LEE COUNTY
SOUTHWEST FLORIDA

BOARD OF COUNTY COMMISSIONERS

Bob Janes
District One

A. Brian Bigelow
District Two

Ray Judah
District Three

Tammy Hall
District Four

Frank Mann
District Five

Karen B. Hawes
County Manager

David M. Owen
County Attorney

Diana M. Parker
County Hearing Examiner

RELEASED*OCULUS*INSERTED

May 27, 2010

Mr. Charles Emery III
Solid Waste Administrator
Florida Department of Environmental Protection
P.O. Box 2549
Fort Myers, FL 33902-2549

RE: Lee County Resource Recovery Facility
WACS ID No. 00093715
Transmittal of Electronic Media
Second Quarter 2010 Water Quality Monitoring Report

Dear Mr. Emery:

Enclosed please find a compact disc (CD) containing the three (3) electronic files which comprise the referenced Water Quality Monitoring Report for the Lee County Resource Recovery Facility. The electronic files were developed in accordance with the Department's guidance document entitled 'Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program', dated June 25, 2009. The following files are provided on the enclosed CD:

93715_201004_swfdd.csv

93715_201004_swldd.csv

93715_201004.pdf (provides the written narrative and attachments)

If you have any questions pertaining to this transmittal, please call me at (239) 533-8930.

Sincerely,

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

RECEIVED
MAY 28 2010
D.E.P. South District

Attachments
Cc: FDEP, Tallahassee; FDEP Siting Coordination Office
L. Sampson, K. Howard, LCSW; G. Ball-Llovera, K.Chardo, Covanta
File II E107

LEE COUNTY
SOUTHWEST FLORIDA

BOARD OF COUNTY COMMISSIONERS

Bob Janes
District One

A. Brian Bigelow
District Two

Ray Judah
District Three

Tammy Hall
District Four

Frank Mann
District Five

Karen B. Hawes
County Manager

David M. Owen
County Attorney

Diana M. Parker
County Hearing Examiner

May 26, 2010

Mr. Charles Emery III, Solid Waste Administrator
Florida Department of Environmental Protection
P.O. Box 2549
Fort Myers, FL 33902-2549

Re: Lee County Resource Recovery Facility, PA-90-30H
Second Quarter 2010 Water Quality Monitoring Report, WACS No. 93715

Dear Mr. Emery:

Enclosed please find the Second Quarter, 2010, Water Quality Monitoring (WQM) Report for the Lee County Resource Recovery Facility (Facility). This WQM Report was prepared in accordance with the Department's requirements for submitting electronic water quality data to the Solid Waste Program. Flowers Chemical Laboratories, Inc. sampled the 'Group 2' ground water monitoring wells on April 7, 2010. The Group 2 wells include shallow (surficial aquifer) monitoring wells WTE-1S, WTE-3S, WTE-5S and WTE-6S and deep (sandstone aquifer) monitoring wells WTE-1D, WTE-3D, WTE-5D, and WTE-6D. The ground water samples were analyzed for the parameters listed in the quarterly monitoring program in accordance with the Facility's approved ground water monitoring plan dated August 1992 and revised on April 3, 1996. The results from the second quarter 2010 monitoring event were evaluated against the Department's water quality standards established in Chapter 62-550, F.A.C. and are summarized below.

Ground Water Monitoring Data Discussion

Ground water from all Group 2 shallow monitoring wells 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. The Total Dissolved Solids (TDS) concentration of ground water from wells WTE-1D, WTE-3D, WTE-5S, WTE-5D and WTE-6D exceeded 500 mg/L, which is the secondary drinking water standard for TDS as established by Rule 62-550, F.A.C. However, the referenced rule allows the TDS concentration to exceed 500 mg/L in a well if no other water quality standard is exceeded in that well. Based on this allowance, only well WTE-5S exceeded the water quality standard for TDS.

Ground water from monitoring well WTE-3D also exceeded the water quality standard for Chloride which is 250 mg/L as established by Rule 62-550, F.A.C. The TDS and Iron concentrations for wells that exceeded the corresponding water quality standard for TDS and Iron are provided in Table 1.1 below. The parameter concentrations for wells that exceeded a water quality standard for parameters other than TDS and Iron are provided in Table 1.2 below.

Table 1.1– Summary of TDS and Iron Concentrations in Wells that Exceeded Department Standards for TDS and Iron as Established in Chapter 62-550, F.A.C.

Parameter	WTE-1S	WTE-3S	WTE-5S	WTE-6S
Iron (mg/L)	2.35	1.25	2.16	1.84
TDS (mg/L)	BS	BS	600	BS
Parameter	**WTE-1D**	**WTE-3D**	**WTE-5D**	**WTE-6D**
Iron (mg/L)	BS	BS	BS	BS
TDS (mg/L)	506	1440	668	704

Department (Water Quality) Standards: Iron-0.3 mg/L; TDS-500 mg/L (except as noted); BS-Below Standard. Where TDS > 500 mg/L but no other standard exceeded, TDS is below Department standard.

Table 1.2– Summary of Concentrations in Wells that Exceeded Department Standards for Parameters Other than TDS and Iron

Parameter	WTE-3D
Chloride	516

Department (Water Quality) Standards are established in Chapter 62-550, F.A.C.; WQS: Chloride-250 mg/L

Electronic Data Files

In accordance with the Department's electronic reporting requirements, 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 and Contour Maps

The ground water elevations determined for each of the wells comprising the Facility's ground water monitoring well network are provided in Table 2 below. The elevations were determined in accordance with the Department's Standard Operating Procedures for Field Activities and specifically per FS2200, Ground Water Sampling, whereby the depth to water measurements were made at least 24 hours prior to purging and/or sampling the wells. The ground water elevations were computed using the known top of casing elevation and the depth to water measurement at each well. The data as noted above which was used to determine the ground water elevation for each of the Facility's monitoring wells are provided in Attachment B. Additionally, as required by Section A, Condition XXXI. D. of the Facility's modified Conditions of Certification PA90-30H dated March 22, 2010, the ground water elevations determined as described above and summarized in Table 2 below were used to develop ground water contour maps for the surficial and sandstone aquifers. The ground water contour maps are also provided in Attachment B of this WQM Report.

Table 2. Ground Water Elevations (ft., NGVD) Measured April 6, 2010

WELL ID	Elevation (ft., NGVD)	WELL ID	Elevation (ft., NGVD)
WTE-1S	19.81	WTE-1D	12.38
WTE-2S	19.38	WTE-2D	18.28
WTE-3S	19.4	WTE-3D	18.41
WTE-4S	16.92	WTE-4D	16.02
WTE-5S	19.28	WTE-5D	17.9
WTE-6S	16.28	WTE-6D	15.45

Field Documentation and Report Certification

This WQM Report includes the Ground Water Monitoring Report, DEP Form # 62-520.900(2), which provides the WQM Report Certification required by the Department. This WQM Report also provides copies of the sampling documents generated in the field, including the Ground Water Sampling Logs, Chain of Custodies, and other logs and/or forms which document the sampling activities performed during this monitoring event. These sampling documents are provided in the Attachments to this WQM Report.

Recommendations/Conclusions

In conclusion, the second quarter 2010 water quality data is consistent with prior monitoring results and background data for the Facility with the exception of the Chloride and Total Dissolved Solids concentrations at well WTE-3D. The parameters reported to be above the Department's water quality standards at well WTE-3D are likely due to the old flowing well previously located near well WTE-3D. Because well WTE-3D is the most upgradient deep well at the Facility, the water quality reported at well WTE-3D can not be attributed to the Facility's operations. Therefore, no additional monitoring is recommended at this time. The facility 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

LAURA A. GRAY
LICENSE
No. 50138
PROFESSIONAL ENGINEER
STATE OF FLORIDA

5/26/10

cc: J. Nemec, B. Krumbholz, DEP; L. Sampson, K. Howard, SWD;
G. Ball-Llovera, K. Chardo, Covanta; File II E107

LIST OF ATTACHMENTS

Attachment A - Ground Water Monitoring Report Certification,
DEP Form # 62-520.900(2)

Attachment B –Ground Water Contour Maps and Supporting Data

Attachment C – Ground Water Monitoring Well Inspection Forms (All wells)

Attachment D – Sampling Documentation

D.1. Quarterly Monitoring Sampling Documentation (Shallow Wells)
(Wells WTE-1S, 3S, 5S, 6S)

Chain of Custody
Field Data Sheets
Ground Water Sampling Logs, FD 9000-24

D.2. Quarterly Monitoring Sampling Documentation (Deep Wells)
(Wells WTE-1D, 3D, 5D, 6D)

Chain of Custody (Same as D.1.)
Field Data Sheets
Ground Water Sampling Logs, FD 9000-24

Attachment A-Ground Water Monitoring Report Certification, DEP Form # 62-520.900(2)

DEP Form # 62-520.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection

Bob Martinez Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 323992400

GROUND WATER MONITORING REPORT

Rule 62-520.600(11)

PART I GENERAL INFORMATION

(1) Facility Name : Lee County Resource Recovery Facility

Address 10500 Buckingham Road

City Ft. Myers Zip 33905

Telephone Number (239) 533-8000

The GMS Identification Number : WACS ID No. 93715

(3) DEP Permit Number PA 90-30

(4) Authorized Representative Name Lindsey J. Sampson

Address 10500 Buckingham Road, 2nd floor

City Ft. Myers Zip 33905

Telephone Number (239) 533-8000

(5) Type of Discharge NA

(6) Method of Discharge NA-Waste-to-Energy Facility

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: 5/26/10 Lindsey J Sampson

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # E83018

Analytical Lab Comp QAP # /HRS Certification # E83018

*Comp QAP # /HRS Certification #

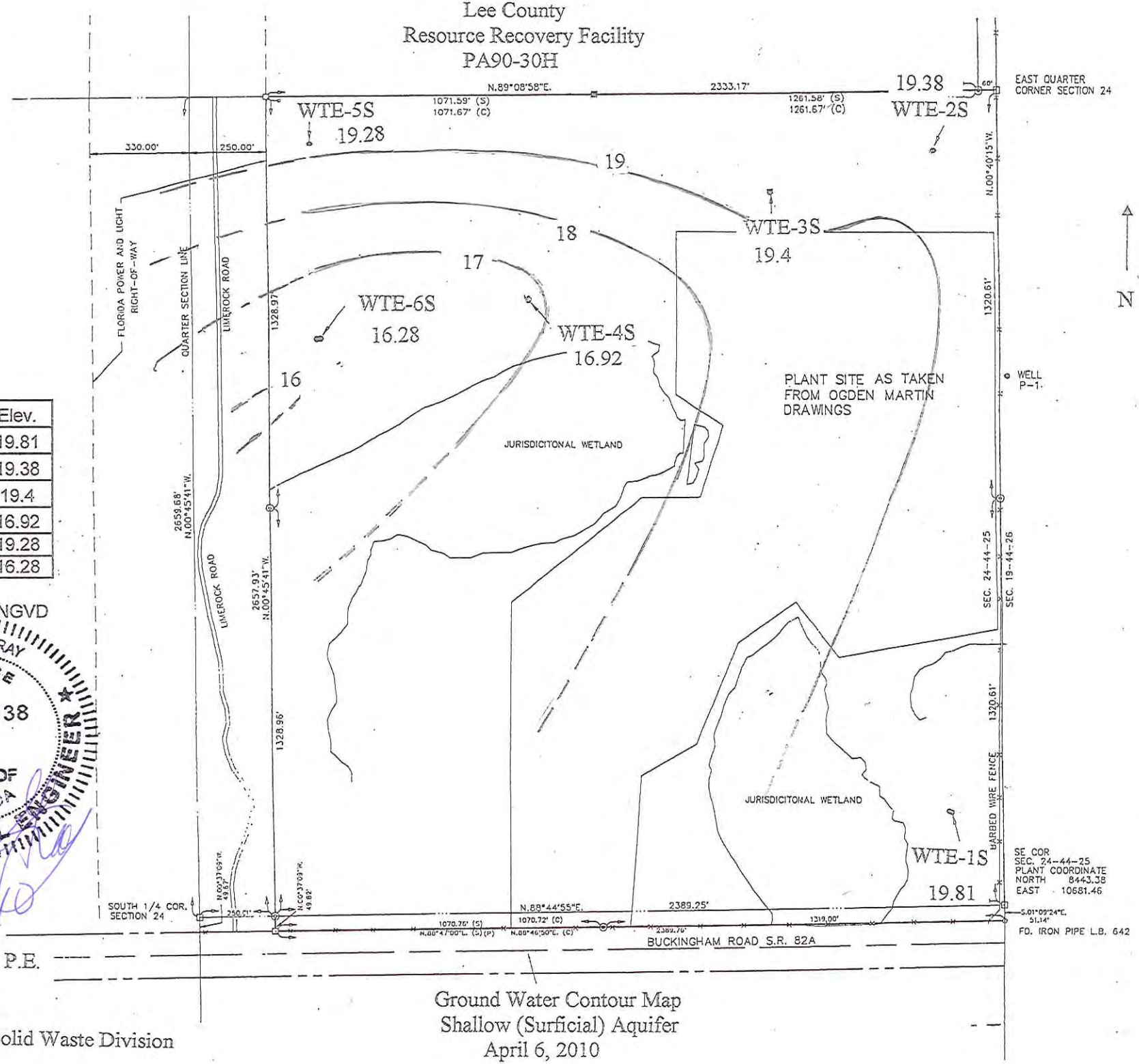
Lab Name Flowers Chemical Laboratories, Inc.

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

Phone Number (407) 339 -5984

Attachment B –Ground Water Contour Maps and Supporting Data

Lee County
Resource Recovery Facility
PA90-30H



Well No.	Elev.
WTE-1S	19.81
WTE-2S	19.38
WTE-3S	19.4
WTE-4S	16.92
WTE-5S	19.28
WTE-6S	16.28

