LEE COUNTY
SOUTHWEST FLORIDA

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March 23, 2012

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, PA90-30H
First Semi-Annual 2012 Water Quality Monitoring Report
WACS ID No. 93715

Dear Mr. Emery:

Enclosed please find the First Semi-Annual 2012 Water Quality Monitoring (WQM) Report for the Lee County Resource Recovery Facility (RRF). Flowers Chemical Laboratories, Inc. (FCL) sampled the six (6) shallow (water table aquifer) monitoring wells (WTE-1S, WTE-2S, WTE-3SR, WTE-4S, WTE-5S and WTE-6S) on February 1, 2012 in accordance with the approved 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 all six (6) 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-2S and WTE-5S exceeded 500 mg/L, which is the secondary drinking water standard for Total Dissolved Solids (TDS) established by Rule 62-550, F.A.C. The concentrations of Iron and TDS in the wells that exceeded the MCL as noted above are provided in Table 1.1.

Table 1.1 – Summary of Results for Monitoring Wells which Exceeded the Water Quality Standards Established in Chapter 62-550, F.A.C.

Parameter (units)	WTE-1S	WTE-2S	WTE-3SR	WTE-4S	WTE-5S	WTE-6S
Iron (mg/L)	2.81	1.4	2.47	0.966	1.59	1.38
TDS (mg/L)	BS	522	BS	BS	540	BS

BS-Below Standard

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

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 Department's Standard Operating Procedures for Field Activities, DEP-SOP-001/01, and specifically per FS2200, Ground Water Sampling. The data used to determine the ground water elevations, i.e., top of casing elevations and depth to ground water measurements, is provided in the Attachments to this WQM Report.

Table 2. Ground Water Elevations (ft., NGVD) Measured February 1, 2012

WELL ID	Elevation (ft., NGVD)	WELL ID	Elevation (ft., NGVD)
WTE-1S	18.20	WTE-1D	9.41
WTE-2S	17.59	WTE-2D	16.08
WTE-3S	16.60	WTE-3D	15.32
WTE-4S	15.04	WTE-4D	13.79
WTE-5S	17.32	WTE-5D	15.71
WTE-6S	14.38	WTE-6D	13.18

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 for the First Semi-Annual 2012 Water Quality Monitoring Report are consistent with prior monitoring results and background data for the RRF and are typical for ground water from this geographical region. Based on these monitoring results, no additional ground water monitoring is recommended. The RRF 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

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

Attachments

Cc: Bill Krumbholz, DEP
Lindsey J. Sampson, SWD
Keith Howard, SWD
Mike Duff, Covanta
Tyler Huffman, Covanta
File II E107

LIST OF ATTACHMENTS

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

Attachment B - Ground Water Contour Maps (Shallow and Sandstone Wells) and Supporting Data

Attachment C - Ground Water Monitoring Well Inspection Forms (Shallow and Sandstone Wells)

Attachment D – Sampling Documentation (Shallow Wells)

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

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 Energy 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 Lindsey J. Sampson Title Director

Address 10500 Buckingham Road

City Fort Myers Zip 33907 County Lee

Telephone Number (239) 533-8000

Email address (if available) lsampson@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.

3/22/12 (Date)

Lindsey J. Sampson (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

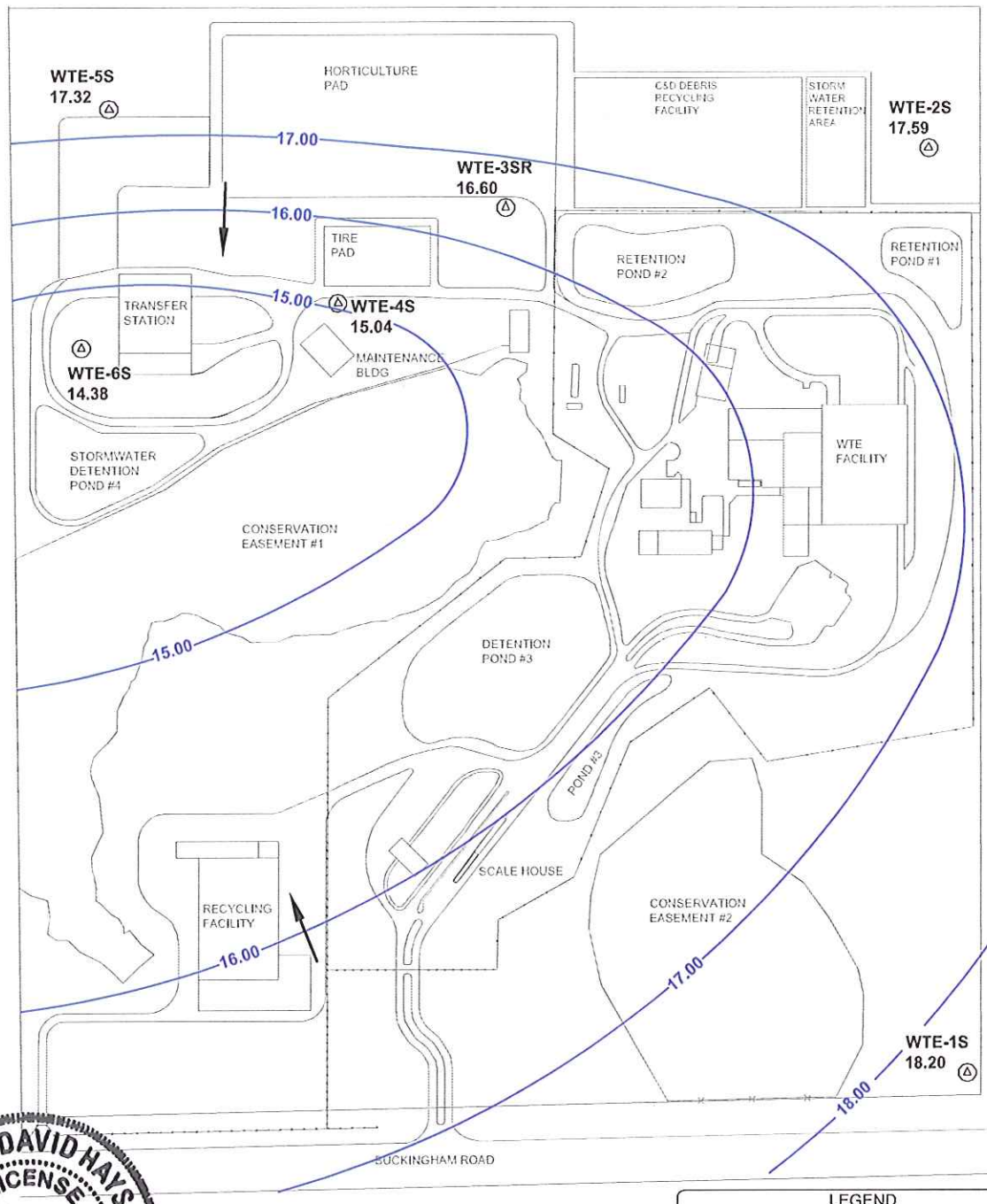
Address P.O. Box 150597, Altamonte Springs, FL 32715-0597

Phone Number (407) 339-5984

Email address (if available)

Attachment B –Ground Water Contour Maps (Shallow and Sandstone Wells) and Supporting Data

WELL	GW ELEVATION
WTE-1S	18.20 FT
WTE-2S	17.59 FT
WTE-3SR	16.60 FT
WTE-4S	15.04 FT
WTE-5S	17.32 FT
WTE-6S	14.38 FT



LEGEND

WTE-1S 18.20	GROUNDWATER MONITORING WELL WITH GROUNDWATER ELVATION (ft)
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

