

Hillsborough County  
Florida

Office of the County Administrator  
Patricia G. Bean

BOARD OF COUNTY COMMISSIONERS

Brian Blair  
Kathy Castor  
Ken Hagan  
Jim Norman  
Thomas Scott  
Mark Sharpe  
Ronda Storms

GW  
PRIVATE WELLS  
SW  
LEACHATE

Deputy County Administrator  
Wally Hill

Assistant County Administrators  
Bernardo Garcia  
Carl S. Harness  
Manus J. O' Donnell

April 18, 2006

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
APR 21 2006  
SOUTHWEST DISTRICT  
TAMPA

RESULTS FOR  
RADIONUCLIDES  
(GROSS ALPHA, RADON  
226, RADIUM 226)  
NOT PROVIDED IN LAB  
REPORT, BUT INCLUDED  
ON SUMMARY TABLE

Mr. John Morris, P.G.  
Department of Environmental Protection  
Southwest District-Solid Waste Section  
13051 Telecom Parkway  
Temple Terrace, FL 33637

**Re: Southeast County Landfill  
Operations Permit No.'s 35435-006-SO, 35435-007-SO, and 35435-009-SC  
Semi-Annual Analytical Data Report, February 2006**

Dear Mr. Morris:

In accordance with the above-referenced Landfill Operation and Construction Permits, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the February 2006 analytical data report (ADR) for the semi-annual water quality monitoring at the Southeast County Landfill (SCLF). Samples were collected on February 20 through February 24, 2006 by the SWMD Field Sampling Team.

The SWMD completed the installation of five new surficial aquifer groundwater monitoring wells in the areas adjacent to the Section 7 and Section 8 landfill expansion cells. Three of the new wells are designated as TH-62, TH-63, and TH-68, and function as the permit required detection wells for Section 8. The two additional wells, TH-59C and TH-60C, are the compliance wells addressing impacts to groundwater observed in the Section 7 detection wells TH-59 and TH-60. All five of the new groundwater monitoring wells were sampled and analyzed for in accordance with Specific Condition No. 26c of the Section 8 Construction Permit and the rules set forth in Chapter 62-701.510(8a-d). A thorough discussion of the water qualities observed across the site is provided herein.

The surficial aquifer groundwater monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard's (SDWS) acceptable range. Iron is consistently observed above the SDWS within several surficial aquifer wells at the SCLF, including the background water quality wells TH-22A and TH-36A. In addition, as previously presented to the Florida Department of Environmental Protection (FDEP), the elevated concentrations of iron and the low pH values can be directly attributed to the previous usage of the property as a phosphate mining area.

Post Office Box 1110 • Tampa, Florida 33601

Web Site: [www.hillsboroughcounty.org](http://www.hillsboroughcounty.org)

An Affirmative Action/Equal Opportunity Employer

FEB 2006  
SAMPLING  
EVENT

Any violations of the water quality criteria and the overall impact to the future groundwater monitoring activities at the SCLF are discussed in parameter specific details herein.

### ***FIELD PARAMETERS***

#### **pH**

The surficial aquifer detection and background groundwater quality monitoring wells continue to exhibit pH values below the SDWS acceptable range of 6.5 to 8.5 pH units. The pH values across the site range in value from 4.62 to 6.37 pH units. The pH at the site has historically been observed to be below the acceptable range. The 1983 Ardaman and Associates, Inc. report titled Hydrogeologic Investigation, Southeast County Landfill, reported pH values ranging from 4.4 to 6.7 pH units in six wells on site. This data was collected prior to construction of the landfill, and therefore demonstrates that the pH values historically observed are likely attributable to the phosphate mining activities conducted prior to construction of the landfill.

No unusual conditions or changes in pH values within any of the groundwater monitoring wells or surface water sites were observed during this sampling event.

#### **Turbidity**

In accordance with the April 3, 2003 Approval of Corrective Action Plan letter from the Florida Department of Environmental Protection (FDEP), the SWMD has recorded turbidity data for the period from September 2005 through February 2006. A summary table of the turbidity data obtained from the surface water sampling points 3A, 3B2B and 3C2 located in Long Flat Creek is provided within this ADR. The turbidity measurements have been observed within the compliance level of 29 nephelometric turbidity units (NTU) above the background (upstream) value.

### ***GENERAL PARAMETERS***

#### **Total Dissolved Solids**

The surficial aquifer detection well, TH-60, exhibited total dissolved solids (TDS) above the Secondary Drinking Water Standard (SDWS) of 500 milligrams per liter (mg/l) with a concentration of 1200 mg/l. This well has consistently exhibited TDS above standards, and was constructed in an area that had been reworked during construction and filled with offsite fill materials prior to construction of the detection wells for Section 7. All of the other monitoring wells were observed below the SDWS for TDS during this sampling event.

#### **Total Alpha**

The Weeks' private supply well exhibited concentrations of total alpha at 19.1 picocuries per liter (pCi/l), which is above the Primary Drinking Water Standard (PDWS) of 15 pCi/l. This supply well has historically been observed to exhibit total alpha just below the PDWS. The SWMD will continue to monitor this parameter during the next sampling event in May 2006, and the home owner shall be appropriately notified of this condition. The detections of this radiological

Mr. John Morris, P.G.

April 18, 2006

Page 3

parameter in the Weeks' private supply well is not readily attributable to the landfill operations, and is likely attributable to the past strip mining activities in the area.

### **Radium 226**

The Weeks' private supply well exhibited concentrations of radium 226 at 12.6 picocuries per liter (pCi/l), which is above the Primary Drinking Water Standard (PDWS) of 5 pCi/l. This supply well has periodically been observed to exhibit radium 226 only slightly above the PDWS.

No unusual conditions or changes in radium 226 values were observed during this sampling event, and the home owner shall be appropriately notified of this condition. The detection of this radiological parameter in the Weeks' private supply well is not readily attributable to the landfill operations, and is likely attributable to the past strip mining activities in the area.

### **Fecal Coliform**

The surface water sampling point 3A, which is the upstream data point on Long Flat Creek, exhibited concentrations of fecal coliform at 1,400 colonies per 100 milliliter (col/100ml). This value is above the Surface Water Standard of 800 col/100ml. No other surface water sites exceeded the standard during this event.

## **METALS**

### **Iron**

Iron concentrations in fifteen of the eighteen surficial aquifer monitoring wells were above the applicable SDWS of 0.300 mg/l. The highest concentration for iron was 16 mg/l in detection well TH-60. The iron concentrations observed in the surficial aquifer wells across the site have historically been elevated, and the 1983 Ardaman and Associates, Inc. report titled Hydrogeologic Investigation, Southeast County Landfill, reported iron above the PDWS at concentrations ranging from 0.43 to 20.0 milligrams per liter (mg/l). Based on the iron concentrations observed prior to construction of the landfill, the iron historically observed across the site is likely attributable to the past mining activities. As presented to the FDEP by our contracted consultant, Jones Edmunds, the landfill liner systems have created anaerobic environments under the lined cells. These environments are known to facilitate iron reducing bacteria processes which result in the higher iron concentrations in the areas down gradient of the landfill liner systems. It should also be noted that areas at the SCLF that have been disturbed by mining or landfill construction activities appear to exhibit the highest iron concentrations. Based on these potential sources of iron in the groundwater at the site, the SWMD maintains the position that the source of iron is not the buried wastes within the landfill.

The SCLF private supply wells owned by Weeks and Holland exhibited levels of iron above the SDWS with concentrations of 0.5 mg/l and 1.5 mg/l, respectively. These wells consistently exhibit iron above the SDWS. No unusual conditions or changes in iron concentrations within any of the groundwater monitoring wells or surface water samples at the site were observed during this event.

Mr. John Morris, P.G.

April 18, 2006

Page 4

### **Nickel**

Nickel was observed in TH-60 above the PDWS of 0.1 mg/l at a concentration of 0.18 mg/l, during this sampling event. Detection well TH-59 exhibited a concentration of nickel at 0.046 mg/l. Nickel has consistently been observed in these wells since the initial samples were collected in October 2003 prior to waste being placed in the Section 7 cell.

### ***ORGANIC PARAMETERS***

The organic parameters were analyzed by EPA Method 8260. The results of analyses are discussed in detail in the following paragraphs.

Benzene was observed in the Section 7 detection monitoring well TH-60 above the PDWS of 1 microgram per liter (ug/l) at a concentration of 2.9 ug/l. TH-59 exhibited a benzene concentration of 0.41 ug/l. The chlorinated solvents cis-1,2-dichloroethane, 1,2 dichloroethane, trichloroethane, and 1,1-dichloroethane were observed in TH-60 below their respective drinking water standards or guidance concentrations. No chlorinated solvents were detected in TH-59 during this sampling event. The SWMD maintains the position that the impacts to these wells were the direct result of landfill gas migration from Section 7. Since implementation of the corrective actions along the northwest side of Section 7, the number and concentration of VOCs has steadily decreased. All the evidence submitted to date, and the data provided within this ADR further solidifies that position.

Vinyl chloride was not detected in the surficial aquifer detection wells TH-59 and TH-60 during this sampling event. The detections reported during the August 2005 sampling event indicate that the data provided by our former laboratory, Test America, Inc, should be considered outliers to the data set. The SWMD continues to maintain the position that vinyl chloride was not and is not present within the groundwater in the vicinity of the Section 7 detection wells TH-59 and TH-60.

As previously discussed, the compliance groundwater monitoring wells, TH-59C and TH-60C have been installed approximately 50 feet northwest of the detection wells TH-59 and TH-60. Installation of these wells was intended to address the potential migration of the volatile organic compounds observed in the detection wells TH-59 and TH-60. There were no detections of any VOCs in either of these two compliance wells during this sampling event.

Detection monitoring wells TH-62 and TH-63 were installed on the northwestern side of the new Section 8 landfill cell. An additional detection monitoring well, TH-68, was installed on the southeastern side of the Section 8 landfill cell. The water qualities observed in these wells were within the Florida PDWS, SDWS, and minimum criteria, with the exception of pH and iron, which were observed to be outside their respective SDWS. No VOCs were observed in any of the Section 8 detection wells during this sampling event.

Mr. John Morris, P.G.

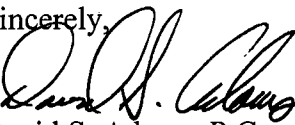
April 18, 2006

Page 5

Enclosed for your review is a detailed site location map, the analytical data summary tables, a groundwater elevation data summary table, a surficial aquifer groundwater elevation contour diagram, a data summary table of turbidity measurements, a data summary table for the private supply wells, copies of the letters sent to the owners of the private wells, and the complete laboratory analytical data report sheets.

Should you have any questions, require any additional information, or would like to discuss the information provided within this submittal, please feel free to contact me at (813) 276-2944 or via e-mail at [adamsds@hillsboroughcounty.org](mailto:adamsds@hillsboroughcounty.org).

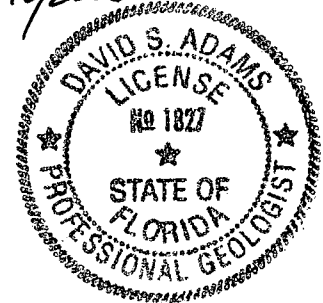
Sincerely,

  
David S. Adams, P.G. 4/18/2006  
Environmental Manager  
Solid Waste Management

DSA/mdt

Enclosures

xc: Barry M. Boldissar, Director, SWMD, w/o enclosures  
Patricia Berry, Section Manager, SWMD, w/o enclosures  
Ernest Ely, Landfill Manager, WM, Southeast Landfill  
Larry Ruiz, Project Manager, SWMD  
Rich Siemering, Jones Edmunds  
Chongman Lee, Department of Environmental Protection  
Paul Schipfer, Environmental Protection Commission  
Irene Barnes, Southeast Hillsborough Civic Association



enviro/projects/self/ADRs/2006/self adr 2-06.doc

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date \_\_\_\_\_

DEP Application No. \_\_\_\_\_

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

Dept. of Environmental  
Protection

PART I GENERAL INFORMATION

- (1) Facility Name SOUTHEAST LANDFILL  
Address 15960 C. R. 672 APR 26 2006  
City LITHIA, FL Zip 33503  
Telephone Number ( 813 ) 671-7707 Southwest District
- (2) The GMS Identification Number 4029C30075
- (3) DEP Permit Number 35435-006-SO
- (4) Authorized Representative Name BARRY M. BOLDISSAR, DIRECTOR, SOLID WASTE MANAGEMENT DEPT  
Address P O BOX 1110  
City TAMPA, FLORIDA Zip 33601  
Telephone Number ( 813 ) 276-2900
- (5) Type of Discharge GROUNDWATER - POTENTIAL ONLY
- (6) Method of Discharge LANDFILL

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: 4/19/06

  
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab Comp QAP # /HRS Certification # \_\_\_\_\_

\*Comp QAP # /HRS Certification # \_\_\_\_\_

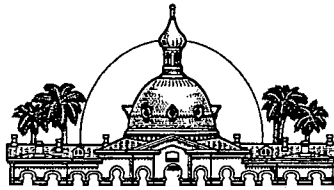
Lab Name SEVERN TRENT LABORATORIES, INC.

Address 6712 BENJAMIN ROAD, SUITE 100, TAMPA, FL 33634

Phone Number ( 813 ) 885-7427

# Analytical Results from Private Well Samples at the Southeast Landfill February 20, 2006

GENERAL (mg/l) PARAMETERS	Private Wells			(MCL) STANDARD
	Weeks	Holland	Barnes	F.A.C. 62-550
conductivity (umhos/cm) (field)	525 ~	380 ~	336 ~	NS
pH (field)	7.11 ~	7.28 ~	7.39 ~	(6.5 - 8.5)**
total dissolved solids (mg/l)	320 ~	220 ~	220 ~	500**
temperature (°C) (field)	23.12 ~	23.72 ~	18.08 ~	NS
turbidity (NTU) (field)	2.4 ~	0.80 ~	2.2 ~	NS
chloride (mg/l)	28 ~	21 ~	9.8 ~	250**
ammonia nitrogen (mg/l as N)	0.13 ~	0.052 ~	0.23 ~	NS 2.8
nitrate (mg/l as N)	0.036 ~	BDL ~	0.09 ~	10*
dissolved oxygen (mg/l) (field)	2.06 ~	1.06 ~	1.86 ~	NS
total alpha (pCi/l)	19.1	3.4	5.2	15*
radium 226 (pCi/l)	12.6	2	4	5*
radium 228 (pCi/l)	BDL	BDL	BDL	5*
Metals: (mg/l)	Private Wells			(MCL) STANDARD
	Weeks	Holland	Barnes	F.A.C. 62-550
iron	0.500 ~	1.500 ~	BDL ~	0.3**
chromium	BDL ~	0.0018 ~	BDL ~	0.2
cobalt	BDL ~	0.0023 ~	BDL ~	140***
copper	BDL ~	0.0042 ~	BDL ~	1**
barium	0.0053 ~	0.005 ~	0.0055 ~	2*
arsenic	BDL ~	BDL ~	BDL ~	0.05*
lead	BDL ~	BDL ~	BDL ~	0.015*
sodium	8.1 ~	5.2 ~	15 ~	160*
mercury	BDL ~	BDL ~	BDL ~	0.002
zinc	0.11 ~	0.054 ~	0.100 ~	5**
antimony	BDL ~	BDL ~	BDL ~	.006*
nickel	BDL ~	0.0052 ~	BDL ~	0.1*
Organics: (µg/l) Organic Parameters Detected	Private Wells			(MCL) STANDARD
	Weeks	Holland	Barnes	F.A.C. 62-550
1,1-dichloroethene	BDL ~	BDL ~	BDL ~	7*
Notes: Reference Groundwater Guidance Concentrations, FDEP June 1994				
NS=NO STANDARD				
MCL=MAXIMUM CONTAMINANT LEVEL				
BDL=BELOW DETECTION LIMIT				
NA=NOT AVAILABLE				
*=DENOTES PRIMARY DRINKING WATER STANDARD				
**=DENOTES SECONDARY DRINKING WATER STANDARD				
19.1 : EXCEEDS STANDARDS				
NTU=NEPHELOMETRIC TURBIDITY UNITS				
pCi/l=PICOCURIES PER LITER				
ug/l=MICROGRAMS PER LITER				
mg/l=MILLIGRAMS PER LITER				
(-)=indicates that the sample was not analyzed for this parameter				



Hillsborough County  
Florida

Office of the County Administrator  
Patricia G. Bean

BOARD OF COUNTY COMMISSIONERS

Brian Blair  
Kathy Castor  
Ken Hagan  
Jim Norman  
Thomas Scott  
Mark Sharpe  
Ronda Storms

Deputy County Administrator  
Wally Hill

Assistant County Administrators  
Bernardo Garcia  
Carl S. Harness  
Manus J. O' Donnell

April 14, 2006

Mr. Tom Holland  
121 Carter Road  
Lithia, FL 33547

**Subject: Analytical Data  
Domestic Supply Well  
121 Carter Road**

Dear Mr. Holland:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on February 20, 2006. Iron was observed at a concentration of 1.50 mg/l which is above the Florida Secondary Drinking Water Standard (FAC Ch 62-550.320) of 0.30 mg/l. All other parameters are within Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

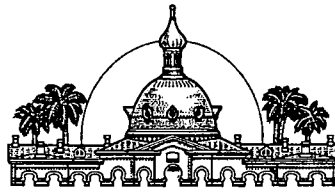
For health effects information you may call the Hillsborough County Health Department at (813) 307-8001. If you have any questions on the analysis, you may call me at 276-2955. Thank you for your continued permission to test this well.

Sincerely,

Michael D. Townsel  
Hydrologist  
Solid Waste Management Department

mdt  
Enclosures

xc: Irene Barnes, Southeast Hillsborough Civic Association  
Cindy Morris, Hillsborough County Health Department



Hillsborough County  
Florida

Office of the County Administrator  
Patricia G. Bean

BOARD OF COUNTY COMMISSIONERS

Brian Blair  
Kathy Castor  
Ken Hagan  
Jim Norman  
Thomas Scott  
Mark Sharpe  
Ronda Storms

Deputy County Administrator  
Wally Hill

Assistant County Administrators  
Bernardo Garcia  
Carl S. Harness  
Manus J. O' Donnell

April 14, 2006

Mr. Howard Barnes  
P.O. Box 108  
Lithia, FL 33547

**Subject: Analytical Data  
Domestic Supply Well  
17502 County Road 672**

Dear Mr. Barnes:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on February 20, 2006. All parameters are within Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

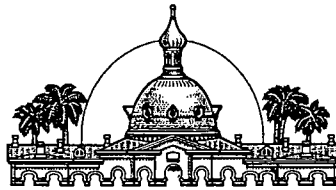
If you have any questions on the analysis, you may call me at 276-2955. Thank you for your permission to test this well.

Sincerely,

Michael D. Townsel  
Hydrologist  
Solid Waste Management Department

mdt  
Enclosures

xc Irene Barnes, Southeast Hillsborough Civic Association  
Cindy Morris, Hillsborough County Health Department



Hillsborough County  
Florida

Office of the County Administrator  
Patricia G. Bean

April 14, 2006

BOARD OF COUNTY COMMISSIONERS

Brian Blair  
Kathy Castor  
Ken Hagan  
Jim Norman  
Thomas Scott  
Mark Sharpe  
Ronda Storms

Deputy County Administrator  
Wally Hill

Assistant County Administrators  
Bernardo Garcia  
Carl S. Harness  
Manus J. O' Donnell

Mr. & Mrs. Harold Weeks  
116 Wendel Ave.  
Lithia, FL 33547

**Subject: Analytical Data  
Domestic Supply Well  
116 Wendel Ave.**

Dear Mr. & Mrs. Weeks:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on February 20, 2006. Iron was observed at a concentration of 0.50 mg/l. This value exceeds the Florida Secondary Drinking Water Standard (FAC Ch 62-550.320) of 0.30 mg/l. Total Alpha and Radium 226 was also observed at concentrations of 19.1 pCi/l and 12.6 pCi/l, respectfully. These values exceed the Florida Primary Drinking Water Standard (FAC Ch 62-550.310) of 15 pCi/l and 5.0 pCi/l. All other parameters tested are within Florida Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

For health effects information you may call the Hillsborough Health Department at (813) 307-8001. If you have any questions on the analysis, you may call me at 276-2955. Thank you for your permission to test this well.

Sincerely,

Michael D. Townsel  
Hydrologist  
Solid Waste Management Department

mdt

Enclosures

xc: Irene Barnes, Southeast Hillsborough Civic Association  
Cindy Morris, Hillsborough County Health Department

Post Office Box 1110 • Tampa, Florida 33601

Web Site: [www.hillsboroughcounty.org](http://www.hillsboroughcounty.org)

An Affirmative Action/Equal Opportunity Employer

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: WEEKS

Lab Sample ID: 660-7296-2

Date Sampled: 02/20/2006 0935

Date Received: 02/20/2006 1500

Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Prepared:		Date Analyzed: 02/20/2006 0935	
Field pH	7.11	SU		1.0
Field Temperature	23.12	Degrees C		1.0
Oxygen, Dissolved	2.06	mg/L		1.0
Specific Conductance	525	umhos/cm		1.0
Turbidity	2.4	NTU		1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: WEEKS

Lab Sample ID: 660-7296-2

Date Sampled: 02/20/2006 0935

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2040	Date Analyzed: 02/27/2006 2040			
Acetone	9.9 U	ug/L	9.9	20	1.0
Acrylonitrile	1.2 U	ug/L	1.2	100	1.0
Benzene	0.27 U	ug/L	0.27	1.0	1.0
Bromodichloromethane	0.35 U	ug/L	0.35	1.0	1.0
Bromoform	0.58 U	ug/L	0.58	1.0	1.0
Bromomethane	0.66 U	ug/L	0.66	1.0	1.0
Methyl Ethyl Ketone	8.4 U	ug/L	8.4	10	1.0
Carbon disulfide	0.85 U	ug/L	0.85	1.0	1.0
Carbon tetrachloride	0.42 U	ug/L	0.42	1.0	1.0
Chlorobenzene	0.63 U	ug/L	0.63	1.0	1.0
Bromochloromethane	0.58 U	ug/L	0.58	1.0	1.0
Chloroethane	0.80 U	ug/L	0.80	1.0	1.0
Chloroform	0.90 U	ug/L	0.90	1.0	1.0
1,2-Dichlorobenzene	0.44 U	ug/L	0.44	1.0	1.0
Chloromethane	0.64 U	ug/L	0.64	1.0	1.0
Dibromochloromethane	0.34 U	ug/L	0.34	1.0	1.0
Dibromomethane	0.41 U	ug/L	0.41	1.0	1.0
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	2.5	10	1.0
1,4-Dichlorobenzene	0.52 U	ug/L	0.52	1.0	1.0
1,1-Dichloroethane	0.52 U	ug/L	0.52	1.0	1.0
1,2-Dichloroethane	0.57 U	ug/L	0.57	1.0	1.0
1,1-Dichloroethene	0.45 U	ug/L	0.45	1.0	1.0
cis-1,2-Dichloroethene	0.65 U	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	0.44 U	ug/L	0.44	1.0	1.0
1,2-Dichloropropane	0.52 U	ug/L	0.52	1.0	1.0
cis-1,3-Dichloropropene	0.14 U	ug/L	0.14	1.0	1.0
trans-1,3-Dichloropropene	0.14 U	ug/L	0.14	1.0	1.0
Ethylbenzene	0.44 U	ug/L	0.44	1.0	1.0
2-Hexanone	4.4 U	ug/L	4.4	10	1.0
Iodomethane	0.67 U	ug/L	0.67	1.0	1.0
4-Methyl-2-pentanone	3.8 U	ug/L	3.8	10	1.0
Methylene Chloride	4.0 U	ug/L	4.0	5.0	1.0
Styrene	0.98 U	ug/L	0.98	1.0	1.0
1,1,2,2-Tetrachloroethane	0.14 U	ug/L	0.14	1.0	1.0
1,1,1,2-Tetrachloroethane	0.63 U	ug/L	0.63	1.0	1.0
Tetrachloroethene	0.34 U	ug/L	0.34	1.0	1.0
Toluene	0.51 U	ug/L	0.51	1.0	1.0
1,1,1-Trichloroethane	0.46 U	ug/L	0.46	1.0	1.0
1,1,2-Trichloroethane	0.47 U	ug/L	0.47	1.0	1.0
Trichloroethene	0.28 U	ug/L	0.28	1.0	1.0
Trichlorofluoromethane	0.98 U	ug/L	0.98	1.0	1.0
1,2,3-Trichloropropane	0.15 U	ug/L	0.15	1.0	1.0
Vinyl acetate	1.5 U	ug/L	1.5	10	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: WEEKS

Lab Sample ID: 660-7296-2

Date Sampled: 02/20/2006 0935

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2040			Date Analyzed: 02/27/2006 2040		
Vinyl chloride	0.50	U	ug/L	0.50	1.0	1.0
Xylenes, Total	0.30	U	ug/L	0.30	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	85		%	74 - 126		
Dibromofluoromethane	87		%	70 - 130		
Toluene-d8	86		%	77 - 122		
Method: 504.1	Date Prepared: 02/27/2006 1330			Date Analyzed: 02/27/2006 2103		
1,2-Dibromo-3-Chloropropane	0.0030	U	ug/L	0.0030	0.020	1.0
Ethylene Dibromide	0.0087	U	ug/L	0.0087	0.020	1.0
Method: TOT-REC-6010B	Date Prepared: 03/01/2006 1503			Date Analyzed: 03/02/2006 1640		
Silver	1.9	U	ug/L	1.9	10	1.0
Arsenic	4.8	U	ug/L	4.8	10	1.0
Barium	5.3	I	ug/L	1.2	10	1.0
Beryllium	0.74	U	ug/L	0.74	4.0	1.0
Cadmium	0.71	U	ug/L	0.71	5.0	1.0
Cobalt	1.6	U	ug/L	1.6	10	1.0
Chromium	1.7	U	ug/L	1.7	10	1.0
Copper	2.9	U	ug/L	2.9	20	1.0
Iron	500		ug/L	22	50	1.0
Sodium	8.1		mg/L	0.31	0.50	1.0
Nickel	4.7	U	ug/L	4.7	40	1.0
Lead	1.6	U	ug/L	1.6	5.0	1.0
Antimony	3.6	U	ug/L	3.6	6.0	1.0
Selenium	5.9	U	ug/L	5.9	10	1.0
Vanadium	2.5	U	ug/L	2.5	10	1.0
Zinc	110		ug/L	5.9	20	1.0
Method: TOT-REC-6020	Date Prepared: 02/22/2006 1705			Date Analyzed: 02/24/2006 1639		
Thallium	0.25	U	ug/L	0.25	1.0	1.0
Method: 7470A	Date Prepared: 02/27/2006 1406			Date Analyzed: 02/27/2006 1602		
Mercury	0.072	U	ug/L	0.072	0.20	1.0
Method: 325.2	Date Prepared:			Date Analyzed: 02/27/2006 1409		
Chloride	28		mg/L	0.90	1.0	1.0
Method: 350.1	Date Prepared:			Date Analyzed: 02/24/2006 1843		

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: WEEKS

Lab Sample ID: 660-7296-2

Date Sampled: 02/20/2006 0935  
Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 350.1	Date Prepared:		Date Analyzed: 02/24/2006 1843		
Ammonia (as N)	0.13	mg/L	0.040	0.050	1.0
Method: 353.2	Date Prepared:		Date Analyzed: 02/22/2006 0755		
Nitrate Nitrogen	0.036 I	mg/L	0.010	0.050	1.0
Method: 415.1	Date Prepared:		Date Analyzed: 03/01/2006 1854		
Total Organic Carbon	3.0	mg/L	0.53	1.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: WEEKS

Lab Sample ID: 660-7296-2

Date Sampled: 02/20/2006 0935

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
Method: 160.1	Date Prepared:		Date Analyzed: 02/23/2006 1530		
Total Dissolved Solids	320	mg/L	5.0	5.0	1.0
Method: 160.2	Date Prepared:		Date Analyzed: 02/22/2006 1157		
Total Suspended Solids	1.2	mg/L	1.0	1.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: HOLLAND

Lab Sample ID: 660-7296-3

Date Sampled: 02/20/2006 1015

Date Received: 02/20/2006 1500

Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Prepared:		Date Analyzed: 02/20/2006 1015	
Field pH	7.28	SU		1.0
Field Temperature	23.72	Degrees C		1.0
Oxygen, Dissolved	1.06	mg/L		1.0
Specific Conductance	380	umhos/cm		1.0
Turbidity	0.8	NTU		1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: HOLLAND

Lab Sample ID: 660-7296-3

Date Sampled: 02/20/2006 1015

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2105		Date Analyzed: 02/27/2006 2105		
Acetone	9.9 U	ug/L	9.9	20	1.0
Acrylonitrile	1.2 U	ug/L	1.2	100	1.0
Benzene	0.27 U	ug/L	0.27	1.0	1.0
Bromodichloromethane	0.35 U	ug/L	0.35	1.0	1.0
Bromoform	0.58 U	ug/L	0.58	1.0	1.0
Bromomethane	0.66 U	ug/L	0.66	1.0	1.0
Methyl Ethyl Ketone	8.4 U	ug/L	8.4	10	1.0
Carbon disulfide	0.85 U	ug/L	0.85	1.0	1.0
Carbon tetrachloride	0.42 U	ug/L	0.42	1.0	1.0
Chlorobenzene	0.63 U	ug/L	0.63	1.0	1.0
Bromochloromethane	0.58 U	ug/L	0.58	1.0	1.0
Chloroethane	0.80 U	ug/L	0.80	1.0	1.0
Chloroform	0.90 U	ug/L	0.90	1.0	1.0
1,2-Dichlorobenzene	0.44 U	ug/L	0.44	1.0	1.0
Chloromethane	0.64 U	ug/L	0.64	1.0	1.0
Dibromochloromethane	0.34 U	ug/L	0.34	1.0	1.0
Dibromomethane	0.41 U	ug/L	0.41	1.0	1.0
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	2.5	10	1.0
1,4-Dichlorobenzene	0.52 U	ug/L	0.52	1.0	1.0
1,1-Dichloroethane	0.52 U	ug/L	0.52	1.0	1.0
1,2-Dichloroethane	0.57 U	ug/L	0.57	1.0	1.0
1,1-Dichloroethene	0.45 U	ug/L	0.45	1.0	1.0
cis-1,2-Dichloroethene	0.65 U	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	0.44 U	ug/L	0.44	1.0	1.0
1,2-Dichloropropane	0.52 U	ug/L	0.52	1.0	1.0
cis-1,3-Dichloropropene	0.14 U	ug/L	0.14	1.0	1.0
trans-1,3-Dichloropropene	0.14 U	ug/L	0.14	1.0	1.0
Ethylbenzene	0.44 U	ug/L	0.44	1.0	1.0
2-Hexanone	4.4 U	ug/L	4.4	10	1.0
Iodomethane	0.67 U	ug/L	0.67	1.0	1.0
4-Methyl-2-pentanone	3.8 U	ug/L	3.8	10	1.0
Methylene Chloride	4.0 U	ug/L	4.0	5.0	1.0
Styrene	0.98 U	ug/L	0.98	1.0	1.0
1,1,2,2-Tetrachloroethane	0.14 U	ug/L	0.14	1.0	1.0
1,1,1,2-Tetrachloroethane	0.63 U	ug/L	0.63	1.0	1.0
Tetrachloroethene	0.34 U	ug/L	0.34	1.0	1.0
Toluene	0.51 U	ug/L	0.51	1.0	1.0
1,1,1-Trichloroethane	0.46 U	ug/L	0.46	1.0	1.0
1,1,2-Trichloroethane	0.47 U	ug/L	0.47	1.0	1.0
Trichloroethene	0.28 U	ug/L	0.28	1.0	1.0
Trichlorofluoromethane	0.98 U	ug/L	0.98	1.0	1.0
1,2,3-Trichloropropane	0.15 U	ug/L	0.15	1.0	1.0
Vinyl acetate	1.5 U	ug/L	1.5	10	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: HOLLAND

Lab Sample ID: 660-7296-3

Date Sampled: 02/20/2006 1015

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2105	Date Analyzed: 02/27/2006 2105			
Vinyl chloride	0.50 U	ug/L	0.50	1.0	1.0
Xylenes, Total	0.30 U	ug/L	0.30	1.0	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	98	%		74 - 126	
Dibromofluoromethane	101	%		70 - 130	
Toluene-d8	100	%		77 - 122	
Method: 504.1	Date Prepared: 02/27/2006 1330	Date Analyzed: 02/27/2006 2212			
1,2-Dibromo-3-Chloropropane	0.0031 U	ug/L	0.0031	0.021	1.0
Ethylene Dibromide	0.0089 U	ug/L	0.0089	0.021	1.0
Method: TOT-REC-6010B	Date Prepared: 03/01/2006 1503	Date Analyzed: 03/02/2006 1646			
Silver	1.9 U	ug/L	1.9	10	1.0
Arsenic	4.8 U	ug/L	4.8	10	1.0
Barium	5.0 I	ug/L	1.2	10	1.0
Beryllium	0.74 U	ug/L	0.74	4.0	1.0
Cadmium	0.71 U	ug/L	0.71	5.0	1.0
Cobalt	2.3 I	ug/L	1.6	10	1.0
Chromium	1.8 I	ug/L	1.7	10	1.0
Copper	4.2 I	ug/L	2.9	20	1.0
Iron	1500	ug/L	22	50	1.0
Sodium	5.2	mg/L	0.31	0.50	1.0
Nickel	5.2 I	ug/L	4.7	40	1.0
Lead	1.6 U	ug/L	1.6	5.0	1.0
Antimony	3.6 U	ug/L	3.6	6.0	1.0
Selenium	5.9 U	ug/L	5.9	10	1.0
Vanadium	2.5 U	ug/L	2.5	10	1.0
Zinc	54	ug/L	5.9	20	1.0
Method: TOT-REC-6020	Date Prepared: 02/22/2006 1705	Date Analyzed: 02/24/2006 1705			
Thallium	0.25 U	ug/L	0.25	1.0	1.0
Method: 7470A	Date Prepared: 02/27/2006 1406	Date Analyzed: 02/27/2006 1604			
Mercury	0.072 U	ug/L	0.072	0.20	1.0
Method: 325.2	Date Prepared:	Date Analyzed: 02/27/2006 1409			
Chloride	21	mg/L	0.90	1.0	1.0
Method: 350.1	Date Prepared:	Date Analyzed: 02/24/2006 1843			

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: HOLLAND

Lab Sample ID: 660-7296-3

Date Sampled: 02/20/2006 1015  
Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 350.1	Date Prepared:		Date Analyzed: 02/24/2006 1843		
Ammonia (as N)	0.052	mg/L	0.040	0.050	1.0
Method: 353.2	Date Prepared:		Date Analyzed: 02/22/2006 0755		
Nitrate Nitrogen	0.010 U	mg/L	0.010	0.050	1.0
Method: 415.1	Date Prepared:		Date Analyzed: 03/01/2006 1914		
Total Organic Carbon	1.5	mg/L	0.53	1.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: HOLLAND

Lab Sample ID: 660-7296-3

Date Sampled: 02/20/2006 1015  
Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Prepared:		Date Analyzed: 02/23/2006 1530		
Total Dissolved Solids	220	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Prepared:		Date Analyzed: 02/22/2006 1157		
Total Suspended Solids	2.8	mg/L	1.0	1.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: BARNES

Lab Sample ID: 660-7296-4

Date Sampled: 02/20/2006 1105

Date Received: 02/20/2006 1500

Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Prepared:		Date Analyzed: 02/20/2006 1105	
Field pH	7.39	SU		1.0
Field Temperature	18.08	Degrees C		1.0
Oxygen, Dissolved	1.86	mg/L		1.0
Specific Conductance	336	umhos/cm		1.0
Turbidity	2.2	NTU		1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: BARNES

Lab Sample ID: 660-7296-4

Date Sampled: 02/20/2006 1105

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2130			Date Analyzed: 02/27/2006 2130		
Acetone	9.9	U	ug/L	9.9	20	1.0
Acrylonitrile	1.2	U	ug/L	1.2	100	1.0
Benzene	0.27	U	ug/L	0.27	1.0	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	1.0	1.0
Bromoform	0.58	U	ug/L	0.58	1.0	1.0
Bromomethane	0.66	U	ug/L	0.66	1.0	1.0
Methyl Ethyl Ketone	8.4	U	ug/L	8.4	10	1.0
Carbon disulfide	0.85	U	ug/L	0.85	1.0	1.0
Carbon tetrachloride	0.42	U	ug/L	0.42	1.0	1.0
Chlorobenzene	0.63	U	ug/L	0.63	1.0	1.0
Bromochloromethane	0.58	U	ug/L	0.58	1.0	1.0
Chloroethane	0.80	U	ug/L	0.80	1.0	1.0
Chloroform	0.90	U	ug/L	0.90	1.0	1.0
1,2-Dichlorobenzene	0.44	U	ug/L	0.44	1.0	1.0
Chloromethane	0.64	U	ug/L	0.64	1.0	1.0
Dibromochloromethane	0.34	U	ug/L	0.34	1.0	1.0
Dibromomethane	0.41	U	ug/L	0.41	1.0	1.0
trans-1,4-Dichloro-2-butene	2.5	U	ug/L	2.5	10	1.0
1,4-Dichlorobenzene	0.52	U	ug/L	0.52	1.0	1.0
1,1-Dichloroethane	0.52	U	ug/L	0.52	1.0	1.0
1,2-Dichloroethane	0.57	U	ug/L	0.57	1.0	1.0
1,1-Dichloroethene	0.45	U	ug/L	0.45	1.0	1.0
cis-1,2-Dichloroethene	0.65	U	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	0.44	U	ug/L	0.44	1.0	1.0
1,2-Dichloropropane	0.52	U	ug/L	0.52	1.0	1.0
cis-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0	1.0
trans-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0	1.0
Ethylbenzene	0.44	U	ug/L	0.44	1.0	1.0
2-Hexanone	4.4	U	ug/L	4.4	10	1.0
Iodomethane	0.67	U	ug/L	0.67	1.0	1.0
4-Methyl-2-pentanone	3.8	U	ug/L	3.8	10	1.0
Methylene Chloride	4.0	U	ug/L	4.0	5.0	1.0
Styrene	0.98	U	ug/L	0.98	1.0	1.0
1,1,2,2-Tetrachloroethane	0.14	U	ug/L	0.14	1.0	1.0
1,1,1,2-Tetrachloroethane	0.63	U	ug/L	0.63	1.0	1.0
Tetrachloroethene	0.34	U	ug/L	0.34	1.0	1.0
Toluene	0.51	U	ug/L	0.51	1.0	1.0
1,1,1-Trichloroethane	0.46	U	ug/L	0.46	1.0	1.0
1,1,2-Trichloroethane	0.47	U	ug/L	0.47	1.0	1.0
Trichloroethene	0.28	U	ug/L	0.28	1.0	1.0
Trichlorofluoromethane	0.98	U	ug/L	0.98	1.0	1.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: BARNES

Lab Sample ID: 660-7296-4

Date Sampled: 02/20/2006 1105

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8260B	Date Prepared: 02/27/2006 2130			Date Analyzed: 02/27/2006 2130		
Vinyl chloride	0.50	U	ug/L	0.50	1.0	1.0
Xylenes, Total	0.30	U	ug/L	0.30	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	97		%		74 - 126	
Dibromofluoromethane	98		%		70 - 130	
Toluene-d8	99		%		77 - 122	
Method: 504.1	Date Prepared: 02/27/2006 1330			Date Analyzed: 02/27/2006 2259		
1,2-Dibromo-3-Chloropropane	0.0029	U	ug/L	0.0029	0.019	1.0
Ethylene Dibromide	0.0085	U	ug/L	0.0085	0.019	1.0
Method: TOT-REC-6010B	Date Prepared: 03/01/2006 1503			Date Analyzed: 03/02/2006 1651		
Silver	1.9	U	ug/L	1.9	10	1.0
Arsenic	4.8	U	ug/L	4.8	10	1.0
Barium	5.5	I	ug/L	1.2	10	1.0
Beryllium	0.74	U	ug/L	0.74	4.0	1.0
Cadmium	0.71	U	ug/L	0.71	5.0	1.0
Cobalt	1.6	U	ug/L	1.6	10	1.0
Chromium	1.7	U	ug/L	1.7	10	1.0
Copper	2.9	U	ug/L	2.9	20	1.0
Iron	22	U	ug/L	22	50	1.0
Sodium	15		mg/L	0.31	0.50	1.0
Nickel	4.7	U	ug/L	4.7	40	1.0
Lead	1.6	U	ug/L	1.6	5.0	1.0
Antimony	3.6	U	ug/L	3.6	6.0	1.0
Selenium	5.9	U	ug/L	5.9	10	1.0
Vanadium	2.5	U	ug/L	2.5	10	1.0
Zinc	100		ug/L	5.9	20	1.0
Method: TOT-REC-6020	Date Prepared: 02/22/2006 1705			Date Analyzed: 02/24/2006 1645		
Thallium	0.25	U	ug/L	0.25	1.0	1.0
Method: 7470A	Date Prepared: 02/27/2006 1406			Date Analyzed: 02/27/2006 1606		
Mercury	0.072	U	ug/L	0.072	0.20	1.0
Method: 325.2	Date Prepared:			Date Analyzed: 02/27/2006 1409		
Chloride	9.8		mg/L	0.90	1.0	1.0
Method: 350.1	Date Prepared:			Date Analyzed: 02/24/2006 1843		

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: BARNES

Lab Sample ID: 660-7296-4

Date Sampled: 02/20/2006 1105  
Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 350.1</b>	Date Prepared:		Date Analyzed: 02/24/2006	1843	
Ammonia (as N)	0.23	mg/L	0.040	0.050	1.0
<b>Method: 353.2</b>	Date Prepared:		Date Analyzed: 02/22/2006	0755	
Nitrate Nitrogen	0.090	mg/L	0.010	0.050	1.0
<b>Method: 415.1</b>	Date Prepared:		Date Analyzed: 03/01/2006	1934	
Total Organic Carbon	2.2	mg/L	0.53	1.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-7296-1

Client Sample ID: BARNES

Lab Sample ID: 660-7296-4

Date Sampled: 02/20/2006 1105

Date Received: 02/20/2006 1500

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
Method: 160.1	Date Prepared:		Date Analyzed: 02/23/2006 1530		
Total Dissolved Solids	220	mg/L	5.0	5.0	1.0
Method: 160.2	Date Prepared:		Date Analyzed: 02/22/2006 1157		
Total Suspended Solids	1.2	mg/L	1.0	1.0	1.0