



# SARASOTA COUNTY

"Dedicated to Quality Service"

51614

GW

SW

LETTER

JRM  
8/6/10

July 2, 2010

Susan Pelz, P.E.  
Solid Waste Section  
Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Dept. of Environmental Protection

JUL 06 2010

Southwest District

RE: Central County Solid Waste Disposal Complex  
Permit Number 130542-007-SO/01  
1<sup>st</sup> Semi-Annual Ground Water Monitoring & Evaluation Report (January – June  
2010)

ADAPT FILES ON CD  
FILED SEPARATELY

Dear Ms. Pelz:

Enclosed are the 1st Semi-Annual Ground Water Monitoring & Evaluation Report and for 2010 as specified in Specific Condition E.4.c. & E.7. A summary of the water quality standards that were exceeded during the reporting period have been included with this report.

If you have any questions or concerns, please contact me at (941)861-1589 or [lerose@scgov.net](mailto:lerose@scgov.net).

Sincerely,

Lois E. Rose  
Manager, Solid Waste

Enc





# 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

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JUL 06 2010  
SOUTHWEST DISTRICT  
TAMPA

### PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex, Class I Landfill Operation

Address 4000 Knights Trail Road

City Nokomis Zip 34275 County Sarasota

Telephone Number (941) 861-1589

(2) WACS Facility ID 51614

(3) DEP Permit Number 130542-007-SO/01

(4) Authorized Representative's Name Lois Rose Title Manager, Solid Waste

Address 4000 Knights Trail Road

City Nokomis Zip 34275 County Sarasota

Telephone Number (941) 861-1589

Email address (if available) lerose@scgov.net

### 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.

July 1, 2010

(Date)

(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Sarasota County

Analytical Lab NELAC / HRS Certification # E83079, E84167

Lab Name PACE

Benchmark EnviroAnalytical, Inc

Address 8 East Tower Circle, Ormond Beach, FL 32174

1711 12th Street East, Palmetto, FL 34221

Phone Number (386) 672-5668

941-723-9986

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

Northwest District  
160 Government Center  
Pensacola, FL 32501-5794  
850-695-8360

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
Jacksonville, FL 32256-7500  
904-807-3300

Central District  
3319 Magura Blvd., Ste. 232  
Orlando, FL 32803-3787  
407-894-7555

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

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

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



June 10, 2010

**REVISED**

*[Signature]*  
6/16/2010

Mr. Cesar Rodriguez  
Sarasota County  
1255 T. Mabry Carlton Parkway  
Resource Management  
Venice, FL 34293

RE: Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Dear Mr. Rodriguez:

Enclosed are the analytical results for sample(s) received by the laboratory between March 26, 2010 and March 31, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analysis performed by Benchmark, E84167, were identified on the COC and report attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*[Signature]*

Joe Vondrick

joe.vondrick@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Frank DeSteno, Sarasota County  
Finance Dept., Sarasota County

**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

### Ormond Beach Certification IDs

Alabama Certification #: 41320  
Arizona Certification #: AZ0735  
8 East Tower Circle Ormond Beach, FL 32174  
Wyoming Certification: FL NELAC Reciprocity  
Virginia Certification #: 00432  
Texas Certification: FL NELAC Reciprocity  
Tennessee Certification #: TN02974  
Puerto Rico Certification #: FL01264  
Pennsylvania Certification #: 68-547  
North Carolina Certification #: 12710  
New York Certification #: 11608  
New Jersey Certification #: FL765  
New Hampshire Certification #: 2958  
Nevada Certification: FL NELAC Reciprocity

Mississippi Certification: FL NELAC Reciprocity  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH 0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: LA090012  
Maine Certification #: FL1264  
Massachusetts Certification #: M-FL1264  
Michigan Certification #: 9911  
Montana Certification #: Cert 0074

### Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444  
Wisconsin Certification #: 405132750  
South Carolina Certification #: 83006001  
North Dakota Certification #: R-150  
North Carolina Certification #: 503  
New York Certification #: 11888  
1241 Bellevue Street Green Bay, WI 54302

Minnesota Certification #: 055-999-334  
Louisiana Certification #: 04168  
Kentucky Certification #: 82  
Illinois Certification #: 200050  
Florida/NELAP Certification #: E87948  
California Certification #: 09268CA  
New York Certification #: 11887

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Lab ID	Sample ID	Matrix	Date Collected	Date Received
359388001	C-1 (Leachate from Cell #1)	Water	03/24/10 09:50	03/26/10 13:05
359388002	C-2 (Leachate from Cell #2)	Water	03/24/10 11:40	03/26/10 13:05
359388003	C-3 (Leachate from Cell #3)	Water	03/24/10 12:05	03/26/10 13:05
359388004	C-4 (Leachate from Cell #4)	Water	03/24/10 12:25	03/26/10 13:05
359388005	C-5 (Leachate from Cell #5)	Water	03/24/10 12:45	03/26/10 13:05
359388006	C-1 (Leachate from Cell #1)Dup	Water	03/24/10 08:00	03/26/10 13:05
359388007	B-4R (Old Cow Pen Slough Downs	Water	03/30/10 12:10	03/31/10 13:00
359388008	B-2 (Old Cow Pen Slough Upstre	Water	03/30/10 13:00	03/31/10 13:00
359388009	Trip Blank	Water	03/30/10 08:00	03/31/10 13:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
359388001	C-1 (Leachate from Cell #1)	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388002	C-2 (Leachate from Cell #2)	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388003	C-3 (Leachate from Cell #3)	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388004	C-4 (Leachate from Cell #4)	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388005	C-5 (Leachate from Cell #5)	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388006	C-1 (Leachate from Cell #1)Dup	EPA 6010	TAP	5	PASI-O
		EPA 7470	SK1	1	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		EPA 300.0	HEM	2	PASI-O
		EPA 350.1	AMD	1	PASI-O
359388007	B-4R (Old Cow Pen Slough Downs)	EPA 1831E	GMW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
359388008	B-2 (Old Cow Pen Slough Upstre	EPA 8011	MMD	2	PASI-O
		EPA 6010	TAP	13	PASI-O
		EPA 6020	DRS	8	PASI-O
		EPA 8260	JBH	49	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		SM 2540D	MNT	1	PASI-O
		SM 5210B	TLK	1	PASI-O
		SM10200	AMD	1	PASI-O
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	HEM	1	PASI-O
		EPA 350.1	AMD	2	PASI-O
		EPA 351.2	LCS	1	PASI-O
		EPA 353.2	AMD	1	PASI-O
		EPA 365.4	LCS	1	PASI-O
		EPA 410.4	LCS	1	PASI-O
		SM 5310B	TLK	1	PASI-O
		EPA 1631E	GMWV	1	PASI-G
		EPA 8011	MMD	2	PASI-O
		EPA 6010	TAP	13	PASI-O
		EPA 6020	DRS	8	PASI-O
		EPA 8260	JBH	49	PASI-O
		SM 2320B	LCS	3	PASI-O
		SM 2540C	MNT	1	PASI-O
		SM 2540D	MNT	1	PASI-O
		SM 5210B	TLK	1	PASI-O
		SM10200	AMD	1	PASI-O
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	HEM	1	PASI-O
		EPA 350.1	AMD	2	PASI-O
		EPA 351.2	LCS	1	PASI-O
		EPA 353.2	AMD	1	PASI-O
		EPA 365.4	LCS	1	PASI-O
		EPA 410.4	LCS	1	PASI-O
		SM 5310B	TLK	1	PASI-O
359388009	Trip Blank	EPA 8260	JBH	49	PASI-O

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

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Method: EPA 1631E  
Description: 1631E Mercury, Low Level  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: CVFS/1982

1p: Sample was received in a Non Pace GB LLHg bottle.

- B-2 (Old Cow Pen Slough Upstre (Lab ID: 359388008)
- Mercury

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

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Method: EPA 8011  
Description: 8011 GCS EDB and DBCP  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (Including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Method: EPA 6010  
Description: 6010 MET ICP  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

#### Analyte Comments:

QC Batch: MPRP/2003

D4: Sample was diluted due to the presence of high levels of target analytes.

- C-1 (Leachate from Cell #1) (Lab ID: 359388001)
  - Potassium
  - Sodium
- C-1 (Leachate from Cell #1) Dup (Lab ID: 359388006)
  - Potassium
  - Sodium
- C-2 (Leachate from Cell #2) (Lab ID: 359388002)
  - Potassium
  - Sodium
- C-3 (Leachate from Cell #3) (Lab ID: 359388003)
  - Potassium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 6010  
Description: 6010 MET ICP  
Client: Sarasota County  
Date: April 21, 2010

### Analyte Comments:

QC Batch: MPRP/2003

D4: Sample was diluted due to the presence of high levels of target analytes.

- C-3 (Leachate from Cell #3) (Lab ID: 359388003)
  - Sodium
- C-4 (Leachate from Cell #4) (Lab ID: 359388004)
  - Potassium
  - Sodium
- C-5 (Leachate from Cell #5) (Lab ID: 359388005)
  - Potassium
  - Sodium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

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Method: EPA 6020  
Description: 6020 MET ICPMS  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (Including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 7470  
Description: 7470 Mercury  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

6 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

**Initial Calibrations (Including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 8260  
Description: 8260 MSV  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/1581

J(CC): Estimated Value. The continuing calibration for this compound is outside of method control limits. The result is estimated.