Elev. In Ft., NGVD

LAURA A. GRAY
LICENSE
No. 50138
STATE OF FLORIDA
PROFESSIONAL ENGINEER

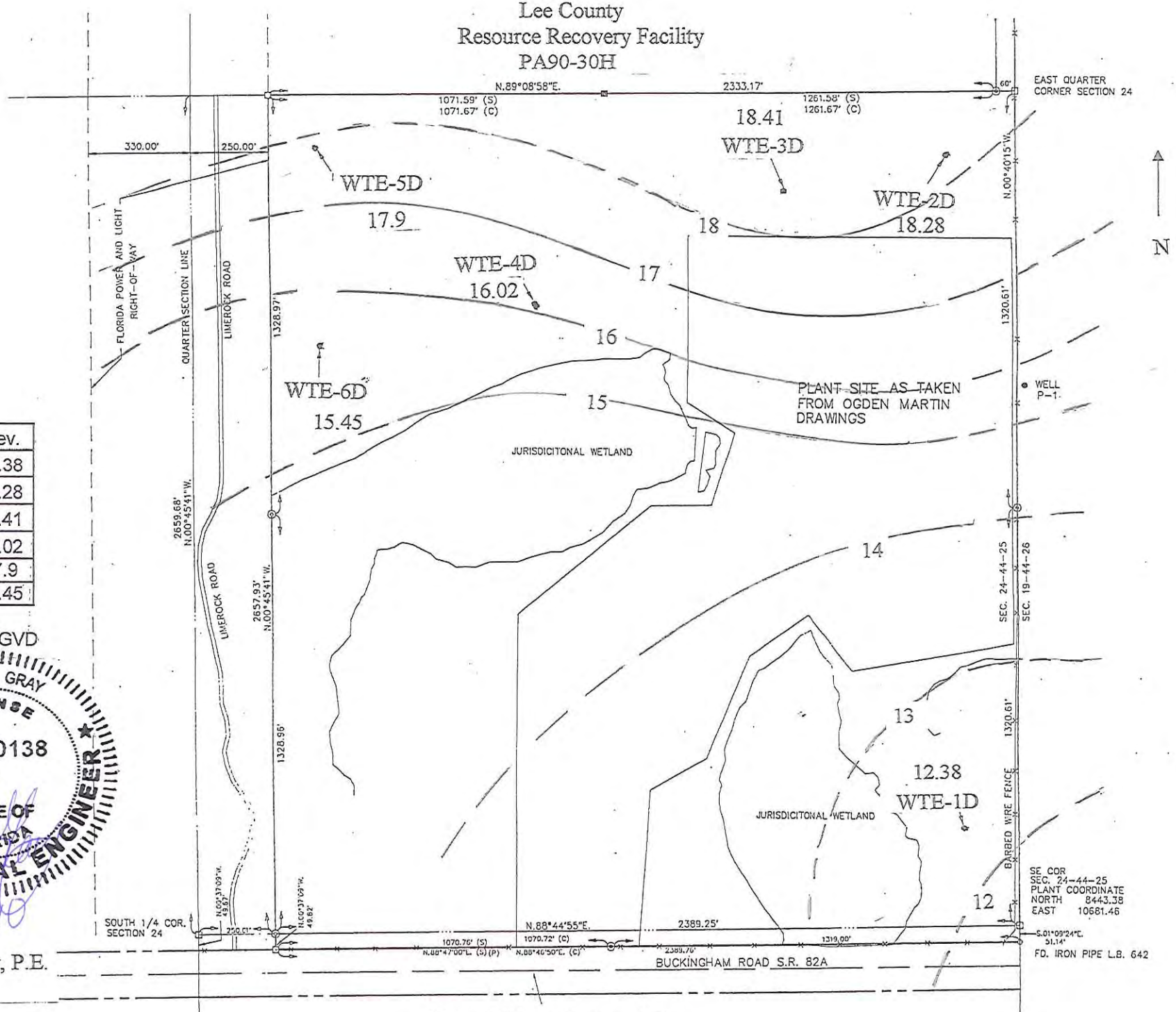
5/27/10

Laura A. Gray, P.E.
#50138

Lee County Solid Waste Division

Ground Water Contour Map
Shallow (Surficial) Aquifer
April 6, 2010

Lee County
Resource Recovery Facility
PA90-30H



Well No.	Elev.
WTE-1D	12.38
WTE-2D	18.28
WTE-3D	18.41
WTE-4D	16.02
WTE-5D	17.9
WTE-6D	15.45

Elev. In Ft. NGVD

LAURA A. GRAY
LICENSE
No. 50138
STATE OF FLORIDA
PROFESSIONAL ENGINEER

5/27/10

Laura A. Gray, P.E.
#50138

Ground Water Contour Map
Intermediate (Sandstone) Aquifer
April 6, 2010

Lee County Solid Waste Division

WTE Ground Water Monitoring Well Elevations
Elevation Computation Table Given TOC Elev and Measured Depth to Water
Depth to Water Measurements Taken on April 6, 2010 (2nd Quarter 2010)

Well No.	Elev. TOC, NGVD	Depth to Water, Ft.	Water Elevation, Ft., NGVD
WTE-1S	21.91	2.1	19.81
WTE-1D	22.96	10.58	12.38
WTE-2S	24.18	4.8	19.38
WTE-2D	23.52	5.24	18.28
WTE-3S	25.75	6.35	19.4
WTE-3D	27.13	8.72	18.41
WTE-4S	22.48	5.56	16.92
WTE-4D	23.81	7.79	16.02
WTE-5S	23.81	4.53	19.28
WTE-5D	24.5	6.6	17.9
WTE-6S	23.66	7.38	16.28
WTE-6D	22.91	7.46	15.45

Depth to Water Measurements were taken at least 24 hours prior purging wells for sampling.
All deep wells are 4 inch diameter and all shallow well are 2 inches diameter.
S' denotes a shallow (surficial aquifer) well and 'D' denotes a deep (sandstone aquifer) well.

Attachment C – Ground Water Monitoring Well Inspection Forms (All wells)

P.O. BOX 190597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5084 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-1S ✓ Shallow ___ Deep WELL DIAMETER: 2.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building X WTE Site

WELL TYPE: X Background ___ Detection ___ Compliance

TOC Elevation: 21.91' TOTAL WELL DEPTH: 14.60' STATIC DEPTH TO WATER 2.10'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 19.81

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-1D ___ Shallow ✓ Deep WELL DIAMETER: 4.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ✓ Background ___ Detection ___ Compliance

TOC Elevation: 22.96' TOTAL WELL DEPTH: 93.55' STATIC DEPTH TO WATER 10.58'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 12.38'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-2S ✓ Shallow ___ Deep WELL DIAMETER: 2.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 24.18' TOTAL WELL DEPTH: 12.00' STATIC DEPTH TO WATER 4.80

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 19.38

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything Was Inspected, Everything is OK.

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-2D ___ Shallow ✓ Deep WELL DIAMETER: 4.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 23.52' TOTAL WELL DEPTH: 93.00' STATIC DEPTH TO WATER 5.24

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 18.28

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything Was Inspected, Everything is OK.

P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-3S ✓ Shallow ___ Deep WELL DIAMETER: 2.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 25.75' TOTAL WELL DEPTH: 16.95' STATIC DEPTH TO WATER 6.35'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 19.40'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-3D ___ Shallow ✓ Deep WELL DIAMETER: 4.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 27.13' TOTAL WELL DEPTH: 92.00' STATIC DEPTH TO WATER 8.72'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 18.41'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-4S ✓ Shallow ___ Deep WELL DIAMETER: 2.00''

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 22.48' TOTAL WELL DEPTH: 13.40' STATIC DEPTH TO WATER 5.56'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.92'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-4D ___ Shallow ✓ Deep WELL DIAMETER: 4.00''

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 23.81' TOTAL WELL DEPTH: 96.00' STATIC DEPTH TO WATER 7.79'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.02'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-55 ✓ Shallow ___ Deep WELL DIAMETER: 2.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 23.81' TOTAL WELL DEPTH: 17.45' STATIC DEPTH TO WATER 4.53'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 19.28'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-5D ___ Shallow ✓ Deep WELL DIAMETER: 4.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 24.50' TOTAL WELL DEPTH: 94.00' STATIC DEPTH TO WATER 6.60

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 17.90'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-6S ✓ Shallow ___ Deep WELL DIAMETER: 2.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 23.66' TOTAL WELL DEPTH: 19.98' STATIC DEPTH TO WATER 7.38'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.28'

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

//

DATE: 4/6/10

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-6D ___ Shallow ✓ Deep WELL DIAMETER: 4.00"

LOCATION: ___ Landfill ___ Percolation Pond ___ O&M Building ✓ WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: 22.91' TOTAL WELL DEPTH: 96.00' STATIC DEPTH TO WATER 7.46'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 15.45

Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract):
Everything was Inspected, Everything is O.K.

Attachment D – Sampling Documentation

D1. Quarterly Monitoring (Shallow) Sampling Documentation
(Wells WTE-1S, -3S, -5S and -6S)

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

D.2. Quarterly Monitoring (Deep) Sampling Documentation
(Wells WTE-1D, -3D, -5D and -6D)

Chain of Custody (same as D.1.)
Field Data Sheet
Ground Water (GW) Sampling Logs, FD 9000-24

Attachment D – Sampling Documentation

D1. Quarterly Monitoring (Shallow) Sampling Documentation
(Wells WTE-1S, -3S, -5S and -6S)

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

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: 850-973-6878
Fax: 850-973-6878

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

FLOWERS CHEMICAL LABORATORIES INCORPORATED

DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY www.flowerslabs.com

Client: Lee Co. Solid Waste
Address:
Phone:
Sampled By (PRINT): Tommy Cross / Mike Payne
Sampler Signature: [signature]
Date Sampled: 4/7/10

Project Name: WTE Group 2 - Q-wells
Client Contact: Laura Gray
FCL Project Manager: Phil Lowcks
Requested Due Date: 10 Day Standard OR
P.O. #:
FAX:
E-MAIL:
Rush Charges May Apply
Quick list LeeCo-WTE Qtr. Sec Gen. Inv
Pick-Up Fee $
Vehicle Surcharge $
Sampling Fee $ ✓ +8

GW - ground water DW - drinking water WW - wastewater
SW - surface water S - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$		NH3, TKN	Cl, TDS	Cond, SO4	Zn, Mn, Fe	Fe, As, Se	TOC					COMMENTS	Total # Containers
1	WTE-1S	4/7/10	0925	GW	1206210W1	X	X	X	X			X	X	X	X	X	X						5
2	WTE-1D		0930		2																		
3	WTE-3S		1025		3																		
4	WTE-3D		1025		4																		
5	WTE-6S		1115		5																		
6	WTE-6D		1120		6																		
7	WTE-5S		1205		7																		
8	WTE-5D		1215		8																		
9																							
10																							

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
						[signature]	4/7/10	1630	[signature]	4/8/10	0636

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• **WHITE** - Lab Copy - To Be Scanned • **YELLOW** - Client Copy

Rev 04-08

Field Data Sheet

Lab# 120621

FIELD DATA SHEET

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Sampler(s) Tommy Cross Date 4/7/10 Page 1 of 5

Project Name Lee Co.: WTE - Q - wells

Sample Type	WW	SW	GW	DW	Reag.Wtr.	Sludge	Sediment	Soil	Other

Sample Site Indentification WTE-1S, WTE-3S, WTE-6S, WTE-5S

Sampling Method	Grab ☐	Composite ☐	Monitoring Well ☑	Bailer ☐	Pump ☑

Sampling Equipment Geotech II peristaltic pump, Polyethelene + Silicon Tubing

Site & Weather Conditions clear + mild

Field Instrument Beginning Calibration

											Slope
pH Meter	YES	✓	NO		Buffer	4.0	4.07	7.0	7.07	10.0	10.11
Conductivity Meter	YES	✓	NO		Buffer	100		~~1000~~ 1413	1414		
Turbidity Meter	YES	✓	NO		Buffer	1.0		10.0	10.0		
DO Meter	YES	✓	NO	99.7% saturation							

Field Filtered ☐ YES ☑ NO Duplicate ☐ YES ☑ NO Field Decontamination ☑ YES ☐ NO

Parameter	Sample Containers	pH Check
☑ Nutrient	Plastic - H_2SO_4	< 2
☑ Metals	Plastic - HNO_3	< 2
☐ Sulfide	Plastic - NaDH / Zn Acetate	< 12
☐ Cyanide	Plastic - NaDH / Zn (No sulfide)/Ascorbic Acid	> 12
☐ Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res)	
☐ Oil & Grease	Glass - HCl	< 2
☑ TOC	Plastic - HCl	< 2
☐ VOA	Glass - HCl	< 2
☐ SVOC	Glass - HCl (DW NO Chlorine Res)	
☐ Phenols	Glass - H_2SO_4	< 2
☑ Other	Unpreserved	

Well Diameter	Multiplier
1.5 inches	0.092
2.0 inches	0.163
4.0 inches	0.653
6.0 inches	1.469

Field Instrument Ending Calibration

											Slope
pH Meter	YES	✓	NO		Buffer	4.0		7.0	7.09	10.0	
Conductivity Meter	YES	✓	NO		Buffer	100		~~1000~~ 1413	1427		
Turbidity Meter	YES	✓	NO		Buffer	1.0		10.0	10.0		
DO Meter	YES	✓	NO	100.1% saturation							

General Site Information / Comments

Ground Water (GW) Sampling Logs, FD 9000-24

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE		SITE LOCATION: Lee Co.	
WELL NO: WTE-15	SAMPLE ID: WTE-15		DATE: 4/7/10

PURGING DATA

WELL DIAMETER (inches) 2.00	TUBING DIAMETER (inches) 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet) 2.06	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.60 feet – 2.06 feet) X .16 gallons/foot = 2.01 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): 6.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.00	PURGING INITIATED AT: 0904	PURGING ENDED AT: 0922	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or ~~mS/cm~~)	DISSOLVED OXYGEN (circle ~~mg/L~~ or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0914	2.25	2.25	0.21	2.37	6.93	20.3	655	0.62	1.90	none	none
0917	0.75	3.00	0.21	2.37	6.78	20.3	664	0.72	1.70		
0922	0.75	3.75	0.21	2.37	6.76	20.4	670	0.68	2.10		

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"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/FCL	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0925	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 6.00	SAMPLE PUMP FLOW RATE (mL per minute): > 1 L/hr	TUBING MATERIAL CODE: SHPE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
		See C.O.C.						

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE		SITE LOCATION: Lee Co.	
WELL NO: WTE-35	SAMPLE ID: WTE-35		DATE: 4/7/10

PURGING DATA

WELL DIAMETER (inches) 2.00	TUBING DIAMETER (inches) 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet) 6.56	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (16.95 feet – 6.56 feet) X .16 gallons/foot = 1.66 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): 9.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.00	PURGING INITIATED AT: 1004	PURGING ENDED AT: 1021	TOTAL VOLUME PURGED (gallons): 3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1010	1.75	1.75	0.19	6.65	7.36	21.8	389	0.76	9.30	none	none
1014	0.50	2.25	0.19	6.65	7.15	21.8	386	0.87	13.00		
1018	0.50	2.75	0.19	6.65	7.12	21.8	391	0.94	11.00		
1021	0.50	3.25	0.19	6.65	7.03	21.0	400	0.96	2.90		

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"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross / FCL	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 9.00	SAMPLE PUMP FLOW RATE (mL per minute): > 1 L/hr	TUBING MATERIAL CODE: SHPE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

* See C.O.C. *

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE		SITE LOCATION: Lee Co.	
WELL NO: WTE-55	SAMPLE ID: WTE-55		DATE: 4/7/10

PURGING DATA

WELL DIAMETER (inches) 2.00	TUBING DIAMETER (inches) 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet) 4.64	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (17.45 feet – 4.64 feet) X .16 gallons/foot = 2.05 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): 9.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.00	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1200	TOTAL VOLUME PURGED (gallons): 4.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1148	2.25	2.25	0.23	4.66	7.07	22.5	835	0.71	2.10	none	none
1152	0.75	3.00	0.23	4.66	6.80	22.4	844	0.65	2.00		
1156	0.75	3.75	0.23	4.66	6.77	22.3	830	0.83	2.50		
1200	0.75	4.50	0.23	4.66	6.76	22.3	841	0.70	2.00		

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"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/FCL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): 9.00	SAMPLE PUMP FLOW RATE (mL per minute): > 1Lhr	TUBING MATERIAL CODE: 5+PE	
FIELD DECONTAMINATION: (O) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
		See C.O.C.						

