method</u>
E. coli	-	866.4	MPN/100mL	1	SM9223B
Lab ID # AB17391a		Result		Reporting Limit	<u>Method</u>
Coliforms (Total)		> 24196	MPN/100mL	24196	SM9223B
Water Flow (cf/sec): Sampler Comments:	☐ Flow Estimated?	✓ Aq	quatic Life?	Canopy Closed %	0-20%
Lab ID #		Result		Reporting Limit	<u>Method</u>
% Sat					
DO		54.1	%		ASTM D888-09(C)
50			% mg/L		ASTM D888-09(C) ASTM D888-09(C)
pH (Field)			mg/L		
		4.87 7.51	mg/L		ASTM D888-09(C)
pH (Field)		4.87 7.51	mg/L SU umho/cm		ASTM D888-09(C) EPA 150.2
pH (Field) Specific Conductance (Field)		4.87 7.51 797 20.47 17.1	mg/L SU umho/cm °C NTU		ASTM D888-09(C) EPA 150.2 SM2510B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp		4.87 7.51 797 20.47 17.1	mg/L SU umho/cm °C NTU Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2)
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		4.87 7.51 797 20.47 17.1 5	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		4.87 7.51 797 20.47 17.1 5 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions		4.87 7.51 797 20.47 17.1 5 1	mg/L SU umho/cm °C NTU Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction		4.87 7.51 797 20.47 17.1 5 1	mg/L SU umho/cm °C NTU Lookup Lookup Lookup	Reporting Limit	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3)		4.87 7.51 797 20.47 17.1 5 1 27 1 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup	1	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3) Chloride		4.87 7.51 797 20.47 17.1 5 1 27 1 Result	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup		ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS)		4.87 7.51 797 20.47 17.1 5 1 27 1 Result 270 60 <10	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup	1 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		4.87 7.51 797 20.47 17.1 5 1 27 1 Result 270 60 < 10 520	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS)		4.87 7.51 797 20.47 17.1 5 1 27 1 Result 270 60 < 10 520 500	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B SM2540C
pH (Field) Specific Conductance (Field) Temperature Turbidity (Hach) Air Temp Sky Conditions Wind Direction Wind Strength Lab ID # 3060276 Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS)		4.87 7.51 797 20.47 17.1 5 1 27 1 Result 270 60 < 10 520 500	mg/L SU umho/cm °C NTU Lookup Lookup Lookup Lookup Lookup Lookup	1 10 10 10	ASTM D888-09(C) EPA 150.2 SM2510B SM2550B(2) EPA 180.1 Observation Observation Observation Observation Method SM2320B EPA 300.0 SM2540D SM2540B

Thursday, July 30, 2015 Page 428 of 433

Lab ID # 3060277	Result		Reporting Limit	<u>Method</u>
Hardness (as CaCO3)	330	mg/L	0.66	SM2340B
Calcium (Total)		mg/L	0.1	EPA 200.7
Magnesium (Total)		mg/L	0.1	EPA 200.7
Lab ID # 3060278	Result		Reporting Limit	Method
Nitrogen, Ammonia	0.2	mg/L	0.1	SM4500NH3-D
Lab ID # 3060279	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.7	mg/L	0.1	EPA 353.2
Lab ID # 3060280	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.22	mg/L	0.05	SM4500P-E
Lab ID # 3060281	Result		Reporting Limit	<u>Method</u>
TOC	11	mg/L	0.5	SM5310C
Lab ID # AA22956	Result		Reporting Limit	Method
COD	26	mg/L	10	EPA 410.4
TKN	1.3	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB17565	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	298.7	MPN/100mL	1	SM9223B

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

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

Sampler Comments: Q6 Turb: 14.5 NTU

ab ID #	<u>Result</u>	Repo	orting Limit Method
% Sat	35.6 %	%	SM4500-OG
DO	3.24 n	ng/L	SM4500-OG
pH (Field)	7.58 S	SU	EPA 150.2
Specific Conductance (Field)	802 u	umho/cm	SM2510B
Temperature	18.49 °	°C	SM2550B(2)
Turbidity	14.5 N	NTU	SM2130B Mod
Air Temp	4 L	_ookup	Observation
Sky Conditions	3 L	_ookup	Observation
Wind Direction	27 L	_ookup	Observation
Wind Strength	1 L	_ookup	Observation

Thursday, July 30, 2015 Page 429 of 433

SiteID: WMI-03-0008 **Sample Date:** 08/20/2014 **IDEM Sample #**: AB18753

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

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

Sampler Comments:

