

SMP_Orange-2/17

Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: SE-DIST

Requester: Jordan Skaggs

Field Report Prepared By: Matt Seal

Project ID: SMP

Collected By: Tom W. P. ClSampling Agency: 21FWPB

Location <u>Florida city canal (FC-09)</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>02/18/16</u> Time <u>12:15</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID <u>G4SEFC09_02182016</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>fresh</u>		Diss. Oxygen <u>4.6</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # <u>G4SEFC09</u>		Temp (C) <u>24.5</u>	pH <u>7.3</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>577</u>
Latitude <u>25.447924</u> ☒ dd ☐ dms	Longitude <u>-80.411906</u> ☒ dd ☐ dms	Salinity (ppt) <u>0.28</u>	Comments			
Location <u>Florida City Canal</u>		☐ Comp ☐ Grab	Collection (comp begin or grab) Date <u>2/18/16</u> Time <u>12:20</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID <u>G4SEFC09 - DUPE</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>fresh</u>		Diss. Oxygen _____	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # <u>G4SEFC09</u>		Temp (C) _____	pH _____	Sample Depth _____	☐ ft ☐ m	Sp. Conductance (umho/cm) _____
Latitude <u>25.447924</u> ☐ dd ☐ dms	Longitude <u>-80.411906</u> ☒ dd ☐ dms	Salinity (ppt) _____	Comments <u>Duplicate sample</u>			
Location <u>Florida city canal (FC-15)</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>02/18/16</u> Time <u>12:45</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID <u>G4SEFC15_02182016</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>fresh</u>		Diss. Oxygen <u>8.8</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # <u>G4SEFC15</u>		Temp (C) <u>23.1</u>	pH <u>7.4</u>	Sample Depth <u>0.3</u>	☐ ft ☐ m	Sp. Conductance (umho/cm) <u>524</u>
Latitude <u>25.4479238</u> ☒ dd ☐ dms	Longitude <u>-80.46089001</u> ☐ dd ☐ dms	Salinity (ppt) <u>0.25</u>	Comments			
Location <u>monriva canal (C-103) @ 152nd Ave</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>02/18/16</u> Time <u>13:45</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID <u>G4SE0066_02182016</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>fresh</u>		Diss. Oxygen <u>3.9</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # <u>G4SE0066</u>		Temp (C) <u>23.0</u>	pH <u>7.2</u>	Sample Depth <u>0.3</u>	☐ ft ☐ m	Sp. Conductance (umho/cm) <u>576</u>
Latitude <u>25.474500</u> ☐ dd ☐ dms	Longitude <u>-80.435833</u> ☐ dd ☐ dms	Salinity (ppt) <u>0.28</u>	Comments			

Relinquished By: <u>Matt Seal</u>	Date/Time: <u>2/18/16 17:30</u>	Shipping Method: <u>Fedex</u>	Received By: <u>Jared M.</u>	Date/Time: <u>2/19/16 9:12am</u>	Relinquished By:	Date/Time:	Received By:	Date/Time:
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Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	BOD-UNIN					
Group: A	Bottle Type:	BP-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	HNO3	Enter Number of Bottles Sent to Lab _____
	W-ICP					
	W-ICPMS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 11	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					

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Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: SE-DIST

Requester: Jordan Skaggs

Field Report Prepared By:

Matt Sewell

Project ID: SMP

Collected By: Tom W. PCL

Sampling Agency:

21FI WPB

Location C102 @ SW 248th St	☐ Comp ☐ Grab	Collection (comp begin or grab) Date 02/18/2016 Time 1430	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID G4SE0064 - 02182016	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 4.9	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
STORET # G4SE0064	Temp (C) 22.0	pH 7.3	Sample Depth 0.3	Sp. Conductance (umho/cm) 541	
Latitude 25.53655 ☒ dd ☐ dms	Longitude -80.404753 ☒ dd ☐ dms	Salinity (ppt) 0.26	Comments		
Location C-102N @ SW 248th St	☐ Comp ☐ Grab	Collection (comp begin or grab) Date 02/18/2016 Time 1455	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID G4SE0077 - 02182016	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 5.0	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
STORET # G4SE0077	Temp (C) 25.0	pH 7.3	Sample Depth 0.3	Sp. Conductance (umho/cm) 636	
Latitude 25.536972 ☒ dd ☐ dms	Longitude -80.389598 ☒ dd ☐ dms	Salinity (ppt) 0.31	Comments		
Location C-102N @ SW 248th St	☐ Comp ☐ Grab	Collection (comp begin or grab) Date 02/18/2016 Time 1500	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID G4SE0077 - DUPE	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen —	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
STORET # G4SE0077	Temp (C) —	pH —	Sample Depth —	Sp. Conductance (umho/cm)	
Latitude 25.53655 ☒ dd ☐ dms	Longitude -80.384598 ☒ dd ☐ dms	Salinity (ppt) —	Comments Duplicate Sample taken		
Location C-100 CD-06	☐ Comp ☐ Grab	Collection (comp begin or grab) Date 2/18/16 Time 1550	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID G4SECD06 - 0218/16	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 9.1	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
STORET # G4SECD06	Temp (C) 24.0	pH 7.5	Sample Depth 0.3	Sp. Conductance (umho/cm) 559	
Latitude 25.629673 ☒ dd ☐ dms	Longitude -80.31791 ☒ dd ☐ dms	Salinity (ppt) 0.27	Comments		

