

Key Largo

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SE-DIST

Requester: Jordan Skaggs

Field Report Prepared By:

Jordan Skaggs

Project ID: SMP

Collected By:

Jordan Skaggs, Matt Sewell

Sampling Agency:

FDEP

Location <u>Barnes Sound Southeast of Main Key</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1305</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID <u>G5SE0053</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>7.2</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		A	
STORET # <u>G5SE0053</u>		Temp (C) <u>25.9</u>	pH <u>7.9</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>47633</u>			
Latitude <u>25.229167</u>	☒ dd ☐ dms	Longitude <u>-80.389000</u>	☒ dd ☐ dms	Salinity (ppt) <u>31.0</u>	Comments				
Location <u>Manatee Bay @ Center</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1330</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)	
Field ID <u>G5SE0052</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>7.6</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		A	
STORET # <u>G5SE0052</u>		Temp (C) <u>25.9</u>	pH <u>8.0</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>43868</u>			
Latitude <u>25.25069</u>	☒ dd ☐ dms	Longitude <u>-80.41868</u>	☒ dd ☐ dms	Salinity (ppt) <u>28.2</u>	Comments				
Location <u>Blackwater Sound - Northern Bay</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1400</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)	
Field ID <u>G5SE0056</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>8.0</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		A	
STORET # <u>G5SE0056</u>		Temp (C) <u>26.2</u>	pH <u>7.9</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>43891</u>			
Latitude <u>25.184667</u>	☒ dd ☐ dms	Longitude <u>-80.425669</u>	☒ dd ☐ dms	Salinity (ppt) <u>28.3</u>	Comments				
Location <u>Little Blackwater Sound @ Center</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1420</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)	
Field ID <u>G5SE0055</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>8.0</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		A	
STORET # <u>G5SE0055</u>		Temp (C) <u>26.3</u>	pH <u>8.0</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>38419</u>			
Latitude <u>25.211680</u>	☐ dd ☐ dms	Longitude <u>-80.443320</u>	☒ dd ☐ dms	Salinity (ppt) <u>24.4</u>	Comments				

Relinquished By: <u>FDEP</u>	Date/Time <u>10/19/16 1700</u>	Shipping Method <u>Fedex</u>	Number of Coolers Shipped: <u>2</u>	Received By: <u>MS</u>	Date/Time <u>10-20-16 1614</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-F						
	W-TSS						

Group: A	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	CHLSUITE-W						

Group: A	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						

Group: A	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-PO4-F						

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Field Report Prepared By:

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Project ID: SMP

Collected By:

Jordan Skaggs, Matt Sewell

Sampling Agency:

FDEP

Location <u>Long Sound - Western Bay</u>		☒ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1445</u>		☒ Eastern ☒ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) <u>A</u>
Field ID <u>G5SE0054</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>6.1</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		
STORET # <u>G5SE0054</u>		Temp (C) <u>26.5</u>	pH <u>7.9</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>39738</u>		
Latitude <u>25.221791</u>	☒ dd ☐ dms	Longitude <u>-80.48518</u>	☒ dd ☐ dms	Salinity (ppt) <u>25.3</u>	Comments			
Location <u>Long Sound - Western Bay</u>		☒ Comp ☒ Grab	Collection (comp begin or grab) Date <u>10/19/16</u> Time <u>1450</u>		☒ Eastern ☒ Central	Composite end Date _____ Time _____		Bottle Group(s) <u>A</u>
Field ID <u>field duplicate @ G5SE0054</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>salt</u>		Diss. Oxygen <u>6.1</u>	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		
STORET # <u>field duplicate @ G5SE0054</u>		Temp (C) <u>26.5</u>	pH <u>7.9</u>	Sample Depth <u>0.3</u>	☐ ft ☐ m	Sp. Conductance (umho/cm) _____		
Latitude <u>25.221791</u>	☒ dd ☐ dms	Longitude <u>-80.48518</u>	☒ dd ☐ dms	Salinity (ppt) <u>25.3</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)		
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)		
STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:

FDEP

Date/Time

10/19/16 1700

Shipping Method

Fedex

Number of Coolers Shipped:

2

Received By:

[Signature]

Date/Time

10-20-16/10-14

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
ALKALINITY TURBIDITY W-CL-IC W-F W-TSS				
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
CHLSUITE-W				
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>6</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC				
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab <u>6</u>
W-PO4-F				

Date of Request: 29-AUG-2016
 Created By: SKAGGS_J On: 29-AUG-2016
 Modified By: WATTS_J On: 13-OCT-2016
 Customer: SE-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Southeast District
 Sampling Event: Key Largo

Send Coolers To:

Phone: (772) 579-3039
 FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Jordan Skaggs

Program Module Number: 1306
 Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 08-SEP-2016
 Biology Request Reviewed By: MATTHEWS_D On: 08-SEP-2016
 Sampling Kit Required: YES Ship on: 20-SEP-2016
 Sampling Kit Shipped: YES On: 19-SEP-2016
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: YES
 Date to Receive Samples: 20-OCT-2016
 Received By: SHAIK_A On: 20-OCT-2016

Send Final Report To:

FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Jordan Skaggs

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

Comments: 1 - case of sulfuric acid
 1 - case of nitric acid

Bottle Group A (Water) With 6 Samples:

Bottle Type: P-1L	Number of Bottles: 6	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
Bottle Type: BP-1L	Number of Bottles: 6	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 6	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO ₂ NO ₃	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 6	Preserved With: ICE-FLTR
W-PO ₄ -F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Log-in Checklist

RQ- 2016-09-26-1

Shipping Method: Fed Exp

Date/Time of Receipt: 10-20-16 10:14

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
			Yes	No	Yes	No	
Red	1.1C	12		/			7844 0181 1204
Red	0.7C	12		✓			7844 0181 1215

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

****Note:** If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

****Chain of Custody/ Field Sheet(s) Included?** Yes ☒ No ☐

CONTAINER CHECK

****Evidence Tape on Bottles?** Yes ☐ No ☒ If yes, is it intact? Yes ☐ No ☐

****Caps on tight?** Yes ☒ No ☐ ****Containers intact?** Yes ☒ No ☐

****Sufficient Sample Volume:** Yes ☒ No ☐

CHLORINE CHECK (Blue dot on container)

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PC-AA-SF		
W-AHERB-AA (-AHB-AA-R)			W-PCL-SQ (-R)		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PESTNP-R		
W-ENDO-AA			W-PSCL-TQ		
W-GLYPH			W-PSNP-TQ		
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)			W-TR-TQ		
W-PCB-R					

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

****Acid Preserved Samples:** pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: ABJ

****W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?** Yes ☐ No ☐ NA ☒ Init:

Coolers Unpacked/Checked by: ABJ Date: 10-20-16 NCRs (Y/N)?

Event ID: Key Largo
SE-DIST-2016-10-20-02 (SMP)
Date Received: 20-OCT-2016 10:14
 NCR #

Log-in Checklist

Samples with Incorrect pH Preservation or presence of Chlorine

Field ID	Bottle Test ID(s)	pH / Cl	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes_____ No_____

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____ No_____

If no, were samples shipped on dry ice? Yes_____ No_____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):

Samples preserved within 48 hours? Yes_____ No_____

Date and time samples preserved: _____

Additional Comments: