

RQ-2018-05-14-35

Log-in Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound |

Date/Time of Receipt: 5-16-18 / 10:00

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	-0.1	15		✓			
Red	1.4	10		✓			
Red	1.2	15		✓			

*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 ☐

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes ☒ No ☐ Date

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-E8321-DI, -MS, -21		✓	W-NP-AA-SF		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)		✓	W-PCL-SQ-R		✓
W-U2060-MS			W-TR-TQ		
W-PCB-R			W-CT-CI-R		✓
W-PAH (-R)			W-PSNP-TQ		✓

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

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

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

Coolers Unpacked/Checked by: SR Date: 5-16-18

NCRs (Y/N)? N

Event ID: CEN-DIST-2018-05-16-01

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

Additional Comments:

Infrared Thermometer ID:	REC_02_2018
pH Paper 0.0 – 3.0 Lot #	230515 EXP:10-30-18
pH Paper 0 – 13 Lot #	222516 EXP:8-15-19
Chlorine Test Strips Lot #	091417V EXP:09/21

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 _____ If No _____

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Apopka / Howey / Harris X4

last revised Jan 25, 2018

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By: Terry Riordan

Project ID: SMP

Collected By: Terry Riordan / Leif Doman

Sampling Agency: 21 FL CEN

Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1037	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s) (See pg 2)
Field ID	Apopka Beauclair Canal @ 200m S of Lock (2835A1)	G1CE0025	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 2.41	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A9B
WIN/STC			Temp (C) 25.82	pH 7.26	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 472	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.23	Comments			
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1133	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Field ID	Little Lake Harris @ 1000m SE of Center (2838B)	G1CE0097	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 10.21	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/STORE			Temp (C) 25.36	pH 8.75	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 262	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.12	Comments			
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1140	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Field ID	Little Lake Harris @ Center (2838B)	G1CE0068	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 9.16	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/STORE			Temp (C) 25.17	pH 8.70	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 264	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.12	Comments			
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1153	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Field ID	Little Lake Harris @ 1000m SW of Center (2838B)	G1CE0096	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/STO			Temp (C) 25.39	pH 8.60	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 259	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.12	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Terry Riordan	5/15/18 1530	FedEx	3	SR	5/16/18 10:00

Apopka / Howey / Harris X4

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By:

Terry Riordan

Project ID: SMP

Collected By:

Terry Riordan / Leif Boman

Sampling Agency:

21 FL CEN

Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1203	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2)
Field ID	Little Lake Harris @ 2500m S of Center (2838B)			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 8.28	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/S		G1CE0098		Temp (C) 25.48	pH 8.49	Sample Depth 0.3	Sp. Conductance (umho/cm) 262	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.12	Comments			
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/15/18 Time 1213	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Double Run @ 800m DS of Double Run Rd. (2852)			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 1.71	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN/STORE		G1CE0032		Temp (C) 22.43	pH 6.64	Sample Depth 0.3	Sp. Conductance (umho/cm) 193	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.09	Comments			
Location			☐ Comp ☐ Grab	Collection (comp begin or grab) Date	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	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			
Location			☐ Comp ☐ Grab	Collection (comp begin or grab) Date	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	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Terry Riordan	5/15/18 1530	FedEx	3	SR	5-16-18/10:00



Client Name:
Address:
Project Manager:
E-Mail:
Telephone Number:

Department of Environmental Protection
3319 Maguire Blvd Suite 232, Orlando, FL 32803
Natalie Ayala / Michael Linger / Kalina Warren
Michael.Linger@dep.state.fl.us
(407) 897-4100

Contract/PO # Flowers Lab - B16975

Sampler Names:

Terry Jordan / Heif Bowen

Signature:

Site Location:

Apopka/Beaclar / DBI Run

Project Number:

RQ-2618-05-14-35

Project Name:

SMP

CONTRACT LAB - CHAIN OF CUSTODY

FIELD ID	Lab No. (Lab Use Only)	Date	Time Sampled	No. of Containers	Grab	Composite	ICE	HCL	HNO3	NONE	Groundwater	Wastewater	Drinking Water	Surface Water	Escherichia Coli (ECQ)	Enterococci (ENQ)	Fecal Coliform (FC)
G1CE0025		5/15/18	1037	1	X		X							X	X		
G1CE0032		5/15/18	1213	1	X		X							X	X		

Special Instructions: Samples are ambient water and not suspected to contain chlorine

Relinquished by:

Date

Time

Received by:

Date

Time

Comments

Temp

Upon Receipt:

100

Relinquished by:

Date

Time

Received by:

Date

Time

Sample Containers Intact?

N

Date of Request: 25-APR-2018
 Created By: LINGER_M On: 25-APR-2018
 Modified By: SWANSON_C On: 01-MAY-2018
 Customer: CEN-DIST
 Project: SMP
 Division:
 District: Central District
 Sampling Event: Apopka / Howey / Harris X4

Send Coolers To:

Phone: 407-894-4180
 FL Dept. of Environmental Protection
 3319 Maguire Blvd., Suite 232
 Orlando, FL 32803-3767
 Attn: Michael Linger

Program Module Number: 1306
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 26-APR-2018
 Biology Request Reviewed By: SWANSON_C On: 01-MAY-2018
 Sampling Kit Required: YES Ship on: 07-MAY-2018
 Sampling Kit Shipped: YES On: 06-MAY-2018
 Sampling Kit Packed By: REAVES_S
 Preservatives Needed: NO
 Date to Receive Samples: 14-MAY-2018
 Received By:

Send Final Report To:

FL Dept. of Environmental Protection
 3319 Maguire Blvd., Suite 232
 Orlando, FL 32803-3767
 Attn: Michael Linger

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

Comments: A: Apopka / Howey
 B: Apopka
 C: Harris X4

Bottle Group A (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 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-SO4-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 using a maximum of 250 mL of sample
Bottle Type: CD-FLR-ECQ	Number of Bottles: 2	Preserved With: ICE
	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District
Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 2	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		
Chromium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO3
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
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Arsenic		
Cadmium		
Copper		
Lead		
Silver		

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
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: 2	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group B (Water) With 1 Samples:

Bottle Type: BG-1L	Number of Bottles: 4	Preserved With: ICE
W-PSNP-TQ	Template: DEFAULT	(EPA 8270D) Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS
Bottle Type: BG-500ML	Number of Bottles: 1	Preserved With: CH2ClCOOH Pre-Preserved
W-CAB-AA-R	Template: DEFAULT	(EPA 8321B) Carbamates in water matrices by HPLC/MS/MS
Bottle Type: BG-500ML	Number of Bottles: 4	Preserved With: ICE
W-CT-CI-R	Template: DEFAULT	(EPA 8276) Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
W-PCL-SQ-R	Template: DEFAULT	(EPA 8270D) Organochlorine pesticides in water matrices by GC/MS-SIM
Bottle Type: BG-500ML	Number of Bottles: 1	Preserved With: ICE
W-E8321-DI	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group C (Water) With 4 Samples:

Bottle Type: P-1L	Number of Bottles: 4	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/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-SO4-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 using a maximum of 250 mL of sample
Bottle Type: BP-1L	Number of Bottles: 4	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 4	Preserved With: HNO3
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		
Chromium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group C (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: HNO3
W-ICPMS Template: (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Arsenic
Cadmium
Copper
Lead
Silver

Bottle Type: P-500ML Number of Bottles: 4 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: 4 Preserved With: FILTER-ICE
W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

