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**RESULT OF ANALYSIS**

**APPENDIX B**

**In-Situ FIELD MEASUREMENTS**

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC03-1  
 Sampled By: KT, JH, AW  
 Sampled Date: 7/15/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLEAR WEATHER; SAMPLING WENT WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: SEE LOC Sediment Collection & Preservation: 1-pint, 1-qt, 1-bag  
 Sample ID: WC03-1 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 4 Lat/Long N 27° 29.907'  
 Weather: CLEAR (NAD83) W 82° 34.875'  
 Tidal Cycle: INCOMING Sea State: CALM

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.13</u>	_____	_____
pH (units):	<u>8.37</u>	_____	_____
Salinity (ppt):	<u>5.7</u>	_____	_____
Conductivity (mS/cm):	<u>15.593</u>	_____	_____
Dis. Oxygen (mg/L):	<u>3.19</u>	_____	_____
Turbidity (NTU):	<u>0.80</u>	_____	_____

Description of Sediment Collected: SILT/SAND

Description of Water Collected: NA

Duplicate

Sheet 1 of 16

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC03-2  
 Sampled By: KT, JH, AW  
 Sampled Date: 7/15/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLEAR WEATHER; SAMPLING WENT WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: SEE LOC Sediment Collection & Preservation: 1-PINT, 1-QT, 1-BAG  
 Sample ID: WC03-2 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information Water Depth (ft): 4 Lat/Long N 27° 29.792'  
 Weather: CLEAR (NAD83) W 82° 34.726'  
 Tidal Cycle: INCOMING Sea State: CALM

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.48</u>	_____	_____
pH (units):	<u>8.41</u>	_____	_____
Salinity (ppt):	<u>4.5</u>	_____	_____
Conductivity (mS/cm):	<u>14639</u>	_____	_____
Dis. Oxygen (mg/L):	<u>2.98</u>	_____	_____
Turbidity (NTU):	<u>0.64</u>	_____	_____

Description of Sediment Collected: SILT/SAND

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCO3-3  
 Sampled By: JH, AW  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLEAR WEATHER TO MOST CLOUDY; SAMPLING WENT WELL

Sampling Zones	
1	Entrance Channel
2	Carrier Dock (N Edge)
3	West Dock
4	Basin Center

### Sediment

Sampling Time: 1828      Sediment Collection & Preservation: 1-PLAST, 1-GL, 1-BAG  
 Sample ID: WCO3-3      Number of Sediment Containers: 2  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA      Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_      Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 5  
 Weather: MOST CLOUDY

Lat/Long N 27° 29.545'  
 (NAD83) W 82° 34.801'  
 Sea State: \_\_\_\_\_

Tidal Cycle: FLOWING DOWN-STREAM

7/15/03

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.12</u>	_____	_____
pH (units):	<u>7.78</u>	_____	_____
Salinity (ppt):	<u>0.2</u>	_____	_____
Conductivity (mS/cm):	<u>12,255</u>	_____	_____
Dis. Oxygen (mg/L):	<u>3.08</u>	_____	_____
Turbidity (NTU):	<u>2.21</u>	_____	_____

Description of Sediment Collected: SILT/SAND

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCO3-4  
 Sampled By: ET/JH, AW  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

PART CLOUDY; SAMPLING WEST WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

**Sediment**

Sampling Time: 1755 Sediment Collection & Preservation: 1-PINT, 1-5L, 1-BAG  
 Sample ID: WCO3-4 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

**Station Information**

Water Depth (ft): 2 Lat/Long N 27° 29.358'  
 Weather: PART CLOUDY (NAD83) W 82° 34.922'  
 Tidal Cycle: FLOWING DOWN-STREAM Sea State: CALM

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
7/15/03 Water Temp (°C):	<u>27.62</u>	_____	_____
pH (units):	<u>7.60</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>190</u>	_____	_____
Dis. Oxygen (mg/L):	<u>4.08</u>	_____	_____
Turbidity (NTU):	<u>2.69</u>	_____	_____

Description of Sediment Collected: SILT/SAND/SHELL

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC03-5  
 Sampled By: KF, JH, AW  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

PART CLOUDY - SAMPLING WEST WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

**Sediment**

Sampling Time: 1718 Sediment Collection & Preservation: 1-PINT, 1-95, 1-BAG  
 Sample ID: WC03-5 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information Water Depth (ft): 2 Lat/Long N 27° 29.475'  
 Weather: PARTLY CLOUDY (NAD83) W 82° 34.763'  
 Tidal Cycle: FLOWING DOWN STREAM Sea State: CALM

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>27.46</u>	_____	_____
pH (units):	<u>7.60</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>193</u>	_____	_____
Dis. Oxygen (mg/L):	<u>4.15</u>	_____	_____
Turbidity (NTU):	<u>0.74</u>	_____	_____

Description of Sediment Collected: SILT/SAND/SHELL; MINOR DEBRIS

Description of Water Collected: \_\_\_\_\_

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC03-6  
 Sampled By: KT, JH, AW  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

PARTLY CLOUDY; SAMPLING WEST WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: 1650 Sediment Collection & Preservation: 1-PINT, 1-9T, 1-BAG  
 Sample ID: WC03-6 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 2 Lat/Long N 27° 28.634'  
 Weather: PARTLY CLOUDY (NAD83) W 82° 34.681'  
 Tidal Cycle: Flowing Downgradient Sea State: \_\_\_\_\_

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>27.49</u>	_____	_____
pH (units):	<u>7.58</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>213</u>	_____	_____
Dis. Oxygen (mg/L):	<u>3.67</u>	_____	_____
Turbidity (NTU):	<u>0.40</u>	_____	_____

Description of Sediment Collected: SHELL/SAND/SILT

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCO3-7  
 Sampled By: KT, AW, JH  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

Partly Cloudy; Sampling West Well

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: 1555 Sediment Collection & Preservation: 1-PINT, 1-9T, 1-BAG  
 Sample ID: WCO3-7 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CONE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 2 Lat/Long N 27° 28.414'  
 Weather: PART CLOUDY (NAD83) W 82° 34.550'  
 Tidal Cycle: Flowing Downgradient Sea State: \_\_\_\_\_

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>28.12</u>	_____	_____
pH (units):	<u>7.65</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>186</u>	_____	_____
Dis. Oxygen (mg/L):	<u>3.78</u>	_____	_____
Turbidity (NTU):	<u>0.46</u>	_____	_____

Description of Sediment Collected: SAND/SILT/SILT - Some Debris

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC03-8  
 Sampled By: KT, AW, JH  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLOUDY; DIFFICULT SAMPLING, LITTLE SILT;  
 LARGE AMOUNT DEBRIS.

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

**Sediment**

Sampling Time: 1500      Sediment Collection & Preservation: 1-PINT, 1-QT, 1-BAG  
 Sample ID: WC03-8      Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: NA      Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_      Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

**Station Information**

Water Depth (ft): 2      Lat/Long N 27° 28.255'  
 Weather: CLOUDY      (NAD83) W 82° 34.270'  
 Tidal Cycle: Flowing Downstream      Sea State: \_\_\_\_\_

7/15/03

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>28.43</u>	_____	_____
pH (units):	<u>7.62</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>187</u>	_____	_____
Dis. Oxygen (mg/L):	<u>3.22</u>	_____	_____
Turbidity (NTU):	<u>0.95</u>	_____	_____

Description of Sediment Collected: SILT/SAND/SHELL - SOME DEBRIS

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCO3-9  
 Sampled By: KT, JH, AW  
 Sampled Date: 7/14/03

**General Conditions, Observations, and/or Field Instrument Calibrations:**

<u>CLOUDY; SLIGHT RAIN; DIFFICULT SAMPLING;</u> <u>LITTLE SILT; LARGE AMOUNT DEBRIS</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sampling Zones</th> </tr> </thead> <tbody> <tr> <td>1 Entrance Channel</td> </tr> <tr> <td>2 Carrier Dock (N Edge)</td> </tr> <tr> <td>3 West Dock</td> </tr> <tr> <td>4 Basin Center</td> </tr> </tbody> </table>	Sampling Zones	1 Entrance Channel	2 Carrier Dock (N Edge)	3 West Dock	4 Basin Center
Sampling Zones						
1 Entrance Channel						
2 Carrier Dock (N Edge)						
3 West Dock						
4 Basin Center						

**Sediment**

Sampling Time: 1430      Sediment Collection & Preservation: 1-PINT, 1-9T, 1-BAG  
 Sample ID: WCO3-9      Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: NA      Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_      Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

**Station Information**

Water Depth (ft): 2      Lat/Long N 27° 27.925'  
 Weather: CLOUDY      (NAD83) W 82° 34.215'  
 Tidal Cycle: Flowing Downstream      Sea State: \_\_\_\_\_

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
<u>7/15/03</u> Water Temp (°C): <u>28.03</u> pH (units): <u>7.58</u> Salinity (ppt): <u>0.1</u> Conductivity (mS/cm): <u>170</u> Dis. Oxygen (mg/L): <u>2.86</u> Turbidity (NTU): <u>0.59</u>	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Description of Sediment Collected: SILT/SAND; SOME DEBRIS

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCO3-10  
 Sampled By: PT, JH, AW  
 Sampled Date: 7/14/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLOUDY; SAMPLING WENT WELL

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: 1344 Sediment Collection & Preservation: 1-PINT, 1-QT, 1-BAG  
 Sample ID: WCO3-10 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information Water Depth (ft): 2 Lat/Long N 27° 27.860'  
 Weather: CLOUDY (NAD83) W 82° 34.283'  
 Tidal Cycle: FLOWING DOWNSTREAM Sea State: CALM

	Near-Surface (1-ft below)	Mid-depth ( ) ft	Near-Bottom (3-ft above)
<u>7/15/03</u> Water Temp (°C):	<u>28.25</u>	_____	_____
pH (units):	<u>7.61</u>	_____	_____
Salinity (ppt):	<u>0.1</u>	_____	_____
Conductivity (mS/cm):	<u>260</u>	_____	_____
Dis. Oxygen (mg/L):	<u>2.37</u>	_____	_____
Turbidity (NTU):	<u>1.08</u>	_____	_____

Description of Sediment Collected: SILT/SAND; SOME DENIS

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCD03-1  
 Sampled By: KT, AW, JH  
 Sampled Date: 7/15/03

General Conditions, Observations, and/or Field Instrument Calibrations:

PARTLY CLOUDY; DIFFICULT; DEPTH TO  
BOTTOM +30 FT.

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: 1400 Sediment Collection & Preservation: 1-PINT, 1-qt, 15 bag  
 Sample ID: WCD03-1 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 30 Lat/Long N 27° 30.075'  
 Weather: PARTLY CLOUDY (NAD83) W 82° 33.702'  
 Tidal Cycle: INCOMING Sea State: SLIGHT CHOP

	Near-Surface (1-ft below)	Mid-depth ( <u>15</u> ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.26</u>	<u>30.41</u>	<del>14.5</del> <u>30.22</u>
pH (units):	<u>8.26</u>	<u>8.30</u>	<u>8.28</u>
Salinity (ppt):	<u>12.4</u>	<u>13.2</u>	<u>13.9</u>
Conductivity (mS/cm):	<u>14699</u>	<u>15070</u>	<u>14589</u>
Dis. Oxygen (mg/L):	<u>3.32</u>	<u>3.46</u>	<u>3.34</u>
Turbidity (NTU):	<u>1.53</u>	<u>2.88</u>	<u>4.09</u>

Description of Sediment Collected: SILT / SAND / SHELL

Description of Water Collected: NA

Sheet 11 of 16

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC003-2  
 Sampled By: KT, AW, JH  
 Sampled Date: 7/15/03

General Conditions, Observations, and/or Field Instrument Calibrations:

PARTLY CLOUDY; DIFFICULT; DEPTH  
TO BOTTOM 28 FT

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: SEE LOC Sediment Collection & Preservation: PRINT, 1 QT, 1 BAG  
 Sample ID: WC003-2 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

### Station Information

Water Depth (ft): 25 Lat/Long N 27° 30.130'  
 Weather: PARTLY CLOUDY (NAD83) W 82° 33.800'  
 Tidal Cycle: INCOMING Sea State: SLIGHT CHOP

	Near-Surface (1-ft below)	Mid-depth (14) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.19</u>	<u>30.22</u>	<u>30.40</u>
pH (units):	<u>8.10</u>	<u>8.17</u>	<u>8.15</u>
Salinity (ppt):	<u>12.9</u>	<u>13.5</u>	<u>14.2</u>
Conductivity (mS/cm):	<u>15832</u>	<u>15900</u>	<u>15890</u>
Dis. Oxygen (mg/L):	<u>3.40</u>	<u>3.49</u>	<u>3.45</u>
Turbidity (NTU):	<u>1.60</u>	<u>1.90</u>	<u>3.92</u>

Description of Sediment Collected: SILT / SAND / SHELL

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WC003-3  
 Sampled By: ET, AW, JK  
 Sampled Date: 7/15/03

General Conditions, Observations, and/or Field Instrument Calibrations:

Cloudy; Difficult; DEPTH TO BOTTOM  
~30 ft

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: SEE LOC Sediment Collection & Preservation: 1-PINT, 1-QT, 1-BAG  
 Sample ID: WC003-3 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information Water Depth (ft): 30 Lat/Long N 27° 30.082'  
 Weather: Cloudy (NAD83) W 82° 33.922'  
 Tidal Cycle: INCOMING Sea State: CHOP

	Near-Surface (1-ft below)	Mid-depth (15) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>29.82</u>	<u>29.96</u>	<u>29.90</u>
pH (units):	<u>8.14</u>	<u>8.20</u>	<u>8.18</u>
Salinity (ppt):	<u>12.1</u>	<u>13.9</u>	<u>13.8</u>
Conductivity (mS/cm):	<u>14186</u>	<u>14440</u>	<u>14401</u>
Dis. Oxygen (mg/L):	<u>3.40</u>	<u>3.41</u>	<u>3.40</u>
Turbidity (NTU):	<u>1.60</u>	<u>2.75</u>	<u>4.60</u>

Description of Sediment Collected: SILT/SAND/SHELL

Description of Water Collected: NA

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCD03-4  
 Sampled By: KT, JA, AW  
 Sampled Date: 7/16/03

General Conditions, Observations, and/or Field Instrument Calibrations:

<u>Cloudy - Partly; Difficult; Depth to Bottom ~30 ft.</u>	Sampling Zones
	1 Entrance Channel
	2 Carrier Dock (N Edge)
	3 West Dock
	4 Basin Center

**Sediment**

Sampling Time: See Coc      Sediment Collection & Preservation: 1-Filter, 1-Gr, 1-Dag  
 Sample ID: WCD03-4      Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: NA      Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_      Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information      Water Depth (ft): 20      Lat/Long N 27° 30.140'  
 Weather: Cloudy - Partly      (NAD83) W 82° 33.989'  
 Tidal Cycle: INCOMING      Sea State: Slight Chop

	Near-Surface (1-ft below)	Mid-depth (15) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>30.01</u>	<u>30.10</u>	<u>30.08</u>
pH (units):	<u>8.01</u>	<u>8.14</u>	<u>8.10</u>
Salinity (ppt):	<u>12.1</u>	<u>13.4</u>	<u>12.9</u>
Conductivity (mS/cm):	<u>14896</u>	<u>15123</u>	<u>15069</u>
Dis. Oxygen (mg/L):	<u>3.58</u>	<u>4.09</u>	<u>4.08</u>
Turbidity (NTU):	<u>2.32</u>	<u>4.80</u>	<u>5.30</u>

Description of Sediment Collected: SILT / SHAL / SAND

Description of Water Collected: NA

Duplicate

Sheet 14 of 16

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCD03-5  
 Sampled By: \_\_\_\_\_  
 Sampled Date: 7/16/03

General Conditions, Observations, and/or Field Instrument Calibrations:

Cloudy; Difficult; DEPTH TO BOTTOM ~ 26 FT

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

### Sediment

Sampling Time: SerLoc Sediment Collection & Preservation: HPWT, 1-qt, 1-bag  
 Sample ID: WCD03-5 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

### Water

Sampling Time: NA Water Container & Preservation: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_ Number of Sediment Containers: \_\_\_\_\_  
 Collection Method: \_\_\_\_\_

Station Information Water Depth (ft): 26 Lat/Long N 27-30.100'  
 Weather: Cloudy (NAD83) W 82-33.846'  
 Tidal Cycle: INCOMING Sea State: CH01

	Near-Surface (1-ft below)	Mid-depth ( <u>13</u> ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>29.82</u>	<u>29.90</u>	<u>29.90</u>
pH (units):	<u>8.10</u>	<u>8.25</u>	<u>8.10</u>
Salinity (ppt):	<u>11.9</u>	<u>12.5</u>	<u>13.0</u>
Conductivity (mS/cm):	<u>13800</u>	<u>1426</u>	<u>14101</u>
Dis. Oxygen (mg/L):	<u>2.75</u>	<u>3.00</u>	<u>2.99</u>
Turbidity (NTU):	<u>2.69</u>	<u>3.57</u>	<u>4.87</u>

Description of Sediment Collected: SILT / SHEL / SAND

Description of Water Collected: NA

Sheet 15 of 16

# Wares Creek/Manatee River Sampling Field Sheet

Advanced Technologies and Testing Laboratories  
 4445 SW 35th Terr. Suite 270  
 Gainesville, FL 32608  
 Phone: 352/378-0053

Station ID: WCDD03-6  
 Sampled By: KT, AW, JH  
 Sampled Date: 7/16/03

General Conditions, Observations, and/or Field Instrument Calibrations:

CLOUDY; DIFFICULT; DEPTH TO BOTTOM ~25 FT.

Sampling Zones
1 Entrance Channel
2 Carrier Dock (N Edge)
3 West Dock
4 Basin Center

**Sediment**

Sampling Time: SEE COC Sediment Collection & Preservation: 1 PINT, 1 QT, 1-BAG  
 Sample ID: WCDD03-6 Number of Sediment Containers: 3  
 Collection Method: VIBRATORY CORE

**Water**

Sampling Time: \_\_\_\_\_ Water Container & Preservation: \_\_\_\_\_  
 Sample ID: WCDD03-6 Number of ~~Sediment~~ Containers: 2  
 Collection Method: GRAB

Station Information Water Depth (ft): 25 Lat/Long N 27° 30.225'  
 Weather: CLOUDY (NAD83) W 82° - 33.789'  
 Tidal Cycle: INCOMING Sea State: CHOPPY

	Near-Surface (1-ft below)	Mid-depth ( <u>12</u> ) ft	Near-Bottom (3-ft above)
Water Temp (°C):	<u>29.99</u>	<u>30.06</u>	<u>30.01</u>
pH (units):	<u>8.40</u>	<u>8.41</u>	<u>8.39</u>
Salinity (ppt):	<u>13.6</u>	<u>14.0</u>	<u>13.9</u>
Conductivity (mS/cm):	<u>15632</u>	<u>15680</u>	<u>15689</u>
Dis. Oxygen (mg/L):	<u>4.82</u>	<u>4.80</u>	<u>3.90</u>
Turbidity (NTU):	<u>2.90</u>	<u>3.72</u>	<u>4.60</u>

Description of Sediment Collected: SILT/SHELL/SAND

Description of Water Collected: Gras for effluents. (10 gal/ass)

**Ware Creek/Manatee River Sampling  
Calibration Form**

**Temperature ( C )**

Equipment Used: YSI 95  
Calibration Reading: Internal self calibration  
Equipment Reading: NA

**Dissolved Oxygen (mg/l)**

Equipment Used: YSI 95  
Calibration Reading: Internal self calibration  
Equipment Reading: NA

**pH (units)**

Equipment Used: YSI 95  
Calibration Reading: 4.00 & 7.00  
Equipment Reading: 4.01 & 7.01

**Conductivity (mS/cm)**

Equipment Used: YSI 95  
Calibration Reading: 700  
Equipment Reading: 699

**Salinity (ppt)**

Equipment Used: YSI95 - Internal calibration  
Calibration Reading: Internal self calibration  
Equipment Reading: NA

**Turbidity (NTU)**

Equipment Used: Hach Model 2100P  
Calibration Reading: 0.10, 20, 100, 800  
Equipment Reading: 0.09, 21, 100, 800

**Date:** 7/16/2003