

8050 Avalon Road  
Winter Garden, FL 34787  
Phone (407) 654-0060  
Fax (407) 654-0124

**545 LANDFILL**  
**Republic Services, Inc.**

PROUD RECIPIENT OF ORANGE COUNTY'S  
ENVIRONMENTAL EXCELLENCE AWARD

# Fax

To: Randall Cunningham From: Adam Selker  
Fax: 407-883-3124 Pages: 3 including cover  
Phone: \_\_\_\_\_ Date: 6/17/05  
Re: Spatter training certificates CCI: \_\_\_\_\_

Urgent  For Review  Please Comment  Please Confirm  Please Recycle

Dear Randall

Attached is Simon Ruiz's training certificate per your request.  
Robert Campos is an interim spatter. He will be taking the  
Spatters course in July. If you have any questions please  
feel free to call me.

Sincerely,

Adam Selker

Employee Name: Simon Ruiz

545 Landfill  
Training Log

Course & Location	Trained Operator Instructor	HRS. Attended	Signatures/Date
8 Hour Spotter Training for Class I,II,III Landfills, Waste Processing Facilities & C&D Sites	Chris Kohl	24	<i>A. Ruiz GM</i> July 14, 2002



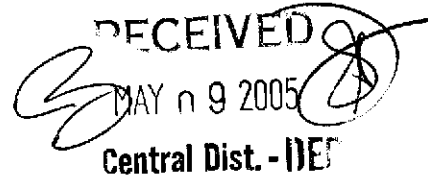
# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

May 6, 2005



Mr. Adam Selker  
General Manager  
CWI of Florida, Inc.  
8050 Avalon Road  
Winter Garden, Florida 34787

Re: WACS 00025291 – CWI of Florida, Inc. - 545 Landfill C&D

Dear Mr. Selker:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. Lexon Insurance Company bond rider, dated April 18, 2005, increasing the penal sum of performance bond number 1007323 to \$1,834,066.30, adequately covers the inflation adjusted closing and long-term care cost estimates of \$1,184,760.65 and \$649,305.65, respectively. Therefore, CWI of Florida, Inc. – 545 Landfill C&D is in compliance with the financial assurance requirements of 40 CFR Part 264, Subpart H, as adopted by reference in Rule 62-701.630, Florida Administrative Code, at this time.

If you have any questions, please contact me at (850) 245-8732.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

cc: Fred Wick, DEP/TLH  
James Bradner, DEP/ORL

Visit our Web Site: <http://www.dep.state.fl.us/waste/categories/swfr/>

*"More Protection. Less Process"*

Printed on recycled paper.

**Williams, Elizabeth**

---

**From:** Bradner, James  
**Sent:** Wednesday, April 20, 2005 9:34 AM  
**To:** 'Sam Levin'  
**Cc:** Depradine, Gloria; Cunningham, Randall; Williams, Elizabeth  
**Subject:** RE: Mixed Debris at 545 Landfill

Good morning, Sam:

I have no objection to the waste you have described being placed in the disposal cell at the 545 Landfill. You or Adam may call if you have questions or need further information.

Thanks,

Jim

James N. Bradner, P.E.  
Manager, Solid and Hazardous Waste Program  
Central District  
Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767  
407-893-3329 direct phone  
407-893-3167 fax  
407-894-7555 Central District switchboard  
325-3329 direct SunCom  
James.Bradner@floridadep.net

-----Original Message-----

**From:** Sam Levin [mailto:SLevin@S2Li.com]  
**Sent:** Wednesday, April 20, 2005 8:58 AM  
**To:** Bradner, James  
**Cc:** 'Mark Behel'  
**Subject:** Mixed Debris at 545 Landfill

Hi Jim.

At Republic's 545 C&D Landfill, there is a pile of mixed waste that includes land clearing debris, hurricane debris and yard waste. With a full understanding that the emergency orders are now history, and that at least a portion of the yard waste mixed in the pile was not generated by the hurricanes, Republic requests a one-time exemption to move this pile into the disposal cell. They have checked with Orange County, and have received an OK from Arnaldo.

Please let me know of the Department's position, and thanks for your help.

4/20/2005



2/28/05  
copy to  
Hornbrook  
B. J. W.

RECEIVED  
FEB 28 2005  
Central Dist. - DEP

February 25, 2005

Mr. James N. Bradner  
Manager Solid and Hazardous Waste Program  
Florida Department of Environmental Protection  
3319 Maguire Blvd., Suite 232  
Orlando, Florida 32803

Dear Mr. Bradner:

Enclosed please find the annual Financial Assurance Cost Estimate Forms for CWI of Florida, Inc. - 545 Landfill and for Rocket Blvd. MRF.