Relinquished By: Matt Sewell	Date/Time 02/18/16 1550	Shipping Method Fedex	Received By: Jordan M.	Date/Time 2/19/16 9:12am	Relinquished By:	Date/Time	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					

Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	BOD-UNIN					

Group: A	Bottle Type:	BP-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					

Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	HNO3	Enter Number of Bottles Sent to Lab _____
	W-ICP					
	W-ICPMS					

Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					

Group: A	Bottle Type:	P-125ML	# of Bottles: 11	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					

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Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: SE-DIST

Requester: Jordan Skaggs

Field Report Prepared By:

matt Sewell

Project ID: SMP

Collected By:

Tom W. Park

Sampling Agency:

21 FWPB

Location C-2 canal OFF Red Road		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 02/18/2016 Time 1620	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID 28040399-02182016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.2	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # 28040399		Temp (C) 23.1	pH 7.3	Sample Depth 0.3	☐ ft ☐ m	Sp. Conductance (umho/cm) 557
Latitude 25.680833 ☐ dd ☐ dms	Longitude -86.284700 ☐ dd ☐ dms	Salinity (ppt) 0.27	Comments			
Location C-2 canal Red Road @ 88th		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2/18/16 Time 1635	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID G4SE0048-02182016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.2	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # G4SE0048		Temp (C) 23.1	pH 7.3	Sample Depth 0.3	☐ ft ☐ m	Sp. Conductance (umho/cm) 561
Latitude 25.688980 ☐ dd ☐ dms	Longitude -80.284750 ☐ dd ☐ dms	Salinity (ppt) 0.27	Comments			
Location C-2 canal Red Road @ 88th		☐ Comp ☐ Grab	Collection (comp begin or grab) Date 2/18/16 Time 1640	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID G4SE0048-DUPE		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen _____	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
STORET # G4SE0048		Temp (C) _____	pH _____	Sample Depth _____	☐ ft ☐ m	Sp. Conductance (umho/cm) _____
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) _____	Comments Duplicate sample			
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: matt Sewell	Date/Time 02/14/16 1730	Shipping Method Fedex	Received By: Jordan M.	Date/Time 2/14/16 9:12am	Relinquished By:	Date/Time	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type:	P-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	BOD-UNIN					
Group: A	Bottle Type:	BP-1L	# of Bottles: 11	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	HNO3	Enter Number of Bottles Sent to Lab _____
	W-ICP					
	W-ICPMS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 11	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 11	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					

Date of Request: 28-JAN-2016
 Created By: SKAGGS_J On: 28-JAN-2016
 Modified By: WATTS_J On: 29-JAN-2016
 Customer: SE-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Southeast District
 Sampling Event: SMP_Orange-2/17

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: 29-JAN-2016
 Biology Request Reviewed By: SWANSON_C On: 29-JAN-2016
 Sampling Kit Required: YES Ship on: 04-FEB-2016
 Sampling Kit Shipped: YES On: 02-FEB-2016
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: NO
 Date to Receive Samples: 15-FEB-2016
 Received By: SHAIK_A On: 19-FEB-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:**Bottle Group A (Water) With 11 Samples:**

Bottle Type: P-1L	Number of Bottles: 11	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-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO ₄ -IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
Bottle Type: P-1L	Number of Bottles: 11	Preserved With: ICE
BOD-UNIN	Template: DEFAULT	(SM 5210 B) BOD, NOT nitrogen-inhibited
Bottle Type: BP-1L	Number of Bottles: 11	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: 11	Preserved With: HNO ₃
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template: PRTY	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Arsenic		
Cadmium		

Bottle Group A (Water) With 11 Samples:

Bottle Type: P-500ML Number of Bottles: 11 Preserved With: HNO3
W-ICPMS Template: PRTY (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Chromium
Copper
Lead
Silver

Bottle Type: P-500ML Number of Bottles: 11 Preserved With: ICE And H2SO4
W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3 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: 11 Preserved With: ICE-FLTR
W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Log-in Checklist

RQ- 2016-08-15-48

Shipping Method: Fedex

Date/Time of Receipt: 2/19/16 9:12 am

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	
Blue	0.6 c	12		✓			8085 1641 9299
Blue	1.6 c	18		✓			7824 1094 6269
Red	3.4 c	12		✓			7824 1094 6258
Red	1.4 c	12		✓			7824 1094 6270
Blue	1.7 c	12		✓			7824 1094 6249

*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: gm

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

Coolers Unpacked/Checked by: gm Date: 2/19/16 NCRs (Y/N)?

Event ID: SMP Orange-2/17 NCR #
SE-DIST-2016-02-19-01 (SMP)

Date Received: 19-FEB-2016 09:12

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

Field ID	Bottle Test ID(s)	Evidence Tape

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 – Methyl Mercury Preservation Check:

Samples Preserved within 48 hours? Yes _____ No _____

Date and time samples preserved: _____

Additional Comments: