

Atkins North America, Inc.
482 South Keller Road
Orlando, Florida 32810-6101
Telephone: +1.407.647.7275
www.atkinsglobal.com/northamerica

40612
JPM
4/12/13

October 3, 2011

Mr. John Morris, P.G.
Southwest District Office
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Review of Semi-Annual Sampling Results
First Half 2011 Sampling Event
Hardee County Landfill
WACS Facility ID No. SWD/25/40612
Permit No. 38414-011-SO

Dear Mr. Morris:

On behalf of the Hardee County Solid Waste Department, Atkins presents this review of the results of the first half 2011 sampling event at for the facility referenced above. This document is designed to comply with the requirements of Specific Condition E.10 of the facility's permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9) (a) of the Florida Administrative Code (FAC).

BACKGROUND

The Hardee County Solid Waste Disposal Facility is an active Class I landfill which encompasses approximately 100 acres of land at 685 Airport Road in Hardee County, Florida. According to the facility's operating permit, the water quality monitoring network is designed to monitor the groundwater in the surficial aquifer, the surface water, and leachate. The groundwater monitoring network includes eight monitoring wells, which are designated MW-1, MW-2, MW-4, MW-5, MW-8, MW-10R, MW-11, and MW-12R. The facility's permit designates MW-1 and MW-4 as background wells and the other wells as detection wells. There are three other monitoring wells, MW-3, MW-6, and MW-7, which are designated by the permit as piezometers along with 15 other piezometers. Please note that piezometers P-1, P-2, and P-15 were recently abandoned. The layout of the site is presented in Figure 1.

Specific Condition E.4.d of the facility's permit specifies that groundwater samples be collected from the monitoring wells on a semiannual basis. The groundwater samples are analyzed for the analytes listed on the 40 Code of Federal Regulations (CFR) Part 258, Appendix I as well as for total ammonia, iron, chlorides, mercury, nitrate, sodium, and total dissolved solids (TDS). These analytes are also listed in Specific Condition No. 29(c) of the facility's permit.

Specific Condition E.9 of the permit calls for the collection of a leachate samples from two points - at Manhole 9 (Phase I) and at the Phase II leachate collection/detection riser. Leachate samples are

Mr. John Morris, PG
October 3, 2011
Page 2

typically collected during the first half sampling event of each year and analyzed for the laboratory analytes listed in the referenced specific condition.

Specific Condition E.8 of the permit calls for the collection of a surface water sample from one location, which is designated SW-2. The surface water samples are collected during both semiannual sampling events during the year.

The groundwater, leachate, and surface water sampling points are illustrated in Figure 1.

FIRST HALF 2011 SAMPLING EVENT

The first half 2011 sampling event was conducted on June 22nd and 23rd, 2011. Groundwater, surface water and leachate samples were collected during this event. The groundwater, surface water and leachate samples were collected in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection and analysis was performed by Flowers Chemical Laboratories inc. (FCL). FCL is a NELAC-certified laboratory. A FDEP Ground Water Monitoring Report form for the sampling event is provided in Attachment A.

Sample Collection Methodology

Prior to sampling the monitoring wells, each was purged with a peristaltic pump using the “low-flow” method. A minimum equivalent of three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin. Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. Water level readings were also made at all of the piezometers listed in the permit. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well and piezometer. The TOC elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD). The groundwater sampling logs and field equipment calibration logs are provided in Attachment B.

The surface water sample was collected through polyethylene tubing using a peristaltic pump. The inlet to the tubing was placed at about mid-depth of the surface water body.

All of the samples were placed in laboratory-prepared containers, placed on ice, and carried to FCL for analysis of the analytes listed in the applicable specific conditions of the facility’s permit.

FIRST HALF 2011 SAMPLING EVENT RESULTS

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the eight monitoring wells and 15 piezometers during this sampling event. The groundwater level elevation data from this event are presented in Table

Mr. John Morris, PG
October 3, 2011
Page 3

1. The groundwater elevation data were plotted and contoured to generate the groundwater elevation contour map presented in Figure 2. The data indicated that the groundwater in the surficial aquifer beneath the landfill was flowing in a south-southeasterly direction at the time of this sampling event. The water table gradient measured approximately 0.002 feet per foot beneath the site.

Sampling Results

A description of the detections in the groundwater, surface water and leachate is presented below. The leachate analytical results were not available at the time of the issuance of this report and will be forwarded under separate cover.

Groundwater Analytical Results

There were numerous inorganic analytes but no organic analytes detected in the groundwater samples collected and analyzed during this sampling event. The inorganic analyte detections included all of those which are part of the analytical program except antimony, beryllium, cadmium, cobalt, mercury, silver, and thallium. At least one inorganic analyte was detected at every well in the monitoring network.

The concentrations of all of the analytes which were detected in the groundwater were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapter 62-550 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS. There were two analytes detected at concentrations higher than the standards – pH and iron. Both of these analytes have SDWS standards. A description of the detection patterns with these two analytes is described below.

- pH - The standard for pH is any value within the range of 6.5 to 8.5. The pH value at all of the wells but MW-2 were at 6.5 or lower and measured as low as 4.66 at well MW-1. The pH values at both of the background wells, MW-1 and MW-4, were lower than the standard range. The pH value at MW-2 was 6.62.
- The standard for iron is 0.3 milligrams per liter (mg/L). The iron concentration in the samples collected at all wells exceeded the standard. The iron concentrations at both of the background wells were higher than the standard.

A summary of the groundwater analytical results is presented in Table 2, and the laboratory analytical report is provided in Attachment C.

Surface Water Analytical Results

There were several inorganic analytes and no organic analytes detected in the surface water sample SW-2. The concentration of every analyte that was detected in the surface water sample was compared to the State surface water quality standards, and the only analyte that was inconsistent with the standard was dissolved oxygen (DO). The DO concentration measured 3.75 milligrams per liter (mg/L), which is lower than the standard of greater than 5 mg/L. The surface water standards are promulgated by Chapter

Mr. John Morris, PG
October 3, 2011
Page 4

62-302, FAC. A summary of the surface water analytical results is presented in Table 3 and the laboratory analytical report is provided in Attachment C.

Leachate Water Analytical Results

Specific Condition E.9.a of the facility permit specifies that leachate samples be collected from two locations on an annual basis. The collection points are Manhole 9 (Phase I) and Phase II Leachate Collection/Detection Riser. Sampling occurred on June 23, 2011 and a sample was collected from the Manhole 9 (Phase I) location. The Phase II sample location was found to be dry.

There were numerous inorganic analytes and four organic analytes detected in the leachate sample. The concentration of every parameter that was detected in the leachate was compared to regulatory levels listed in 40 CFR Part 261.24, as required by the Florida solid waste regulations. The only analyte that exceeded its standard was dissolved oxygen. A summary of the leachate water analytical results is presented in Table 4 and the laboratory analytical report is provided in Appendix C.

SUMMARY AND CONCLUSIONS

The results of the first half 2011 sampling event at the Hardee County Solid Waste Disposal Facility were consistent with those of the recent sampling events, with numerous inorganic detections in the groundwater and surface water and no organic analyte detections. There were four analytes detected outside of the regulatory standards; pH, arsenic and iron were detected in the groundwater at concentrations in excess of the regulatory criteria, and DO was detected below the target range in the surface water.

Based on these findings, the facility does not appear to be having a significant effect on groundwater and surface water quality. Atkins recommends that the analytical results in future sampling events be monitored closely for any developing trends. If you have any questions regarding the information presented in this report, please call me at (407) 806-4104.

Very truly yours,



David E. Deans, PE
Vice President
Florida PE No. 31095

CC: Ms. Teresa Carver, Hardee County Solid Waste Department, 685 Airport Road, Wauchula, FL
33873 (2 copies)
File 100018228

TABLES

Table 3
Surface Water Analytical Summary
Hardee County Landfill
First Half 2011

| Analyte | Location: | | SW-2 |
|--|----------------------|-------------------|------------|
| | Sample Identifier: | | SW-2 |
| | Date of Test: | | 06/22/11 |
| | Standard(1) | Units | |
| <i>Field Measurements</i> | | | |
| Temperature | | deg. C | 30.4 |
| pH | 6-8.5 | STD | 7.22 |
| Conductivity | 1275 | umhos/cm | 409 |
| Dissolved Oxygen (DO) | >5 | mg/l | 3.75 |
| Turbidity | 29+ | NTU | 8.9 |
| <i>Inorganics</i> | | | |
| Unionized ammonia (as N) | 20 | mg/L | .000100 U |
| Nitrate (as N) | | mg/L | .0100 U |
| Nitrite (as N) | | mg/L | .0200 U |
| Total Dissolved Solids (TDS) | | mg/L | 348 |
| Aluminum | | mg/L | .0460 |
| Antimony | 4300 | mg/L | .00200 U |
| Arsenic | 50 | mg/L | .00179 I |
| Barium | | mg/L | .0177 |
| Beryllium | 0.13 | mg/L | .000500 U |
| Cadmium | 1.41 ⁽²⁾ | mg/L | .00100 U |
| Chromium | 108.1 ⁽³⁾ | mg/L | .00274 |
| Cobalt | | mg/L | .00100 U |
| Copper | 11.8 ⁽⁴⁾ | mg/L | .00100 U |
| Iron | 0.3 | mg/L | .127 |
| Lead | 4.53 ⁽⁵⁾ | mg/L | .00100 U |
| Mercury | 0.002 | mg/L | .0000200 U |
| Nickel | 65.9 ⁽⁶⁾ | mg/L | .00404 |
| Selenium | 5 | mg/L | .00200 U |
| Silver | 0.07 | mg/L | .000500 U |
| Sulfate | | mg/L | 13.4 |
| Thallium | 6.3 | mg/L | .00100 U |
| Vanadium | | mg/L | .00119 I |
| Zinc | 151.5 ⁽⁷⁾ | mg/L | .00100 U |
| Fecal coliform | 800 | cfu/100mL | 1.00 |
| Total Hardness (as CaCO ₃) | | mg/L | 177 |
| Total Organic Carbon (TOC) | | mg/L | 23.5 |
| Total Nitrogen | | mg/L | 2.33 |
| Total Phosphorus | | mg/L | 1.11 |
| Phenolics | | mg/L | .00500 U |
| Biological Oxygen Demand (BOD) | | mg/l | 3.68 D |
| Chemical Oxygen Demand (COD) | | mg/L | 150 |
| Chlorophyll A | | mg/m ³ | 3.74 |
| Total Keldahl Nitrogen (TKN) (as N) | | mg/l | 2.32 |
| <i>Organics</i> | | | |
| 1,1,1,2-Tetrachloroethane | | ug/l | .500 U |
| 1,1,1-Trichloroethane | | ug/l | .500 U |
| 1,1,2,2-Tetrachloroethane | 10.8 | ug/l | .100 U |
| 1,1,2-Trichloroethane | | ug/l | .500 U |
| 1,1-Dichloroethane | | ug/l | .500 U |
| 1,1-Dichloroethylene | 3.2 | ug/l | .500 U |
| 1,2-Dichloroethane | | ug/l | .500 U |
| 1,2-Dichloropropane | | ug/l | .200 U |

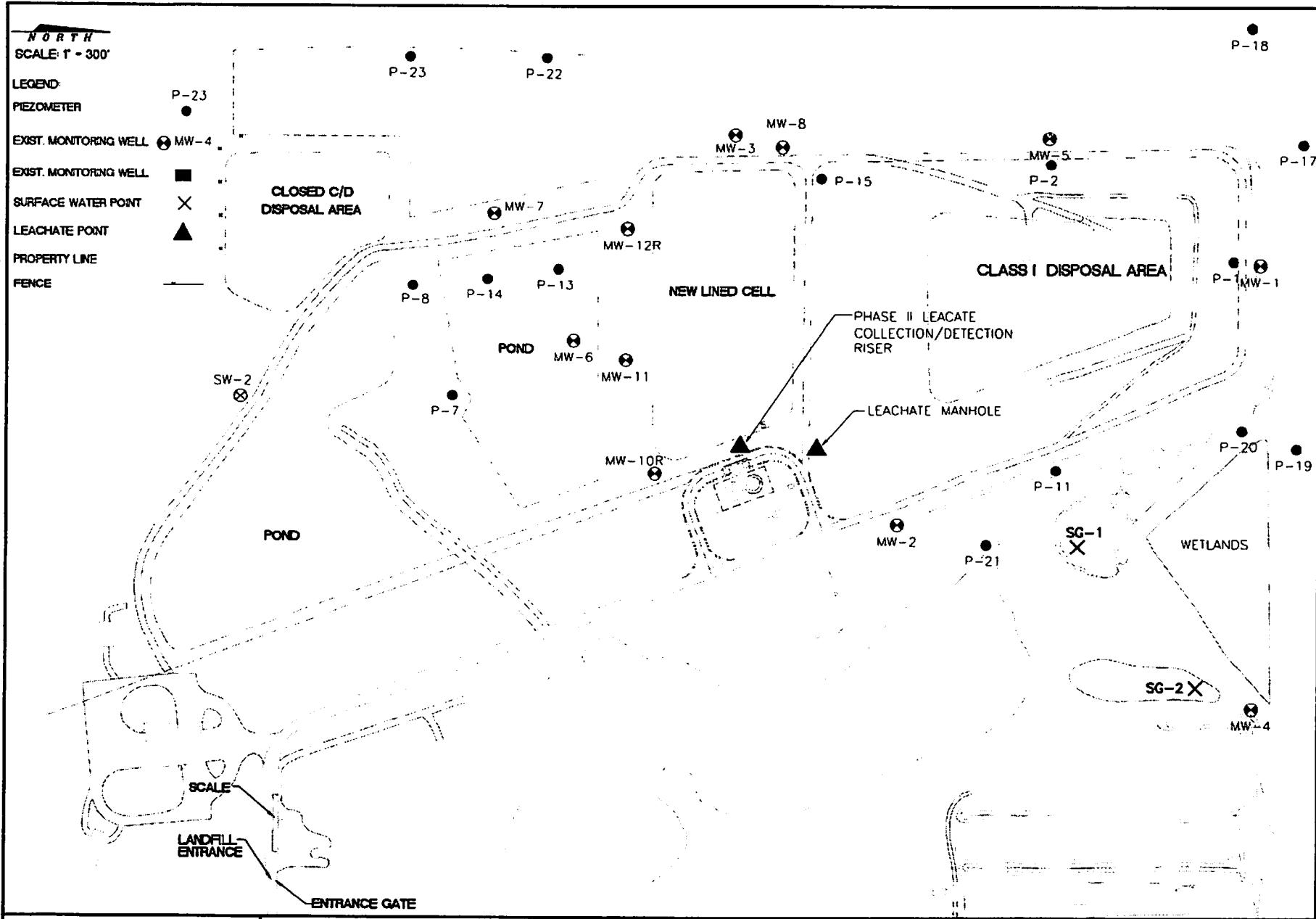
| Analyte | Location: | SW-2 |
|-----------------------------|--------------------|----------|
| | Sample Identifier: | SW-2 |
| | Date of Test: | 06/22/11 |
| Standard(1) | Units | |
| 2-Butanone (MEK) | ug/l | .500 U |
| 2-Hexanone | ug/l | .500 U |
| 2-Chloroethylvinylether | ug/l | NR |
| Acetone | ug/l | 5.00 U |
| Acrolein | ug/l | NR |
| Acrylonitrile | ug/l | .300 U |
| Benzene | 71.28 | ug/l |
| Bromochloromethane | ug/l | .100 U |
| Bromodichloromethane | 22 | ug/l |
| Bromoform | ug/l | .500 U |
| Bromomethane | ug/l | .500 U |
| Carbon disulfide | ug/l | 1.00 U |
| Carbon tetrachloride | 4.42 | ug/l |
| Chlorobenzene | ug/l | .500 U |
| Chloroethane | ug/l | .500 U |
| Chloroform | ug/l | .500 U |
| Chloromethane | 470.8 | ug/l |
| Dibromochloromethane | ug/l | .400 U |
| Dibromomethane | ug/l | .500 U |
| Ethylbenzene | ug/l | .500 U |
| m-Dichlorobenzene | ug/l | NR |
| Methyl iodide | ug/l | 1.00 U |
| Methyl isobutyl ketone | ug/l | 1.00 U |
| Methylene chloride | ug/l | 1.00 U |
| Para-dichlorobenzene | ug/l | .500 U |
| Styrene | ug/l | .500 U |
| Tetrachloroethene | ug/l | .500 U |
| Toluene | ug/l | .500 U |
| Trichloroethene | 80.7 | ug/l |
| Trichlorofluoromethane | ug/l | .500 U |
| Vinyl Acetate | ug/l | 5.00 U |
| Vinyl chloride | ug/l | .500 U |
| Xylenes | ug/l | 1.00 U |
| cis-1,2-Dichloroethene | ug/l | .200 U |
| cis-1,3-Dichloropropene | ug/l | .500 U |
| o-Dichlorobenzene | ug/l | .500 U |
| trans-1,2-Dichloroethene | ug/l | .500 U |
| trans-1,3,-Dichloropropene | ug/l | .500 U |
| trans-1,4-Dichloro-2-butene | ug/l | 1.00 U |

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units; mg/m³ = milligrams per cubic meter. NR = Not Reported

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level. Lowest value of hardness was used to determine calculated standards below.

- (2) Cd less than or equal to e(0.7852(lnH)-3.49)
- (3) Cr less than or equal to e(0.819(lnH)+0.6848)
- (4) Cu less than or equal to e(0845(lnH)-1.702)
- (5) Pb less than or equal to e(1.273(lnH)-4.705)
- (6) Ni less than or equal to e(0.846(lnH)+0.0584)
- (7) Zn less than or equal to e(0.8473(lnH)+0.884)

FIGURES



ATTACHMENT A

Ground Water Monitoring Report Form

Florida Department of Environmental Protection

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

| |
|--|
| DEP Form # <u>62-522.900(2)</u> |
| Form Title <u>Ground Water Monitoring Report</u> |
| Effective Date _____ |
| DEP Application No _____ |

GROUND WATER MONITORING REPORT Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Hardee County Solid Waste Disposal Facility

Address 685 Airport Road

City Wachula, Florida

Zip 33873

Telephone Number (863) 733-5089

(2) The GMS Identification Number 4025C30001

(3) DEP Permit Number 38414-007-SO

(4) Authorized Representative Name David E. Deans, PE, BCEE, Atkins

Address 482 Keller Road

City Orlando, Florida

Zip 32810

Telephone Number (407) 806-4104

(5) Type of Discharge N/A

(6) Method of Discharge N/A

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: _____

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # Atkins

Analytical Lab Comp QAP # /HRS Certification # E83018

*Comp QAP # /HRS Certification # _____

Lab #1: Flowers Chemical Laboratories, Inc. , 481 Newburyport Avenue, Altamonte Springs, FL 32715

Lab #2 _____

Phone Number (407) 339-5984

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: June 2011

Site ID #: _____ Report Period: First Half 2011
 (year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water: _____ Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____ () Compliance
 () Other
 or (MSL): _____

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date/Time | * Analysis Results/Units | Detection Limits/Units |
|-------------|---|-----------------|--------------------|-----------------|--------------------|--------------------------|------------------------|
| | Please see sampling report, Forms, and laboratory report. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

* Attach Laboratory Reports

ATTACHMENT B

Groundwater Sampling Logs and Field Equipment Calibration Logs

Check Box That Applies To Your Location

Flowers Chemical
Laboratories, Inc.
481 Newburyport Ave.
Altamonte Springs, FL 32701
Bus: 407-339-5984
Fax: 407-280-6110

Flowers Chemical
LADs-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: 850-973-6876
Fax: 850-973-6878

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



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

Client

Atkins

Address:

Prints Now

100%
Chancery

10

10

Photo

Page 1

EMI

Sampled By (PRINT)

Terry Gross

Sample Signature

Date Sampled

PRESERVATIVES

COMMENTS

Final & Contingencies

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

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

Flowers Chemical Laboratories
 481 Newburyport Ave.
 Altamonte Springs, FL 32701

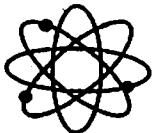
KIT REQUEST FORM

Phone (407) 339-5984 Fax (407) 250-6110

| Total Con- ta- iners per Sample | C o n t a i n e r s tri p | M a t ri x | Preservative | | | | | | | | | | | | Plastic | | | | | | Glass Containers | | | | | | | | | | | |
|--|--|------------------------|-----------------------------------|------------------|----------------|--------------------------------|--------|--------------------------|-------------------|--------------------------|--------------------------|-------------------------------------|-------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------|--------------------------|-----------|-------------------|---|--------|--------|--------|--------|-----------------|----------------------------|--|--|--|--|
| | | | M et al l e s 3 | H 2 O 2 | Zn H3 O2 | N 2 | H 2 | N a | Na SO4/ ALK | H Cl L | N 4 | 125 mL | 250 mL | 250 mL | 500 mL | L | Whit Pax | Car Bottle | 40 mL vial | 125 mL | 250 mL | 1 | 1 L | 1 L | 4 L | 4 L | 8 oz Soil | 300 mL BOD Bottle | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | App I metals + Al, Fe + Hardness | 1 | SW | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | App I 8260 / TOC | 3 | SW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Fecal Coliform | 1 | SW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Unionized NH3/Phen/TN/TP/COD | 1 | SW | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | TDS,TSS | 1 | SW | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 1 | BOD,NO3,SO4 | 1 | SW | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 1 | Chlorophyll a | 1 | SW | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| 2 | EPA8011 | 2 | SW | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Hardee Landfill 2 of 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ship To: | | | Client # | | | Date Ordered: | | | | | | Date to be Shipped: | | | | | | Date Needed: | | | | | | | | | | | | | | |
| Atkins | | | | | | 06/15/11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATTN: Greg Mudd | | | | | | Extra Coolers: | | <input type="checkbox"/> | (L) | <input type="checkbox"/> | (M) | <input type="checkbox"/> | (S) | Trip Blanks: | | <input type="checkbox"/> | 1 | w/HCl | <input type="checkbox"/> | w/o HCl | Customer Pick Up: | | | | | | | | | | | |
| Project: HardeeLandfill | | | | | | Custody Chain: | | <input type="checkbox"/> | 1 | Env. | <input type="checkbox"/> | DW | Temp Blank: | | <input type="checkbox"/> | Ballers: | <input type="checkbox"/> | Date: | | Time: | | | | | | | | | | | | |
| Location: Surface Water | | | | | | Special Notes: | | Cooler ID | | | | SHIPPING METHOD | | | | | | | | | | | | | | | | | | | | |
| Sampling Dates: | | | | | | Use QuickGet "LandfillSurface" | | | | | | <input type="checkbox"/> | | STD. DHL | <input type="checkbox"/> | | DHL Next Day | | | | | | | | | | | | | | | |
| | | | | | | No Headspace in vials | | | | | | <input type="checkbox"/> | | Fed-Ex Flowers Account | <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> | | Fed-Ex Client Account # | <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | <input checked="" type="checkbox"/> | | Other: Tommy & Robert | <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
| SAMPLE KIT ID: | | | | | | | | | | | | Thank You for Your Business | | | | | | | | | | | | | | | | | | | | |

ATTACHMENT C

Groundwater and Surface Water Analytical Report



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Report Summary

Date Received: Jun 22, 2011

FCL Project Manager: June S. Flowers

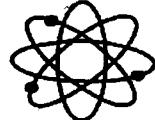
| Laboratory # | Sample Description | Analysis | Chemist | Location | Sample Matrix |
|--------------|--------------------|--------------|---------|----------|---------------|
| 152688SW1 | 21062/SW-2 | EPA351.2 | VLB | Main Lab | Surface Water |
| | | EPA353.2 | PCW | Main Lab | |
| | | EPA365.4 | VLB | Main Lab | |
| | | EPA375.2 | PCW | Main Lab | |
| | | EPA410.4 | CTH | Main Lab | |
| | | EPA420.1 | PCW | Main Lab | |
| | | EPA6010 | EVB | Main Lab | |
| | | EPA6020 | EVB | Main Lab | |
| | | EPA7470 | EVB | Main Lab | |
| | | EPA8011 | DLJ | Main Lab | |
| | | EPA8260 | CLS | Main Lab | |
| | | FDEP DEP-SOP | PCW | Main Lab | |
| | | FT1100 | RJC | Main Lab | |
| | | FT1200 | RJC | Main Lab | |
| | | FT1400 | RJC | Main Lab | |
| | | FT1500 | RJC | Main Lab | |
| | | FT1600 | RJC | Main Lab | |
| | | SM10200 H | TRB | Main Lab | |
| | | SM2340 B | EVB | Main Lab | |
| | | SM2540 C | PLB | Main Lab | |
| | | SM2540 D | PLB | Main Lab | |
| | | SM5210 B | CCP | Main Lab | |
| | | SM5310 B | PCW | Main Lab | |
| | | SM9222 D | TRB | Main Lab | |
| | | TotNit | | | |
| 152688SW2 | Trip Blank | EPA8260 | CLS | Main Lab | Surface Water |

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

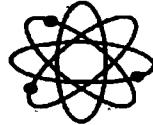
Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Analysis Report

Lab #: 152688SW1 Sampled: 06/22/11 11:30 AM Desc: 21062/SW-2

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|---------------------------|----------|-----------|------|--------|--------|----------|----------|------------|-------------------|
| Total Nitrogen(as N) | 2.33 | | | 0 | | | TotNit | 17778-88-0 | |
| Nitrate(as N) | 0.0100 U | mg/L | 1.00 | 0.0100 | 0.0200 | 10176458 | EPA353.2 | 14797-55-8 | 06/23/11 10:49 AM |
| Nitrite(as N) | 0.0200 U | mg/L | 1.00 | 0.0200 | 0.0400 | 10176458 | EPA353.2 | 14797-65-0 | 06/23/11 10:49 AM |
| TSS | 21.4 | mg/L | 1.00 | 1.00 | 2.00 | 10176553 | SM2540 D | E1642818 | 06/24/11 |
| TDS | 348 | mg/L | 1.00 | 2.50 | 5.00 | 10176666 | SM2540 C | 10-33-3 | 06/24/11 |
| Fecal Coliform | 1.00 | cfu/100mL | 1.00 | 1.00 | 1.00 | 10176710 | SM9222 D | E761792 | 06/22/11 03:50 PM |
| BOD5day | 3.68 D | mg/L | 1.00 | 2.00 | 2.00 | 10176723 | SM5210 B | E1640606 | 06/24/11 11:00 AM |
| TOC | 23.5 | mg/L | 1.00 | 1.00 | 2.00 | 10176726 | SM5310 B | E701250 | 06/28/11 |
| Field pH (units) | 7.22 | pH | 1.00 | 0.0100 | 0.0200 | 10176770 | FT1100 | C006 | 06/22/11 |
| Field Conductivity | 409 | umhos/cm | 1.00 | 0.100 | 0.100 | 10176770 | FT1200 | | 06/22/11 |
| Field Temp. (C) | 30.4 | oC | 1.00 | 0.100 | 0.100 | 10176770 | FT1400 | | 06/22/11 |
| Field DO | 3.75 | mg/L | 1.00 | 0.100 | 0.100 | 10176770 | FT1500 | | 06/22/11 |
| Field Turbidity | 8.90 | NTU | 1.00 | 0.100 | 0.100 | 10176771 | FT1600 | | 06/22/11 |
| 1,1,1,2-Tetrachloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 630-20-6 | 06/29/11 |
| 1,1,1-Trichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 71-55-6 | 06/29/11 |
| 1,1,2,2-Tetrachloroethane | 0.100 U | ug/L | 1.00 | 0.100 | 0.200 | 10176843 | EPA8260 | 79-34-5 | 06/29/11 |
| 1,1,2-Trichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 79-00-5 | 06/29/11 |
| 1,1-Dichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-34-3 | 06/29/11 |
| 1,1-Dichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-35-4 | 06/29/11 |
| 1,2-dichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 107-06-2 | 06/29/11 |
| 1,2-dichloropropane | 0.200 U | ug/L | 1.00 | 0.200 | 0.400 | 10176843 | EPA8260 | 78-87-5 | 06/29/11 |
| 2-Butanone (MEK) | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 78-93-3 | 06/29/11 |
| 2-Hexanone | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 591-78-6 | 06/29/11 |
| Acetone | 5.00 U | ug/L | 1.00 | 5.00 | 10.0 | 10176843 | EPA8260 | 67-64-1 | 06/29/11 |
| Acrylonitrile | 0.300 U | ug/L | 1.00 | 0.300 | 0.600 | 10176843 | EPA8260 | 107-13-1 | 06/29/11 |
| Benzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 71-43-2 | 06/29/11 |
| Bromochloromethane | 0.100 U | ug/L | 1.00 | 0.100 | 1.00 | 10176843 | EPA8260 | 074-97-5 | 06/29/11 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

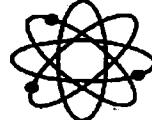
E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Lab #: 152688SW1 Sampled: 06/22/11 11:30 AM Desc: 21062/SW-2

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|----------------------------|---------|-------|------|-------|-------|----------|---------|------------|----------|
| Bromodichloromethane | 0.100 U | ug/L | 1.00 | 0.100 | 0.200 | 10176843 | EPA8260 | 75-27-4 | 06/29/11 |
| Bromoform | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-25-2 | 06/29/11 |
| Bromomethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 74-83-9 | 06/29/11 |
| Carbon Disulfide | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 75-15-0 | 06/29/11 |
| Carbon Tetrachloride | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 56-23-5 | 06/29/11 |
| Chlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 108-90-7 | 06/29/11 |
| Chloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-00-3 | 06/29/11 |
| Chloroform | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 67-66-3 | 06/29/11 |
| Chloromethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 74-87-3 | 06/29/11 |
| Dibromochloromethane | 0.400 U | ug/L | 1.00 | 0.400 | 0.800 | 10176843 | EPA8260 | 124-48-1 | 06/29/11 |
| Dibromomethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 074-95-3 | 06/29/11 |
| Ethylbenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 100-41-4 | 06/29/11 |
| Methyl Iodide | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 074-88-4 | 06/29/11 |
| Methyl isobutyl ketone | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 108-10-1 | 06/29/11 |
| Methylene chloride | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 75-09-2 | 06/29/11 |
| Para-dichlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 106-46-7 | 06/29/11 |
| Styrene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 100-42-5 | 06/29/11 |
| Tetrachloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 127-18-4 | 06/29/11 |
| Toluene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 108-88-3 | 06/29/11 |
| Trichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 79-01-6 | 06/29/11 |
| Trichlorofluoromethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-69-4 | 06/29/11 |
| Vinyl Acetate | 5.00 U | ug/L | 1.00 | 5.00 | 10.0 | 10176843 | EPA8260 | 108-05-4 | 06/29/11 |
| Vinyl chloride | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-01-4 | 06/29/11 |
| Xylenes | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 1330-20-7 | 06/29/11 |
| cis-1,2-dichloroethene | 0.200 U | ug/L | 1.00 | 0.200 | 0.400 | 10176843 | EPA8260 | 156-59-2 | 06/29/11 |
| cis-1,3-Dichloropropene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 10061-01-5 | 06/29/11 |
| o-dichlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 95-50-1 | 06/29/11 |
| trans-1,2-dichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 156-60-5 | 06/29/11 |
| trans-1,3,-Dichloropropene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 10061-02-6 | 06/29/11 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32141
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-360-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

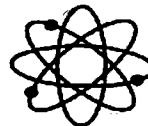
E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Lab #: 152688SW1 Sampled: 06/22/11 11:30 AM Desc: 21062/SW-2

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|--|-----------|-------|-------------------|------|-----------|-----------|----------|--------------|---------------------|
| trans-1,4-dichloro-2-butene | 1.00 | U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 110-57-6 06/29/11 |
| Surr:1,2-Dichloroethane-d4 (85-128%) | 105.57% | | | 1.00 | 0.0100 | 0.0100 | 10176843 | EPA8260 | 06/29/11 |
| Surr:Bromofluorobenzene (84-123%) | 91.50% | | | 1.00 | 1.00 | 1.00 | 10176843 | EPA8260 | 460-00-4 06/29/11 |
| Surr:Toluene-d8 (92-107%) | 102.23% | | | 1.00 | 0.0100 | 0.0100 | 10176843 | EPA8260 | 06/29/11 |
| Mercury | 0.0000200 | U | mg/L | 1.00 | 0.0000200 | 0.0000400 | 10176854 | EPA7470 | 7439-97-6 06/29/11 |
| Aluminum | 0.0460 | | mg/L | 1.00 | 0.0100 | 0.0200 | 10176906 | EPA6020 | 7429-90-5 06/30/11 |
| Antimony | 0.00200 | U | mg/L | 1.00 | 0.00200 | 0.00800 | 10176906 | EPA6020 | 7440-36-0 06/30/11 |
| Arsenic | 0.00179 | I | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-38-2 06/30/11 |
| Barium | 0.0177 | | mg/L | 1.00 | 0.00200 | 0.00400 | 10176906 | EPA6020 | 7440-39-3 06/30/11 |
| Beryllium | 0.000500 | U | mg/L | 1.00 | 0.000500 | 0.00100 | 10176906 | EPA6020 | 7440-41-7 06/30/11 |
| Cadmium | 0.00100 | U | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-43-9 06/30/11 |
| Chromium | 0.00274 | | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-47-3 06/30/11 |
| Cobalt | 0.00100 | U | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-48-4 06/30/11 |
| Copper | 0.00100 | U | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-50-8 06/30/11 |
| Lead | 0.00100 | U | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7439-92-1 06/30/11 |
| Nickel | 0.00404 | | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-02-0 06/30/11 |
| Selenium | 0.00200 | U | mg/L | 1.00 | 0.00200 | 0.00400 | 10176906 | EPA6020 | 7782-49-2 06/30/11 |
| Silver | 0.000500 | U | mg/L | 1.00 | 0.000500 | 0.00100 | 10176906 | EPA6020 | 7440-22-4 06/30/11 |
| Thallium | 0.00100 | U | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-28-0 06/30/11 |
| Vanadium | 0.00119 | I | mg/L | 1.00 | 0.00100 | 0.00200 | 10176906 | EPA6020 | 7440-62-2 06/30/11 |
| Zinc | 0.0100 | U | mg/L | 1.00 | 0.0100 | 0.0200 | 10176906 | EPA6020 | 7440-66-6 06/30/11 |
| Sulfate | 13.4 | | mg/L | 1.00 | 5.00 | 10.0 | 10176910 | EPA375.2 | 14808-79-8 07/01/11 |
| Iron | 0.127 | | mg/L | 1.00 | 0.0100 | 0.0200 | 10176922 | EPA6010 | 7439-89-6 06/30/11 |
| Total Hardness (as CaCO ₃) | 177 | | mg/L | 1.00 | 0.100 | 0.200 | 10176923 | SM2340 B | 40-11-9 06/30/11 |
| Chlorophyll a | 3.74 | | mg/m ³ | 1.00 | 1.00 | 2.00 | 10177064 | SM10200 H | 479-61-8 06/22/11 |
| Chemical Oxygen Demand | 150 | | mg/L | 1.00 | 20.0 | 40.0 | 10177083 | EPA410.4 | C-004 06/29/11 |
| Unionized NH ₃ (as N) | 0.000100 | U | mg/L | 1.00 | 0.000100 | 0.000200 | 10177116 | FDEP DEP-SOF | 07/06/11 |
| TKN(as N) | 2.32 | | mg/L | 1.00 | 0.200 | 0.400 | 10177288 | EPA351.2 | 7727-37-9 07/08/11 |
| Total Phosphorous(as P) | 0.524 | | mg/L | 1.00 | 0.0400 | 0.0800 | 10177386 | EPA365.4 | 7723-14-0 07/08/11 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
Phone: 850-973-687R / Fax: 850-973-687R E82405 (North Lab)
Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

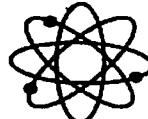
PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Lab #: 152688SW1 Sampled: 06/22/11 11:30 AM Desc: 21062/SW-2

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|-----------------------------|-----------|-------|------|---------|--------|----------|----------|----------|----------|
| Phenolics | 0.00500 U | mg/L | 1.00 | 0.00500 | 0.0100 | 10177593 | EPA420.1 | E749630 | 07/11/11 |
| 1,2,3-Trichloropropane | 0.0200 U | ug/L | 1.00 | 0.0200 | 0.0400 | 10177637 | EPA8011 | 096-18-4 | 06/29/11 |
| 1,2-Dibromoethane (EDB) | 0.0100 U | ug/L | 1.00 | 0.0100 | 0.0200 | 10177637 | EPA8011 | 106-93-4 | 06/29/11 |
| 1,2-dibromo-3-chloropropane | 0.0200 U | ug/L | 1.00 | 0.0200 | 0.0400 | 10177637 | EPA8011 | 96-12-8 | 06/29/11 |

Lab #: 152688SW2 Sampled: 06/22/11 11:30 AM Desc: Trip Blank

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|---------------------------|---------|-------|------|-------|-------|----------|---------|----------|----------|
| 1,1,1,2-Tetrachloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 630-20-6 | 06/29/11 |
| 1,1,1-Trichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 71-55-6 | 06/29/11 |
| 1,1,2,2-Tetrachloroethane | 0.100 U | ug/L | 1.00 | 0.100 | 0.200 | 10176843 | EPA8260 | 79-34-5 | 06/29/11 |
| 1,1,2-Trichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 79-00-5 | 06/29/11 |
| 1,1-Dichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-34-3 | 06/29/11 |
| 1,1-Dichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-35-4 | 06/29/11 |
| 1,2-dichloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 107-06-2 | 06/29/11 |
| 1,2-dichloropropane | 0.200 U | ug/L | 1.00 | 0.200 | 0.400 | 10176843 | EPA8260 | 78-87-5 | 06/29/11 |
| 2-Butanone (MEK) | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 78-93-3 | 06/29/11 |
| 2-Hexanone | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 591-78-6 | 06/29/11 |
| Acetone | 5.00 U | ug/L | 1.00 | 5.00 | 10.0 | 10176843 | EPA8260 | 67-64-1 | 06/29/11 |
| Acrylonitrile | 0.300 U | ug/L | 1.00 | 0.300 | 0.600 | 10176843 | EPA8260 | 107-13-1 | 06/29/11 |
| Benzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 71-43-2 | 06/29/11 |
| Bromochloromethane | 0.100 U | ug/L | 1.00 | 0.100 | 1.00 | 10176843 | EPA8260 | 074-97-5 | 06/29/11 |
| Bromodichloromethane | 0.100 U | ug/L | 1.00 | 0.100 | 0.200 | 10176843 | EPA8260 | 75-27-4 | 06/29/11 |
| Bromoform | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-25-2 | 06/29/11 |
| Bromomethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 74-83-9 | 06/29/11 |
| Carbon Disulfide | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 75-15-0 | 06/29/11 |
| Carbon Tetrachloride | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 56-23-5 | 06/29/11 |
| Chlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 108-90-7 | 06/29/11 |
| Chloroethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-00-3 | 06/29/11 |
| Chloroform | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 67-66-3 | 06/29/11 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-971-4878 / Fax: 850-971-4878
Phone: 305-743-8598 / Fax: 305-743-8598

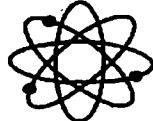
E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Lab #: 152688SW2 Sampled: 06/22/11 11:30 AM Desc: Trip Blank

| Parameter | Result | Units | DF | MDL | PQL | QC Batch | Method | CAS # | Analyzed |
|--------------------------------------|---------|-------|------|--------|--------|----------|---------|------------|----------|
| Chloromethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 74-87-3 | 06/29/11 |
| Dibromochloromethane | 0.400 U | ug/L | 1.00 | 0.400 | 0.800 | 10176843 | EPA8260 | 124-48-1 | 06/29/11 |
| Dibromomethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 074-95-3 | 06/29/11 |
| Ethylbenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 100-41-4 | 06/29/11 |
| Methyl Iodide | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 074-88-4 | 06/29/11 |
| Methyl isobutyl ketone | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 108-10-1 | 06/29/11 |
| Methylene chloride | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 75-09-2 | 06/29/11 |
| Para-dichlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 106-46-7 | 06/29/11 |
| Styrene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 100-42-5 | 06/29/11 |
| Tetrachloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 127-18-4 | 06/29/11 |
| Toluene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 108-88-3 | 06/29/11 |
| Trichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 79-01-6 | 06/29/11 |
| Trichlorofluoromethane | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-69-4 | 06/29/11 |
| Vinyl Acetate | 5.00 U | ug/L | 1.00 | 5.00 | 10.0 | 10176843 | EPA8260 | 108-05-4 | 06/29/11 |
| Vinyl chloride | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 75-01-4 | 06/29/11 |
| Xylenes | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 1330-20-7 | 06/29/11 |
| cis-1,2-dichloroethene | 0.200 U | ug/L | 1.00 | 0.200 | 0.400 | 10176843 | EPA8260 | 156-59-2 | 06/29/11 |
| cis-1,3-Dichloropropene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 10061-01-5 | 06/29/11 |
| o-dichlorobenzene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 95-50-1 | 06/29/11 |
| trans-1,2-dichloroethene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 156-60-5 | 06/29/11 |
| trans-1,3,-Dichloropropene | 0.500 U | ug/L | 1.00 | 0.500 | 1.00 | 10176843 | EPA8260 | 10061-02-6 | 06/29/11 |
| trans-1,4-dichloro-2-butene | 1.00 U | ug/L | 1.00 | 1.00 | 2.00 | 10176843 | EPA8260 | 110-57-6 | 06/29/11 |
| Surr:1,2-Dichloroethane-d4 (85-128%) | 103.50% | | 1.00 | 0.0100 | 0.0100 | 10176843 | EPA8260 | | 06/29/11 |
| Surr:Bromofluorobenzene (84-123%) | 94.60% | | 1.00 | 1.00 | 1.00 | 10176843 | EPA8260 | 460-00-4 | 06/29/11 |
| Surr:Toluene-d8 (92-107%) | 100.93% | | 1.00 | 0.0100 | 0.0100 | 10176843 | EPA8260 | | 06/29/11 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Report

Quality Control Batch: 10176458

| | Analyst: | PCW |
|---------------|----------|------|
| Result | Units | |
| Blank | | |
| Nitrate(as N) | 0.0100U | mg/L |
| Nitrite(as N) | 0.0200U | mg/L |

Laboratory Control Sample

| | Result | Units | Spike | %REC | %REC Lim |
|---------------|--------|-------|-------|--------|--------------|
| Nitrite(as N) | 1.05 | mg/L | 1.00 | 105.00 | 80.00-120.00 |

Matrix Spike

| | Result | Units | Spike | %REC | %REC Lim | Sample |
|---------------|--------|-------|-------|--------|--------------|---------|
| Nitrite(as N) | 4.41 | mg/L | 4.00 | 110.07 | 80.00-120.00 | 0.00736 |

Matrix Spike Duplicate

| | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|---------------|--------|-------|-------|--------|--------------|---------|------|---------|
| Nitrite(as N) | 4.39 | mg/L | 4.00 | 109.57 | 80.00-120.00 | 0.00736 | 0.45 | 20.00 |

Quality Control Batch: 10176553

| | Analyst: | PLB |
|--------|----------|------|
| Result | Units | |
| Blank | | |
| TSS | 1.00U | mg/L |

Laboratory Control Sample

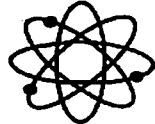
| | Result | Units | Spike | %REC | %REC Lim |
|-----|--------|-------|-------|--------|--------------|
| TSS | 84.0 | mg/L | 84.0 | 100.00 | 80.00-120.00 |

Quality Control Batch: 10176666

| | Analyst: | PLB |
|--------|----------|------|
| Result | Units | |
| Blank | | |
| TDS | 2.50U | mg/L |

Laboratory Control Sample

| | Result | Units | Spike | %REC | %REC Lim |
|-----|--------|-------|-------|--------|--------------|
| TDS | 1520 | mg/L | 1500 | 101.20 | 91.15-105.70 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176710

Blank
Fecal Coliform

Analyst: TRB

| Result | Units |
|--------|-----------|
| 1.00U | cfu/100mL |

Quality Control Batch: 10176723

Blank
BOD5day

Analyst: CCP

| Result | Units |
|--------|-------|
| 2.00U | mg/L |

**Laboratory Control Sample
BOD5day**

| Result | Units |
|--------|-------|
| 211 | mg/L |

| Spike |
|-------|
| 198 |

| %REC |
|--------|
| 106.46 |

| %REC Lim |
|--------------|
| 73.74-121.48 |

Quality Control Batch: 10176726

Blank
TOC

Analyst: PCW

| Result | Units |
|--------|-------|
| 1.00U | mg/L |

**Laboratory Control Sample
TOC**

| Result | Units |
|--------|-------|
| 20.2 | mg/L |

| Spike |
|-------|
| 20.0 |

| %REC |
|--------|
| 101.05 |

| %REC Lim |
|--------------|
| 80.00-120.00 |

**Matrix Spike
TOC**

| Result | Units |
|--------|-------|
| 13.3 | mg/L |

| Spike |
|-------|
| 10.0 |

| %REC |
|--------|
| 103.21 |

| %REC Lim | Sample |
|--------------|--------|
| 86.19-112.87 | 3.01 |

**Matrix Spike Duplicate
TOC**

| Result | Units |
|--------|-------|
| 13.5 | mg/L |

| Spike |
|-------|
| 10.0 |

| %REC |
|--------|
| 105.22 |

| %REC Lim | Sample |
|--------------|--------|
| 86.19-112.87 | 3.01 |

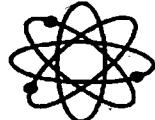
| RPD | RPD Lim |
|------|---------|
| 1.50 | 20.00 |

Quality Control Batch: 10176843

Blank
Acetone

Analyst: CLS

| Result | Units |
|--------|-------|
| 5.00U | ug/L |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

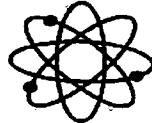
E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843

| | Analyst: CLS | |
|-----------------------------|--------------|-------|
| | Result | Units |
| Blank | 0.300U | ug/L |
| Acrylonitrile | 0.500U | ug/L |
| Benzene | 0.100U | ug/L |
| Bromochloromethane | 0.100U | ug/L |
| Bromodichloromethane | 0.100U | ug/L |
| Bromoform | 0.500U | ug/L |
| Bromomethane | 0.500U | ug/L |
| Carbon Disulfide | 1.00U | ug/L |
| Carbon Tetrachloride | 0.500U | ug/L |
| Chlorobenzene | 0.500U | ug/L |
| Chloroethane | 0.500U | ug/L |
| Chloroform | 0.500U | ug/L |
| Chloromethane | 0.500U | ug/L |
| cis-1,2-dichloroethene | 0.200U | ug/L |
| cis-1,3-Dichloropropene | 0.500U | ug/L |
| Dibromochloromethane | 0.400U | ug/L |
| Dibromomethane | 0.500U | ug/L |
| Ethylbenzene | 0.500U | ug/L |
| Methyl Iodide | 1.00U | ug/L |
| Methyl isobutyl ketone | 1.00U | ug/L |
| Methylene chloride | 1.00U | ug/L |
| o-dichlorobenzene | 0.500U | ug/L |
| Para-dichlorobenzene | 0.500U | ug/L |
| Styrene | 0.500U | ug/L |
| Tetrachloroethene | 0.500U | ug/L |
| Toluene | 0.500U | ug/L |
| trans-1,2-dichloroethene | 0.500U | ug/L |
| trans-1,3,-Dichloropropene | 0.500U | ug/L |
| trans-1,4-dichloro-2-butene | 1.00U | ug/L |
| Trichloroethene | 0.500U | ug/L |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32141
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-971-6878 / Fax: 850-971-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843

Blank

Trichlorofluoromethane

Analyst: CLS

Result Units

0.500U ug/L

Vinyl Acetate

5.00U ug/L

Vinyl chloride

0.500U ug/L

Xylenes

1.00U ug/L

1,1,1,2-Tetrachloroethane

0.500U ug/L

1,1,1-Trichloroethane

0.500U ug/L

1,1,2,2-Tetrachloroethane

0.100U ug/L

1,1,2-Trichloroethane

0.500U ug/L

1,1-Dichloroethane

0.500U ug/L

1,1-Dichloroethene

0.500U ug/L

1,2-dichloroethane

0.500U ug/L

1,2-dichloropropane

0.200U ug/L

2-Butanone (MEK)

0.500U ug/L

2-Hexanone

0.500U ug/L

Surr:Bromofluorobenzene

26.5 ug/L

Surr:Toluene-d8

28.7 ug/L

Surr:1,2-Dichloroethane-d4

29.4 ug/L

Laboratory Control Sample

Acetone

Result Units Spike %REC %REC Lim

10.7 ug/L 10.0 106.50 37.64-172.70

Acrylonitrile

8.95 ug/L 10.0 89.50 39.47-149.46

Benzene

9.68 ug/L 10.0 96.80 75.24-125.65

Bromochloromethane

9.57 ug/L 10.0 95.70 71.67-126.15

Bromodichloromethane

10.0 ug/L 10.0 100.00 74.61-125.27

Bromoform

9.47 ug/L 10.0 94.70 66.51-125.59

Bromomethane

10.1 ug/L 10.0 100.60 57.28-153.27

Carbon Disulfide

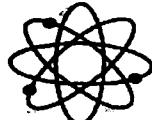
9.86 ug/L 10.0 98.60 81.01-141.09

Carbon Tetrachloride

9.28 ug/L 10.0 92.80 68.14-132.66

Chlorobenzene

9.71 ug/L 10.0 97.10 77.69-119.42



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34985
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

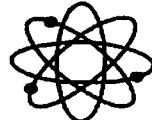
E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843**Laboratory Control Sample**

| | Analyst: CLS | | | | |
|----------------------------|---------------------|--------------|--------------|-------------|-----------------|
| | Result | Units | Spike | %REC | %REC Lim |
| Chloroethane | 10.0 | ug/L | 10.0 | 100.40 | 63.56-150.96 |
| Chloroform | 9.76 | ug/L | 10.0 | 97.60 | 67.64-138.63 |
| Chloromethane | 11.3 | ug/L | 10.0 | 112.50 | 55.12-156.31 |
| cis-1,2-dichloroethene | 9.11 | ug/L | 10.0 | 91.10 | 73.06-123.88 |
| cis-1,3-Dichloropropene | 8.93 | ug/L | 10.0 | 89.30 | 80.68-120.98 |
| Dibromochloromethane | 9.74 | ug/L | 10.0 | 97.40 | 65.65-126.41 |
| Ethylbenzene | 9.27 | ug/L | 10.0 | 92.70 | 70.93-123.57 |
| Methyl Iodide | 9.11 | ug/L | 10.0 | 91.10 | 54.93-164.95 |
| Methyl isobutyl ketone | 8.56 | ug/L | 10.0 | 85.60 | 37.93-142.74 |
| Methylene chloride | 10.8 | ug/L | 10.0 | 108.40 | 16.86-166.48 |
| o-dichlorobenzene | 9.33 | ug/L | 10.0 | 93.30 | 52.90-132.47 |
| Para-dichlorobenzene | 9.71 | ug/L | 10.0 | 97.10 | 50.96-133.39 |
| Styrene | 9.38 | ug/L | 10.0 | 93.80 | 71.72-114.32 |
| Tetrachloroethene | 9.84 | ug/L | 10.0 | 98.40 | 80.48-158.29 |
| Toluene | 9.75 | ug/L | 10.0 | 97.50 | 77.18-121.98 |
| trans-1,2-dichloroethene | 9.45 | ug/L | 10.0 | 94.50 | 68.03-139.74 |
| trans-1,3,-Dichloropropene | 9.26 | ug/L | 10.0 | 92.60 | 69.60-126.28 |
| Trichloroethene | 9.52 | ug/L | 10.0 | 95.20 | 75.98-128.22 |
| Trichlorofluoromethane | 9.03 | ug/L | 10.0 | 90.30 | 44.32-160.41 |
| Vinyl chloride | 10.1 | ug/L | 10.0 | 100.50 | 62.38-148.09 |
| Xylenes | 27.7 | ug/L | 30.0 | 92.17 | 73.15-120.44 |
| 1,1,1,2-Tetrachloroethane | 9.69 | ug/L | 10.0 | 96.90 | 65.75-129.14 |
| 1,1,1-Trichloroethane | 9.83 | ug/L | 10.0 | 98.30 | 71.54-134.27 |
| 1,1,2,2-Tetrachloroethane | 9.74 | ug/L | 10.0 | 97.40 | 70.58-134.42 |
| 1,1,2-Trichloroethane | 9.69 | ug/L | 10.0 | 96.90 | 78.94-122.62 |
| 1,1-Dichloroethane | 9.84 | ug/L | 10.0 | 98.40 | 64.33-137.81 |
| 1,1-Dichloroethene | 9.34 | ug/L | 10.0 | 93.40 | 58.65-144.80 |
| 1,2-dichloroethane | 9.34 | ug/L | 10.0 | 93.40 | 70.20-131.56 |
| 1,2-dichloropropane | 9.79 | ug/L | 10.0 | 97.90 | 70.79-128.96 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

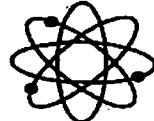
PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843**Laboratory Control Sample**

| | Result | Units | Spike | %REC | %REC Lim |
|----------------------------|---------------|--------------|--------------|-------------|-----------------|
| 2-Butanone (MEK) | 9.55 | ug/L | 10.0 | 95.50 | 58.73-168.19 |
| 2-Hexanone | 8.67 | ug/L | 10.0 | 86.70 | 61.33-136.93 |
| Surr:Bromofluorobenzene | 29.9 | ug/L | 30.0 | 99.80 | 84.60-123.15 |
| Surr:Toluene-d8 | 29.8 | ug/L | 30.0 | 99.20 | 92.79-107.60 |
| Surr:1,2-Dichloroethane-d4 | 30.1 | ug/L | 30.0 | 100.30 | 85.08-128.29 |

Matrix Spike

| | Result | Units | Spike | %REC | %REC Lim | Sample |
|-------------------------|---------------|--------------|--------------|-------------|-----------------|---------------|
| Acetone | 18.7 | ug/L | 20.0 | 93.45 | 40.10-159.52 | 5.00U |
| Acrylonitrile | 15.1 | ug/L | 20.0 | 75.65 | 46.99-145.24 | 0.300U |
| Benzene | 15.3 | ug/L | 20.0 | 76.40 | 61.27-139.58 | 0.500U |
| Bromochloromethane | 15.6 | ug/L | 20.0 | 78.05 | 63.83-134.84 | 0.100U |
| Bromodichloromethane | 21.7 | ug/L | 20.0 | 82.80 | 72.16-127.31 | 5.11 |
| Bromoform | 15.0 | ug/L | 20.0 | 75.05 | 72.62-122.79 | 0.500U |
| Bromomethane | 15.9 | ug/L | 20.0 | 79.45 | 39.13-160.98 | 0.500U |
| Carbon Tetrachloride | 16.0 | ug/L | 20.0 | 80.10 | 62.14-139.48 | 0.500U |
| Chlorobenzene | 15.1 | ug/L | 20.0 | 75.35 | 73.37-125.85 | 0.500U |
| Chloroethane | 15.6 | ug/L | 20.0 | 78.00 | 63.53-147.18 | 0.500U |
| Chloroform | 70.1 | ug/L | 20.0 | 113.35 | 57.73-145.87 | 47.4 |
| Chloromethane | 17.3 | ug/L | 20.0 | 86.55 | 53.83-155.48 | 0.500U |
| cis-1,2-dichloroethene | 15.7 | ug/L | 20.0 | 78.60 | 67.74-134.67 | 0.200U |
| cis-1,3-Dichloropropene | 15.2 | ug/L | 20.0 | 75.80 | 72.35-130.46 | 0.500U |
| Dibromochloromethane | 15.5 | ug/L | 20.0 | 77.55 | 69.54-125.33 | 0.400U |
| Ethylbenzene | 15.1 | ug/L | 20.0 | 75.50 | 68.03-130.86 | 0.500U |
| Methyl Iodide | 16.1 | ug/L | 20.0 | 80.30 | 44.68-170.45 | 1.00U |
| Methyl isobutyl ketone | 13.9 | ug/L | 20.0 | 69.70 | 45.04-143.51 | 1.00U |
| Methylene chloride | 14.8 | ug/L | 20.0 | 74.00 | 29.60-161.21 | 1.00U |
| o-dichlorobenzene | 15.4 | ug/L | 20.0 | 77.20 | 66.77-127.02 | 0.500U |
| Para-dichlorobenzene | 16.1 | ug/L | 20.0 | 80.30 | 65.38-125.99 | 0.500U |
| Styrene | 15.1 | ug/L | 20.0 | 75.70 | 70.76-118.37 | 0.500U |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Alkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843

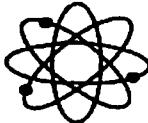
Matrix Spike
Tetrachloroethene
Toluene
trans-1,2-dichloroethene
trans-1,3,-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl chloride
Xylenes
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-dichloroethane
1,2-dichloropropane
2-Butanone (MEK)
2-Hexanone
Surr:Bromofluorobenzene
Surr:Toluene-d8
Surr:1,2-Dichloroethane-d4

Analyst: CLS

| Result | Units | Spike | %REC | %REC Lim | Sample |
|--------|-------|-------|-------|--------------|--------|
| 15.1 | ug/L | 20.0 | 75.65 | 67.64-171.93 | 0.500U |
| 15.4 | ug/L | 20.0 | 76.90 | 65.14-135.51 | 0.500U |
| 15.7 | ug/L | 20.0 | 78.65 | 68.02-136.55 | 0.500U |
| 15.3 | ug/L | 20.0 | 76.55 | 70.04-129.81 | 0.500U |
| 15.6 | ug/L | 20.0 | 77.85 | 71.89-132.31 | 0.500U |
| 15.2 | ug/L | 20.0 | 76.00 | 44.48-169.12 | 0.500U |
| 16.3 | ug/L | 20.0 | 81.25 | 58.87-147.20 | 0.500U |
| 45.6 | ug/L | 60.0 | 76.07 | 60.84-135.66 | 1.00U |
| 15.0 | ug/L | 20.0 | 75.10 | 62.33-135.40 | 0.500U |
| 15.9 | ug/L | 20.0 | 79.60 | 65.25-139.87 | 0.500U |
| 14.9 | ug/L | 20.0 | 74.25 | 66.18-136.57 | 0.100U |
| 15.0 | ug/L | 20.0 | 74.95 | 74.00-129.28 | 0.500U |
| 16.6 | ug/L | 20.0 | 83.15 | 60.45-145.88 | 0.500U |
| 16.9 | ug/L | 20.0 | 84.65 | 48.95-154.90 | 0.500U |
| 15.0 | ug/L | 20.0 | 74.90 | 63.54-140.44 | 0.500U |
| 15.7 | ug/L | 20.0 | 78.50 | 69.00-134.27 | 0.200U |
| 16.7 | ug/L | 20.0 | 83.45 | 74.66-142.29 | 0.500U |
| 14.3 | ug/L | 20.0 | 71.45 | 59.08-147.93 | 0.500U |
| 28.9 | ug/L | 30.0 | 96.23 | 50.75-155.35 | |
| 29.4 | ug/L | 30.0 | 98.07 | 90.53-109.14 | |
| 29.0 | ug/L | 30.0 | 96.67 | 82.85-121.80 | |

Matrix Spike Duplicate

| Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|--------|-------|-------|--------|--------------|--------|-------|---------|
| 22.3 | ug/L | 20.0 | 111.70 | 40.10-159.52 | 5.00U | 17.79 | 38.61 |
| 17.4 | ug/L | 20.0 | 86.80 | 46.99-145.24 | 0.300U | 13.73 | 36.26 |
| 16.6 | ug/L | 20.0 | 83.05 | 61.27-139.58 | 0.500U | 8.34 | 25.12 |
| 17.0 | ug/L | 20.0 | 85.20 | 63.83-134.84 | 0.100U | 8.76 | 26.51 |
| 24.2 | ug/L | 20.0 | 95.50 | 72.16-127.31 | 5.11 | 11.07 | 25.17 |
| 18.3 | ug/L | 20.0 | 91.45 | 72.62-122.79 | 0.500U | 19.70 | 29.13 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

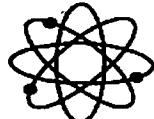
Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843

Matrix Spike Duplicate

| | Analyst: CLS | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|----------------------------|--------------|--------|-------|-------|--------|--------------|--------|-------|---------|
| Bromomethane | | 18.8 | ug/L | 20.0 | 93.95 | 39.13-160.98 | 0.500U | 16.72 | 28.42 |
| Carbon Tetrachloride | | 17.2 | ug/L | 20.0 | 86.20 | 62.14-139.48 | 0.500U | 7.34 | 27.85 |
| Chlorobenzene | | 18.1 | ug/L | 20.0 | 90.70 | 73.37-125.85 | 0.500U | 18.49 | 27.33 |
| Chloroethane | | 17.2 | ug/L | 20.0 | 85.75 | 63.53-147.18 | 0.500U | 9.47 | 35.69 |
| Chloroform | | 71.3 | ug/L | 20.0 | 119.60 | 57.73-145.87 | 47.4 | 1.77 | 28.80 |
| Chloromethane | | 19.9 | ug/L | 20.0 | 99.35 | 53.83-155.48 | 0.500U | 13.77 | 29.46 |
| cis-1,2-dichloroethene | | 17.3 | ug/L | 20.0 | 86.65 | 67.74-134.67 | 0.200U | 9.74 | 28.79 |
| cis-1,3-Dichloropropene | | 17.7 | ug/L | 20.0 | 88.50 | 72.35-130.46 | 0.500U | 15.46 | 25.83 |
| Dibromochloromethane | | 18.2 | ug/L | 20.0 | 91.10 | 69.54-125.33 | 0.400U | 16.07 | 28.11 |
| Ethylbenzene | | 17.7 | ug/L | 20.0 | 88.40 | 68.03-130.86 | 0.500U | 15.74 | 25.52 |
| Methyl Iodide | | 18.7 | ug/L | 20.0 | 93.55 | 44.68-170.45 | 1.00U | 15.24 | 27.56 |
| Methyl isobutyl ketone | | 17.4 | ug/L | 20.0 | 87.15 | 45.04-143.51 | 1.00U | 22.25 | 22.66 |
| Methylene chloride | | 16.0 | ug/L | 20.0 | 79.80 | 29.60-161.21 | 1.00U | 7.54 | 33.74 |
| o-dichlorobenzene | | 17.5 | ug/L | 20.0 | 87.25 | 66.77-127.02 | 0.500U | 12.22 | 28.62 |
| Para-dichlorobenzene | | 17.9 | ug/L | 20.0 | 89.50 | 65.38-125.99 | 0.500U | 10.84 | 27.08 |
| Styrene | | 17.7 | ug/L | 20.0 | 88.55 | 70.76-118.37 | 0.500U | 15.65 | 28.56 |
| Tetrachloroethene | | 17.1 | ug/L | 20.0 | 85.55 | 67.64-171.93 | 0.500U | 12.28 | 32.62 |
| Toluene | | 17.9 | ug/L | 20.0 | 89.45 | 65.14-135.51 | 0.500U | 15.09 | 23.01 |
| trans-1,2-dichloroethene | | 17.4 | ug/L | 20.0 | 87.15 | 68.02-136.55 | 0.500U | 10.25 | 29.38 |
| trans-1,3,-Dichloropropene | | 17.9 | ug/L | 20.0 | 89.65 | 70.04-129.81 | 0.500U | 15.76 | 30.36 |
| Trichloroethene | | 18.4 | ug/L | 20.0 | 92.05 | 71.89-132.31 | 0.500U | 16.72 | 25.29 |
| Trichlorofluoromethane | | 16.1 | ug/L | 20.0 | 80.50 | 44.48-169.12 | 0.500U | 5.75 | 34.97 |
| Vinyl chloride | | 17.8 | ug/L | 20.0 | 89.00 | 58.87-147.20 | 0.500U | 9.10 | 27.28 |
| Xylenes | | 52.8 | ug/L | 60.0 | 87.97 | 60.84-135.66 | 1.00U | 14.51 | 24.37 |
| 1,1,1,2-Tetrachloroethane | | 17.7 | ug/L | 20.0 | 88.60 | 62.33-135.40 | 0.500U | 16.49 | 29.26 |
| 1,1,1-Trichloroethane | | 17.0 | ug/L | 20.0 | 84.95 | 65.25-139.87 | 0.500U | 6.50 | 28.50 |
| 1,1,2,2-Tetrachloroethane | | 17.4 | ug/L | 20.0 | 86.95 | 66.18-136.57 | 0.100U | 15.76 | 30.72 |
| 1,1,2-Trichloroethane | | 17.3 | ug/L | 20.0 | 86.50 | 74.00-129.28 | 0.500U | 14.31 | 27.63 |
| 1,1-Dichloroethane | | 18.1 | ug/L | 20.0 | 90.55 | 60.45-145.88 | 0.500U | 8.52 | 28.39 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176843**Matrix Spike Duplicate**

| | Analyst: CLS | | | | | | | |
|----------------------------|---------------------|--------------|--------------|-------------|-----------------|---------------|------------|----------------|
| | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
| 1,1-Dichloroethene | 18.9 | ug/L | 20.0 | 94.40 | 48.95-154.90 | 0.500U | 10.89 | 29.91 |
| 1,2-dichloroethane | 16.7 | ug/L | 20.0 | 83.60 | 63.54-140.44 | 0.500U | 10.98 | 26.67 |
| 1,2-dichloropropane | 18.1 | ug/L | 20.0 | 90.55 | 69.00-134.27 | 0.200U | 14.26 | 28.05 |
| 2-Butanone (MEK) | 17.9 | ug/L | 20.0 | 89.60 | 74.66-142.29 | 0.500U | 7.11 | 44.82 |
| 2-Hexanone | 17.1 | ug/L | 20.0 | 85.70 | 59.08-147.93 | 0.500U | 18.14 | 36.47 |
| Sur: Bromofluorobenzene | 30.5 | ug/L | 30.0 | 101.73 | 50.75-155.35 | | 5.56 | 19.49 |
| Sur: Toluene-d8 | 30.2 | ug/L | 30.0 | 100.73 | 90.53-109.14 | | 2.68 | 8.07 |
| Sur: 1,2-Dichloroethane-d4 | 27.9 | ug/L | 30.0 | 92.83 | 82.85-121.80 | | 4.05 | 9.34 |

Quality Control Batch: 10176854**Blank****Mercury****Analyst:** EVB

| Result | Units |
|---------------|--------------|
| 0.0000200U | mg/L |

Laboratory Control Sample**Mercury****Analyst:** EVB

| Result | Units | Spike | %REC | %REC Lim |
|---------------|--------------|--------------|-------------|-----------------|
| 0.000998 | mg/L | 0.00100 | 99.84 | 90.27-115.31 |

Matrix Spike**Mercury****Analyst:** EVB

| Result | Units | Spike | %REC | %REC Lim | Sample |
|---------------|--------------|--------------|-------------|-----------------|---------------|
| 0.00269 | mg/L | 0.00300 | 89.77 | 81.00-122.08 | 0.0000200U |

Matrix Spike Duplicate**Mercury****Analyst:** EVB

| Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|---------------|--------------|--------------|-------------|-----------------|---------------|------------|----------------|
| 0.00317 | mg/L | 0.00300 | 105.57 | 81.00-122.08 | 0.0000200U | 16.18 | 8.88 |

Quality Control Batch: 10176906**Blank****Aluminum****Antimony****Arsenic****Barium****Beryllium****Analyst:** EVB

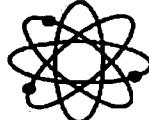
| Result | Units |
|---------------|--------------|
| 0.0100U | mg/L |

| Result | Units |
|---------------|--------------|
| 0.00200U | mg/L |

| Result | Units |
|---------------|--------------|
| 0.00100U | mg/L |

| Result | Units |
|---------------|--------------|
| 0.00200U | mg/L |

| Result | Units |
|---------------|--------------|
| 0.000500U | mg/L |



FLOWERS CHEMICAL LABORATORIES INC.

PO. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
PO. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

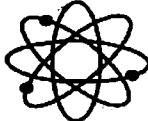
PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176906

| | Analyst: EVB | |
|----------|---------------------|--------------|
| | Result | Units |
| Blank | 0.00100U | mg/L |
| Cadmium | 0.00100U | mg/L |
| Chromium | 0.00100U | mg/L |
| Cobalt | 0.00100U | mg/L |
| Copper | 0.00100U | mg/L |
| Lead | 0.00100U | mg/L |
| Nickel | 0.00100U | mg/L |
| Selenium | 0.00200U | mg/L |
| Silver | 0.000500U | mg/L |
| Thallium | 0.00100U | mg/L |
| Vanadium | 0.00100U | mg/L |
| Zinc | 0.0100U | mg/L |

Laboratory Control Sample

| | Result | Units | Spike | %REC | %REC Lim |
|-----------|---------------|--------------|--------------|-------------|-----------------|
| Aluminum | 0.192 | mg/L | 0.200 | 95.86 | 82.49-117.14 |
| Antimony | 0.183 | mg/L | 0.200 | 91.45 | 78.21-121.23 |
| Arsenic | 0.208 | mg/L | 0.200 | 103.98 | 77.97-118.12 |
| Barium | 0.216 | mg/L | 0.200 | 107.81 | 87.71-124.03 |
| Beryllium | 0.206 | mg/L | 0.200 | 102.82 | 86.54-129.99 |
| Cadmium | 0.208 | mg/L | 0.200 | 103.86 | 80.28-119.66 |
| Chromium | 0.202 | mg/L | 0.200 | 101.21 | 79.68-122.67 |
| Cobalt | 0.209 | mg/L | 0.200 | 104.68 | 75.47-125.43 |
| Copper | 0.202 | mg/L | 0.200 | 101.14 | 75.93-125.03 |
| Lead | 0.187 | mg/L | 0.200 | 93.45 | 84.18-120.50 |
| Nickel | 0.203 | mg/L | 0.200 | 101.69 | 77.04-123.91 |
| Selenium | 0.209 | mg/L | 0.200 | 104.59 | 73.74-123.68 |
| Silver | 0.185 | mg/L | 0.200 | 92.68 | 78.31-122.44 |
| Thallium | 0.206 | mg/L | 0.200 | 103.13 | 82.56-123.13 |
| Vanadium | 0.223 | mg/L | 0.200 | 111.54 | 75.43-127.05 |
| Zinc | 0.219 | mg/L | 0.200 | 109.50 | 75.55-123.30 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
PO Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

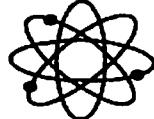
PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176906**Matrix Spike**

| | Result | Units | Spike | %REC | %REC Lim | Sample |
|-----------|---------------|--------------|--------------|-------------|-----------------|---------------|
| Aluminum | 0.450 | mg/L | 0.200 | 95.08 | 41.22-163.00 | 0.260 |
| Antimony | 0.206 | mg/L | 0.200 | 103.06 | 72.18-142.01 | 0.00200U |
| Arsenic | 0.188 | mg/L | 0.200 | 92.35 | 76.02-142.56 | 0.00317 |
| Barium | 0.265 | mg/L | 0.200 | 114.07 | 67.36-158.64 | 0.0365 |
| Beryllium | 0.181 | mg/L | 0.200 | 90.44 | 91.18-152.89 | 0.000500U |
| Cadmium | 0.198 | mg/L | 0.200 | 99.11 | 77.92-136.42 | 0.00100U |
| Chromium | 0.211 | mg/L | 0.200 | 103.73 | 72.27-142.06 | 0.00364 |
| Cobalt | 0.207 | mg/L | 0.200 | 102.93 | 69.22-139.08 | 0.00159 |
| Copper | 0.192 | mg/L | 0.200 | 92.22 | 49.37-149.77 | 0.00722 |
| Lead | 0.215 | mg/L | 0.200 | 106.54 | 65.56-145.73 | 0.00213 |
| Nickel | 0.205 | mg/L | 0.200 | 96.22 | 65.47-134.19 | 0.0126 |
| Selenium | 0.166 | mg/L | 0.200 | 81.39 | 57.06-150.58 | 0.00324 |
| Silver | 0.148 | mg/L | 0.200 | 73.45 | 49.80-146.63 | 0.00114 |
| Thallium | 0.210 | mg/L | 0.200 | 104.97 | 62.20-153.09 | 0.00100U |
| Vanadium | 0.229 | mg/L | 0.200 | 110.24 | 71.20-143.90 | 0.00802 |
| Zinc | 0.229 | mg/L | 0.200 | 92.44 | 40.77-155.82 | 0.0442 |

Matrix Spike Duplicate

| | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|-----------|---------------|--------------|--------------|-------------|-----------------|---------------|------------|----------------|
| Aluminum | 0.456 | mg/L | 0.200 | 98.12 | 41.22-163.00 | 0.260 | 1.34 | 40.04 |
| Antimony | 0.203 | mg/L | 0.200 | 101.57 | 72.18-142.01 | 0.00200U | 1.46 | 26.68 |
| Arsenic | 0.186 | mg/L | 0.200 | 91.56 | 76.02-142.56 | 0.00317 | 0.85 | 22.42 |
| Barium | 0.267 | mg/L | 0.200 | 115.24 | 67.36-158.64 | 0.0365 | 0.88 | 35.38 |
| Beryllium | 0.182 | mg/L | 0.200 | 90.94 | 91.18-152.89 | 0.000500U | 0.55 | 24.78 |
| Cadmium | 0.197 | mg/L | 0.200 | 98.32 | 77.92-136.42 | 0.00100U | 0.81 | 21.10 |
| Chromium | 0.213 | mg/L | 0.200 | 104.62 | 72.27-142.06 | 0.00364 | 0.84 | 21.22 |
| Cobalt | 0.213 | mg/L | 0.200 | 105.51 | 69.22-139.08 | 0.00159 | 2.47 | 28.10 |
| Copper | 0.194 | mg/L | 0.200 | 93.40 | 49.37-149.77 | 0.00722 | 1.22 | 28.99 |
| Lead | 0.219 | mg/L | 0.200 | 108.54 | 65.56-145.73 | 0.00213 | 1.85 | 26.53 |
| Nickel | 0.204 | mg/L | 0.200 | 95.62 | 65.47-134.19 | 0.0126 | 0.59 | 30.10 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
PO Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

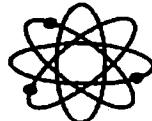
Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10176906**Matrix Spike Duplicate**

| | Analyst: EVB | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|----------|--------------|--------|-------|-------|--------|--------------|----------|------|---------|
| Selenium | | 0.165 | mg/L | 0.200 | 80.72 | 57.06-150.58 | 0.00324 | 0.82 | 25.49 |
| Silver | | 0.145 | mg/L | 0.200 | 71.86 | 49.80-146.63 | 0.00114 | 2.16 | 37.01 |
| Thallium | | 0.216 | mg/L | 0.200 | 107.89 | 62.20-153.09 | 0.00100U | 2.73 | 24.80 |
| Vanadium | | 0.234 | mg/L | 0.200 | 113.15 | 71.20-143.90 | 0.00802 | 2.52 | 28.47 |
| Zinc | | 0.226 | mg/L | 0.200 | 90.82 | 40.77-155.82 | 0.0442 | 1.42 | 28.40 |

Quality Control Batch: 10176910**Blank****Sulfate****Laboratory Control Sample****Sulfate****Matrix Spike****Sulfate****Matrix Spike Duplicate****Sulfate****Quality Control Batch: 10176922****Blank****Iron****Laboratory Control Sample****Iron****Matrix Spike****Iron****Analyst: PCW****Result****Units****5.000U****mg/L****Result****Units****mg/L****59.2****Spike****60.0****%REC****98.67****%REC Lim****80.00-120.00****Result****Units****mg/L****63.8****Spike****50.0****%REC****100.80****%REC Lim****39.07-150.20****Sample****13.4****Result****Units****mg/L****63.5****Spike****50.0****%REC****100.20****%REC Lim****39.07-150.20****Sample****13.4****Result****Units****mg/L****3.76****Spike****4.00****%REC****94.08****%REC Lim****81.37-118.36****Result****Units****mg/L****3.53****Spike****4.00****%REC****86.05****%REC Lim****60.57-140.09****Sample****0.0906**



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
PO Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

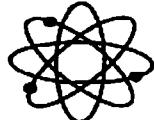
Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

| Matrix Spike Duplicate | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|---------------------------------|--------------|-------|-------|--------|--------------|--------|------|---------|
| Iron | 3.20 | mg/L | 4.00 | 77.68 | 60.57-140.09 | 0.0906 | 9.95 | 16.99 |
| Quality Control Batch: 10176923 | Analyst: EVB | | | | | | | |
| Blank | Result | Units | | | | | | |
| Total Hardness (as CaCO3) | 0.100U | mg/L | | | | | | |
| Laboratory Control Sample | Result | Units | Spike | %REC | %REC Lim | | | |
| Total Hardness (as CaCO3) | 26.1 | mg/L | 26.5 | 98.54 | 85.06-113.17 | | | |
| Quality Control Batch: 10177064 | Analyst: TRB | | | | | | | |
| Blank | Result | Units | | | | | | |
| Chlorophyll a | 1.00U | mg/m3 | | | | | | |
| Quality Control Batch: 10177116 | Analyst: PCW | | | | | | | |
| Blank | Result | Units | | | | | | |
| Unionized NH3(as N) | 0.000100U | mg/L | | | | | | |
| Quality Control Batch: 10177288 | Analyst: VLB | | | | | | | |
| Blank | Result | Units | | | | | | |
| TKN(as N) | 0.200U | mg/L | | | | | | |
| Laboratory Control Sample | Result | Units | Spike | %REC | %REC Lim | | | |
| TKN(as N) | 3.03 | mg/L | 3.00 | 101.02 | 81.58-112.16 | | | |
| Matrix Spike | Result | Units | Spike | %REC | %REC Lim | Sample | | |
| TKN(as N) | 6.13 | mg/L | 5.00 | 97.66 | 66.46-127.47 | 1.24 | | |



FLOWERS CHEMICAL LABORATORIES INC.

PO. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
PO. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-360-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Quality Control Batch: 10177386**Blank**

Total Phosphorous(as P)

Analyst: VLB

| Result | Units |
|---------|-------|
| 0.0400U | mg/L |

Laboratory Control Sample

Total Phosphorous(as P)

| Result | Units | Spike | %REC | %REC Lim |
|--------|-------|-------|------|----------|
|--------|-------|-------|------|----------|

| | | | | |
|------|------|------|-------|--------------|
| 1.41 | mg/L | 1.50 | 94.07 | 84.77-111.07 |
|------|------|------|-------|--------------|

Matrix Spike

Total Phosphorous(as P)

| Result | Units | Spike | %REC | %REC Lim | Sample |
|--------|-------|-------|------|----------|--------|
|--------|-------|-------|------|----------|--------|

| | | | | | |
|------|------|------|-------|--------------|-------|
| 2.12 | mg/L | 2.50 | 76.20 | 81.14-116.06 | 0.210 |
|------|------|------|-------|--------------|-------|

Quality Control Batch: 10177593**Blank**

Phenolics

Analyst: PCW

| Result | Units |
|----------|-------|
| 0.00500U | mg/L |

Laboratory Control Sample

Phenolics

| Result | Units | Spike | %REC | %REC Lim |
|--------|-------|-------|------|----------|
|--------|-------|-------|------|----------|

| | | | | |
|--------|------|-------|-------|--------------|
| 0.0854 | mg/L | 0.100 | 85.40 | 80.00-120.00 |
|--------|------|-------|-------|--------------|

Matrix Spike

Phenolics

| Result | Units | Spike | %REC | %REC Lim | Sample |
|--------|-------|-------|------|----------|--------|
|--------|-------|-------|------|----------|--------|

| | | | | | |
|--------|------|-------|-------|--------------|----------|
| 0.0842 | mg/L | 0.100 | 84.20 | 80.00-120.00 | 0.00500U |
|--------|------|-------|-------|--------------|----------|

Matrix Spike Duplicate

Phenolics

| Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|--------|-------|-------|------|----------|--------|-----|---------|
|--------|-------|-------|------|----------|--------|-----|---------|

| | | | | | | | |
|--------|------|-------|-------|--------------|----------|------|-------|
| 0.0843 | mg/L | 0.100 | 84.30 | 80.00-120.00 | 0.00500U | 0.12 | 20.00 |
|--------|------|-------|-------|--------------|----------|------|-------|

Quality Control Batch: 10177637**Blank**

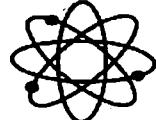
1,2,3-Trichloropropane

1,2-Dibromoethane (EDB)

1,2-dibromo-3-chloropropane

Analyst: DLJ

| Result | Units |
|---------|-------|
| 0.0200U | ug/L |
| 0.0100U | ug/L |
| 0.0200U | ug/L |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie FL 34986
PO. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Laboratory Control Sample

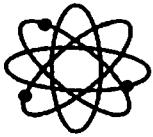
| | Result | Units | Spike | %REC | %REC Lim |
|-----------------------------|--------|-------|-------|--------|--------------|
| 1,2,3-Trichloropropane | 0.744 | ug/L | 0.750 | 99.24 | 80.00-120.00 |
| 1,2-Dibromoethane (EDB) | 0.892 | ug/L | 0.750 | 118.87 | 80.00-120.00 |
| 1,2-dibromo-3-chloropropane | 0.822 | ug/L | 0.750 | 109.61 | 80.00-120.00 |

Matrix Spike

| | Result | Units | Spike | %REC | %REC Lim | Sample |
|-----------------------------|--------|-------|-------|--------|--------------|---------|
| 1,2,3-Trichloropropane | 0.847 | ug/L | 0.750 | 112.92 | 80.00-120.00 | 0.0200U |
| 1,2-Dibromoethane (EDB) | 0.806 | ug/L | 0.750 | 107.41 | 80.00-120.00 | 0.0100U |
| 1,2-dibromo-3-chloropropane | 0.762 | ug/L | 0.750 | 101.65 | 80.00-120.00 | 0.0200U |

Matrix Spike Duplicate

| | Result | Units | Spike | %REC | %REC Lim | Sample | RPD | RPD Lim |
|-----------------------------|--------|-------|-------|--------|--------------|---------|------|---------|
| 1,2,3-Trichloropropane | 0.780 | ug/L | 0.750 | 103.99 | 80.00-120.00 | 0.0200U | 8.24 | 20.00 |
| 1,2-Dibromoethane (EDB) | 0.788 | ug/L | 0.750 | 105.07 | 80.00-120.00 | 0.0100U | 2.21 | 20.00 |
| 1,2-dibromo-3-chloropropane | 0.769 | ug/L | 0.750 | 102.57 | 80.00-120.00 | 0.0200U | 0.90 | 20.00 |



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Atkins
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: Hardee County Regional Landfill
Date Sampled: Jun 22, 2011
Jul 14, 2011; Invoice: 152688

Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by FCL. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

Chain of Custody

Field Data

| Qualifier | Meaning |
|-----------|--|
| U | Compound was analyzed for but not detected. |
| J | One or more QC samples associated with this data value exceeded QC limits. |
| J1 | Surrogate recovery limits have been exceeded. |
| J2 | No known quality control criteria exist for the component. |
| J3 | Reported value failed to meet established quality control criteria for either precision or accuracy. |
| J4 | Sample matrix interfered with the ability to make an accurate determination on the spiked sample. |
| Q | Sample held beyond the accepted holding time. |
| L | Off-scale high; reported concentration exceeds the highest standard. |
| V | Analyte was detected in both the sample and the associated method blank. |
| ZTNTC | Too numerous to count. Numeric value represents filtration volume. |
| A | Absent |
| P | Present |
| T | Value reported is less than the statistical method detection limit. Reported for informational purposes only. |
| M | Value reported is greater than the statistical method detection limit, but less than the reported MDL. |
| G | The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data. |
| S | The least of the dilutions performed did not yield sufficient oxygen residual for valid data. |
| O | Result is greater than (over) the specified value. |
| I | Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| B | Results based upon colony plate count outside ideal range. |
| Y | The laboratory analysis was from an improperly preserved sample. The data may not be accurate. |