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE		SITE LOCATION: Lee Co.	
WELL NO: WTE-6S	SAMPLE ID: WTE-6S		DATE: 4/7/10

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.45	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (19.98 feet – 7.45 feet) X .16 gallons/foot = 2.01 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): 10.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.00	PURGING INITIATED AT: 1052	PURGING ENDED AT: 1111	TOTAL VOLUME PURGED (gallons): 4.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or ~~µS/cm~~)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1101	2.25	2.25	0.24	7.46	7.16	23.4	627	0.77	3.70	none	none
1104	0.75	3.00	0.24	7.46	6.94	23.6	615	0.94	8.60		
1107	0.75	3.75	0.24	7.46	6.89	23.6	618	0.79	17.00		
1111	0.75	4.50	0.24	7.46	6.88	23.6	621	0.93	9.00		

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"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/FCL	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	SAMPLE PUMP FLOW RATE (mL per minute): 7 L/hr	TUBING MATERIAL CODE: SHPE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

See C.O.C.

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Attachment D – Sampling Documentation

D.2. Quarterly Monitoring (Deep) Sampling Documentation
(Wells WTE-1D, -3D, -5D and -6D)

Chain of Custody (same as D.1.)
Field Data Sheet
Ground Water (GW) Sampling Logs, FD 9000-24

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: 850-973-6878
Fax: 850-973-6878

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

FLOWERS CHEMICAL LABORATORIES INCORPORATED

DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY www.flowerslabs.com

Client: Lee Co. Solid Waste
Address:
Phone:
Sampled By (PRINT): Tommy Cross / Mike Payne
Sampler Signature: [signature]
Date Sampled: 4/7/10

Project Name: WTE Group 2 - Q - wells
Client Contact: Laura Gray
FCL Project Manager: Phil Lowcks
Requested Due Date 10 Day Standard OR
P.O. #:
FAX:
E-MAIL:
Rush Charges May Apply
Quicklist: Lee Co - WTE Qtr. Sec Grt Inv
Pick-Up Fee $
Vehicle Surcharge $
Sampling Fee $ ✓ 48

GW - ground water DW - drinking water WW - wastewater
SW - surface water S - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$		NH3, TKN	Cl, TDS,	Conds, SO4	2mMetals	Fe, Mn, Se	TOC					COMMENTS	Total # Containers
1	WTE-1S	4/7/10	0925	GW	120621GW1	X	X	X	X			X	X	X	X	X	X						5
2	WTE-1D		0930		2																		
3	WTE-3S		1025		3																		
4	WTE-3D		1025		4																		
5	WTE-6S		1115		5																		
6	WTE-6D		1120		6																		
7	WTE-5S		1205		7																		
8	WTE-5D		1215		8																		
9																							
10																							

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
						[signature]	4/7/10	1630	[signature]	4/8/10	0636

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• **WHITE** - Lab Copy - To Be Scanned • **YELLOW** - Client Copy

Rev 04-08

Field Data Sheet

Lee Co.
W.T.E.

P.M. PHIL LOUCKS

FIELD DATA SHEET

LAB. # 120621

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Sampler(s) MIKE PAYNE Date 4-7-10 Page 1 of 5

Project Name WASTE TO ENERGY - Group 2 - Q - wells

Sample Type	WW	SW	GW ✓	DW	Reag.Wtr.	Sludge	Sediment	Soil	Other

Sample Site Indentification W.T.E. 1D, 3D, 5D, 6D.

Sampling Method	Grab ☑	Composite ☐	Monitoring Well ☑	Bailer ☐	Pump ☑

Sampling Equipment REPP. silicone + polyeth. tubing.

Site & Weather Conditions Mild, Breezy.

Field Instrument Beginning Calibration

											Slope
pH Meter	YES	✓	NO		Buffer	4.0	4.02	7.0	7.0	10.0	
Conductivity Meter	YES	✓	NO		Buffer	100		~~1000~~ 1413	1411		
Turbidity Meter	YES	✓	NO		Buffer	1.0		10.0	10.02		
DO Meter	YES	✓	NO		98.6%						

Field Filtered ☐ YES ☑ NO Duplicate ☐ YES ☑ NO Field Decontamination ☑ YES ☐ NO + LAB. Decon.

Parameter	Sample Containers	pH Check
☑ Nutrient	Plastic - H_2SO_4	< 2
☑ Metals	Plastic - HNO_3	< 2
☐ Sulfide	Plastic - NaDH / Zn Acetate	< 12
☐ Cyanide	Plastic - NaDH / Zn (No sulfide)/Ascorbic Acid	> 12
☐ Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res)	
☐ Oil & Grease	Glass - HCl	< 2
☑ TOC	~~Plastic~~ - HCl	< 2
☐ VOA	Glass - HCl	< 2
☐ SVOC	Glass - HCl (DW NO Chlorine Res)	
☐ Phenols	Glass - H_2SO_4	< 2
☑ Other	Unpreserved	

Well Diameter	Multiplier
1.5 inches	0.092
2.0 inches	0.163
4.0 inches	0.653
6.0 inches	1.469

Field Instrument Ending Calibration

											Slope
pH Meter	YES		NO		Buffer	4.0		7.0		10.0	
Conductivity Meter	YES		NO		Buffer	100		1000			
Turbidity Meter	YES		NO		Buffer	1.0		10.0			
DO Meter	YES		NO								

General Site Information / Comments Purged per FDEP SOP 2200. NEXT EVENT is July 2010.

