



John E. Manning  
*District One*

June 1, 2017

Cecil L Pendergrass  
*District Two*

Larry Kiker  
*District Three*

Brian Hamman  
*District Four*

Frank Mann  
*District Five*

Roger Desjarlais  
*County Manager*

Richard Wm. Wesch  
*County Attorney*

Donna Marie Collins  
*Hearing Examiner*

Ms. Renée J. Kwiat, CHMM  
Environmental Consultant  
Florida Department of Environmental Protection, South District  
P.O. Box 2549  
Fort Myers, FL 33902-2549

**Re: Lee County Resource Recovery Facility, PA90-30H  
Construction & Demolition Debris Recycling Facility  
WACS ID No. 93715  
First Semi-Annual 2017 Water Quality Monitoring Report**

Dear Ms. Kwiat:

Enclosed please find the First Semi-Annual 2017 Water Quality Monitoring (WQM) Report for the Lee County Resource Recovery Facility (RRF) and the Construction & Demolition Debris Recycling Facility (CDDRF). Flowers Chemical Laboratories, Inc. (FCL) sampled the RRF's six (6) shallow monitoring wells, or WTE-1S, WTE-2S, WTE-3SR, WTE-4S, WTE-5S and WTE-6S, which include the CDDRF's three (3) monitoring wells or WTE-2S, WTE-3SR and WTE-4S, on February 6, 2017.

Sampling was performed in accordance with the Facility's Ground Water Monitoring Plan (GWMP) dated August 2010 and approved by the Department on October 19, 2010. The laboratory analytical results from this WQM event were compared to the Department's water quality standards or maximum contaminant levels (MCL) established in Chapter 62-550, F.A.C., and are summarized below.

#### **Ground Water Monitoring Data Discussion**

Ground water from five (5) of the six (6) shallow monitoring wells sampled, i.e., all but WTE-6S, exceeded the secondary drinking water standard for Iron which is 0.3 milligrams per liter (mg/L) as established by Rule 62-550, F.A.C. Ground water from two (2) of the six (6) shallow wells sampled, i.e., WTE-2S and WTE-5S, exceeded the secondary drinking water standard for Total Dissolved Solids (TDS) which is 500 mg/L as established by Rule 62-550, F.A.C. The concentrations of Iron and TDS in the wells that exceeded the standards as noted

above are reported in Table 1. Note that the Iron and TDS concentrations reported are consistent with background and historical monitoring results and the ground water quality in this region.

In addition, ground water from monitoring well WTE-4S exceeded the Ground Water Clean-Up Target Level (GCTL) for Ammonia which is 2.8 mg/L as established in Chapter 62-777, F.A.C. The Ammonia concentration at WTE-4S was reported to be 4.24 mg/L which is consistent with the Ammonia results from the last 2 sample events including the March 2016 resample event which was scheduled after the February 2016 sampling results reported an Ammonia level of 19 mg/L in WTE-4S. The March 2016 resample event reported Ammonia at 4.0 mg/L and the August 2016 routine sampling event reported Ammonia at 4.4 mg/L.

Given the Ammonia concentrations from three consecutive sampling events are significantly lower than the concentration reported in February 2016 and have remained steady, along with the Department Memorandum SWM-13.10, Monitoring and Evaluation Ammonia in Ground Water at Solid Waste Management Facilities, dated December 3, 2012, no additional sampling will be performed. However, Ammonia will continue to be monitored according to the approved ground water monitoring plan.

**Table 1 –Results which Exceeded Standards in Chapter 62-550, F.A.C.**

<b>Parameter (units)</b>	<b>WTE-1S</b>	<b>WTE-2S</b>	<b>WTE-3SR</b>	<b>WTE-4S</b>	<b>WTE-5S</b>	<b>WTE-6S</b>
Iron (mg/L)	8.21	0.323	3.86	2.09	0.322	BS
TDS (mg/L)	BS	568	BS	BS	512	BS

*Water Quality Standards: Iron- 0.3 mg/L; TDS- 500 mg/L; BS-Below Standard*

### **Electronic Data Files**

As required, this WQM Report includes the field and laboratory ADaPT files which are provided as separate electronic files prepared in the Department specified format.