- LCS (Lab ID: 62545)
- Carbon disulfide

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/1581

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 358677032

J(M0): Estimated Value. Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 62546)
  - Acetone
  - Carbon disulfide
- MSD (Lab ID: 62547)
  - Acetone

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 8280  
Description: 8260 MSV  
Client: Sarasota County  
Date: April 21, 2010

Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: SM 2320B  
Description: 2320B Alkalinity  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

8 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### QC Batch: WET/3342

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 359325002, 359388008

J(M0): Estimated Value. Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 59289)
- Alkalinity, Total as CaCO<sub>3</sub>

#### QC Batch: WET/3384

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 358677032, 359487002

J(M0): Estimated Value. Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 60435)
- Alkalinity, Total as CaCO<sub>3</sub>

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: SM 2540C  
Description: 2540C Total Dissolved Solids  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

 Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: SM 2540D  
Description: 2540D Total Suspended Solids  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

2 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: SM 5210B  
Description: 5210B BOD, 5 day  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

2 samples were analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

**Project:** Sarasota Central Landfill Comp  
**Pace Project No.:** 359388

---

**Method:** SM10200  
**Description:** Chlorophyll & Pheophytin  
**Client:** Sarasota County  
**Date:** April 21, 2010

**General Information:**

2 samples were analyzed for SM10200. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with SM10200 with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: TKN+NO<sub>x</sub> Calculation  
Description: Total Nitrogen Calculation  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for TKN+NO<sub>x</sub> Calculation. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp

Pace Project No.: 359388

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Sarasota County

Date: April 21, 2010

### General Information:

8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/3812

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 359442002, 359442012

J(M0): Estimated Value. Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 60724)
- Chloride
- MSD (Lab ID: 60725)
- Chloride

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 350.1  
Description: 350.1 Ammonia  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

8 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

**Project:** Sarasota Central Landfill Comp  
**Pace Project No.:** 359388

---

**Method:** EPA 351.2  
**Description:** 351.2 Total Kjeldahl Nitrogen  
**Client:** Sarasota County  
**Date:** April 21, 2010

**General Information:**

2 samples were analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 353.2  
Description: 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

2 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (Including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 365.4  
Description: 365.4 Phosphorus, Total  
Client: Sarasota County  
Date: April 21, 2010

### General Information:

2 samples were analyzed for EPA 365.4. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: EPA 410.4  
Description: 410.4 COD  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (Including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

Method: SM 5310B  
Description: 5310B TOC  
Client: Sarasota County  
Date: April 21, 2010

**General Information:**

2 samples were analyzed for SM 5310B. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-1 (Leachate from Cell #1) Lab ID: 359388001 Collected: 03/24/10 09:50 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.21	Std. Units			1		03/24/10 09:50		
Field Temperature	30.63	deg C			1		03/24/10 09:50		
Field Specific Conductance	4232	umhos/cm			1		03/24/10 09:50		
Oxygen, Dissolved	4.98	mg/L			1		03/24/10 09:50	7782-44-7	
Turbidity	61.2	NTU			1		03/24/10 09:50		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	229	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:02	7440-70-2	
Iron	2520	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:02	7439-89-6	
Magnesium	55.4	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:02	7439-95-4	
Potassium	224	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:31	7440-09-7	D4
Sodium	700	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:31	7440-23-5	D4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	03/31/10 08:00	04/01/10 09:02	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO3)	2980	mg/L	25.0	25.0	5		03/31/10 17:44		
Alkalinity, Carbonate (CaCO3)	25.0U	mg/L	25.0	25.0	5		03/31/10 17:44		
Alkalinity, Total as CaCO3	2980	mg/L	25.0	25.0	5		03/31/10 17:44		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	3110	mg/L	50.0	50.0	1		03/31/10 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Chloride	658	mg/L	250	125	50		04/05/10 23:04	16887-00-6	
Sulfate	125U	mg/L	250	125	50		04/05/10 23:04	14808-79-8	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	364	mg/L	2.0	0.80	40		03/29/10 13:56	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp

Pace Project No.: 359388

Sample: C-2 (Leachate from Cell #2) Lab ID: 359388002 Collected: 03/24/10 11:40 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.48	Std. Units			1		03/24/10 11:40		
Field Temperature	35.25	deg C			1		03/24/10 11:40		
Field Specific Conductance	21013	umhos/cm			1		03/24/10 11:40		
Oxygen, Dissolved	3.57	mg/L			1		03/24/10 11:40	7782-44-7	
Turbidity	561	NTU			1		03/24/10 11:40		
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	169	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:06	7440-70-2	
Iron	5240	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:06	7439-89-6	
Magnesium	64.2	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:06	7439-95-4	
Potassium	694	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:35	7440-09-7	D4
Sodium	2130	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:35	7440-23-5	D4
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	1.0U	ug/L	2.0	1.0	1	03/31/10 08:00	04/01/10 09:05	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	7740	mg/L	50.0	50.0	10		03/31/10 17:59		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	50.0U	mg/L	50.0	50.0	10		03/31/10 17:59		
Alkalinity, Total as CaCO <sub>3</sub>	7740	mg/L	50.0	50.0	10		03/31/10 17:59		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Total Dissolved Solids	9530	mg/L	50.0	50.0	1		03/31/10 11:13		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Chloride	2620	mg/L	500	250	100		04/05/10 23:16	16887-00-6	
Sulfate	250U	mg/L	500	250	100		04/05/10 23:16	14808-79-8	
<b>350.1 Ammonia</b>									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	1180	mg/L	5.0	2.0	100		03/29/10 13:12	7664-41-7	



**REVISED**  
6/16/10

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-2 (Leachate from Cell #2) Lab ID: 359388002 Collected: 03/24/10 11:40 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.48	Std. Units			1		03/24/10 11:40		
Field Temperature	35.25	deg C			1		03/24/10 11:40		
Field Specific Conductance	21013	umhos/cm			1		03/24/10 11:40		
Oxygen, Dissolved	3.57	mg/L			1		03/24/10 11:40	7782-44-7	
Turbidity	56.1	NTU			1		03/24/10 11:40		
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	169	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:06	7440-70-2	
Iron	5240	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:06	7439-89-6	
Magnesium	64.2	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:06	7439-95-4	
Potassium	694	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:35	7440-09-7	D4
Sodium	2130	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:35	7440-23-5	D4
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	1.0U	ug/L	2.0	1.0	1	03/31/10 08:00	04/01/10 09:05	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO3)	7740	mg/L	50.0	50.0	10		03/31/10 17:59		
Alkalinity, Carbonate (CaCO3)	50.0U	mg/L	50.0	50.0	10		03/31/10 17:59		
Alkalinity, Total as CaCO3	7740	mg/L	50.0	50.0	10		03/31/10 17:59		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Total Dissolved Solids	9530	mg/L	50.0	50.0	1		03/31/10 11:13		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Chloride	2620	mg/L	500	250	100		04/05/10 23:16	16887-00-6	
Sulfate	250U	mg/L	500	250	100		04/05/10 23:16	14808-79-8	
<b>350.1 Ammonia</b>									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	1180	mg/L	5.0	2.0	100		03/29/10 13:12	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-3 (Leachate from Cell #3) Lab ID: 359388003 Collected: 03/24/10 12:05 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.65	Std. Units			1		03/24/10 12:05		
Field Temperature	39.68	deg C			1		03/24/10 12:05		
Field Specific Conductance	13015	umhos/cm			1		03/24/10 12:05		
Oxygen, Dissolved	4.14	mg/L			1		03/24/10 12:05	7782-44-7	
Turbidity	49.6	NTU			1		03/24/10 12:05		
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	156	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:19	7440-70-2	
Iron	1990	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:19	7439-89-6	
Magnesium	79.7	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:19	7439-95-4	
Potassium	919	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:39	7440-09-7	D4
Sodium	1980	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:39	7440-23-5	D4
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	03/31/10 08:00	04/01/10 09:08	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO3)	9160	mg/L	50.0	50.0	10		03/31/10 18:18		
Alkalinity, Carbonate (CaCO3)	50.0U	mg/L	50.0	50.0	10		03/31/10 18:18		
Alkalinity, Total as CaCO3	9160	mg/L	50.0	50.0	10		03/31/10 18:18		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Total Dissolved Solids	7400	mg/L	50.0	50.0	1		03/31/10 11:13		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Chloride	2230	mg/L	500	250	100		04/05/10 23:28	16887-00-6	
Sulfate	250U	mg/L	500	250	100		04/05/10 23:28	14808-79-8	
<b>350.1 Ammonia</b>									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	1060	mg/L	5.0	2.0	100		03/29/10 13:17	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-4 (Leachate from Cell #4) Lab ID: 359388004 Collected: 03/24/10 12:25 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.41	Std. Units			1		03/24/10 12:25		
Field Temperature	36.87	deg C			1		03/24/10 12:25		
Field Specific Conductance	20580	umhos/cm			1		03/24/10 12:25		
Oxygen, Dissolved	3.18	mg/L			1		03/24/10 12:25	7782-44-7	
Turbidity	57.7	NTU			1		03/24/10 12:25		
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	157	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:23	7440-70-2	
Iron	2130	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:23	7439-89-6	
Magnesium	66.6	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:23	7439-95-4	
Potassium	749	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:42	7440-09-7	D4
Sodium	1940	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:42	7440-23-5	D4
<b>7470 Mercury</b> Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	03/31/10 08:00	04/01/10 09:11	7439-97-6	
<b>2320B Alkalinity</b> Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	7020	mg/L	50.0	50.0	10		03/31/10 18:32		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	50.0U	mg/L	50.0	50.0	10		03/31/10 18:32		
Alkalinity, Total as CaCO <sub>3</sub>	7020	mg/L	50.0	50.0	10		03/31/10 18:32		
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	6550	mg/L	50.0	50.0	1		03/31/10 11:13		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	2110	mg/L	500	250	100		04/05/10 23:41	16887-00-6	
Sulfate	250U	mg/L	500	250	100		04/05/10 23:41	14808-79-8	
<b>350.1 Ammonia</b> Analytical Method: EPA 350.1									
Nitrogen, Ammonia	910	mg/L	5.0	2.0	100		03/29/10 13:18	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-5 (Leachate from Cell #5) Lab ID: 359388005 Collected: 03/24/10 12:45 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method:									
Field pH	7.32	Std. Units			1		03/24/10 12:45		
Field Temperature	37.11	deg C			1		03/24/10 12:45		
Field Specific Conductance	12311	umhos/cm			1		03/24/10 12:45		
Oxygen, Dissolved	2.91	mg/L			1		03/24/10 12:45	7782-44-7	
Turbidity	38.6	NTU			1		03/24/10 12:45		
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	231	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:28	7440-70-2	
Iron	1060	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:28	7439-89-6	
Magnesium	67.8	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:28	7439-95-4	
Potassium	383	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:46	7440-09-7	D4
Sodium	586	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 15:46	7440-23-5	D4
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	03/31/10 08:00	04/01/10 09:13	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO3)	2610	mg/L	25.0	25.0	5		03/31/10 18:43		
Alkalinity, Carbonate (CaCO3)	25.0U	mg/L	25.0	25.0	5		03/31/10 18:43		
Alkalinity, Total as CaCO3	2610	mg/L	25.0	25.0	5		03/31/10 18:43		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Total Dissolved Solids	3270	mg/L	50.0	50.0	1		03/31/10 11:14		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Chloride	727	mg/L	250	125	50		04/05/10 23:53	16887-00-6	
Sulfate	125U	mg/L	250	125	50		04/05/10 23:53	14808-79-8	
<b>350.1 Ammonia</b>									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	343	mg/L	2.0	0.80	40		03/29/10 13:48	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: C-1 (Leachate from Cell #1)Dup Lab ID: 359388006 Collected: 03/24/10 08:00 Received: 03/26/10 13:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Calcium	✓ 214	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:33	7440-70-2	
Iron	✓ 489	ug/L	40.0	20.0	1	03/30/10 06:30	03/31/10 01:33	7439-89-6	
Magnesium	✓ 61.4	mg/L	0.50	0.25	1	03/30/10 06:30	03/31/10 01:33	7439-95-4	
Potassium	✓ 365	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 16:01	7440-09-7	D4
Sodium	✓ 581	mg/L	10.0	5.0	10	03/30/10 06:30	04/01/10 16:01	7440-23-5	D4
<b>7470 Mercury</b> Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	✓ 0.10U	ug/L	0.20	0.10	1	03/31/10 08:00	04/01/10 09:16	7439-97-6	
<b>2320B Alkalinity</b> Analytical Method: SM 2320B									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	✓ 2780	mg/L	25.0	25.0	5		03/31/10 19:05		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	✓ 25.0U	mg/L	25.0	25.0	5		03/31/10 19:05		
Alkalinity, Total as CaCO <sub>3</sub>	✓ 2780	mg/L	25.0	25.0	5		03/31/10 19:05		J(M0)
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	✓ 3310	mg/L	50.0	50.0	1		03/31/10 11:14		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	✓ 629	mg/L	250	125	50		04/06/10 00:05	16887-00-6	
Sulfate	✓ 125U	mg/L	250	125	50		04/06/10 00:05	14808-79-8	
<b>350.1 Ammonia</b> Analytical Method: EPA 350.1									
Nitrogen, Ammonia	✓ 339	mg/L	2.0	0.80	40		03/29/10 13:55	7664-41-7	



