



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes No

January 2019

WIN Station Name:

Jones Creek At Monument Road

Date:

2/26/19

WIN/ Field ID:

20030671 G2NE1190

WBID:

2246

Latitude:

30.34219

(nm/dd/yyyy)

County:

Duval

ORG ID:

21FLA

Longitude:

81.5375

(Decimal Degrees)

Receiving Body of Water:

SJR

RQ:

2019-02-25-09

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
J. Parnish					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
B. Davis					☒	☒	☒	☒	☒	☐ Carboy	☐ Syringe			
					☒	☒	☒	☒	☒	☐ Dipper	☐ Other			
										Depth Measured with <u>YSI #3</u>				
										Equipment ID <u>045044</u>				
										Collection Method				
										☒ Wading	☐ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# <u>YSI #3</u>					Matrix: Fresh Marine / DI				
Photos: Yes No					Flow: No Flow / Intertidal / <u>Flowing</u> / NA					Tide: Rising/ Falling/ Slack/ NA				
Tide Times: High Low														
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)				
EST	1015	0.35	0.3	0.35	7.48	78.1	7.16	0.13	267	17.4				
CEN														
Biological Samples Collected: None HA <u>SCI</u> <u>RPS</u> Algae ID <u>LVS</u> LVI Other:														
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:														
Parameter Suite		Parameter Methods					Preservation		Lot#	Expiration	pH Check			
Preserved Nutrients		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP					☒ Ice ☐ H2SO4		<u>SA8274050</u>	<u>10/1/19</u>	☒ <2			
Metals		☒ W-ICPMS ☒ W-ICP					☐ Ice ☒ HNO3		<u>NA8080070</u>	<u>3/21/19</u>	☒ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice		<u>R7KA29007</u>					
Chlorophyll		☒ CHLSUITE-W					☒ Ice							
Physical/Aggregate (Fresh)		☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-C-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS					☒ Ice							
Physical/Aggregate (Marine)		☐ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY					☐ Ice							
Macroinvertebrates		☒ MI-FW-QDLC					☒ Formalin							
Periphyton		☐ ALGAE-ID					☐ Ice							
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☒ Ice							
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2					☐ Ice							
		☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice							
Tracers		☒ W-E8321-DI ☒ W-E8321-MS					☐ Ice							
Pesticides		☒ W-PSNP-TQ ☒ W-CT-CL-R ☒ W-E8321-DI					☒ Ice							
		☒ W-PCL-SQ-R ☒ WE8321-MS ☐ W-CARB-AA					☐ Ice							
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice							

Notes:

30.34503 30.34501
81.53754 SCI
KIT

Signature:

B. Davis

WIN / Field ID:



20030671

Jones Creek AT Monument Road

Arboretum trail

2/26/19

LIMS EVENT ID:

2019-02-27-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

2/26/19

QC Station ID, Field Parameters In LIMS DMT:

OR 2/4/19

Scan/Save Field Sheets

5/5/19

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Jones Creek at bore hole	Date: 2/26/19	County: Duval	Storet Number: 62 NE 1190
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Analyst: _____ Signature: *[Signature]*

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

[illegible]

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Jones Creeke Arboretum trail County: Duval Date: 2/26/19 Investigators: J. P. Smith

Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	STORET Station Number:
0	1	N	N	96	60	1	N	N	96	62NE1190
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
10	1	N	N	80	70	1	N	N	96	Secchi depth
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
20	1	N	N	90	80	1	N	N	88	Estimated?
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
30	1	N	N	96	90	1	N	N	96	# points ranked 4-6
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
40	1	N	N	96	100	1	N	N	96	total points assessed
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
50	1	N	N	84	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 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%.					% points ranked 4-6
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									

Secchi depth

Estimated?

points ranked 4-6

total points assessed

% points ranked 4-6

Check accompanying data collected at same site/date.

Algal mat sample

Linear Veg Survey

Habitat Assessment

SCI/Biorecon

Water sample

RQ-

Algal Thickness Rank

N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

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

AK 79236 ✓

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: G2NE1190	DATE (MM/DD/YY): 2/26/19	RECEIVING BODY OF WATER: LSJR
REMARKS:	COUNTY: Duvall	LOCATION:	FIELD ID/NAME:	