### **Ground Water Elevations**

The ground water elevations at the six (6) shallow (water table aquifer) and six (6) deep (sandstone aquifer) monitoring wells are provided in Table 2 below. The elevations were determined in accordance with the DEP-SOP-001/01, and specifically, FS2200, Ground Water Sampling. The data used to determine the ground water elevations is provided in the Attachments to this WQM Report.

**Table 2 – Ground Water Elevations (ft., NGVD) Measured February 6, 2017**

<b>WELL ID</b>	<b>Elevation (ft., NGVD)</b>	<b>WELL ID</b>	<b>Elevation (ft., NGVD)</b>
WTE-1S	16.7	WTE-1D	6.11
WTE-2S	16.07	WTE-2D	14.40
WTE-3SR	15.01	WTE-3DR	13.71
WTE-4S	13.47	WTE-4D	12.14
WTE-5S	15.89	WTE-5D	14.15
WTE-6S	12.94	WTE-6D	11.58

*Note: WTE-2S, WTE-3SR and WTE-4S comprise the monitoring well network for the CDDRF*

**Field Documentation and Report Certification**

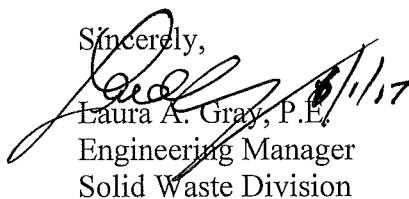
The attachments to this WQM Report include DEP Form #62-701.900(31), F.A.C., Water Quality Monitoring Certification, DEP Form FD 9000-24, Ground Water Sampling Log for each well sampled, field data sheets and sample chain of custody.

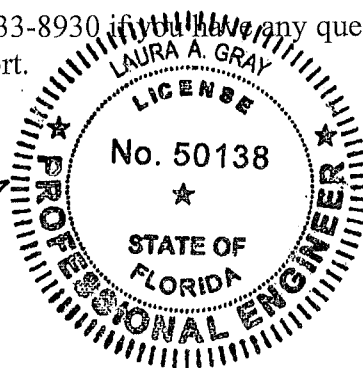
**Recommendations/Conclusions**

The monitoring results reported herein are consistent with prior monitoring results and background data for the RRF and the CDDRF and are typical for ground water in this geographical region with the exception of the ammonia concentration reported in WTE-4S. Given the substantial decrease in ammonia indicated by the resample and subsequent routine monitoring results along with the Department Memorandum SWM-13.10, no additional ammonia monitoring is recommended at this time. The RRF and CDDRF will continue to implement the approved ground water monitoring plan and will report the results to the Department as required.

Please call me at (239) 533-8930 if you have any questions pertaining to this Water Quality Monitoring Report.

Sincerely,

  
Laura A. Gray, P.E.  
Engineering Manager  
Solid Waste Division



Attachments

Cc: Bureau of Solid and Hazardous Waste, FDEP  
Siting Coordination Office, FDEP  
Keith Howard, SWD  
Mike Duff, Covanta  
Tyler Huffman, Covanta  
File II E107

*Lee County Resource Recovery Facility, PA90-30H  
Construction & Demolition Debris Recycling Facility  
WACS ID No. 93715  
First Semi-Annual 2017 Water Quality Monitoring Report*

Attachment A-Ground Water Monitoring Report Certification,  
DEP Form # 62-701.900(31)



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.  
Form Title: Water Quality Monitoring Certification  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(9), F.A.C.

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name Lee County Solid Waste Resource Recovery Facility

Address 10500 Buckingham Road

City Fort Myers Zip 33905 County Lee

Telephone Number (239 ) 533-8000

(2) WACS Facility ID 93715

(3) DEP Permit Number PA90-30H

(4) Authorized Representative's Name Keith Howard Title Director

Address 10500 Buckingham Road

City Fort Myers Zip 33907 County Lee

Telephone Number (239 ) 533-8000

Email address (if available) khoward@leegov.com

### 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 submission of false information including the possibility of fine and imprisonment.

5/30/17  
(Date)

[Signature]  
(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Flowers Chemical Laboratories, Inc.

Analytical Lab NELAC / HRS Certification # E83018

Lab Name Flowers Chemical Laboratories, Inc

Address P.O. Box 150597, Altamonte Springs, FL 32715-0597

Phone Number (407 ) 339-5984

Email address (if available) \_\_\_\_\_

Northwest District  
160 Government Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
Jacksonville, FL 32256-7590  
904-807-3300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
13051 N. Telecom Pky.  
Temple Terrace, FL  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33902-2549  
239-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

*Lee County Resource Recovery Facility, PA90-30H  
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**Attachment B –Ground Water Contour Maps (Shallow and Sandstone Wells) and Supporting Data**

PLOTTED: 3/30/2017 09:51 AM BRIAN THOMAS 12345-005-01

\\JEACAD\GWA\JONES EDMUNDS\LEE COUNTY\GWA 2017\1751\LEE WTE\_1751\_SHALLOW.DWG

WELL	GW ELEVATION
WTE-1S	16.70
WTE-2S	16.07
WTE-3SR	15.01
WTE-4S	13.47
WTE-5S	15.89
WTE-6S	12.94

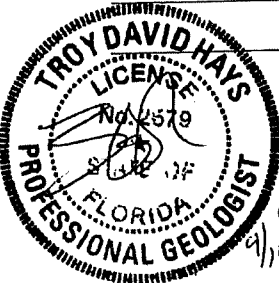
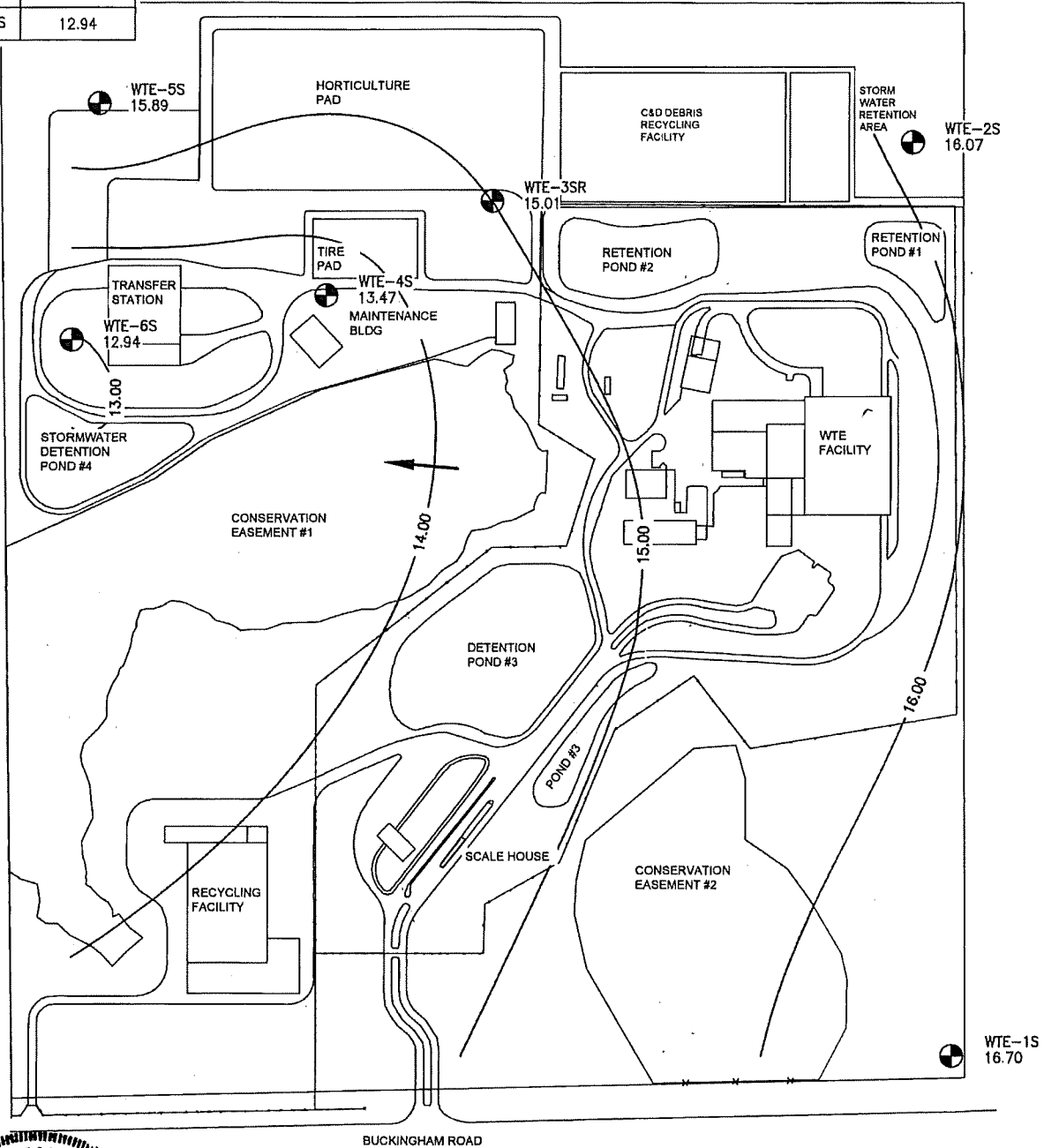
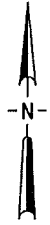
**GRAPHIC SCALE**

0 100 200 400



SCALE IN FEET

1" = 400'



LEE COUNTY WTE LANDFILL  
GROUNDWATER CONTOUR MAP  
OF THE SHALLOW SURFICIAL ZONE  
FEBRUARY 6, 2017

2/14/17

**LEGEND**

WTE-1S  
16.70

GROUNDWATER MONITORING WELL  
GROUNDWATER ELEVATION

16.00

GROUNDWATER CONTOUR  
AT 1.00 FOOT INTERVALS

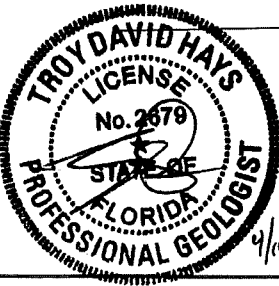
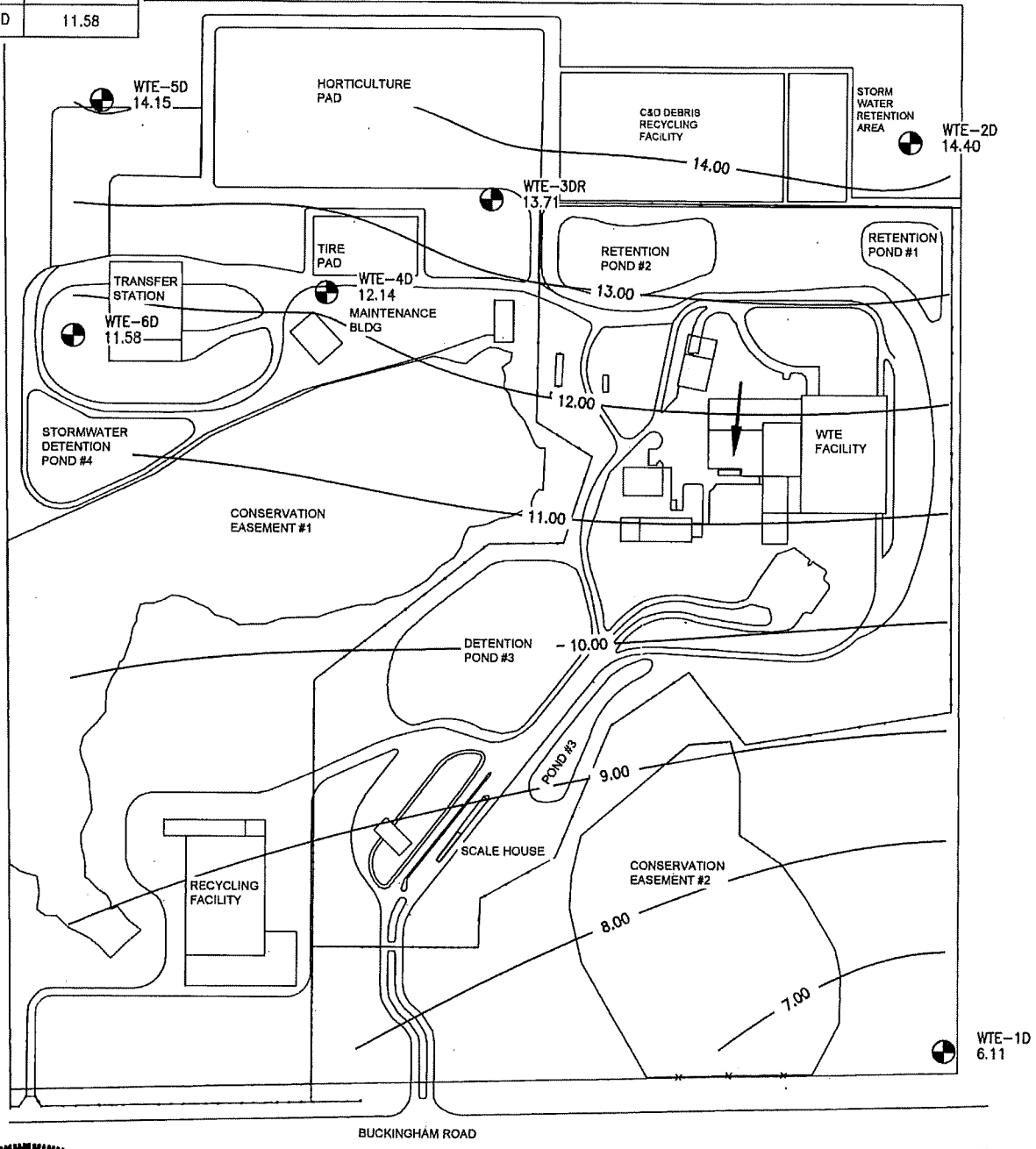
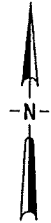
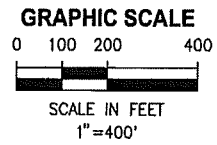


GROUNDWATER FLOW DIRECTION



PLOTTED: 4/3/2017 10:29 AM BRIAN THOMAS 12345-005-01  
 SAVED: 4/3/2017 10:26 AM BTHOMAS \\JEDACAD\GWA\JONES EDWARDS\LEE COUNTY WTE PLANT\GWA 2017\75\1\LEE WTE\_175L\_DEEP.DWG

WELL	GW ELEVATION
WTE-1D	6.11
WTE-2D	14.40
WTE-3DR	13.71
WTE-4D	12.14
WTE-5D	14.15
WTE-6D	11.58



LEE COUNTY WTE LANDFILL  
 GROUNDWATER CONTOUR MAP  
 OF THE DEEP SURFICIAL ZONE  
 FEBRUARY 6, 2017

**LEGEND**

- WTE-2D  
14.40  
GROUNDWATER MONITORING WELL  
GROUNDWATER ELEVATION
- 14.00  
GROUNDWATER CONTOUR  
AT 1.00 FOOT INTERVALS
- GROUNDWATER FLOW DIRECTION





Lee County Resource Recovery Facility  
 Ground Water Elevations for Feb. 6, 2017

Well ID	GW Elevation (ft, NGVD)	Well ID	GW Elevation (ft, NGVD)
WTE-1S	16.7	WTE-1D	6.11
WTE-2S	16.07	WTE-2D	14.4
WTE-3SR	15.01	WTE-3DR	13.71
WTE-4S	13.47	WTE-4D	12.14
WTE-5S	15.89	WTE-5D	14.15
WTE-6S	12.94	WTE-6D	11.58

All deep wells are 4 inch diameter and all shallow well are 2 inches diameter

Well No.	Elev. TOC, NGVD	Depth to Water, ft.	Water Elevation, Ft., NGVD
WTE-1S	21.91	5.21	16.7
WTE-1D	22.96	16.85	6.11
WTE-2S	24.18	8.11	16.07
WTE-2D	23.52	9.12	14.4
WTE-3SR	23.98	8.97	15.01
WTE-3DR	23.91	10.20	13.71
WTE-4S	22.48	9.01	13.47
WTE-4D	23.81	11.67	12.14
WTE-5S	23.81	7.92	15.89
WTE-5D	24.5	10.35	14.15
WTE-6S	23.66	10.72	12.94
WTE-6D	22.91	11.33	11.58

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**Attachment C – Ground Water Monitoring Well Inspection and  
Water Level Measurement Form (Shallow and Sandstone Wells)**

## Ground Water Monitoring Well Inspections & Water Level Measurements

Date: 2-6-17 Inspector Name: Dustin Rayburn  
 Site and/or Well Network Name: WTE Plant

Well ID	Well TOC, ft., NGVD	Time*	Distance to Water, ft.	Elevation, ft., NGVD	Well in Good Condition (Y/N)? **
WTE-1S	21.91	11:19	5.21		Y
WTE-1D	22.96	11:18	16.85		Y
WTE-2S	24.18	7:49	8.11		Y
WTE-2D	23.52	7:48	9.12		Y
WTE-3SR	23.98	8:29	8.97		Y
WTE-3DR	23.91	8:28	10.20		Y
WTE-4S	22.48	9:04	9.01		Y
WTE-4D	23.81	9:03	11.67		Y
WTE-5S	23.81	9:44	7.92		Y
WTE-5D	24.5	9:43	10.35		Y
WTE-6S	23.66	10:29	10.72		Y
WTE-6D	22.91	10:28	11.33		Y

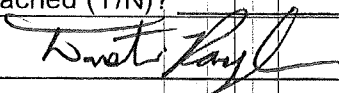
\*Enter date too if different than noted above.

\*\* If 'N' entered, explain below. Attach additional sheets if needed.

**Enter Comments Below As Needed. Ensure well ID is clearly noted for each comment.**

Additional Pages Attached (Y/N)?

Inspector Signature: \_\_\_\_\_



2-6-17

Revised 3/19/15

## Attachment D – Sampling Documentation (Shallow Wells Only)

- Ground Water (GW) Sampling Logs, FD 9000-24
- Field Sheets
  - Calibration Sheet
  - Field Data Sheet
  - Chain of Custody

*Lee County Resource Recovery Facility, PA90-30H  
Construction & Demolition Debris Recycling Facility  
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Ground Water (GW) Sampling Logs, FD 9000-24



GROUNDWATER SAMPLING LOG

SITE					LOCATION: WTE							
NAME: LEE COUNTY-SWERF-WTE WELLS-S/A					WELL NO: WTE-2S							
SAMPLE ID: 322668GW1					DATE: 2/6/2017							
PURGING DATA												
WELL		TUBING		WELL SCREEN INTERVAL		STATIC DEPTH: 8.11		PURGE PUMP TYPE: RFPP				
DIAMETER (inches): 2.0		DIAMETER (inches): 1/4"		DEPTH: feet to		DEPTH (feet):		OR BAILER:				
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY		= ( 12.00 feet - 8.11 feet) X 0.16 gallons/foot = 0.62 gallons										
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME												
(only fill out if applicable)												
= gallons + ( gallons/foot X feet) + gallons = gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.0			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.0			PURGING INITIATED AT: 7:50		PURGING ENDED AT: 8:03		TOTAL VOLUME PURGED (gal): 1.84		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
7:57	1.00	1.00	0.14	8.15	7.07	21.6	701.0	1.25	6.43	NONE	NONE	
8:00	0.42	1.42	0.14	8.15	7.07	21.6	701.0	1.25	6.09	NONE	NONE	
8:03	0.42	1.84	0.14	8.15	7.07	21.6	701.0	1.24	6.01	NONE	NONE	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88												
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.015												
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)												
SAMPLING DATA												
SAMPLED BY (PRINT) / AFFILIATION: Dustin Rayburn FCL				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 8:04		SAMPLING ENDED AT: 8:08		
PUMP OR TUBING DEPTH IN WELL (feet): 10.0				TUBING MATERIAL CODE: P:E				FIELD-FILTERED: No		FILTER SIZE: mm		
FIELD DECONTAMINATION: PUMP No				TUBING Replaced				DUPLICATE: No				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (Gal/Min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
						7.07	SEE COC	RFPP		0.14		
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)  
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)











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  - Field Data Sheet
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*Lee County Resource Recovery Facility, PA90-30H  
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First Semi-Annual 2017 Water Quality Monitoring Report*

Calibration Sheet

# FCL Field

## Calibration Sheet

Sampler: Dustin Rayburn

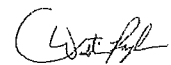
Project: LEE COUNTY-SWERF-S/A MW'S

Date: 02/06/17

Sample Site I.D.'s

Equipment Used: RFPP

Weather conditions: SUNNY/HOT



**Starting Calibration Values:**

07:20:00 AM

	Unit	Standard	Reading	Standard	Reading	Standard	Reading
pH	pH	4.00	4.00	7.00	7.00	10.00	10.00
Conductivity	us	1413	1413	25000			
Turbidity	NTU	1.00		10.00	10.00		
DO%			1.00				

**Ending Calibration Values:**

06:00:00 PM

	Unit	Standard	Reading
pH	pH	7.00	7.00
Conductivity	us	1413	1413
Turbidity	NTU	10.00	10.05
DO%			99.20

*Lee County Resource Recovery Facility, PA90-30H  
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Field Data Sheet





*Lee County Resource Recovery Facility, PA90-30H  
Construction & Demolition Debris Recycling Facility  
WACS ID No. 93715  
First Semi-Annual 2017 Water Quality Monitoring Report*

## Chain of Custody

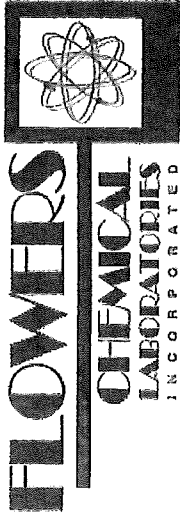
Check Box That Applies To Your Location

Flowers Chemical Laboratories, Inc.  
 481 Newburyport Ave.  
 Altamonte Springs, FL 32701  
 Bus: 407-339-5984  
 Fax: 407-260-6110

Flowers Chemical Labs-South  
 West Park Industrial Plaza  
 571 N.W. Mercantile Pl., Ste. 111  
 Port St. Lucie, FL 34986  
 Bus: 772-343-8006  
 Fax: 772-343-8089

Flowers Chemical Labs-North  
 812 S.W. Harvey Greene Dr.  
 Madison, FL 32340  
 Bus: 850-973-8878  
 Fax: 850-973-8878

Flowers Chemical Labs-Keys  
 3980 Overseas Highway, Ste. 103  
 Marathon, FL 33050  
 Bus: 305-743-8598  
 Fax: 305-743-8598



DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY [www.flowerslabs.com](http://www.flowerslabs.com)

Client: Lee County Solid Waste  
 Address: SWERF - WTE wells - S/A  
 Project Name: SWERF - WTE wells - S/A  
 P.O.#: #Use Quicklist:  
 Client Contact: Lee Co - WTE New permit  
 FOL Project Manager: Lee Co - WTE New permit  
 E-MAIL: Lee Co - WTE New permit

Phone: \_\_\_\_\_  
 Requested Due Date: \_\_\_\_\_  
 10 Day Standard: \_\_\_\_\_  
 OR  
 Rush Charges May Apply

Sampled By (PRINT): Dustin Rayburn 2-6-17  
 Date Sampled: 2-6-17  
 Sampler Signature: *Dustin Rayburn*  
 Pick-Up Fee: \$ \_\_\_\_\_  
 Vehicle Surcharge: \$ \_\_\_\_\_  
 Sampling Fee: \$ \_\_\_\_\_  
 X 6

ANALYSES REQUEST: NH<sub>4</sub>, TDS, Cl, SO<sub>4</sub>, NO<sub>3</sub>, Fe, Cd, Cr, Pb, Hg, EPA 3266 Lee  
 COMMENTS: *Lee Co*

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	LAB USE ONLY LAB NO.	PRESERVATIVES				ANALYSES REQUEST	COMMENTS	Total # Containers
						H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>			
1	WTE-2S	2-6-17	8:04	GW	322668 Gw1	X	X	X	X	NH <sub>4</sub> , TDS, Cl, SO <sub>4</sub> , NO <sub>3</sub> , Fe, Cd, Cr, Pb, Hg	<i>Lee Co</i>	5
2	WTE-3SR		8:44									
3	WTE-4S		9:19									
4	WTE-5S		10:04									
5	WTE-6S		10:47									
6	WTE-1S		11:37									
7	Trip Blank											2
8												
9												
10												

Relinquished By / Affiliation: *Dustin Rayburn*  
 Date: 2-6-17  
 Time: 14:10  
 Accepted By / Affiliation: *Jim Viapols*  
 Date: 2/6/17  
 Time: 1530  
 Relinquished By / Affiliation: *[Signature]*  
 Date: 2/7/17  
 Time: 1032

FINANCE CHARGES APPLIED TO PAST DUE INVOICES