Reporting Limit Metho % ASTM D888- mg/L ASTM D888- SU EPA 150 umho/cm SM2510	-09(C)
mg/L ASTM D888- SU EPA 150 umho/cm SM2510	` '
SU EPA 150 umho/cm SM2510	-00(C)
umho/cm SM2510	-03(C)
).2
	В
°C SM2550B	3(2)
NTU EPA 180).1
Lookup Observati	ion
Reporting Limit Metho	<u>d</u>
mg/L 1 SM2320	В
mg/L 10 EPA 300	0.0
mg/L 10 SM2540	D
mg/L 10 SM2540	В
mg/L 10 SM2540	C
mg/L 25 EPA 300	0.0
Reporting Limit Metho	<u>d</u>
mg/L 0.66 SM2340	В
mg/L 0.1 EPA 200).7
mg/L 0.1 EPA 200).7
Reporting Limit Metho	<u>od</u>
mg/L 0.1 SM4500NF	13-D
Reporting Limit Metho	<u>od</u>
mg/L 0.1 EPA 353	3.2
Reporting Limit Metho	<u>d</u>
mg/L 0.05 SM4500P	P-E
Reporting Limit Metho	<u>d</u>
mg/L 0.5 SM5310	С
	Nethon

Thursday, July 30, 2015 Page 430 of 433

SiteID: WMI-03-0008 Sample Date: 09/17/2014 IDEM Sample #: AB19068 SM9223B	Lab ID # AA25818		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) S2419.6 MPN/100mL 2419.6 SM9223B				-		
E. coli 290.9 MPN/100mL 1 SM9223B	Lab ID # AB18753		Result		Reporting Limit	<u>Method</u>
Water Flow Type Run Water Appearance Other Water Depth ✓ Algae? Water Flow (ct//sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20% Campler Comments: Water color stained brown with tanning. Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Water color stained brown with tanning. Method Agrin Deserting Limit Method **Sampler Comments: Water Color stained brown with tanning. Agrin Deserting Limit Method **Sampler Comments: Water Color stained brown with tanning. Agrin Deserting Limit Method ***Color Do 2.21 mg/L ASTM D888-09(C) ASTM D88-09(C) ASTM D88-09(C) ASTM D88-09(C)						
Nater Flow (cf/sec):	SiteID: WMI-03-0008	Sample Date: 09/17/2014		IDEM Sample	#: AB19068	
Result Reporting Limit Method	Water Flow Type Run	Water Appearance	Other	V	Vater Depth	✓ Algae?
Wast 21 %	Water Flow (cf/sec): Sampler Comments: Water of			quatic Life?	Canopy Closed %	0-20%
DO	Lab ID#		Result		Reporting Limit	<u>Method</u>
PH (Field) 7.31 SU	% Sat		21	%		ASTM D888-09(C)
Specific Conductance (Field) 391 umho/cm SM2510B	DO		2.21	mg/L		ASTM D888-09(C)
Temperature 13.39 °C SM2550B(2) Turbidity (Hach) 8.23 NTU EPA 180.1 Air Temp 3 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 1 Lookup Observation Lab ID # 3105708 Result Reporting Limit Method Alkalinity (as CaCO3) 150 mg/L 1 SM2320B Chloride 11 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7	pH (Field)		7.31	SU		EPA 150.2
Turbidity (Hach)	Specific Conductance (Field)		391	umho/cm		SM2510B
Air Temp Sky Conditions Sky Conditions Wind Direction Wind Strength Lab ID # 3105708 Result Reporting Limit Method Alkalinity (as CaCO3) Chloride Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total Dissolved (TDS) Solids, Total Dissolved (TDS) Sulfate Result Reporting Limit Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D	Temperature		13.39	°C		SM2550B(2)
Sky Conditions Wind Direction Wind Direction Wind Strength Wind Strength Lookup Observation Observ	Turbidity (Hach)		8.23	NTU		EPA 180.1