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: Trip Blank Lab ID: 359388009 Collected: 03/30/10 08:00 Received: 03/31/10 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Acetone	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	67-64-1	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	71-43-2	
Bromochloromethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	74-97-5	
Bromodichloromethane	0.27U	ug/L	0.60	0.27	1		04/12/10 14:18	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	74-83-9	
2-Butanone (MEK)	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	78-93-3	
Carbon disulfide	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-15-0	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	56-23-5	
Chlorobenzene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	108-90-7	
Chloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-00-3	
Chloroform	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	67-66-3	
Chloromethane	0.62U	ug/L	1.0	0.62	1		04/12/10 14:18	74-87-3	
Dibromochloromethane	0.26U	ug/L	0.50	0.26	1		04/12/10 14:18	124-48-1	
Dibromomethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	74-95-3	
1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	95-50-1	
1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	106-46-7	
trans-1,4-Dichloro-2-butene	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	110-57-6	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	107-06-2	
1,1-Dichloroethene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-35-4	
cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	156-59-2	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	78-87-5	
cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		04/12/10 14:18	10061-01-5	
trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		04/12/10 14:18	10061-02-6	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	100-41-4	
2-Hexanone	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	591-78-6	
Iodomethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	74-88-4	
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		04/12/10 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0U	ug/L	10.0	5.0	1		04/12/10 14:18	108-10-1	
Styrene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	0.18U	ug/L	0.50	0.18	1		04/12/10 14:18	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	79-01-6	
Trichlorofluoromethane	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-69-4	
1,2,3-Trichloropropane	0.36U	ug/L	0.50	0.36	1		04/12/10 14:18	96-18-4	
Vinyl acetate	1.0U	ug/L	2.0	1.0	1		04/12/10 14:18	108-05-4	
Vinyl chloride	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	75-01-4	
Xylene (Total)	0.50U	ug/L	1.0	0.50	1		04/12/10 14:18	1330-20-7	
4-Bromofluorobenzene (S)	99 %		70-114		1		04/12/10 14:18	460-00-4	

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

Sample: Trip Blank Lab ID: 359388009 Collected: 03/30/10 08:00 Received: 03/31/10 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Dibromofluoromethane (S)	101 %		88-117		1		04/12/10 14:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		86-125		1		04/12/10 14:18	17060-07-0	
Toluene-d8 (S)	100 %		87-113		1		04/12/10 14:18	2037-26-5	



## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: CVFS/1982 Analysis Method: EPA 1631E  
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 285178		Matrix: Water	
Associated Lab Samples: 359388007, 359388008			
Parameter	Units	Blank Result	Reporting Limit
Mercury	ug/L	0.0002331	0.00050
		04/09/10 15:00	Analyzed
			Qualifiers

METHOD BLANK: 285179		Matrix: Water	
Associated Lab Samples: 359388007, 359388008			
Parameter	Units	Blank Result	Reporting Limit
Mercury	ug/L	0.0003601	0.00050
		04/09/10 16:37	Analyzed
			Qualifiers

METHOD BLANK: 285180		Matrix: Water	
Associated Lab Samples: 359388007, 359388008			
Parameter	Units	Blank Result	Reporting Limit
Mercury	ug/L	0.0002161	0.00050
		04/09/10 16:55	Analyzed
			Qualifiers

LABORATORY CONTROL SAMPLE & LCSD: 285181		285182	
Parameter	Units	Spike Conc.	LCS Result
Mercury	ug/L	.005	0.000528
		0.00469	106
		94	79-121
		12	24

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285183		285184	
Parameter	Units	MS Spike Conc.	MSD Spike Conc.
Mercury	ug/L	0.00131	.005
		.005	0.000643
		0.00628	102
		99	75-125
		2	24

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: OEXT/2140 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 61009 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0051U	0.021	04/08/10 01:55	
1,2-Dibromoethane (EDB)	ug/L	0.0064U	0.010	04/08/10 01:55	

LABORATORY CONTROL SAMPLE: 61010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.26	0.29	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	.26	0.27	103	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 61011 61012

Parameter	Units	359322044 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0050 U	.42	.42	0.49	0.48	116	113	60-140	3	40
1,2-Dibromoethane (EDB)	ug/L	0.0063 U	.42	.42	0.51	0.49	119	115	60-140	4	40



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: MPRP/2003 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

METHOD BLANK: 58477

Matrix: Water

Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	0.25U	0.50	03/30/10 23:50	
Iron	ug/L	20.0U	40.0	03/30/10 23:50	
Magnesium	mg/L	0.25U	0.50	03/30/10 23:50	
Potassium	mg/L	0.50U	1.0	03/30/10 23:50	
Sodium	mg/L	0.50U	1.0	03/30/10 23:50	

LABORATORY CONTROL SAMPLE: 58478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	12.5	12.9	103	80-120	
Iron	ug/L	2500	2760	110	80-120	
Magnesium	mg/L	12.5	13.3	106	80-120	
Potassium	mg/L	12.5	13.0	104	80-120	
Sodium	mg/L	12.5	13.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58479

58480

Parameter	Units	359369001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30700	12.5	12.5	44.0	42.9	106	98	75-125	3	20	
Iron	ug/L	416	2500	2500	3120	3090	108	107	75-125	1	20	
Magnesium	mg/L	6630	12.5	12.5	19.5	19.1	103	100	75-125	2	20	
Potassium	mg/L	5030	12.5	12.5	18.6	18.5	109	108	75-125	.5	20	
Sodium	mg/L	17200	12.5	12.5	30.9	30.3	110	105	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: MPRP/2081 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 62643 Matrix: Water  
Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	7.5U	15.0	04/14/10 13:51	
Arsenic	ug/L	5.0U	10.0	04/14/10 13:51	
Barium	ug/L	5.0U	10.0	04/14/10 13:51	
Calcium	mg/L	0.25U	0.50	04/14/10 13:51	
Chromium	ug/L	2.5U	5.0	04/14/10 13:51	
Cobalt	ug/L	5.0U	10.0	04/14/10 13:51	
Iron	ug/L	20.0U	40.0	04/14/10 13:51	
Magnesium	mg/L	0.25U	0.50	04/14/10 13:51	
Nickel	ug/L	2.5U	5.0	04/14/10 13:51	
Potassium	mg/L	0.50U	1.0	04/14/10 13:51	
Sodium	mg/L	0.50U	1.0	04/14/10 13:51	
Tot Hardness asCaCO3 (SM 2340B	mg/L	1.6U	3.2	04/14/10 13:51	
Vanadium	ug/L	5.0U	10.0	04/14/10 13:51	

LABORATORY CONTROL SAMPLE: 62644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	278	111	80-120	
Arsenic	ug/L	250	274	110	80-120	
Barium	ug/L	250	274	110	80-120	
Calcium	mg/L	12.5	13.0	104	80-120	
Chromium	ug/L	250	278	111	80-120	
Cobalt	ug/L	250	280	112	80-120	
Iron	ug/L	2500	2810	112	80-120	
Magnesium	mg/L	12.5	13.2	106	80-120	
Nickel	ug/L	250	283	113	80-120	
Potassium	mg/L	12.5	12.5	100	80-120	
Sodium	mg/L	12.5	12.9	103	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L		86.8			
Vanadium	ug/L	250	277	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62645 62646

Parameter	Units	359388008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	7.5U	250	250	277	275	111	110	75-125	.7	20
Arsenic	ug/L	5.0U	250	250	274	278	109	111	75-125	1	20
Barium	ug/L	13.8	250	250	290	291	110	111	75-125	.3	20
Calcium	mg/L	10.1	12.5	12.5	23.5	23.8	107	110	75-125	1	20
Chromium	ug/L	2.5U	250	250	280	282	112	112	75-125	.7	20

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62645

62646

Parameter	Units	359388008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Cobalt	ug/L	5.0U	250	250	282	284	113	113	75-125	.7	20	
Iron	ug/L	384	2500	2500	3210	3230	113	114	75-125	.6	20	
Magnesium	mg/L	4.6	12.5	12.5	17.9	18.1	106	108	75-125	1	20	
Nickel	ug/L	2.5U	250	250	281	284	112	113	75-125	1	20	
Potassium	mg/L	6.4	12.5	12.5	19.8	19.8	107	107	75-125	0	20	
Sodium	mg/L	7.8	12.5	12.5	21.3	21.2	108	107	75-125	.5	20	
Tot Hardness asCaCO3 (SM 2340B	mg/L	44.3			132	134				1	20	
Vanadium	ug/L	5.0U	250	250	281	283	112	113	75-125	.7	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: MPRP/2080 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 62639 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	0.050U	0.10	04/14/10 15:15	
Cadmium	ug/L	0.050U	0.10	04/14/10 15:15	
Copper	ug/L	0.93U	1.0	04/14/10 15:15	
Lead	ug/L	0.50U	1.0	04/14/10 15:15	
Selenium	ug/L	0.50U	1.0	04/14/10 15:15	
Silver	ug/L	0.050U	0.10	04/14/10 15:15	
Thallium	ug/L	0.50U	1.0	04/14/10 15:15	
Zinc	ug/L	2.5U	5.0	04/14/10 15:15	

LABORATORY CONTROL SAMPLE: 62640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	5	5.2	105	90-110	
Cadmium	ug/L	5	5.2	104	90-110	
Copper	ug/L	50	52.4	105	90-110	
Lead	ug/L	50	51.8	104	90-110	
Selenium	ug/L	50	53.5	107	90-110	
Silver	ug/L	5	5.3	106	90-110	
Thallium	ug/L	50	53.4	107	90-110	
Zinc	ug/L	250	262	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62641 62642

Parameter	Units	359388007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Beryllium	ug/L	0.050U	5	5	5.3	5.2	107	103	70-130	3	20
Cadmium	ug/L	0.050U	5	5	5.3	5.3	107	105	70-130	2	20
Copper	ug/L	2.3	50	50	53.2	53.1	102	102	70-130	.1	20
Lead	ug/L	0.56 I	50	50	51.7	52.2	102	103	70-130	1	20
Selenium	ug/L	0.50U	50	50	51.3	50.3	102	100	70-130	2	20
Silver	ug/L	0.050U	5	5	5.3	5.3	106	105	70-130	.5	20
Thallium	ug/L	0.50U	50	50	52.3	52.5	104	105	70-130	.5	20
Zinc	ug/L	14.1	250	250	271	271	103	103	70-130	.1	20