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

Do Not Lift Using This

ORIGIN ID: TLHA (407) 897-4180
MICHAEL LINGER

3319 MAGUIRE BLVD STE 232

ORLANDO, FL 32803
UNITED STATES US

SHIP DATE: 06MAY18
ACTWGT: 20.00 LB MAN
CAD: 0446970/CAFE3111

TO **JOHN WATTS**
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

TALLAHASSEE FL 32399

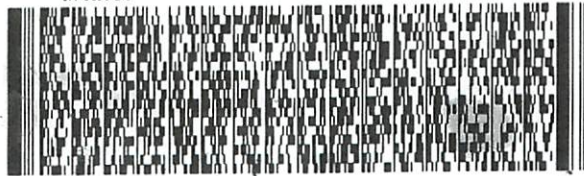
(850) 245-8077

REF:

INU:

DEPT:

RMA: ||| ||| |||



FedEx
Express



546C2/782B/53C1

FedEx

TRK#
0221

4385 5029 1687

DELIVERY MON - FRI
WED - 16 MAY 10:30A
PRIORITY OVERNIGHT

36 TLHA

32399

FL-US
TLH



FTD 5037366 15MAY18 ORLA 546C2/782B/0C8A



Do Not Lift Using This Tag

ORIGIN ID: TLHA (407) 897-4180
MICHAEL LINGER

3319 MAGUIRE BLVD STE 232

ORLANDO, FL 32803
UNITED STATES US

SHIP DATE: 06MAY18
ACTWGT: 20.00 LB MAN
CAD: 0446970/CAFE3111

TO **JOHN WATTS**
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

TALLAHASSEE FL 32399

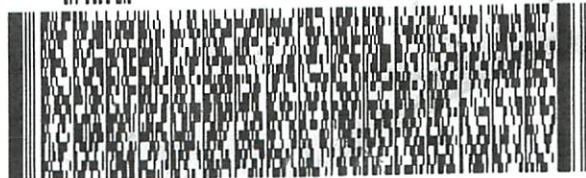
(850) 245-8077

REF:

INVT:

DEPT:

RMA: ||| ||| |||



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Express



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TRK#
0221

4385 5029 1665

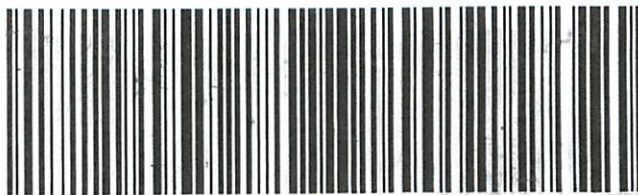
WED - 16 MAY 10:30A
PRIORITY OVERNIGHT

36 TLHA

32399

FL-US

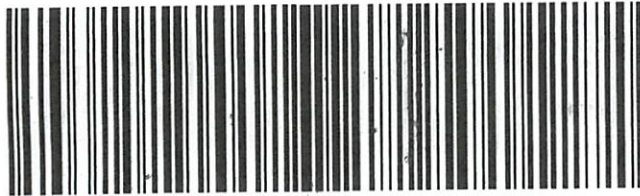
TLH



FID 5037366 15MAY18 ORLA 546C2/782B/0CBA

Part # 156148-434 RIT EXP 03/19

FTD 5037366 15MAY18 ORLA 546C2/782B/0C8A



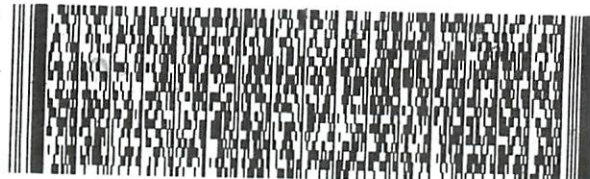
36 TLHA

32399
FL-US
TLH

FedEx
IRK# 4385 5029 1676
0221

WED - 16 MAY 10:30A
PRIORITY OVERNIGHT

J1710161020010v



RMA: 11111111

DEPT:

REF:

(850) 245-8077

TALLAHASSEE FL 32399

TO JOHN WATTS
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

546C2/782B/53C1

ORLANDO ST. US

ACTWGT: 20.00 LB MM
CAD: 0446970/CAFE3111

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