Wind Direction Wind Strength 27 Lookup 1 Lookup Observation Observation Lab ID # 3105708 Result Reporting Limit Method Alkalinity (as CaCO3) Chloride 150 mg/L 11 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) Solids, Total Dissolved (TDS) Sulfate 230 mg/L 230 mg/L 20 mg/L 20 mg/L 3105709 10 SM2540D SM2540C EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Method Hardness (as CaCO3) Calcium (Total) Magnesium (Total) 12 mg/L 0.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	Air Temp		3	Lookup		Observation
Wind Strength 1 Lookup Observation Lab ID # 3105708 Result Reporting Limit Method Alkalinity (as CaCO3) 150 mg/L 1 SM2320B Chloride 11 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D	Sky Conditions		1	Lookup		Observation
Lab ID # 3105708 Result Reporting Limit Method Alkalinity (as CaCO3) Chloride 150 mg/L 11 mg/L 10 mg/L 10 SM2540D Solids, Suspended Total, (TSS) Solids, Total (TS) Solids, Total (TS) Solids, Total Dissolved (TDS) Solids, Total Dissolved (TDS) Sulfate 230 mg/L 20 mg/L 20 mg/L 20 mg/L 10 SM2540B 10 SM2540C 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) Calcium (Total) Magnesium (Total) 170 mg/L 49 mg/L 20 mg/L 3105710 0.66 SM2340B 20 mg/L 20 mg/L	Wind Direction		27	Lookup		Observation
Alkalinity (as CaCO3) Chloride Chloride 11 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D	Wind Strength		1	Lookup		Observation
Chloride 11 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	Lab ID # 3105708		Result		Reporting Limit	Method
Solids, Suspended Total, (TSS) 10 mg/L 10 SM2540D Solids, Total (TS) 230 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method	Alkalinity (as CaCO3)		150	mg/L	1	SM2320B
Solids, Total (TS) 230 mg/L 10 SM2540B	Chloride		11	mg/L	10	EPA 300.0
Solids, Total Dissolved (TDS) 230 mg/L 10 SM2540C Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method Result Reporting Limit Result Reporting Limit Method Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Result Reporting Limit Reporting Limit Result Reporting Limit Reporting Limit Result Reporting Limit Report	Solids, Suspended Total, (TSS)			-	10	SM2540D
Sulfate 20 mg/L 5 EPA 300.0 Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	, ,			-		
Lab ID # 3105709 Result Reporting Limit Method Hardness (as CaCO3) 170 mg/L 0.66 SM2340B Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method				-		
Hardness (as CaCO3)	Sulfate		20	mg/L	5	EPA 300.0
Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	Lab ID # 3105709		Result		Reporting Limit	Method
Calcium (Total) 49 mg/L 0.1 EPA 200.7 Magnesium (Total) 12 mg/L 0.1 EPA 200.7 Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	Hardness (as CaCO3)		170	mg/L	0.66	SM2340B
Lab ID # 3105710 Result Reporting Limit Method Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method				-	0.1	EPA 200.7
Nitrogen, Ammonia 0.1 mg/L 0.1 SM4500NH3-D Lab ID # 3105711 Result Reporting Limit Method	Magnesium (Total)		12	mg/L	0.1	EPA 200.7
Lab ID # 3105711 Result Reporting Limit Method	Lab ID # 3105710		Result		Reporting Limit	<u>Method</u>
	Nitrogen, Ammonia		0.1	mg/L	0.1	SM4500NH3-D
Nitrogen, Nitrate+Nitrite < 0.1 mg/L 0.1 EPA 353.2	Lab ID # 3105711		Result		Reporting Limit	<u>Method</u>
	Nitrogen, Nitrate+Nitrite		< 0.1	mg/L	0.1	EPA 353.2