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: MERP/1261 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

METHOD BLANK: 59061 Matrix: Water  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.10U	0.20	04/01/10 08:40	

LABORATORY CONTROL SAMPLE: 59062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59063 59064

Parameter	Units	359322019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10U	2	2	2.1	2.0	102	101	85-115	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59065 59066

Parameter	Units	359322029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10U	2	2	1.9	1.9	97	96	85-115	1	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: MSV/1581 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 359388007, 359388008, 359388009

METHOD BLANK: 62544 Matrix: Water  
Associated Lab Samples: 359388007, 359388008, 359388009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
1,1,2,2-Tetrachloroethane	ug/L	0.18U	0.50	04/12/10 13:31	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
1,1-Dichloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
1,1-Dichloroethene	ug/L	0.50U	1.0	04/12/10 13:31	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	04/12/10 13:31	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	04/12/10 13:31	
1,2-Dichloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
1,2-Dichloropropane	ug/L	0.50U	1.0	04/12/10 13:31	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	04/12/10 13:31	
2-Butanone (MEK)	ug/L	5.0U	10.0	04/12/10 13:31	
2-Hexanone	ug/L	5.0U	10.0	04/12/10 13:31	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	04/12/10 13:31	
Acetone	ug/L	5.0U	10.0	04/12/10 13:31	
Acrylonitrile	ug/L	5.0U	10.0	04/12/10 13:31	
Benzene	ug/L	0.50U	1.0	04/12/10 13:31	
Bromochloromethane	ug/L	0.50U	1.0	04/12/10 13:31	
Bromodichloromethane	ug/L	0.27U	0.60	04/12/10 13:31	
Bromoform	ug/L	0.50U	1.0	04/12/10 13:31	
Bromomethane	ug/L	0.50U	1.0	04/12/10 13:31	
Carbon disulfide	ug/L	0.50U	1.0	04/12/10 13:31	
Carbon tetrachloride	ug/L	0.50U	1.0	04/12/10 13:31	
Chlorobenzene	ug/L	0.50U	1.0	04/12/10 13:31	
Chloroethane	ug/L	0.50U	1.0	04/12/10 13:31	
Chloroform	ug/L	0.50U	1.0	04/12/10 13:31	
Chloromethane	ug/L	0.62U	1.0	04/12/10 13:31	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	04/12/10 13:31	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	04/12/10 13:31	
Dibromochloromethane	ug/L	0.26U	0.50	04/12/10 13:31	
Dibromomethane	ug/L	0.50U	1.0	04/12/10 13:31	
Ethylbenzene	ug/L	0.50U	1.0	04/12/10 13:31	
Iodomethane	ug/L	0.50U	1.0	04/12/10 13:31	
Methylene Chloride	ug/L	2.5U	5.0	04/12/10 13:31	
Styrene	ug/L	0.50U	1.0	04/12/10 13:31	
Tetrachloroethene	ug/L	0.50U	1.0	04/12/10 13:31	
Toluene	ug/L	0.50U	1.0	04/12/10 13:31	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	04/12/10 13:31	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	04/12/10 13:31	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	04/12/10 13:31	
Trichloroethene	ug/L	0.50U	1.0	04/12/10 13:31	
Trichlorofluoromethane	ug/L	0.50U	1.0	04/12/10 13:31	
Vinyl acetate	ug/L	1.0U	2.0	04/12/10 13:31	

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

METHOD BLANK: 62544 Matrix: Water

Associated Lab Samples: 359388007, 359388008, 359388009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	0.50U	1.0	04/12/10 13:31	
Xylene (Total)	ug/L	0.50U	1.0	04/12/10 13:31	
1,2-Dichloroethane-d4 (S)	%	100	86-125	04/12/10 13:31	
1,2-Dichloroethane-d4 (S)	%	115	86-125	04/13/10 02:52	
4-Bromofluorobenzene (S)	%	100	70-114	04/12/10 13:31	
4-Bromofluorobenzene (S)	%	90	70-114	04/13/10 02:52	
Dibromofluoromethane (S)	%	106	88-117	04/13/10 02:52	
Dibromofluoromethane (S)	%	99	88-117	04/12/10 13:31	
Toluene-d8 (S)	%	101	87-113	04/12/10 13:31	
Toluene-d8 (S)	%	102	87-113	04/13/10 02:52	

LABORATORY CONTROL SAMPLE: 62545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.2	106	76.8-126.8	
1,1,1-Trichloroethane	ug/L	20	19.3	96	81.9-126.8	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	70.5-131.7	
1,1,2-Trichloroethane	ug/L	20	20.4	102	84.1-122.6	
1,1-Dichloroethane	ug/L	20	18.6	93	66.4-138.6	
1,1-Dichloroethene	ug/L	20	18.6	93	79.3-127.5	
1,2,3-Trichloropropane	ug/L	20	20.1	101	58.2-134.6	
1,2-Dichlorobenzene	ug/L	20	20.1	100	91.7-127	
1,2-Dichloroethane	ug/L	20	20.3	101	85.9-121.9	
1,2-Dichloropropane	ug/L	20	20.1	100	82.2-129.1	
1,4-Dichlorobenzene	ug/L	20	20.4	102	91.9-121.7	
2-Butanone (MEK)	ug/L	20	23.4	117	53.8-156.3	
2-Hexanone	ug/L	20	24.3	122	57.5-155.8	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.2	101	71.8-134.4	
Acetone	ug/L	20	22.7	114	47.2-184.1	
Acrylonitrile	ug/L	200	194	97	57.8-125.9	
Benzene	ug/L	20	21.2	106	77.3-132.8	
Bromochloromethane	ug/L	20	19.5	97	87.4-122.8	
Bromodichloromethane	ug/L	20	21.5	107	77.2-121.1	
Bromoform	ug/L	20	18.7	94	65.9-133.5	
Bromomethane	ug/L	20	18.7	93	48.2-223.9	
Carbon disulfide	ug/L	20	27.5	137	20.3-195.4 J(CC)	
Carbon tetrachloride	ug/L	20	19.3	96	69-155.5	
Chlorobenzene	ug/L	20	20.3	101	76.9-123.9	
Chloroethane	ug/L	20	18.0	90	46.7-157.8	
Chloroform	ug/L	20	19.9	100	69.7-132	
Chloromethane	ug/L	20	16.7	84	54.4-153.8	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	84-127.9	
cis-1,3-Dichloropropene	ug/L	20	20.9	105	73-121.6	
Dibromochloromethane	ug/L	20	19.6	98	65.4-126.2	
Dibromomethane	ug/L	20	19.5	97	85.3-121.7	

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

LABORATORY CONTROL SAMPLE: 62545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	20.8	104	66.4-134.4	
Iodomethane	ug/L	20	19.5	98	1-243.3	
Methylene Chloride	ug/L	20	18.6	93	65.7-137.3	
Styrene	ug/L	20	21.1	105	76.5-118.5	
Tetrachloroethene	ug/L	20	18.4	92	71-134	
Toluene	ug/L	20	21.0	105	75-129	
trans-1,2-Dichloroethene	ug/L	20	20.1	101	83.3-126.3	
trans-1,3-Dichloropropene	ug/L	20	21.3	107	67.6-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.9	90	36.1-177.4	
Trichloroethene	ug/L	20	20.7	104	81.1-122.4	
Trichlorofluoromethane	ug/L	20	19.7	98	75.4-124.6	
Vinyl acetate	ug/L	20	19.9	100	72.2-139	
Vinyl chloride	ug/L	20	19.0	95	70.2-136.9	
Xylene (Total)	ug/L	60	63.6	106	82.3-126	
1,2-Dichloroethane-d4 (S)	%			98	86-125	
1,2-Dichloroethane-d4 (S)	%			88	86-125	
4-Bromofluorobenzene (S)	%			101	70-114	
4-Bromofluorobenzene (S)	%			104	70-114	
Dibromofluoromethane (S)	%			97	88-117	
Dibromofluoromethane (S)	%			98	88-117	
Toluene-d8 (S)	%			99	87-113	
Toluene-d8 (S)	%			100	87-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62546 62547

Parameter	Units	358677032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	20	20.8	21.4	104	107	70-130	3	40
1,1,1-Trichloroethane	ug/L	0.50U	20	20	20.1	20.5	101	103	70-130	2	40
1,1,2,2-Tetrachloroethane	ug/L	0.18U	20	20	20.0	20.6	100	103	70-130	3	40
1,1,2-Trichloroethane	ug/L	0.50U	20	20	20.1	20.7	100	103	70-130	3	40
1,1-Dichloroethane	ug/L	0.50U	20	20	19.2	19.4	96	97	70-130	1	40
1,1-Dichloroethene	ug/L	0.50U	20	20	20.2	20.4	101	102	70-130	9	40
1,2,3-Trichloropropane	ug/L	0.36U	20	20	18.7	18.9	93	94	70-130	1	40
1,2-Dichlorobenzene	ug/L	0.50U	20	20	19.5	20.1	98	100	70-130	3	40
1,2-Dichloroethane	ug/L	0.50U	20	20	20.0	20.4	100	102	70-130	2	40
1,2-Dichloropropane	ug/L	0.50U	20	20	19.9	20.3	100	101	70-130	2	40
1,4-Dichlorobenzene	ug/L	0.50U	20	20	20.0	20.5	100	103	70-130	3	40
2-Butanone (MEK)	ug/L	5.0U	20	20	16.0	15.1	80	76	70-130	5	40
2-Hexanone	ug/L	5.0U	20	20	16.6	16.1	83	81	70-130	3	40
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	20	20	19.5	18.0	97	90	70-130	8	40
Acetone	ug/L	5.0U	20	20	12.5	11.9	63	60	70-130	5	40
Acrylonitrile	ug/L	5.0U	200	200	190	197	95	99	70-130	4	40
Benzene	ug/L	0.50U	20	20	21.8	22.1	109	111	70-130	1	40
Bromochloromethane	ug/L	0.50U	20	20	19.6	20.0	98	100	70-130	2	40
Bromodichloromethane	ug/L	0.27U	20	20	21.1	21.8	105	109	70-130	3	40
Bromoform	ug/L	0.50U	20	20	17.3	18.1	86	90	70-130	4	40

