

FDEP FORM FD 9000-3: PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

SAMPLE ID 75348 ORG ID 219 WASP LATITUDE 30.583196
 COUNTY CADSDEN STORET # 31010050 LONGITUDE -84.880575
 DATE 12/16/15 TIME 1305 SAMPLING AGENCY FDEP/AEQA
 SITE NAME CROOKED CREEK
 FIELD ID/NAME CRICK CRKREF RECEIVING BODY OF WATER APALACHICOLA RIVER

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) <u>1.3</u>
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>5</u> m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>7/8m</u> Right Bank: <u>7/8m</u>				Hydrologic Modification Score (per FT 3101) <u>2</u>		<u>7.33</u> m/s <u>7.33</u> m/s <u>7.33</u> m/s	
High Water Mark: <u>6.4</u> + <u>0.4</u> = <u>0.8</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		<u>0.3</u> m deep <u>0.4</u> m deep <u>0.3</u> m deep	
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%)			

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):		Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐																																									
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY																																										
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ABUNDANCE			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐																																										
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Iron/Sulfur Bacteria:	☒	☐	☐	☐																																									

SAMPLING TEAM

JACKSON, LOONEY

SIGNATURE:

J. A. J.

DATE:

12/16/15

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: <u>FDEP-ARQA</u>		STORET STATION NUMBER: <u>31010050</u>	DATE (MM/DD/YY): <u>12/16/15</u>	RECEIVING BODY OF WATER: <u>APALACHICOLA</u>
REMARKS: <u>ECOREF</u>	COUNTY: <u>GADSDEN</u>	LOCATION: <u>CROOKED CREEK</u>	FIELD ID/NAME: <u>CRKREF</u>	

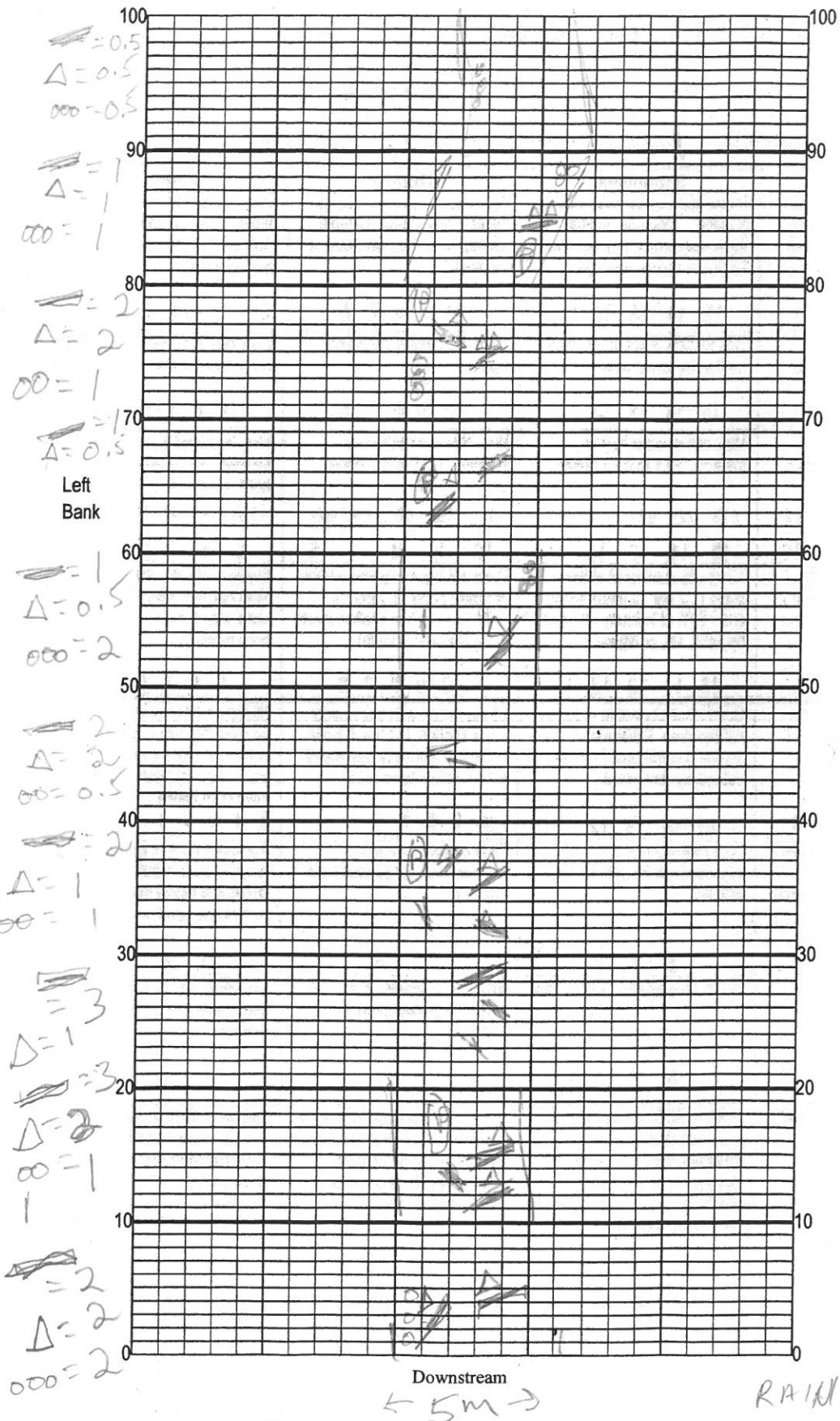
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>14</u>	20 19 18 17 16	15 <u>14</u> 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>8</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 <u>8</u> 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>18</u> Primary Score <u>60</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>10</u> Secondary Score <u>80</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. <u>10</u> 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