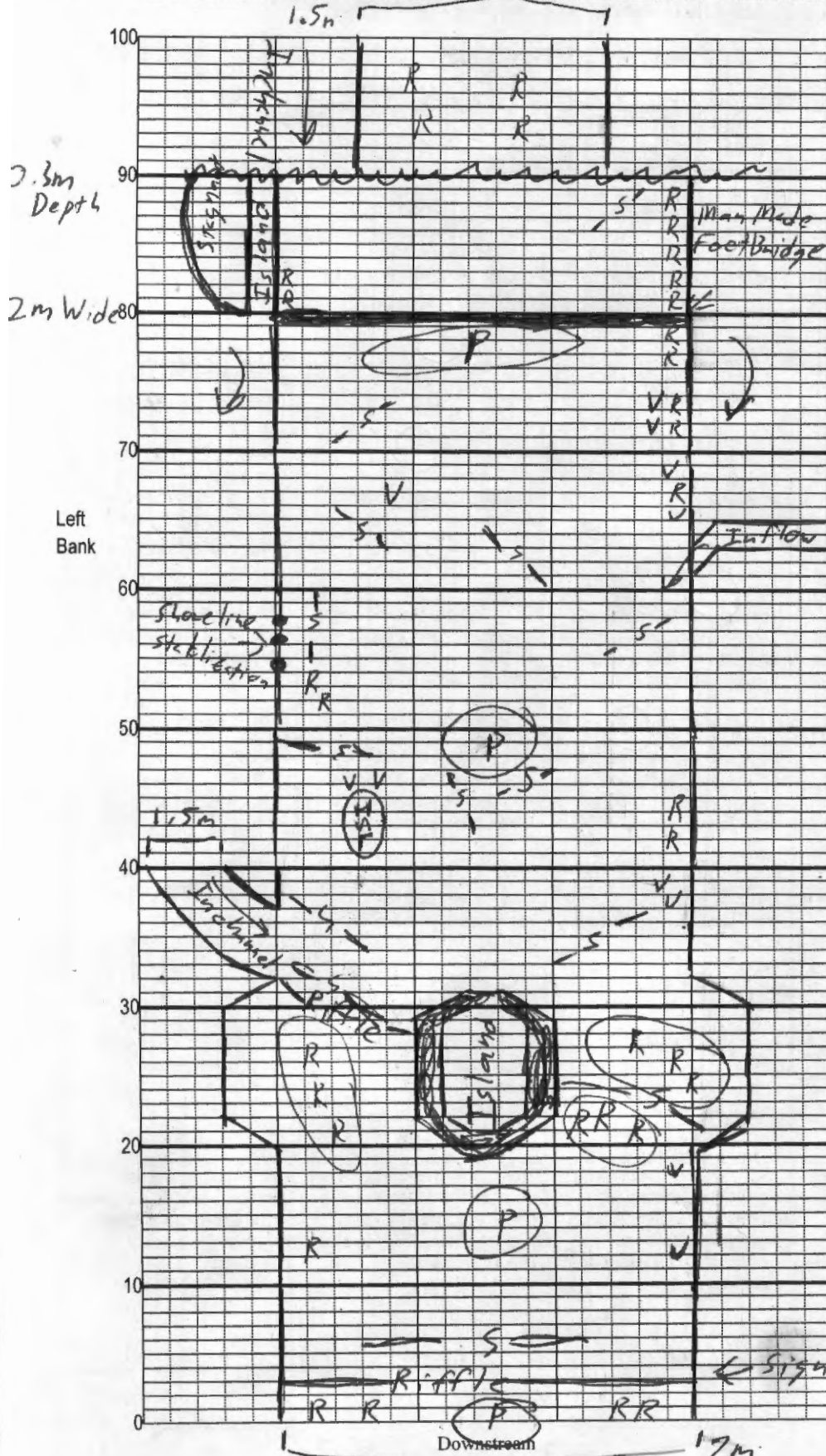
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh 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>9</u>	20 19 18 17 16	15 14 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 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>14</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 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>12</u> Primary Score <u>43</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>19</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	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.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>6</u> Left Bank <u>6</u>	10 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <u>10</u> Left Bank <u>8</u>	10 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <u>9</u> Left Bank <u>8</u> Secondary Score <u>66</u>	10 9	8 7 6	5 4	3 2 1

109

TOTAL SCORE

Date: 2/26/19	Analyst: Brian Davis	Signature: B. Davis
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Jones Creek
 Date: 2/26/15
 Sampler: BD, JP

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

Substrates: Code key, draw proportionate habitat abundance. %

☐ S	Snags	2.75
☐ R	Roots/undercut banks	6
☐ L	Leaf Packs (or mats)	
☐ V	Aquatic Macrophytes	<1%
☐		
☐		
☐ P	Pools	total # observed = 4 # range expected = 4

Average width 2.0 m
 Average depth 0.3 m

Velocity measured at 70 meter mark.

WQ & chemistry taken at 70 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:

< 2 M of Macrophytes was observed while doing the LVS? YES or NO

R=2.0n
 S=1.0n

Significant Drop. 2 0.6n

S=5.5n
 R=12n
 V=0.65n
 200n = 2.75%
 6%
 <1%

Length of grid represents 100 m of stream (not linear meters).
 (Horizontal scale is double vertical scale, draw proportionately).

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Collected By: Jeremy ParrishField Report Prepared By: Jeremy ParrishSampling Agency: FREP NE ROC

Location	WIN / Field ID:  20030671	☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID	<u>Jones Creek At Monument Road</u>	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/ST		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	
Location	<u>Jones creek @ Arboretum Trail</u>	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/26/19</u> Time <u>10:15</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>7.48</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #	<u>G2NE1190</u>	Temp (C) <u>17.4</u>	pH <u>7.16</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>267</u>
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.13</u>	Comments	
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	

Relinquished By: <u>J. Parrish</u>	Date/Time: <u>2/26/19 1600</u>	Shipping Method: <u>Redex</u>	Number of Coolers Shipped: <u>1</u>	Received By: _____	Date/Time: _____
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Group:	A	Bottle Type:	P-1L	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
		ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS							
Group:	A	Bottle Type:	BP-1L	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
		CHLSUITE-W							
Group:	A	Bottle Type:	P-250ML-WI-THI	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
		NE-ALS-ECQ							
Group:	A	Bottle Type:	BG-500ML	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
		W-E8321-DI W-E8321-MS							
Group:	A	Bottle Type:	P-500ML	# of Bottles:	2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	<u>1</u>
		W-ICP W-ICPMS							
Group:	A	Bottle Type:	P-500ML	# of Bottles:	2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
		W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC							
Group:	A	Bottle Type:	P-125ML	# of Bottles:	2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
		W-PO4-F							
Group:	A	Bottle Type:	BG-1L	# of Bottles:	6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>3</u>
		W-PSNP-TQ							
Group:	B	Bottle Type:	PT-50ML	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>0</u>
		ALGAL_ID							
Group:	B	Bottle Type:	PJ-2L	# of Bottles:	4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	<u>2</u>

Group: B

Bottle Type:

PJ-2L

of Bottles: 4

Preservative:

Formalin

Enter Number of Bottles Sent to Lab

2

MI-FW-QLDC

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

SR #

ALS Contact: Jerry Allen

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