Ground Water (GW) Sampling Logs, FD 9000-24

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WASTE TO ENERGY		SITE LOCATION: Lee Co.	
WELL NO: WTE 1D	SAMPLE ID: SAME		DATE: 4-7-10

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 72 feet to 62 feet	STATIC DEPTH TO WATER (feet): 10.58	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <.5
(only fill out if applicable)
= ~~0~~ gallons + (.0026 gallons/foot X 67' feet) + .25 gallons = .42 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67'	PURGING INITIATED AT: 0909	PURGING ENDED AT: 0928	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0922	1.25	1.25	0.11	10.62	7.85	22.6	874	0.94	0.20	NONE	NONE
0925	.50	1.75	↓	↓	7.87	22.8	872	0.93	0.03	↓	↓
0928	↓	2.25	↓	↓	7.77	↓	↓	0.91	0.03	↓	↓

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"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. PAYNE F.C.L.	SAMPLER(S) SIGNATURES: Mike Payne	SAMPLING INITIATED AT: 0930	SAMPLING ENDED AT: 0935
PUMP OR TUBING DEPTH IN WELL (feet): 67'	SAMPLE PUMP FLOW RATE (mL per minute): < 1 LTR.	TUBING MATERIAL CODE: S + PE	
FIELD DECONTAMINATION: (Y) N + LAB. DECON.	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
				★ SEE C.O.C.				

REMARKS: ★ NO SHEENS –

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WASTE TO ENERGY		SITE LOCATION: Lee CO.	
WELL NO: W.T.E. 3D	SAMPLE ID: SAME		DATE: 4-7-10

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 71 feet to 61 feet	STATIC DEPTH TO WATER (feet): 8.88	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <.50
(only fill out if applicable)
= 0 gallons + (.0026 gallons/foot X 66' feet) + .25 gallons = .42 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66'	PURGING INITIATED AT: 1002	PURGING ENDED AT: 1024	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1016	2.50	2.5	0.15	10.16	8.09	24.7	2239	0.95	4.67	NONE	NONE
1020	.50	3.0	↓	↓	8.06	24.5	2242	0.97	5.14	↓	↓
1024	↓	3.5	↓	↓	8.05	↓	2244	0.94	4.42	↓	↓

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" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Mike Payne F.C.L.	SAMPLER(S) SIGNATURES: Mike Payne	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 66'	SAMPLE PUMP FLOW RATE (mL per minute): < 100	TUBING MATERIAL CODE: S+PE	
FIELD DECONTAMINATION: (Y) N LAB DECON.	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
				*SEE C.O.C.				

REMARKS: *NO SHEENS –

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WASTE TO ENERGY		SITE LOCATION: Lee Co.	
WELL NO: W.T.E. 5D	SAMPLE ID: SAME		DATE: 4-7-10

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 73 feet to 63 feet	STATIC DEPTH TO WATER (feet): 6.74	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME < .50
(only fill out if applicable)
= 0 gallons + (.0026 gallons/foot X 68' feet) + .25 gallons = .42 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68'	PURGING INITIATED AT: 1148	PURGING ENDED AT: 1213	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1200	2.0	2.0	0.14	7.46	8.10	25.3	1078	1.10	2.27	NONE	NONE
1204	.50	2.5			8.05	24.9	1074	.94	2.58		
1208		3.0			7.97	25.0	1083	.87	2.07		
1213		3.5			7.93		1084	.89	2.63		

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" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Mike PAYNE F.C.L.	SAMPLER(S) SIGNATURES: Mike Payne	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 68'	SAMPLE PUMP FLOW RATE (mL per minute): < 1 LTR.	TUBING MATERIAL CODE: S+PE	
FIELD DECONTAMINATION: (Y) N +L.A.B. Decon.	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
				* SEE	C.O.C.			

REMARKS: * NO SHEENS –

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WASTE TO ENERGY		SITE LOCATION: Lee Co.	
WELL NO: W.T.E. 6D	SAMPLE ID: SAME		DATE: 4-7-10

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 75 feet to 65 feet	STATIC DEPTH TO WATER (feet): 7.67	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME < .50
(only fill out if applicable)
= Ø gallons + (.0026 gallons/foot X 70' feet) + .25 gallons = .43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 70'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 70'	PURGING INITIATED AT: 1053	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1105	2.75	2.75	0.15	8.94	8.27	25.5	899	1.48	3.51	LT. ORANGE	NONE
1110	.50	3.25			8.10	25.3	900	1.40	0.02	TINT	
1115		3.75			8.0		899	1.35	0.01		
1120		4.25			7.94	25.2	903	1.30	1.60		

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" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MIKE PAYNE	SAMPLER(S) SIGNATURES: Mike Payne	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 70'	SAMPLE PUMP FLOW RATE (mL per minute): < 1 LTR.	TUBING MATERIAL CODE: S+PE	
FIELD DECONTAMINATION: (Y) N + LAB. DECON.	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
				* SEE	C.O.C.			

REMARKS: * NO SHEENS

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)