NOTE: NOT TO SCALE

TROY DAVID HAYS LICENSE No. 2879 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

2/8/12

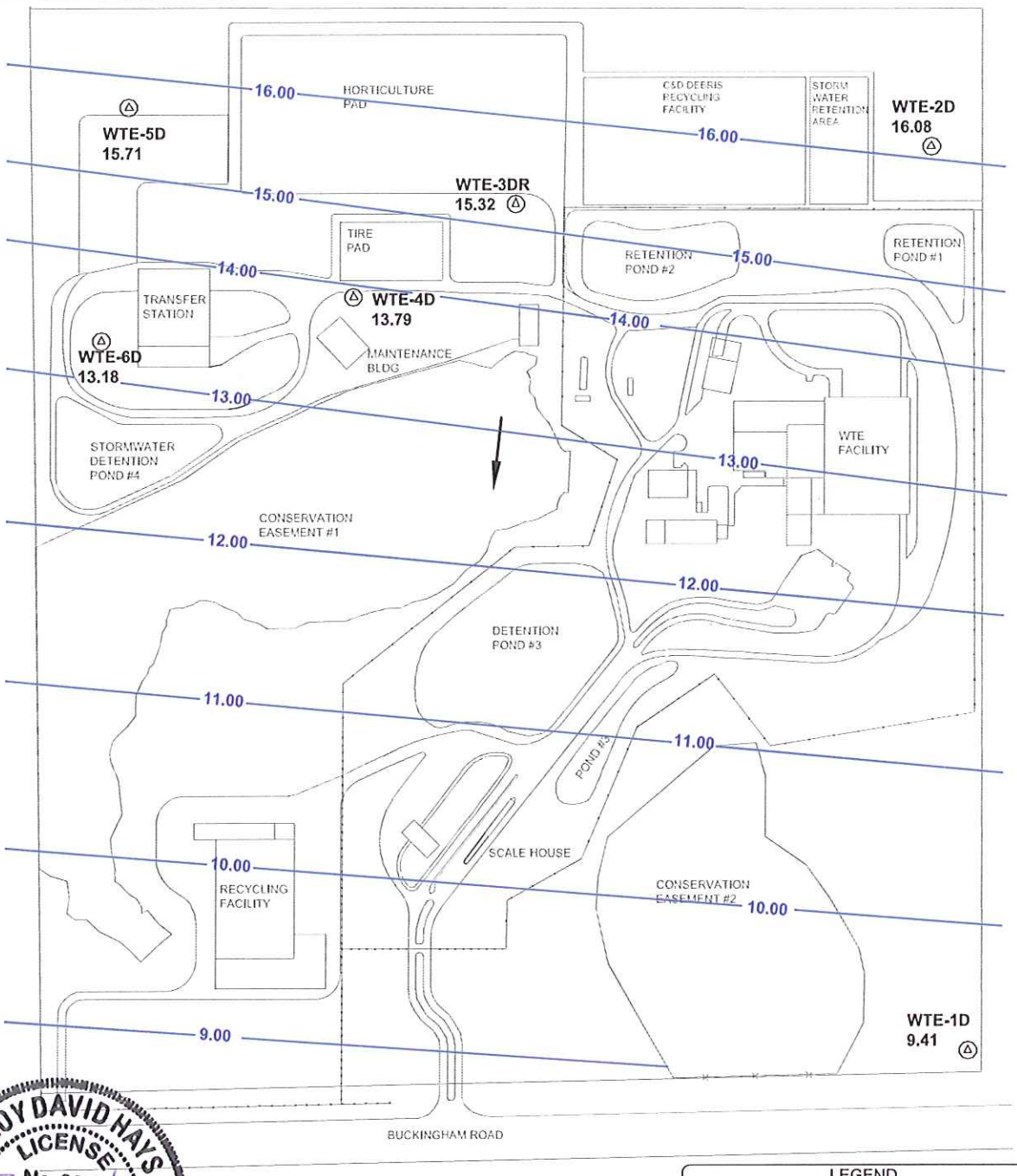
SHALLOW AQUIFER WELLS
FEBRUARY 1, 2012
SOLID WASTE ENERGY RECOVERY FACILITY
LEE COUNTY SOLID WASTE DIVISION

JONES EDMUNDS

PLOTTED: 2/8/2012 02:23 PM MICHELLE R. HAYS 12345-005-01

SAVED: 2/8/2012 9:18 AM MHAYS K:\JONES EDMUNDS\LEE COUNTY\WTE PLANT\12S1\WTE SHALLOW2-1-2012.DWG

WELL	GW ELEVATION
WTE-1D	9.41 FT
WTE-2D	16.08 FT
WTE-3DR	15.32FT
WTE-4D	13.79 FT
WTE-5D	15.71 FT
WTE-6D	13.18 FT



TROY DAVID HAYS LICENSE No. 2879 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

2/2/12

LEGEND

WTE-1D 9.41	GROUNDWATER MONITORING WELL WITH GROUNDWATER ELVATION (ft)
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

NOTE: NOT TO SCALE

DEEP AQUIFER WELLS
FEBRUARY 1, 2012
SOLID WASTE ENERGY RECOVERY FACILITY
LEE COUNTY SOLID WASTE DIVISION

JONES EDMUNDS

PLOTTED: 2/8/2012 02:36 PM MICHELLE R. HAYS 12345-005-01
SAVED: 2/8/2012 9:30 AM MHAYS K:\JONES EDMUNDS\LEE COUNTY\WTE PLANT\12S1\WTE DEEP 2-1-2012.DWG

Lee County Resource Recovery Facility
Ground Water Elevations for February 1, 2012

Well ID	GW Elevation (ft, NGVD)	Well ID	GW Elevation (ft, NGVD)
WTE-1S	18.2	WTE-1D	9.41
WTE-2S	17.59	WTE-2D	16.08
WTE-3SR	16.6	WTE-3DR	15.32
WTE-4S	15.04	WTE-4D	13.79
WTE-5S	17.32	WTE-5D	15.71
WTE-6S	14.38	WTE-6D	13.18

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	Total Depth (ft)
WTE-1S	21.91	3.71	**18.2**	14.6
WTE-1D	22.96	13.55	**9.41**	93.55
WTE-2S	24.18	6.59	**17.59**	12
WTE-2D	23.52	7.44	**16.08**	93
WTE-3SR	23.98	7.38	**16.6**	16.95
WTE-3DR	23.91	8.59	**15.32**	92
WTE-4S	22.48	7.44	**15.04**	13.4
WTE-4D	23.81	10.02	**13.79**	96
WTE-5S	23.81	6.49	**17.32**	17.41
WTE-5D	24.5	8.79	**15.71**	94
WTE-6S	23.66	9.28	**14.38**	19.98
WTE-6D	22.91	9.73	**13.18**	96

Note: WTE-3SR and WTE-3DR were installed on 9/15/10 and 10/1/10, respectively, to replace WTE-3S and WTE-3D which were relocated due to development of area for the C&D recycling facility. The Department approved the relocation of WTE-3S (to WTE-3SR) and WTE-3D (to WTE-3DR) on June 18, 2010 in letter which approved the C&D facility & its' GWM network. The C&D Facility's GWM network consists of WTE-2S (upgradient), WTE-3SR and WTE-4S (both downgradient)

Attachment C – Ground Water Monitoring Well Inspection Forms (Shallow and Sandstone Wells)

FLOWERS CHEMICAL LABORATORIES INC.
P.O. BOX 160597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5084 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD

Monitoring Well Inspection Form

DATE: 2/1/12

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-15 ✓ 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 3.71'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 18.20'

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

DATE: 2/1/12

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-10 ___ 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: 13.55' STATIC DEPTH TO WATER 13.55'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 9.41'