Thursday, July 30, 2015 Page 431 of 433

Coliforms (Total) S419.6 MPN/100mL 2419.6 SM9223B SiteID: WMI-03-0008 Sample Date: 10/29/2014 IDEM Sample #: AB19251 Water Flow Type Glide Water Appearance Other Water Depth ✓ Algae? Water Flow (cf/sec):	Lab ID # 3105712		Result		Reporting Limit	Method
TOC 15 mg/L 0.5 SM5310C	Phosphorus, Total		0.5	mg/L	0.05	SM4500P-E
COD	Lab ID# 3105713		Result		Reporting Limit	<u>Method</u>
COD TKN 1.6 mg/L 10 EPA 410.4	TOC		15	mg/L	0.5	SM5310C
TKN	Lab ID # AA28066		Result		Reporting Limit	<u>Method</u>
Coliforms (Total) Sample Date: 10/29/2014 IDEM Sample #: AB19251	COD		42	mg/L	10	EPA 410.4
SiteID: WMI-03-0008 Sample Date: 10/29/2014 IDEM Sample #: AB19251	TKN		1.6	mg/L	0.3	SM4500N(Org)-B
E. coli 98.5 MPN/100mL 1 SM9223B	Lab ID # AB19068		Result		Reporting Limit	<u>Method</u>
SiteID: WMI-03-0008 Sample Date: 10/29/2014 IDEM Sample #: AB19251	Coliforms (Total)		> 2419.6	MPN/100mL	2419.6	SM9223B
Nater Flow Type Glide Water Appearance Other Water Depth ✓ Algae? Nater Flow (cf/sec): ☐ Flow Estimated? ☐ Aquatic Life? Canopy Closed % 0-20% Sampler Comments: Stream had a red tint. Result Reporting Limit Method Lab ID # Result Reporting Limit Method % Sat 52 % ASTM D888-09(and Depth (Field) ASTM D888-09(and D88-09(and D88-09(and D88-09(and D89-09(and	E. coli		98.5	MPN/100mL	1	SM9223B
Nater Flow (cf/sec):	SiteID: WMI-03-0008	Sample Date: 10/29/2014	4	IDEM Sample	e#: AB19251	
Result Reporting Limit Method	Vater Flow Type Glide	Water Appearance	e Other	,	Water Depth	✓ Algae?
Result Reporting Limit Method					-	_
Result Reporting Limit Method			ır 🗆 Ad	quatic Life?	Canopy Closed %	0-20%
Sat 52 % ASTM D888-09	oampier Comments. Stream	nau a reu iiri.				
DO	Lab ID #		Result		Reporting Limit	<u>Method</u>
pH (Field) 7.21 SU EPA 150.2 Specific Conductance (Field) 626 umho/cm SM2510B Temperature 9.37 °C SM2550B(2) Turbidity (Hach) 30.4 NTU EPA 180.1 Air Temp 3 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540B Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280	% Sat		52	%		ASTM D888-09(C)
Specific Conductance (Field) 626 umho/cm SM2510B Temperature 9.37 °C SM2550B(2) Turbidity (Hach) 30.4 NTU EPA 180.1 Air Temp 3 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540B Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	DO		5.94	mg/L		ASTM D888-09(C)
Temperature	pH (Field)		7.21	SU		EPA 150.2
Turbidity (Hach) 30.4 NTU EPA 180.1 Air Temp 3 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Lab ID # 3130640 Result Reporting Limit Method Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7						SM2510B
Air Temp 3 Lookup Observation Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Wind Strength 3 Lookup Observation Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Colids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Result Reporting Limit Method Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Temperature					SM2550B(2)
Sky Conditions 1 Lookup Observation Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Lab ID # 3130640 Result Reporting Limit Method Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Turbidity (Hach)		30.4	NTU		EPA 180.1
Wind Direction 27 Lookup Observation Wind Strength 3 Lookup Observation Lab ID # 3130640 Result Reporting Limit Method Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Air Temp		3	Lookup		Observation
Lab ID # 3130640 Result Reporting Limit Method Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Sky Conditions		1	Lookup		Observation
Lab ID # 3130640 Result Reporting Limit Method Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Wind Direction		27	Lookup		Observation
Alkalinity (as CaCO3) 230 mg/L 1 SM2320B Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Wind Strength		3	Lookup		Observation
Chloride 31 mg/L 10 EPA 300.0 Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Lab ID # 3130640		Result		Reporting Limit	<u>Method</u>
Solids, Suspended Total, (TSS) 25 mg/L 10 SM2540D Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Alkalinity (as CaCO3)		230	mg/L	1	SM2320B
Solids, Total (TS) 440 mg/L 10 SM2540B Solids, Total Dissolved (TDS) 410 mg/L 10 SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Chloride		31	mg/L	10	EPA 300.0
Solids, Total Dissolved (TDS) 410 mg/L 10 mg/L SM2540C Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Solids, Suspended Total, (TSS)		25	mg/L	10	SM2540D
Sulfate 50 mg/L 25 EPA 300.0 Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Solids, Total (TS)		440	mg/L	10	SM2540B
Lab ID # 3130641 Result Reporting Limit Method Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Solids, Total Dissolved (TDS)		410	mg/L	10	SM2540C
Hardness (as CaCO3) 280 mg/L 0.66 SM2340B Calcium (Total) 80 mg/L 0.1 EPA 200.7	Sulfate		50	mg/L	25	EPA 300.0
Calcium (Total) 80 mg/L 0.1 EPA 200.7	Lab ID # 3130641		Result		Reporting Limit	<u>Method</u>
	Hardness (as CaCO3)	-	280	mg/L	0.66	SM2340B
				-	0.1	
	Magnesium (Total)		19	mg/L	0.1	EPA 200.7

Thursday, July 30, 2015 Page 432 of 433

Lab ID # 3130642	Result		Reporting Limit	<u>Method</u>
Nitrogen, Ammonia	0.4	mg/L	0.1	SM4500NH3-D
Lab ID # 3130643	Result		Reporting Limit	<u>Method</u>
Nitrogen, Nitrate+Nitrite	0.2	mg/L	0.1	EPA 353.2
Lab ID # 3130644	Result		Reporting Limit	<u>Method</u>
Phosphorus, Total	0.57	mg/L	0.05	SM4500P-E
Lab ID # 3130645	Result		Reporting Limit	<u>Method</u>
TOC	30	mg/L	2.5	SM5310C
Lab ID # AA31641	Result		Reporting Limit	<u>Method</u>
COD	62	mg/L	10	EPA 410.4
TKN	3.1	mg/L	0.3	SM4500N(Org)-B
Lab ID # AB19251	Result		Reporting Limit	<u>Method</u>
E. coli	193.5	MPN/100mL	1	SM9223B
Lab ID # AB19251a	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	24196	MPN/100mL	10	SM9223B

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

Thursday, July 30, 2015 Page 433 of 433