



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 10

Data Qualified?

Yes / No

STORET Station Name: Wakulla River at CR 365 Bridge

Date: 8/17/2016

(mm/dd/yyyy)

STORET Station ID: 34879

WBID: 1006

Latitude: 30.213731

(Decimal Degrees)

County: Wakulla

RQ - 2016-08-15-75

ORG ID: 21FLWQA

Longitude: -84.261636

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: 34879

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson					X	X			☐ Sample Container	☐ Van Dorn	☐ Pole	
Ben Ralys				X			X	X	☐ Carboy	☒ Syringe		
Diana Turner						X			☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	☐ Via Boat		
									☐ From Shore	☐ Canoe/Kayak		
									☐ Other (note below)	☐ Electric Motor		
										☒ Gasoline Motor		
Water Level: Dry / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI								
Meter ID# Biology #2				Photos: Yes / <u>No</u>				Tide Falling: Yes / No / <u>NA</u>				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)		
EST	1400	0.3	2.2	6.51	76	7.69	0.14	VOB	301	23.06		
CEN												
Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>LVS</u> <u>RPS</u> LVI Other												
Parameter Suite		Parameter Methods				Preservation		Acid Lot#		Expiration	pH Check	
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4		6168040		6/16/17	☒ <2	
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		5259030		9/16/16	☒ <2	
Filtered Nutrients		☒ W-P04-F ☒ Field Filtered 0.45 µm Filter				☒ Ice						
Chlorophyll		☒ CHLSUITE-W				☒ Ice						
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice						
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin						
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR				☐ Ice						
Periphyton		☒ ALGAE-ID				☒ Ice						
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Ice ☐ Other						

Contains 1:1 Nitric Acid NA-5259030 EXP: 09/16/16 Warning! See MSDS

Contains 1:1 Sulfuric Acid SA-6168040 EXP: 06/16/17 Warning! See SDS

Notes:

No SCI, Strong weather

SBFO-ID: 76727

Macrophyte-ID:

RPS-ID: 8287

10031



34879 17 Aug 2016

Wakulla River at CR 365 Bridge

Signature:

Date:

8/17/2016

Field Parameters Entered into LIMS:

Cm 8-19-2016

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

Cm 8-24-16

(Initials/Date)

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

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: <u>34879</u>	DATE (MM/DD/YY): <u>8/17/16</u>	RECEIVING BODY OF WATER: <u>St. Marks</u>
REMARKS:	COUNTY: <u>Wakulla</u>	LOCATION: <u>Wakulla River at CR 365 Bridge</u>	FIELD ID/NAME: <u>34879</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag Leaf Aquatic Vegetation Roots Rock Substrate Diversity <u>9</u>	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 <u>9</u> 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability <u>18</u> <u>65</u> %	Greater than 30% major productive habitat present at site (100% 83% 66% 48% 30.5%) 20 19 <u>18</u> 17 16	16% to 30% major productive habitat, by aerial extent (30.4% 27% 23% 20% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u> _____ m/s	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>13</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 <u>13</u> 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 Artificial Channelization <u>20</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. <u>20</u> 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</u> If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	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. (+,+,+) <u>10</u> 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>8</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>9</u> ----- Secondary Score <u>77</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. 10 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

137

TOTAL SCORE

Date: <u>8/17/2016</u>	Analyst: <u>Curtis Messon</u>	Signature: <u>Curtis Messon</u>
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S BIO-ID: 76727

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Wakulla River at CR 365 Bridge</u>					County: <u>Wakulla</u>		Date: <u>8/17/16</u>		Investigators: <u>Curtis Mosson Ben Ralys</u>	
									STORET Station Number: <u>34879</u>	

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	2	0		60	1	3	0	
	2	2				2	2		
	3	2				3	2		
	4	2		0		4	2		0
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
10	1	2			70	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2		0		4	2		0
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
20	1	2			80	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2		0		4	2		0
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
30	1	2			90	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2		0		4	2		0
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
40	1	2			100	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2		0		4	2		0
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
50	1	2			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.				
	2	2			Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.				
	3	2			Record canopy cover as the number of small densimeter quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.				
	4	2		0	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%.				
	5	2							
	6	2							
	7	2							
	8	2							
	9	2							

Secchi depth	<u>VoB</u>
Estimated?	<u>no</u>

# points ranked 4-6	<u>30</u>
total points assessed	<u>99</u>
% points ranked 4-6	<u>30%</u>

Check accompanying data collected at same site/date.	
Algal mat sample	<u>Y</u>
Linear Veg Survey	<u>Y</u>
Habitat Assessment	<u>Y</u>
SCI/Biorecon	<u>No</u>
Water sample	<u>Y</u>
RQ- <u>2016-08-15-75</u>	

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

SBIO-ID: 76727
RPS-ID: 8287

Waterbody: <u>Wakulla River at CR 365 Bridge</u>	Date: <u>8/17/16</u>	County: <u>Wakulla</u>	Storet Number: <u>34879</u>
Analyst: <u>Curtis Mussen, Ben Rabus</u>		Signature: <u></u>	
Comments: <u>SMP Sampling</u>			

[illegible][illegible]

Macrophyte-ID: 10031

Macrophyte QC Report

STORET: 34879

Visit ID: 76727

Macrophyte ID: 10031

LIMS ID:

Sample Date: 8/17/2016

Collector Name:

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
<i>Boehmeria cylindrica</i>	P	P	P	P		P				P	CM
<i>Cicuta maculata</i>	P	P	P		P	P	P		P	P	CM
<i>Hymenocallis</i>									P		CM
<i>Lobelia cardinalis</i>										P	CM
<i>Mikania scandens</i>	P	P	P	P	P	P	P	P	P	P	CM
<i>Myriophyllum heterophyllum</i>	P	P		P	P	P	P	P	P		CM
<i>Polygonum glabrum</i>	P	P	P	P	P			P	P		CM
<i>Polygonum hydropiperoides</i>	P				P		P	P	P		CM
<i>Pontederia cordata</i>	P	P	P	P	P	P	P	P	P	P	CM
<i>Rhynchospora inundata</i>	P	P	P		P	P	P	P	P	P	CM
<i>Rumex verticillatus</i>								P	P		CM
<i>Sagittaria kurziana</i>			P		P					P	CM
<i>Sagittaria lancifolia</i>	P		P	P	P	P	P		P	P	CM
<i>Typha</i>	P		P	P	P	P			P	P	CM
<i>Vallisneria americana</i>	D	D	D	D	D	D	D	D	D	D	CM
<i>Zizania aquatica</i>	P	P		P	P		P				CM 8-24-16

This data has not been fully approved at this time.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter Biology #2

RQ- 2016-08-15-75

Project SMP

Pass
Boldly "X" this box if there is qualified data on this name.

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 06/03/2016

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	8/17/16	0706	22.45	8.660	8.67	100.0	—	—	P	L
ICV	Curtis Musson	8/17/16	0707	22.45	8.660	8.71	100.5	51.2	—	P	L
CCV	Ben Tzaly	8/17/16	1515	23.4	8.51	9.33	109.6			F	L
CCV	Blyke Spencer	8/18/16	0732	22.25	8.693	8.70	100.0	49.2	—	P	L

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	8/17/16	0710	160330D	4/2017	1000	1000	P	L
ICV	Curtis Musson	8/17/16	0711	160330D	4/2017	1000	1001	P	L
CCV	Curtis Musson	8/17/16	1522	2601533	12/2017	100	99	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	8/17/16	0713	160330B	10/2017	7.0	7.00	-20.0	P	L
Calibr.	Curtis Musson	8-17-16	0716	160330A	4/2017	4.01	4.01	158.9	P	L
Calibr.	Curtis Musson	8-17-16	0718	160330C	10/2017	10.01	9.98	-188.6	P	L
ICV	Curtis Musson	8-17-16	0719	160330C	10/2017	10.01	9.98	-187.4	P	L
CCV	Curtis Musson	8/17/16	1525	160330B	10/2017	7.00	7.06	-20.1	P	L
CCV	Blyke Spencer	8/18/16	0732	CA						

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

Central Laboratory Submittal Form

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Curtis Mussen

Project ID: BMAP

Collected By:

Ben Ralys, Curtis Mussen

Sampling Agency:

FDEP

Location		Wakulla River at Boat Tram		Collection (comp begin or grab)		Date 8-17-16		Time 11:25		Composite end		Date		Time		Bottle Group(s)	
Field ID		44059-08172016		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		mg/L		Total Res. Chlorine					
STORET #		44059		Temp (C)		21.58		pH		7.63		Sample Depth		ft		Sp. Conductance (umho/cm)	
Latitude		30.234581		Longitude		-84.294477		Salinity (ppt)		0.14		Comments		from Wakulla River		A.B.C	
Location		Wakulla River at CR 365 Bridge		Collection (comp begin or grab)		Date 8-17-16		Time 1400		Composite end		Date		Time		Bottle Group(s)	
Field ID		34879-08172016		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.51		mg/L		Total Res. Chlorine			
STORET #		34879		Temp (C)		23.06		pH		7.69		Sample Depth		ft		Sp. Conductance (umho/cm)	
Latitude		30.213731		Longitude		-84.261636		Salinity (ppt)		0.14		Comments		Wakulla River		A.C	
Location				Collection (comp begin or grab)		Date		Time		Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				mg/L		Total Res. Chlorine			
STORET #				Temp (C)				pH				Sample Depth		ft		Sp. Conductance (umho/cm)	
Latitude				Longitude				Salinity (ppt)				Comments					
Location				Collection (comp begin or grab)		Date		Time		Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				mg/L		Total Res. Chlorine			
STORET #				Temp (C)				pH				Sample Depth		ft		Sp. Conductance (umho/cm)	
Latitude				Longitude				Salinity (ppt)				Comments					
Location				Collection (comp begin or grab)		Date		Time		Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				mg/L		Total Res. Chlorine			
STORET #				Temp (C)				pH				Sample Depth		ft		Sp. Conductance (umho/cm)	
Latitude				Longitude				Salinity (ppt)				Comments					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Mussen	8-17-16/15:21	DROP OFF	1 cooler / 2.5 CT Tubs	ABR	08-17-16 15:21

Cooler Packing Worksheet for Request: RQ-2016-08-15-75

Wakulla River

Ship Cooler On: 8/12/2016

Customer/Project: WQAP/BMAP

Requester: Benjamin Ralys

Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

No preservatives needed.

Bottle Group A: freshwater kits including metals

Bottle Group B: Biology SCI

Bottle Group C: Biology Algal

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00065181

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00064947

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00064947

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 2 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 2

Container ID: PJ-2L

Qty: 4 Preservation: Formalin

Lot # B10-WASH

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Bottle Group: C

of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

Description

Cooler Packed By: <u>MR</u>	Date: <u>8/16/16</u>
DEP Cooler ID #(s): <u>1 Redcooler</u>	

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-08-15-75