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

FLOWERS CHEMICAL LABORATORIES INC.
P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5984 FAX (407) 260-5110 www.flowerslabs.com

FCL/LCSWD
Monitoring Well Inspection Form

DATE: 2/1/12

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 6.59'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 17.59'

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

DATE: 2/1/12

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 7.44'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.08'

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

FLOWERS CHEMICAL LABORATORIES INC.
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: 2/1/12

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-35R ✓Shallow ___Deep WELL DIAMETER: 2.00"

LOCATION: ___Landfill ___Percolation Pond ___O&M Building ✓WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: ~~26.75~~ 23.98 TOTAL WELL DEPTH: ~~16.95~~ 16.15 STATIC DEPTH TO WATER 7.38'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.60'

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

DATE: 2/1/12

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-3DR ___Shallow ✓Deep WELL DIAMETER: 4.00"

LOCATION: ___Landfill ___Percolation Pond ___O&M Building ✓WTE Site

WELL TYPE: ___ Background ✓ Detection ___ Compliance

TOC Elevation: ~~27.13~~ 23.91 TOTAL WELL DEPTH: ~~92.00~~ STATIC DEPTH TO WATER 8.59'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 15.32'

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

FLOWERS CHEMICAL LABORATORIES INC.
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: 2/1/12

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 7.44'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 15.04'

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

DATE: 2/1/12

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 10.02'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 13.79'

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

FLOWERS CHEMICAL LABORATORIES INC.
P.O. BOX 150597, ALTAMONTE SPRINGS FL 32715-0597 PHONE (407) 339-5994 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD

Monitoring Well Inspection Form

DATE: 2/1/12

SITE NAME: WTE

SITE LOCATION: Lee County

WELL NUMBER: WTE-5S ✓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 6.49'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 17.32'

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

DATE: 2/1/12

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 8.79'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 15.71'

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

FLOWERS CHEMICAL LABORATORIES INC.
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: 2/1/12

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 9.28'

GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 14.38'

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

DATE: 2/1/12

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 9.73'

GROUNDWATER NGVD: (TOC Elevation -- Static Depth to Water) 13.18

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

QUARTERLY VISUAL EXAMINATION OF STORM WATER QUALITY

NAME DS-1

DATE 2/2/12

TIME 0915

NATURE OF DISCHARGE: RAINFALL ✓ SNOWMELT ____

COLOR: CLEAR ✓ OTHER ____ DESCRIBE ____

ODOR: ODORLESS ✓ OTHER ____ DESCRIBE ____

CLARITY: CLEAR ✓ CLOUDY ____ MUDDY ____

FLOATING SOLIDS: YES ✓ NO ____

SETTLED SOLIDS: YES ____ NO ✓

SUSPENDED SOLIDS: YES ____ NO ✓

FOAM: YES ____ NO ✓

OIL SHEEN: YES ____ NO ✓

OTHER INDICATORS OF POLLUTION? YES ____ NO ✓
IF YES, EXPLAIN: ____

The above examination was conducted on a sample collected within 30 minutes (at the most 60 minutes) after the discharge commenced. Precipitation was greater than 0.1 inch, and was from a precipitation event that occurred at least 72 hours since the previous precipitation event (greater than 0.1 inch).

SIGNED: [signature]

QUARTERLY VISUAL EXAMINATION OF STORM WATER QUALITY

NAME DS-2

DATE 2/2/12

TIME 0935

NATURE OF DISCHARGE: RAINFALL ✓ SNOWMELT ____

COLOR: CLEAR ____ OTHER ✓ DESCRIBE Light Brown Tint

ODOR: ODORLESS ✓ OTHER ____ DESCRIBE ____

CLARITY: CLEAR ✓ CLOUDY ____ MUDDY ____

FLOATING SOLIDS: YES ✓ NO ____

SETTLED SOLIDS: YES ____ NO ✓

SUSPENDED SOLIDS: YES ____ NO ✓

FOAM: YES ____ NO ✓

OIL SHEEN: YES ____ NO ✓

OTHER INDICATORS OF POLLUTION? YES ____ NO ✓
IF YES, EXPLAIN: ____

The above examination was conducted on a sample collected within 30 minutes (at the most 60 minutes) after the discharge commenced. Precipitation was greater than 0.1 inch, and was from a precipitation event that occurred at least 72 hours since the previous precipitation event (greater than 0.1 inch).

SIGNED: ____

Attachment D – Sampling Documentation (Shallow Wells)

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 1S	SAMPLE ID: WTE – 1S	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.71	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 – 3.71 feet) X 0.16 gallons/foot = 1.74 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: 0931	PURGING ENDED AT: 0946	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. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0937	1.75	1.75	0.22	3.80	7.34	21.6	610	0.57	8.33	none	none
0940	0.50	2.25	0.22	3.80	7.24	21.6	567	0.65	5.59	none	none
0943	0.50	2.75	0.22	3.80	7.19	21.7	547	0.83	4.02	none	none
0946	0.50	3.25	0.22	3.80	7.15	21.7	540	0.79	3.75	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 2S	SAMPLE ID: WTE – 2S	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.59	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)

= (12.00 feet – 6.59 feet) X 0.16 gallons/foot = 0.87 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: 1004	PURGING ENDED AT: 1017	TOTAL VOLUME PURGED (gallons): 1.50

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)
1011	1.00	1.00	0.12	6.62	7.30	20.8	592	2.03	1.05	none	none
1014	0.25	1.25	0.12	6.62	7.27	20.9	595	1.89	0.47	none	none
1017	0.25	1.50	0.12	6.62	7.23	21.0	597	1.86	1.05	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 3SR	SAMPLE ID: WTE – 3SR	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.38	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)

= (16.15 feet – 7.38 feet) X 0.16 gallons/foot = 1.40 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: 1147	PURGING ENDED AT: 1208	TOTAL VOLUME PURGED (gallons): 3.50

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1157	1.50	1.50	0.17	7.39	7.23	24.8	557	0.27	43.40	none	none
1202	1.00	2.50	0.17	7.39	7.21	25.0	540	0.43	14.80	none	none
1205	0.50	3.00	0.17	7.39	7.21	25.0	544	0.35	13.10	none	none
1208	0.50	3.50	0.17	7.39	7.21	25.0	541	0.31	9.51	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1211	SAMPLING ENDED AT: 1216
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 4S	SAMPLE ID: WTE – 4S	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.44	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)

= (13.40 feet – 7.44 feet) X 0.16 gallons/foot = 0.95 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: 1030	PURGING ENDED AT: 1046	TOTAL VOLUME PURGED (gallons): 1.50

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1040	1.00	1.00	0.08	7.45	7.28	26.9	599	0.47	0.53	none	none
1043	0.25	1.25	0.08	7.45	7.24	26.9	601	0.48	042	none	none
1046	0.25	1.50	0.08	7.45	7.21	26.9	603	0.55	0.48	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: 1055
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 5S	SAMPLE ID: WTE – 5S	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.49	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)

= (17.95 feet – 6.49 feet) X 0.16 gallons/foot = 1.75 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: 1122	PURGING ENDED AT: 1134	TOTAL VOLUME PURGED (gallons): 2.75

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1128	1.75	1.75	0.23	9.35	7.08	23.8	632	0.49	1.55	Yellow Tint	none
1131	0.50	2.25	0.23	9.35	7.02	23.9	642	0.62	1.20	Yellow Tint	none
1134	0.50	2.75	0.23	9.35	6.99	24.0	651	0.55	1.52	Yellow Tint	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1137	SAMPLING ENDED AT: 1142
PUMP OR TUBING DEPTH IN WELL (feet): 10.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: WTE	SITE LOCATION: Lee County	
WELL NO: WTE – 6S	SAMPLE ID: WTE – 6S	DATE: 2/1/12

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.28	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 – 9.28 feet) X 0.16 gallons/foot = 1.71 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): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1057	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 2.75

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)
1104	1.75	1.75	0.21	9.35	7.47	24.9	485.2	0.33	12.10	none	none
1107	0.50	2.25	0.21	9.35	7.42	25.0	485.9	0.31	12.40	none	none
1110	0.50	2.75	0.21	9.35	7.38	25.0	487.4	0.30	13.40	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" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross/ FCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1113	SAMPLING ENDED AT: 1118
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

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

REMARKS:

No sheen observed.

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 = Bailer; 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)

Revision Date: February 12, 2009

Chain of Custodies

Check Box That Applies To Your Location

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Fax: 407-260-6110

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571 N.W. Mercantile Pl., Ste. 111
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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

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Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598

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Client: Lee County Solid Waste	Project Name: WTE wells S/A	P.O. #
Address	Client Contact: Laura Gray	FAX
	FCL Project Manager: Phil Loucks	E-MAIL
Phone	Requested Due Date / 10 Day Standard OR	Rush Charges May Apply: *Quick list f. Lee Co. - WTE new permit
Sampled By (PRINT): Tommy Cross	Pick-Up Fee $	Vehicle Surcharge $
Sampler Signature	Date Sampled: 2/1/12	Sampling Fee $ ✓ +6

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

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES: NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$	ANALYSES REQUEST: NH3	Cl, TDS, SO_4, NO_3	As, Cd, Cr, Pb	Hg, Fe, Mn, Al	EPA 8260 Lee CDD	COMMENTS	Total # Containers
1	WTE-1S	2/1/12	0950	GW	168729GW1	X	X	X	X		X	X	X	X	X		6
2	WTE-2S	"	1020	"	2	"	"	"	"		"	"	"	"			"
3	WTE-4S	"	1050	"	3	"	"	"	"		"	"	"	"			"
4	WTE-6S	"	1113	"	4	"	"	"	"		"	"	"	"			"
5	WTE-5S	"	1137	"	5	"	"	"	"		"	"	"	"			"
6	WTE-35R	"	1211	"	6	"	"	"	"		"	"	"	"			"
7	Trip Blank	2/1/12	—	D.I.	7				"					"			2
8																	
9																	
10																	

< 6°C
pH < 2

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
	2/2/12	1410		2/2/12	1415

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

Field Data Sheets

July P.L.
168729

FIELD DATA SHEET

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Sampler(s) Tommy Cross Date 2/1/12 Page 1 of 7

Project Name Lee County Solid Waste: WTE S/A Wells

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

Sample Site Indentification WTE-1S, WTE-2S, WTE-4S, WTE6S, WTE-5S, WTE-351R

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

Sampling Equipment Geotech paristaltic pump, polyethelene + silicon Tubing

Site & Weather Conditions clear + Warm

Field Instrument Beginning Calibration

											Slope
pH Meter	YES	✓	NO		Buffer	4.0	4.01	7.0 ~~7.0~~	7.00	10.0	10.01
Conductivity Meter	YES	✓	NO		Buffer	147		~~1414~~	1412	12900	
Turbidity Meter	YES	✓	NO		Buffer	0.5		10.00 ~~5.0~~	9.95	40	
DO Meter	YES	✓	NO		Buffer	100.7% saturation		Adjust		From	

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

pH Meter	YES	✓	NO		Buffer	4.0		7.0 ~~7.0~~	7.0 E	10.0	
Conductivity Meter	YES	✓	NO		Buffer	147		~~1414~~	1446	12900	
Turbidity Meter	YES	✓	NO		Buffer	0.5		10.00 ~~5.0~~	10.00	20.0	
DO Meter	YES	✓	NO		Buffer	100.2% saturation		Adjust		From	

General Site Information / Comments