140

TOTAL SCORE

Date: <u>12/16/15</u>	Analyst: <u>JOY JACKSON</u>	Signature: <u>JA</u>
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DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet



Location: CROOKED CREEK
Date: 12/16/15
Sampler: L. OLNEY

100 m: Latitude _____
Longitude _____
0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance.		%
	Snags	<u>3.5</u>
	Roots/undercut banks	<u>1.8</u>
	Leaf Packs (or mats)	<u>2.5</u>
	Aquatic Macrophytes	<u>0</u>
	<u>SAND</u>	<u>92.2</u>
	Pools	total # observed = <u>5</u> # range expected = <u>3</u>

Average width 5 m
Average depth 0.2 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

FDEP FORM 9000-25: RAPID PERIPHYTON SURVEY FIELD SHEET

Site: 12/16/15 CROOKED CREEK

County: Collier

Date: 12/16/15

Investigators: L. L. NELSON, J. JACKSON

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6, X)	Estimated	Canopy Cover					
0	1	N			40	1	N			80	1	N			80	1	N			80				
	2	N				2	N				2	N				2	N				2	N		
	3	N				3	N				3	N				3	N				3	N		
	4	N				4	N				4	N				4	N				4	N		
	5	N				5	N				5	N				5	N				5	N		
	6	N				6	N				6	N				6	N				6	N		
	7	N				7	N				7	N				7	N				7	N		
	8	N				8	N				8	N				8	N				8	N		
	9	N				9	N				9	N				9	N				9	N		
10	1	N			50	1	N			90	1	N			90	1	N			90				
	2	N				2	N				2	N				2	N				2	N		
	3	N				3	N				3	N				3	N				3	N		
	4	N				4	N				4	N				4	N				4	N		
	5	N				5	N				5	N				5	N				5	N		
	6	N				6	N				6	N				6	N				6	N		
	7	N				7	N				7	N				7	N				7	N		
	8	N				8	N				8	N				8	N				8	N		
	9	N				9	N				9	N				9	N				9	N		
20	1	N			60	1	N			100	1	N			100	1	N			100				
	2	N				2	N				2	N				2	N				2	N		
	3	N				3	N				3	N				3	N				3	N		
	4	N				4	N				4	N				4	N				4	N		
	5	N				5	N				5	N				5	N				5	N		
	6	N				6	N				6	N				6	N				6	N		
	7	N				7	N				7	N				7	N				7	N		
	8	N				8	N				8	N				8	N				8	N		
	9	N				9	N				9	N				9	N				9	N		
30	1	N			50	1	N			50	1	N			50	1	N			50				
	2	N				2	N				2	N				2	N				2	N		
	3	N				3	N				3	N				3	N				3	N		
	4	N				4	N				4	N				4	N				4	N		
	5	N				5	N				5	N				5	N				5	N		
	6	N				6	N				6	N				6	N				6	N		
	7	N				7	N				7	N				7	N				7	N		
	8	N				8	N				8	N				8	N				8	N		
	9	N				9	N				9	N				9	N				9	N		

points ranked 4-6: 0
total points assessed: 99
% points ranked 4-6: 0

Secchi depth: VOB

Check accompanying data collected at same site/date.
Algal mat sample: —
Habitat Assessment: —
Linear Veg. Survey: —
SCI/Biorecon (circle 1): —
Water sample: —
RQ: 2015-11-16-64

Algal Thickness Rank	
N	rough, no algae; slimy, algae to 1 mm
3	>1mm - 6 mm
4	>6 - 20 mm
5	>20 mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.
Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.
Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.
Collect an algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

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Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2015-11-16-64
SCI Reference sites

Requester: Larry Olney
Collected By: AEGA
Sampling Agency: FDEP
Field Report Prepared By: Joy Jackson
Send Final Report To: Joy Jackson

Customer: BSSP
Project ID: SCIREF
PMAS:

Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Longitude	Latitude	dd	dms	dd	dms	Sample Depth	m	ft	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Collection (comp begin or grab)	Composite end Date	Time	Eastern Central	Bottle Group(s)**
	FLAT CREEK		ELICK FLTREF	12.62								6.44			0.1	10.72	58	31010142			A, B

Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Longitude	Latitude	dd	dms	dd	dms	Sample Depth	m	ft	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Collection (comp begin or grab)	Composite end Date	Time	Eastern Central	Bottle Group(s)**
	CROOKED CREEK		CRKREF	15.05								6.98			0.1	9.91	28	1305			A, B

Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Longitude	Latitude	dd	dms	dd	dms	Sample Depth	m	ft	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Collection (comp begin or grab)	Composite end Date	Time	Eastern Central	Bottle Group(s)**
	FIELD BLANK		BLANK																		C

Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Longitude	Latitude	dd	dms	dd	dms	Sample Depth	m	ft	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Collection (comp begin or grab)	Composite end Date	Time	Eastern Central	Bottle Group(s)**

Relinquished By: [Signature]	Date/Time: 12/16/15	Shipping Method:	Received By: [Signature]	Date/Time: 12/16/15
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* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

3.38

Group: A	Bottle Type: MI-FW-QLDC	P-J-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: ALKALINITY TURBIDITY W-COLOR W-TDS W-TSS	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: ECOL-18QT	P-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: FCOLI-MF	P-120ML-OC	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: PCR-HF183	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-SUC-AA-R	BG-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-SUC-AA-R	BG-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1

Date of Request: 03-NOV-2015
 Created By: OLNEY_L On: 03-NOV-2015
 Modified By: MILLER_EB On: 04-NOV-2015
 Customer: BSSP
 Project: SCIREF
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: SCI Reference sites

Send Coolers To:

Phone: 850-245-8504
 2600 Blair Stone Rd.

 Tallahassee, FL 32399-2400
 Attn: Larry Olney

Program Module Number:
 Priority: 3
 Event Status: P
 Criminal Investigation: NO
 Chemistry Request Reviewed By:
 Biology Request Reviewed By: MILLER_EB On: 04-NOV-2015
 Sampling Kit Required: YES Ship on: 03-NOV-2015
 Sampling Kit Shipped:
 Sampling Kit Packed By:
 Preservatives Needed: NO
 Date to Receive Samples: 16-NOV-2015
 Received By:

Send Final Report To:

2600 Blair Stone Rd.

 Tallahassee, FL 32399-2400
 Attn: Joy Jackson

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: PCR-HF183 added to Suite B.
 Suite C is for field blanks.
 Log Suite A as a separate event, Priority 12.

Bottle Group A (Biological) With 2 Samples:

Bottle Type: PJ-2L Number of Bottles: 4 Preserved With: Formalin
 MI-FW-QLDC Template: (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.
 *Stream Condition Index (SCI)

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-1L Number of Bottles: 2 Preserved With: ICE
 ALKALINITY Template: DEFAULT (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO₃/L
 Total Alkalinity
 TURBIDITY Template: DEFAULT (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
 Turbidity
 W-COLOR Template: DEFAULT (SM 2120 B) True Color measured at 450 nm
 Color (true)
 W-TDS Template: DEFAULT (SM 2540 C-97) Total Dissolved Solids in aqueous matrices
 TDS
 W-TSS Template: DEFAULT (SM 2540 D-97) Total Suspended Solids in aqueous matrices
 TSS

Bottle Type: BP-1L Number of Bottles: 2 Preserved With: ICE
 CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
 Chlorophyll/Phaeophytin Ratio
 Chlorophyll-a, Corrected
 Chlorophyll-a, Uncorrected
 Phaeophytin-a

Bottle Type: ECOLI-18QT Number of Bottles: 2 Preserved With: ICE
 Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

*Escherichia Coli-Quanti-Tray

Bottle Type: P-120ML-OC Number of Bottles: 2 Preserved With: ICE

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-120ML-OC Number of Bottles: 2 Preserved With: ICE
 FCOLI-MF Template: DEFAULT (SM 9222 D) Fecal coliforms by membrane filter method - non-chlorinated water systems
 Fecal Coliforms-Membrane Filter

Bottle Type: QPCR-P-250ML Number of Bottles: 4 Preserved With: ICE
 PCR-HF183 Template: DEFAULT (SOP-PCR01) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

*HF183-qPCR

Bottle Type: P-500ML Number of Bottles: 2 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 Ammonia-N

W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 NO2NO3-N

W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 Total-P

W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
 Kjeldahl Nitrogen

W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
 Organic Carbon

Bottle Type: BG-1L Number of Bottles: 2 Preserved With: ICE
 W-SUC-AA-R Template: DEFAULT (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS
 *Sucralose

Bottle Group C (Water) With 1 Samples:

✓ Bottle Type: BG-1L Number of Bottles: 1 Preserved With: ICE
 W-SUC-AA-R Template: DEFAULT (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS
 *Sucralose

✓ Bottle Type: P-500ML Number of Bottles: 1 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 Ammonia-N

W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 NO2NO3-N

W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 Total-P

W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
 Kjeldahl Nitrogen

W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
 Organic Carbon

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.