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62546 62547

Parameter	Units	358677032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Bromomethane	ug/L	0.50U	20	20	18.7	21.8	94	109	70-130	15	40	
Carbon disulfide	ug/L	0.50U	20	20	29.2	25.8	146	129	70-130	12	40	J(M0)
Carbon tetrachloride	ug/L	0.50U	20	20	20.4	20.6	102	103	70-130	.6	40	
Chlorobenzene	ug/L	0.50U	20	20	20.3	21.1	101	105	70-130	4	40	
Chloroethane	ug/L	0.50U	20	20	19.0	20.8	95	104	70-130	9	40	
Chloroform	ug/L	0.50U	20	20	19.9	20.6	100	103	70-130	3	40	
Chloromethane	ug/L	0.62U	20	20	17.6	19.1	88	95	70-130	8	40	
cis-1,2-Dichloroethene	ug/L	0.50U	20	20	19.2	19.4	96	97	70-130	.9	40	
cis-1,3-Dichloropropene	ug/L	0.25U	20	20	19.4	19.8	97	99	70-130	2	40	
Dibromochloromethane	ug/L	0.26U	20	20	18.5	19.4	92	97	70-130	5	40	
Dibromomethane	ug/L	0.50U	20	20	19.5	20.6	97	103	70-130	5	40	
Ethylbenzene	ug/L	0.50U	20	20	21.1	21.5	106	108	70-130	2	40	
Iodomethane	ug/L	0.50U	20	20	21.6	20.5	108	102	70-130	5	40	
Methylene Chloride	ug/L	2.5U	20	20	18.7	18.8	94	94	70-130	.2	40	
Styrene	ug/L	0.50U	20	20	21.0	21.5	105	107	70-130	2	40	
Tetrachloroethene	ug/L	0.50U	20	20	18.3	18.6	91	93	70-130	2	40	
Toluene	ug/L	0.50U	20	20	21.2	21.7	106	109	70-130	2	40	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20	20.9	21.1	105	105	70-130	.7	40	
trans-1,3-Dichloropropene	ug/L	0.25U	20	20	19.8	20.7	99	104	70-130	4	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	20	15.9	14.9	79	75	70-130	6	40	
Trichloroethene	ug/L	0.50U	20	20	21.9	21.7	109	109	70-130	.7	40	
Trichlorofluoromethane	ug/L	0.50U	20	20	21.1	24.0	105	120	70-130	13	40	
Vinyl acetate	ug/L	1.0U	20	20	15.6	14.3	78	71	70-130	9	40	
Vinyl chloride	ug/L	0.50U	20	20	19.8	21.9	99	109	70-130	10	40	
Xylene (Total)	ug/L	0.50U	60	60	63.3	65.1	105	109	70-130	3	40	
1,2-Dichloroethane-d4 (S)	%						96	97	86-125			
4-Bromofluorobenzene (S)	%						101	103	70-114			
Dibromofluoromethane (S)	%						99	98	88-117			
Toluene-d8 (S)	%						99	100	87-113			



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3342 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

METHOD BLANK: 59284 Matrix: Water  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	03/31/10 16:41	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	5.0U	5.0	03/31/10 16:41	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	03/31/10 16:41	

LABORATORY CONTROL SAMPLE: 59285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	250	246	98	90-110	

MATRIX SPIKE SAMPLE: 59287

Parameter	Units	359325002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	28.0	250	275	99	90-110	

MATRIX SPIKE SAMPLE: 59289

Parameter	Units	359388006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	2780	1250	3710	74	90-110	J(MO)

SAMPLE DUPLICATE: 59286

Parameter	Units	359325002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	28.0	27.7	1	20	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	28.0	27.7	1	20	

SAMPLE DUPLICATE: 59288

Parameter	Units	359388006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	25.0U	25.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	2780	2660	4	20	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	2780	2660	4	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3384 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity

Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 60430 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	04/05/10 13:51	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	5.0U	5.0	04/05/10 13:51	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	04/05/10 13:51	

LABORATORY CONTROL SAMPLE: 60431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	250	243	97	90-110	

MATRIX SPIKE SAMPLE: 60433

Parameter	Units	358677032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	138	250	370	93	90-110	

MATRIX SPIKE SAMPLE: 60435

Parameter	Units	359487002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	305	250	374	28	90-110 J(M0)	

SAMPLE DUPLICATE: 60432

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	138	128	7	20	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	138	128	7	20	

SAMPLE DUPLICATE: 60434

Parameter	Units	359487002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	305	302	1	20	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	305	302	1	20	

Date: 04/21/2010 04:31 PM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3336 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

METHOD BLANK: 59075 Matrix: Water  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0U	5.0	03/31/10 11:09	

LABORATORY CONTROL SAMPLE: 59076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	90-110	

SAMPLE DUPLICATE: 59077

Parameter	Units	359322006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	24.0	26.0	8	20	

SAMPLE DUPLICATE: 59078

Parameter	Units	359388001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3110	3250	4	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3379 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 60252 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0U	5.0	04/05/10 11:58	

LABORATORY CONTROL SAMPLE: 60253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	303	101	90-110	

SAMPLE DUPLICATE: 60254

Parameter	Units	359468001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31700	33100	4	20	

SAMPLE DUPLICATE: 60255

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	237	241	2	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3380 Analysis Method: SM 2540D  
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 60256 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0U	5.0	04/05/10 12:00	

LABORATORY CONTROL SAMPLE: 60257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	80	87.0	109	90-110	

SAMPLE DUPLICATE: 60258

Parameter	Units	359388007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0U	5.0U		20	

SAMPLE DUPLICATE: 60259

Parameter	Units	359497002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.5	5.5	0	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3363 Analysis Method: SM 5210B  
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 59862 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0U	2.0	04/05/10 13:43	

LABORATORY CONTROL SAMPLE: 59863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	184	93	85-115	

SAMPLE DUPLICATE: 59864

Parameter	Units	359414016 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.0U	3.0U		20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WET/3345 Analysis Method: SM10200  
QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 59529 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorophyll a	mg/m3	1.0U	1.0	04/02/10 12:20	

SAMPLE DUPLICATE: 59530

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	mg/m3	10.9 ug/L	12.2	11	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3812 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006, 359388007, 359388008

METHOD BLANK: 60722 Matrix: Water  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006, 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	2.5U	5.0	04/05/10 22:40	
Sulfate	mg/L	2.5U	5.0	04/05/10 22:40	

LABORATORY CONTROL SAMPLE: 60723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60724 60725

Parameter	Units	359442002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.3	50	50	65.5	65.6	112	112	90-110	.07	20	J(M0)
Sulfate	mg/L	2.5U	50	50	51.8	51.7	103	103	90-110	.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60726 60727

Parameter	Units	359442012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	249	50	50	330	330	162	161	90-110	.1	20	
Sulfate	mg/L	2.5U	50	50	51.8	51.7	103	103	90-110	.3	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3677 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

METHOD BLANK: 58265 Matrix: Water  
Associated Lab Samples: 359388001, 359388002, 359388003, 359388004, 359388005, 359388006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	03/29/10 12:48	

LABORATORY CONTROL SAMPLE: 58266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 58268

Parameter	Units	359322012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	1	0.91	91	90-110	

SAMPLE DUPLICATE: 58267

Parameter	Units	359322012 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.020U		20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3781 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 60264 Matrix: Water  
Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	04/05/10 10:47	

LABORATORY CONTROL SAMPLE: 60265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 60267

Parameter	Units	359322029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.049 I	1	1.0	96	90-110	

SAMPLE DUPLICATE: 60266

Parameter	Units	359322029 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.049 I	0.043 I		20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3827 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 61173 Matrix: Water  
Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.25U	0.50	04/08/10 13:27	

LABORATORY CONTROL SAMPLE: 61174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	21.3	106	90-110	

MATRIX SPIKE SAMPLE: 61176

Parameter	Units	359642001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	6.5	20	26.8	102	90-110	

SAMPLE DUPLICATE: 61175

Parameter	Units	359642001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	6.5	6.4	.5	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3804 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 60665 Matrix: Water  
Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	0.050	04/06/10 10:18	

LABORATORY CONTROL SAMPLE: 60666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 60668

Parameter	Units	358677032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	2	2.0	99	80-120	

SAMPLE DUPLICATE: 60667

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	0.025U		20	



## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3828 Analysis Method: EPA 365.4  
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 61177 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050U	0.10	04/08/10 14:08	

LABORATORY CONTROL SAMPLE: 61178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.1	102	90-110	

MATRIX SPIKE SAMPLE: 61180

Parameter	Units	359642001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.43	4	4.3	96	80-120	

SAMPLE DUPLICATE: 61179

Parameter	Units	359642001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.43	0.47	8	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3851 Analysis Method: EPA 410.4  
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 61637 Matrix: Water  
Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5U	25.0	04/07/10 15:45	

#### LABORATORY CONTROL SAMPLE: 61638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	508	102	90-110	

#### MATRIX SPIKE SAMPLE: 61640

Parameter	Units	358677032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	40.5	500	553	102	90-110	

#### SAMPLE DUPLICATE: 61639

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40.5	49.6	20	20	



### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

QC Batch: WETA/3763 Analysis Method: SM 5310B  
QC Batch Method: SM 5310B Analysis Description: 5310B TOC  
Associated Lab Samples: 359388007, 359388008

METHOD BLANK: 59680 Matrix: Water

Associated Lab Samples: 359388007, 359388008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50U	1.0	04/01/10 16:28	

LABORATORY CONTROL SAMPLE: 59681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.5	98	90-110	

MATRIX SPIKE SAMPLE: 59683

Parameter	Units	358677032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	11.7	20	33.4	109	80-120	

SAMPLE DUPLICATE: 59682

Parameter	Units	358677032 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	11.7	11.5	2	20	



## QUALIFIERS

Project: Sarasota Central Landfill Comp  
Pace Project No.: 359388

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

1p Sample was received in a Non Pace GB LLHg bottle.

D4 Sample was diluted due to the presence of high levels of target analytes.

J(CC) Estimated Value. The continuing calibration for this compound is outside of method control limits. The result is estimated.

J(MD) Estimated Value. Matrix spike recovery was outside laboratory control limits.



Elab, Inc.

8 East Tower Circle  
Ormond Beach, FL 32174  
(386)672-5668 • FAX (386)673-4001

## CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

(INSTRUCTIONS ON BACK OF THIS FORM)

## FOR LAB USE ONLY

Temp. of Contents: 6.0 °C (or Received on Ice, ROI) Condition of Contents: \_\_\_\_\_

## FOR LAB USE ONLY

Submission No. 359388

1. Client: (Company or Individual)

Sarasota County Environmental Services

2. Report to: (if different from above)

Cesar Rodriguez

3. Client Project Name:

Central County Leachate

4. Client Project No.:

No.: 100643

6. Custody Seal No.:

7. Sampled By: Larry Cardinal

8. Shipping Method:

Address: 1301 Cattlemen Rd. Bldg E

Phone: (941) 650-9834

City Sarasota State FL Zip Code 34232

Fax: (941) 861-6665

Address:

Phone: ( )

City State Zip Code

Fax: ( )

Water Sample  
Codes (for Item 13)Container Codes  
(for Item 16)

DW = Drinking Water

V = VOA vial

GW = Ground Water

G = glass

SW = Surface Water

P = plastic

PW = Processed Water

M = micro bag/cup

WW = Waste Water

O = other

14. 15. Preservatives S DHZ OH

16. Containers P P P

17.

18. Report Type:

☒ Routine

With QC

19. Turnaround Time:

☒ Standard

Rush: / /

Preservative Codes

(for Item 15)

C = Cool Only

H = Hydrochloric Acid

M = Monochloroacetic Acid

N = Nitric Acid

OH = Sodium Hydroxide

S = Sulfuric Acid

T = Sodium Thiosulfate

Item	9. Sample ID or No.	10. Sample Description	11. Date	12. Time	13. Comp.	Grab	Water	(Code)	Air	Soil	Sludge	Other	14. Total ammonia-N, Nitrate	15. Ca, Fe Mg, Hg, K, Na	16. Nitrite, Sulfate, TDS, Bicarb, Chloride, Carbonate	17.	20. REMARK	LAB SAMPLE NO.
1	20580	CCLEA1	3.24.10	0950	X	le							AB	C	D, E, F		Benchmark	1 NO2 NO3 NOX
2	20581	CCLEA2	3.24.10	1140	X	le							AB	C	D, E, F		Nitrate, Nitrite	2
3	20582	CCLEA3	3.24.10	1205	X	le							AB	C	D, E, F		NOX	3
4	20583	CCLEA4	3.24.10	1225	X	le							AB	C	D, E, F			4
5	20584	CCLEA5	3.24.10	1247	X	le							AB	C	D, E, F			5
6		Dup	3.24.10		X	le							AB	C	D, E, F			6
7																		

21. RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME	FOR LAB USE ONLY
<i>[Signature]</i>	3.24.10	1340	<i>[Signature]</i>	3.24.10	1340	Sampling Fee: _____ Hrs.
<i>[Signature]</i>	3.24.10	1410	<i>[Signature]</i>	3.24.10	1410	Equipment Rental Fee: _____
<i>[Signature]</i>	3.26.10	0905	<i>[Signature]</i>	3.26.10	0905	Profile No.: _____
<i>[Signature]</i>	3.26.10	0905	<i>[Signature]</i>	3.26.10	1305	Quote No.: _____

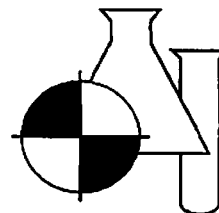
DISTRIBUTION: White with report; make copies as needed

Revised: 1/99



# BENCHMARK

*EnviroAnalytical Inc.*



NELAC Certification # E84167

## ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 10030774

Pace Analytical Services, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174

Project Name : CENTRAL COUNTY LEACHATE  
Date Received : 03/24/2010  
Time Received : 1410

Submission Number 10030774

Sample Number: 001      Sample Description: 20580 CCLEA1  
Sample Date: 03/24/2010      Sample Method: Grab  
Sample Time: 0950

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.05 U	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.050 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.005 I	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK

Submission Number 10030774

Sample Number: 002      Sample Description: 20581 CCLEA2  
Sample Date: 03/24/2010      Sample Method: Grab  
Sample Time: 1140

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.152 I	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.152 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.003 U	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK

1711 12th Street East \* Palmetto, FL 34221 \* Phone (941) 723-9986 \* Fax (941) 723-6061



Sample Condition Upon Receipt Form (SCUR)

Table Number: \_\_\_\_\_

Pace Analytical

Client Name: Sarasota County

Project # 359388

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ B&B ☐ Other \_\_\_\_\_

Tracking # \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Thermometer Used L4 L5 L6

Type of Ice: Wet Blue None

Cooler Temperature 2.1 (Actual)

(Temp should be above freezing to 8°C)

Receipt of samples satisfactory:

☐ Yes ☐ No

Rush TAT requested on COC: ☐

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution (use back for additional comments):

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Finished Product Information Only

F.P. Sample ID: \_\_\_\_\_

Production Code: \_\_\_\_\_

Date/Time Opened: \_\_\_\_\_

Number of Unopened Bottles Remaining: \_\_\_\_\_

Extra Sample in Shed: Yes No

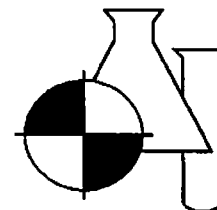
Size & Qty of Bottles Received

\_\_\_\_\_ x 5 Gal  
 \_\_\_\_\_ x 2.5 Gal  
 \_\_\_\_\_ x 1 Gal  
 \_\_\_\_\_ x 1 Liter  
 \_\_\_\_\_ x 500 mL  
 \_\_\_\_\_ x 250 mL  
 \_\_\_\_\_ x Other: \_\_\_\_\_



# BENCHMARK

*EnviroAnalytical Inc.*



NELAC Certification # E84167

Submission Number 10030774

Sample Number: 003

Sample Date: 03/24/2010

Sample Time: 1205

Sample Description: 20582 CCLEA3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.074 I	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.137 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.063	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK

Submission Number 10030774

Sample Number: 004

Sample Date: 03/24/2010

Sample Time: 1225

Sample Description: 20583 CCLEA4

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.151 I	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.151 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.003 U	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK

Submission Number 10030774

Sample Number: 005

Sample Date: 03/24/2010

Sample Time: 1245

Sample Description: 20584 CCLEA5

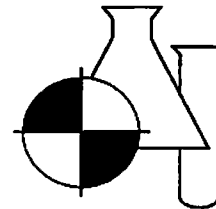
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.065 I	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.070 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.005 I	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK



# BENCHMARK

*EnviroAnalytical Inc.*



NELAC Certification # E84167

Submission Number 10030774

Sample Number: 006

Sample Date: 03/24/2010

Sample Time: N/A

Sample Description: Dup

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
NITRATE NITROGEN	0.058 I	MG/L	0.05	0.20	353.2	03/24/2010	17:13	RK
NITRATE+NITRITE AS N	0.059 I	MG/L	0.05	0.20	353.2	03/25/2010	12:00	AG
NITRITE NITROGEN	0.003 I	MG/L	0.003	0.012	SM4500NO2B	03/24/2010	17:13	RK

*R. Koutselas*

03/30/2010

Dale D. Dixon / Laboratory Director

Date

Radica Koutselas / QC Officer

Jennifer Jordan / QC Officer

#### DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the acceptable range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols.

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported.

N = Presumptive evidence of presence of material.

O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.

! = Data deviate from historically established concentration ranges.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

\* = Not reported due to interference.

#### NOTES:

PQL = 4xMDL

MBAS calculated as LAS; molecular weight = 348.

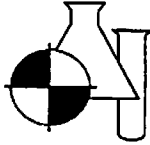
X = Value exceed MCL

#### NOTES:

For questions and comments regarding these results, please contact Bettinga Bellfuss at (941) 723-9986

*Results relate only to the samples.*





# BENCHMARK

EnviroAnalytical, Inc.

FDHRS Certification #E84167 and #84455  
FDER Quality Assurance #870594G

**Pace Analytical Services, Inc.**  
8 East Tower Circle  
Ormond Beach, FL 32174

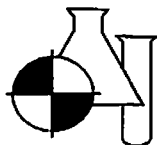
**Project: Quality Control Data - 10030774**

**Accuracy Data:**

		Sample +						
Parameter	ID	Date	QC Type	Sample Conc.	Spike Conc.	True Value	% Rec.	
NITRATE+NITRITE AS N		03/25/10	STD	1.040		1.00	104.00	
NITRATE+NITRITE AS N		03/25/10	STD	1.040		1.00	104.00	
NITRATE+NITRITE AS N		03/25/10	STD	1.030		1.00	103.00	
NITRATE+NITRITE AS N		03/25/10	STD	10.20		10.00	102.00	
NITRATE+NITRITE AS N		03/25/10	STD	1.040		1.00	104.00	
NITRATE+NITRITE AS N		03/25/10	STD	10.10		10.00	101.00	
NITRATE+NITRITE AS N		03/25/10	STD	10.20		10.00	102.00	
NITRATE+NITRITE AS N		03/25/10	STD	9.660		10.00	96.60	
NITRATE+NITRITE AS N		03/25/10	STD	1.030		1.00	103.00	
NITRATE+NITRITE AS N		03/25/10	STD	0.216		0.20	108.00	
NITRATE+NITRITE AS N		03/25/10	STD	5.170		5.00	103.00	
NITRATE+NITRITE AS N		03/25/10	STD	1.030		1.00	103.00	
NITRATE+NITRITE AS N		03/25/10	STD	1.040		1.00	104.00	
NITRATE+NITRITE AS N		03/25/10	STD	5.080		5.00	102.00	
NITRATE+NITRITE AS N	10030713	2	03/25/10	SPK	0.668	10.40	10.00	97.00
NITRATE+NITRITE AS N	10030728	1	03/24/10	SPK	0.005	0.210	0.20	103.00
NITRATE+NITRITE AS N	10030764	2	03/25/10	SPK	0.098	9.620	10.00	95.30
NITRATE+NITRITE AS N	10030774	6	03/25/10	SPK	0.059	9.720	10.00	96.60
NITRATE+NITRITE AS N	10030784	2	03/25/10	SPK	0.214	9.780	10.00	95.70
NITRATE+NITRITE AS N	10030805	8	03/25/10	SPK	0.520	10.20	10.00	97.00
NITRATE+NITRITE AS N	10030821	1	03/25/10	SPK	1.920	11.60	10.00	97.10
NITRATE+NITRITE AS N	10030850	3	03/25/10	SPK	1.450	11.00	10.00	95.30
NITRATE+NITRITE AS N	10030854	2	03/25/10	SPK	0.242	9.860	10.00	96.20
NITRATE+NITRITE AS N	10030873	1	03/25/10	SPK	0.843	10.40	10.00	95.10
NITRITE NITROGEN		03/24/10	STD	0.199		0.20	99.50	
NITRITE NITROGEN		03/24/10	STD	0.201		0.20	100.60	
NITRITE NITROGEN	10030783	1	03/24/10	SPK	0.002	0.190	0.20	94.20

*Handwritten signature*



**BENCHMARK****EnviroAnalytical, Inc.**FDHRS Certification #E84167  
FDER Quality Assurance #870594G**Pace Analytical Services, Inc.**8 East Tower Circle  
Ormond Beach, FL 32174**Project: Quality Control Data - 10030774**Precision Data:

Parameter	ID		Date	Sample A Conc.	Sample B Conc.	% RSD
NITRATE+NITRITE AS N	10030713	1	3/25/2010	1.820	1.810	0.55
NITRATE+NITRITE AS N	10030763	2	3/25/2010	6.410	6.430	0.25
NITRATE+NITRITE AS N	10030783	2	3/25/2010	0.454	0.456	0.31
NITRATE+NITRITE AS N	10030805	9	3/25/2010	0.538	0.531	0.93
NITRATE+NITRITE AS N	10030820	2	3/25/2010	2.110	2.110	0.23
NITRATE+NITRITE AS N	10030854	1	3/25/2010	0.249	0.245	1.15
NITRATE+NITRITE AS N	10030873	2	3/25/2010	0.718	0.715	0.30
NITRATE+NITRITE AS N	10030883	1	3/25/2010	0.183	0.189	2.28
NITRITE NITROGEN	10030783	1	3/24/2010	0.002	0.002	0.00



Elab, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386)672-5668 • FAX (386)673-4001

# CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

(INSTRUCTIONS ON BACK OF THIS FORM)

## FOR LAB USE ONLY

Temp. of Contents: \_\_\_\_\_ °C (or Received on Ice, ROI) Condition of Contents: \_\_\_\_\_

Condition of Seals: \_\_\_\_\_

## FOR LAB USE ONLY

Submission No. \_\_\_\_\_

1. Client: (Company or Individual)

Sarasota County Environmental Services

2. Report to: (if different from above)

Cesar Rodriguez

3. Client Project Name:

Central County Leachate

4. Client Project No.:

No.: 100543

6. Custody Seal No.:

7. Sampled By: Larry Cardinal

8. Shipping Method:

Address: 1301 Cattlemen Rd. Bldg E

Phone: (941) 650-9834

City Sarasota State FL Zip Code 34232

Fax: (941) 861-6665

Address:

Phone: ( )

City State Zip Code

Fax: ( )

Water Sample Codes (for Item 13)

DW = Drinking Water  
GW = Ground Water  
SW = Surface Water  
PW = Processed Water  
WW = Waste Water

Container Codes (for Item 16)

V = VOA vial  
G = glass  
P = plastic  
M = micro bag/cup  
O = other

14. 15. Preservatives

S DHZ OH

16. Containers

P P P

17.

18. Report Type:

X Routine

With QC

19. Turnaround Time:

X Standard

Rush: / /

Preservative Codes

(for Item 15)

C = Cool Only

H = Hydrochloric Acid

M = Monochloroacetic Acid

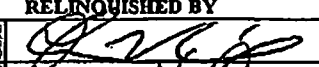
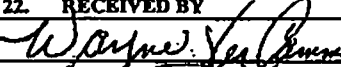


N = Nitric Acid

OH = Sodium Hydroxide

S = Sulfuric Acid

T = Sodium Thiosulfate

Item	9. Sample ID or No.	10. Sample Description	11. Date	11. Time	12. Comp	12. Grab	12. Water	12. (Codes)	13. Air	13. Soil	13. Sludge	13. Other	14. Total ammonia-N, Nitrate	15. Ca, Fe Mg, Hg, K, Na	16. Nitrite, Sulfate, TDS, Bicarb, Chloride, Carbonate	17.	20. REMARK
1	20580	CCLEA1	3.24.10	0950	X	le							AB	C	D,E,F		Benchmark
2	20581	CCLEA2	3.24.10	1140	X	le							AB	C	D,E,F		Nitrate, Nitrite
3	20582	CCLEA3	3.24.10	1205	X	le							AB	C	D,E,F		NOX
4	20583	CCLEA4	3.24.10	1225	X	le							AB	C	D,E,F		
5	20584	CCLEA5	3.24.10	1247	X	le							AB	C	D,E,F		
6		Dup	3.24.10		X	le							AB	C	D,E,F		
7																	

21. RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME	FOR LAB USE ONLY
	3.24.10	1340		3.24.10	1340	Sampling Fee: _____ Hrs.
	3.24.10	1410		3.24.10	1410	Equipment Rental Fee: _____
						Profile No. _____
						Quote No. _____

DISTRIBUTION: White with report; make copies as needed

Revised: 1/99

4069

10036774

1 NO2 NO3 NOX

2 -

3 -

4 -

5 -

6 -





## SARASOTA COUNTY

*"Dedicated to Quality Service"*

July 1, 2010

Dept. of Environmental Protection

Susan Pelz, P.E.  
Solid Waste Section  
Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

JUL 06 2010

Southwest District

Re: Central County Solid Waste Disposal Complex  
Permit Number 130542-007-SO/01  
Semi-Annual Leachate Sampling Report (January – June, 2010)

Dear Ms. Pelz:

Enclosed is the semi-annual Leachate Sampling Report submitted in accordance with Specific Condition Part E.9.a. and E.9.b. There are no exceedences to report.

A copy of the analytical data for the leachate sampling has been included with the semi-annual groundwater report and is also available on the site compact disk for the required July 2010 reporting deadline.

Please contact me if you have any questions at (941) 861-1589 or [lerose@scgov.net](mailto:lerose@scgov.net).

Sincerely,

Lois E. Rose  
Manager, Solid Waste

enc





# 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

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JUL 06 2010  
SOUTHWEST DISTRICT  
TAMPA

### PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex, Class I Landfill Operation

Address 4000 Knights Trail Road

City Nokomis Zip 34275 County Sarasota

Telephone Number (941) 861-1589

(2) WACS Facility ID 51614

(3) DEP Permit Number 130542-007-SO/01

(4) Authorized Representative's Name Lois Rose Title Manager, Solid Waste

Address 4000 Knights Trail Road

City Nokomis Zip 34275 County Sarasota

Telephone Number (941) 861-1589

Email address (if available) lerose@scgov.net

### 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.

July 1, 2010

(Date)

(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Sarasota County

Analytical Lab NELAC / HRS Certification # E83079, E84167

Lab Name PACE Benchmark EnviroAnalytical, Inc

Address 8 East Tower Circle, Ormond Beach, FL 32174 1711 12th Street East, Palmetto, FL 34221

Phone Number (386) 672-5668 941-723-9986

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

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

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
Jacksonville, FL 32256-7580  
904-807-3300

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

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

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

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



DEP-SOP-001/01  
FS 2200 Groundwater Sampling  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

FACILITY NAME: <b>Central County Solid Waste Disposal</b>	FACILITY LOCATION: <b>4000 Knights Trail Road</b>	
MONITORING_SITE_NUM: <b>Cell #1</b>	WACS_WELL: <b>20580</b>	DATE: <b>3.27-10</b>

[illegible]

SAMPLED BY (PRINT) / AFFILIATION: <b>Larry Cardinal / ES III</b>							SAMPLER(S) SIGNATURES: <i>[Signature]</i>	SAMPLING INITIATED AT: <b>0950</b>	SAMPLING ENDED AT: <b>1000</b>
PUMP OR TUBING DEPTH IN WELL (feet):							SAMPLE PUMP FLOW RATE (mL per minute): <b>I</b>	TUBING MATERIAL CODE: <b>PE</b>	
FIELD DECONTAMINATION:	<b>Y</b>	N XX	FILTERED:	<b>Y</b>	N XX	FILTER SIZE: _____ µm	Duplicate:	<b>Y</b>	N XX
<b>SAMPLE CONTAINER SPECIFICATION</b>							<b>SAMPLE PRESERVATION</b>		
SAMPLE ID CODE	# CO NTA INE RS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
<b>See Attached Chain of Custody</b>									
REMARKS :									
MATERIAL CODES:    AG = Amber Glass;   CG = Clear Glass;   PE = Polyethylene;   PP = Polypropylene;   S = Silicone;   T = Teflon;   O = Other (Specify)									
SAMPLING/PURGING APP = After Peristaltic Pump;   B = Bailor;   BP = Bladder Pump;   ESP = Electric Submersible Pump;   PP = Peristaltic Pump EQUIPMENT CODES: RFPF = Reverse Flow Peristaltic Pump;   SM = Straw Method (Tubing Gravity Drain);   VT = Vacuum Trap;   O = Other (Specify)									

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $+ 5$  NTU or  $+ 10\%$  (whichever is greater)

Revision Date: February 1, 2004



# GROUNDWATER MONITORING REPORT - PART D

Facility GMS:SWD/58/51614  
 Test Site ID: 20580  
 Well Name: Cell 1  
 Classification of Groundwater:  
 Ground Water Elevation: (NGVD):

Sample Date/Time: 3/24/2010 9:50  
 Report Period: 1st semi-annual  
 Well purged:  
 Well Type: Leachate

Storet Code	Parameter	Sampling Method	Samples Filtered (Y/N)	Analysis Method	Analysis Date	Analysis Results/	Q	Units	Detection Limits/
00400	pH (standard units) (field measurement)	N	N	EPA 150.1	3/24/2010	7.21		S.U.	0.01
00010	Temperature (° C) (Field)	N	N	Ysi Meter	3/24/2010	30.63		°C	0.1
00095	Specific Conductance (umhos/cm) (field)	N	N	EPA 120.1	3/24/2010	4232		umhos/cm	1
00299	Dissolved Oxygen (field)	N	N	EPA 360.1	3/24/2010	4.98		mg/l	0.01
82079	Turbidity (NTUs)(Field)	Grab	N	EPA 180.1	3/24/2010	61.2		NTU	0.1
00916	Calcium	Grab	N	SW6010	3/31/2010	229		mg/l	0.25
82079	Iron (Total)	Grab	N	SW6010	3/31/2010	2520		µg/l	20
00927	Magnesium	Grab	N	SW6010	3/31/2010	55		mg/l	0.25
00937	Potassium	Grab	N	SW6010	3/31/2010	224		mg/l	5
31616	Sodium	Grab	N	SW6010	3/31/2010	700		mg/l	5
71900	Mercury	Grab	N	SW7470	4/1/2010	0.10	U	µg/l	0.10
00610	Total Ammonia- N	Grab	N	EPA 350.1	3/29/2010	364		mg/l	0.80
00440	Bicarbonate alkalinity	Grab	N	SM2320	3/31/2010	2980		mg/l	25
00430	Carbonate alkalinity	Grab	N	SM2320	3/31/2010	25	U	mg/l	25
00940	Chlorides	Grab	N	EPA 300	4/5/2010	658		mg/l	1.1
00620	Nitrate (mg/l as N)	Grab	N	EPA 353.2	3/24/2010	0.05	U	mg/l	0.05
00945	Sulfate	Grab	N	EPA 300.0	4/5/2010	125	U	mg/l	125
70304	TDS (mg/l)	Grab	N	SM2540C	3/31/2010	3110		mg/l	50.0

Comments and explanations: U=undetected



DEP-SOP-001/01  
FS 2200 Groundwater Sampling  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

## PURGING DATA

## SAMPLING DATA

**See Attached Chain of Custody**

**2. STABILIZATION CRITERIA** FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $+0.2$  mg/L or  $+10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $+5$  NTU or  $+10\%$  (whichever is greater)



# GROUNDWATER MONITORING REPORT - PART D

Facility GMS:SWD/58/51614  
 Test Site ID: 20581  
 Well Name: Cell 2  
 Classification of Groundwater:  
 Ground Water Elevation: (NGVD):

Sample Date/Time: 3/24/2010 11:40  
 Report Period: 1st semi-annual  
 Well purged:  
 Well Type: Leachate

Storet Code	Parameter	Sampling Method	Samples Filtered (Y/N)	Analysis Method	Analysis Date	Analysis Results/	Q	Units	Detection Limits/
00400	pH (standard units) (field measurement)	N	N	EPA 150.1	3/24/2010	7.48		S.U.	0.01
00010	Temperature (° C) (Field)	N	N	Ysi Meter	3/24/2010	35.25		°C	0.1
00095	Specific Conductance (umhos/cm) (field)	N	N	EPA 120.1	3/24/2010	21013		umhos/cm	1
00299	Dissolved Oxygen (field)	N	N	EPA 360.1	3/24/2010	3.57		mg/l	0.01
82079	Turbidity (NTUs)(Field)	Grab	N	EPA 180.1	3/24/2010	56.1		NTU	0.1
00916	Calcium	Grab	N	SW6010	3/31/2010	169		mg/l	0.25
82079	Iron (Total)	Grab	N	SW6010	3/31/2010	5240		µg/l	20
00927	Magnesium	Grab	N	SW6010	3/31/2010	64.2		mg/l	0.25
00937	Potassium	Grab	N	SW6010	3/31/2010	694		mg/l	5
31616	Sodium	Grab	N	SW6010	3/31/2010	2130		mg/l	5
71900	Mercury	Grab	N	SW7470	4/1/2010	1.0	U	µg/l	1.0
00610	Total Ammonia- N	Grab	N	EPA 350.1	3/29/2010	1180		mg/l	2.0
00440	Bicarbonate alkalinity	Grab	N	SM2320	3/31/2010	7740		mg/l	25
00430	Carbonate alkalinity	Grab	N	SM2320	3/31/2010	50	U	mg/l	50
00940	Chlorides	Grab	N	EPA 300	4/5/2010	2620		mg/l	250.0
00620	Nitrate (mg/l as N)	Grab	N	EPA 353.2	3/24/2010	0.152		mg/l	0.05
00945	Sulfate	Grab	N	EPA 300.0	4/5/2010	250	U	mg/l	250
70304	TDS (mg/l)	Grab	N	SM2540C	3/31/2010	9530		mg/l	50.0

Comments and explanations:U=undetected



DEP-SOP-001/01  
FS 2200 Groundwater Sampling  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

## PURGING DATA

## SAMPLING DATA

**See Attached Chain of Custody**

**2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

Revision Date: February 1, 2004



# GROUNDWATER MONITORING REPORT - PART D

Facility GMS:SWD/58/51614  
 Test Site ID: 20582  
 Well Name: Cell 3  
 Classification of Groundwater:  
 Ground Water Elevation: (NGVD):

Sample Date/Time: 3/24/2010 12:05  
 Report Period: 1st semi-annual  
 Well purged:  
 Well Type: Leachate

Storet Code	Parameter	Sampling Method	Samples Filtered (Y/N)	Analysis Method	Analysis Date	Analysis Results/	Q	Units	Detection Limits/
00400	pH (standard units) (field measurement)	N	N	EPA 150.1	3/24/2010	7.65		S.U.	0.01
00010	Temperature (° C) (Field)	N	N	Ysi Meter	3/24/2010	39.68		°C	0.1
00095	Specific Conductance (umhos/cm) (field)	N	N	EPA 120.1	3/24/2010	13015		umhos/cm	1
00299	Dissolved Oxygen (field)	N	N	EPA 360.1	3/24/2010	4.14		mg/l	0.01
82079	Turbidity (NTUs)(Field)	Grab	N	EPA 180.1	3/24/2010	49.6		NTU	0.1
00916	Calcium	Grab	N	SW6010	3/31/2010	156		mg/l	0.25
82079	Iron (Total)	Grab	N	SW6010	3/31/2010	1990		µg/l	20
00927	Magnesium	Grab	N	SW6010	3/31/2010	79.7		mg/l	0.25
00937	Potassium	Grab	N	SW6010	3/31/2010	919		mg/l	5
31616	Sodium (µg/l)	Grab	N	SW6010	3/31/2010	1980		mg/l	5
71900	Mercury	Grab	N	SW7470	4/1/2010	0.10	U	µg/l	0.10
00610	Total Ammonia- N	Grab	N	EPA 350.1	3/29/2010	1060		mg/l	0.80
00440	Bicarbonate alkalinity	Grab	N	SM2320	3/31/2010	9160		mg/l	25
00430	Carbonate alkalinity	Grab	N	SM2320	3/31/2010	50	U	mg/l	25
00940	Chlorides	Grab	N	EPA 300	4/5/2010	2230		mg/l	1.1
00620	Nitrate (mg/l as N)	Grab	N	EPA 353.2	3/24/2010	0.074		mg/l	0.05
00945	Sulfate	Grab	N	EPA 300.0	4/5/2010	250	U	mg/l	250
70304	TDS (mg/l)	Grab	N	SM2540C	3/31/2010	7400		mg/l	50.0

Comments and explanations: U=undetected



## ATTACHMENT G


DEP-SOP-001/01  
FS 2200 Groundwater Sampling  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

FACILITY NAME: Central County Solid Waste Disposal		FACILITY LOCATION: 4000 Knights Trail Road	
MONITORING_SITE_NUM: Cell #4		WACS_WELL: 20583	DATE: 3.24.10

**PURGING DATA**

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= feet - feet X (500 ml) gallons/foot = X = 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) + (500 ml) gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:
				PURGING ENDED AT:
TOTAL VOLUME PURGED (gallons):				
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)
				pH (standard units)
				TEMP. (°C)
				COND. (µmhos/cm or µS/cm)
				DISSOLVED OXYGEN (circle mg/L or % saturation)
				TURBIDITY (NTUs)
				COLOR (describe)
				ODOR (describe)
1235				7.41
				36.8
				2580
				3.18
				57.7
				leachate
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.18; 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" = 0.008; 1/2" = 0.010; 5/8" = 0.018				

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Larry Cardinal / ES III		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: 1235
PUMP OR TUBING DEPTH IN WELL (feet):		SAMPLE PUMP FLOW RATE (mL per minute): 1		TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y N XX		FIELD-FILTERED: Y N XX		FILTER SIZE: _____ µm	DUPLICATE: Y N XX
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
See Attached Chain of Custody					
REMARKS:					
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)					
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)



# GROUNDWATER MONITORING REPORT - PART D

Facility GMS:SWD/58/51614  
 Test Site ID: 20583  
 Well Name: Cell 4  
 Classification of Groundwater:  
 Ground Water Elevation: (NGVD):

Sample Date/Time: 3/24/2010 12:25  
 Report Period: 1st semi-annual  
 Well purged:  
 Well Type: Leachate

Storet Code	Parameter	Sampling Method	Samples Filtered (Y/N)	Analysis Method	Analysis Date	Analysis Results/	Q	Units	Detection Limits/
00400	pH (standard units) (field measurement)	N	N	EPA 150.1	3/24/2010	7.41		S.U.	0.01
00010	Temperature (° C) (Field)	N	N	Ysi Meter	3/24/2010	36.87		°C	0.1
00095	Specific Conductance (umhos/cm) (field)	N	N	EPA 120.1	3/24/2010	20580		umhos/cm	1
00299	Dissolved Oxygen (field)	N	N	EPA 360.1	3/24/2010	3.18		mg/l	0.01
82079	Turbidity (NTUs)(Field)	Grab	N	EPA 180.1	3/24/2010	57.7		NTU	0.1
00916	Calcium	Grab	N	SW6010	3/31/2010	157		mg/l	0.25
82079	Iron (Total)	Grab	N	SW6010	3/31/2010	2130		µg/l	20
00927	Magnesium	Grab	N	SW6010	3/31/2010	66.6		mg/l	0.25
00937	Potassium	Grab	N	SW6010	3/31/2010	749		mg/l	5
31616	Sodium (µg/l)	Grab	N	SW6010	3/31/2010	1940		mg/l	5
71900	Mercury	Grab	N	SW7470	4/1/2010	0.10	U	µg/l	0.10
00610	Total Ammonia- N	Grab	N	EPA 350.1	3/29/2010	910		mg/l	2.00
00440	Bicarbonate alkalinity	Grab	N	SM2320	3/31/2010	7020		mg/l	50
00430	Carbonate alkalinity	Grab	N	SM2320	3/31/2010	50	U	mg/l	25
00940	Chlorides	Grab	N	EPA 300	4/5/2010	2110		mg/l	250.0
00620	Nitrate (mg/l as N)	Grab	N	EPA 353.2	3/24/2010	0.151		mg/l	0.05
00945	Sulfate	Grab	N	EPA 300.0	4/5/2010	250	U	mg/l	250
70304	TDS (mg/l)	Grab	N	SM2540C	3/31/2010	6550		mg/l	50.0

Comments and explanations: U=undetected



DEP-SOP-001/01  
FS 2200 Groundwater Sampling  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

[illegible]

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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $+0.2$  mg/L or  $+10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $+5$  NTU or  $+10\%$  (whichever is greater)



# GROUNDWATER MONITORING REPORT - PART D

Facility GMS:SWD/58/51614  
 Test Site ID: 20584  
 Well Name: Cell 5  
 Classification of Groundwater:  
 Ground Water Elevation: (NGVD):

Sample Date/Time: 3/24/2010 12:45  
 Report Period: 1st semi-annual  
 Well purged:  
 Well Type: Leachate

Storet Code	Parameter	Sampling Method	Samples Filtered (Y/N)	Analysis Method	Analysis Date	Analysis Results/	Q	Units	Detection Limits/
00400	pH (standard units) (field measurement)	N	N	EPA 150.1	3/24/2010	7.32		S.U.	0.01
00010	Temperature (° C) (Field)	N	N	Ysi Meter	3/24/2010	37.11		°C	0.1
00095	Specific Conductance (umhos/cm) (field)	N	N	EPA 120.1	3/24/2010	12311		umhos/cm	1
00299	Dissolved Oxygen (field)	N	N	EPA 360.1	3/24/2010	2.91		mg/l	0.01
82079	Turbidity (NTUs)(Field)	Grab	N	EPA 180.1	3/24/2010	38.6		NTU	0.1
00916	Calcium	Grab	N	SW6010	3/31/2010	231		mg/l	0.25
82079	Iron (Total)	Grab	N	SW6010	3/31/2010	1060		µg/l	20
00927	Magnesium	Grab	N	SW6010	3/31/2010	68		mg/l	0.25
00937	Potassium	Grab	N	SW6010	3/31/2010	383		mg/l	5
31616	Sodium	Grab	N	SW6010	3/31/2010	586		mg/l	5
71900	Mercury	Grab	N	SW7470	4/1/2010	0.10	U	µg/l	0.10
00610	Total Ammonia- N	Grab	N	EPA 350.1	3/29/2010	343		mg/l	0.80
00440	Bicarbonate alkalinity	Grab	N	SM2320	3/31/2010	2610		mg/l	25
00430	Carbonate alkalinity	Grab	N	SM2320	3/31/2010	25	U	mg/l	25
00940	Chlorides	Grab	N	EPA 300	4/5/2010	727		mg/l	1.1
00620	Nitrate (mg/l as N)	Grab	N	EPA 353.2	3/24/2010	0.12		mg/l	0.05
00945	Sulfate	Grab	N	EPA 300.0	4/5/2010	2.8	U	mg/l	125
70304	TDS (mg/l)	Grab	N	SM2540C	3/31/2010	4400		mg/l	50.0

Comments and explanations: U=undetected