If you have any questions please feel free to contact me by phone 407-654-0060 or by email [selkera@repsrv.com](mailto:selkera@repsrv.com).

Sincerely,

Adam P. Selker  
General Manager

cc ; F. HORN BROOK



Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)  
Form Title Financial Assurance Cost Estimate Form  
Effective Date 05-27-01  
DEP Application No. \_\_\_\_\_  
(Filed by DEP)

**FINANCIAL ASSURANCE COST ESTIMATE FORM**

Date: 02/23/05 Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: CWI of Florida, Inc. - 545 Landfill WACS or GMSID #: 25291  
 Permit / Application No.: SO48-0138152-002 Expiration Date: 10/11/09  
 Facility Address: 8050 Avalon Road, Winter Garden, Florida 34787  
 Permittee: CWI of Florida, Inc.  
 Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 26 50 Longitude: 81 38 40 or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Cell 1	7	Complete	1.2
Cell 2	10.9	Complete	3.7
Cell 3	12.6	Complete	4.0
Cell 4	10.9	Complete	3.7
Cell 5	9.2	2002	2.9
Cell 6	8.1	2004	2.1

Total Landfill Acreage included in this estimate. 17.3 Closure 58.7 Long-Term Care

Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III  C&D Debris

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
 \_\_\_\_\_ Performance Bond\* \_\_\_\_\_ Escrow Account  
 \_\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

\*Indicates mechanisms that require use of a Standby Trust Fund Agreement

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 06/25/04

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		=	Inflation Adjusted Closure Cost Estimate:
\$1,167,251.87	X	1.02			\$1,184,760.65

This adjustment is based on the Department approved long-term care cost estimate dated: \_\_\_\_\_

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
\$127,942.00	X	1.02			\$129,861.13

Number of Years of Long Term Care Remaining: 5

Inflation Adjusted Long-Term Care Cost Estimate: 649,305.65

(b) Recalculate Estimates (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

Jennifer L. Deal, P.E.  
Name & Title (please type)

58592  
Florida Registration Number (affix seal) & Date

201 E. Pine St, Ste 1000, Orl, 32801  
Mailing Address

(407) 839-3955  
Telephone Number

Signature of Owner/Operator

Adam Selker, General Manager  
Name & Title (please type)

(407) 654-0060  
Telephone Number

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the engineer and Hartman & Associates, Inc. have no control.



RECEIVED  
NOV 29 2004  
Central Dist. - D.

November 18, 2004

Mr. Randall Cunningham  
Florida Department of Environmental Protection  
3319 Maquire Blvd. Suite 232  
Orlando, FL 32803-3767

Dear Mr. Cunningham:

On November 15, 2004 at approximately 6PM a small fire occurred at the Rocket Blvd MRF. The cause of the fire is from cutting recovered metal frame sections with a torch. The area was not inspected to be cool after the work was performed and debris beneath the work area ignited causing a fire to break out.

The fire department was called and responded promptly and extinguished the fire.

I have reviewed the incident with my employees. I will conduct additional training on cutting torch procedures, general safety guidelines, and fire prevention and protection.

As always I am available by phone at 407-654-0060 or by email at [selkera@repsrv.com](mailto:selkera@repsrv.com).

Sincerely,

Adam P. Selker  
General Manager

Cc: Scott McCallister - Director, Environmental Compliance





*Correspondence  
file*

*[Handwritten initials]*  
RECEIVED  
AUG 09 2004  
Central Dist. - DEP

FEDERAL EXPRESS  
8390 5050 3547

August 5, 2004

Mr. Jim Bradner  
Florida Department of Environmental Protection  
Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3367

Dear Mr. Bradner:

Mr. Randall Cunningham called me regarding activities to further minimize the risk of fire to the processed yard trash pile. There are a number of additional procedures that may be beneficial. First, we instruct all customers going to the yard trash area not to smoke. Second, we will periodically apply water to the processed yard trash. Third, we control the size of the processed yard trash by shipping the "mulch" and wood chips to the power plant to be used as alternative fuel. Although we receive unprocessed material continuously we transport processed material out as well. Finally, we will observe the processed yard trash for flame, smoke, or scorching and maintain ample supply of stockpiled soil for fire fighting purposes as a precaution.

As always feel free to contact me at the address shown below.


Sincerely,

Adam P. Selker  
Site Manager

Cc: Scott McCallister Director-Environmental Compliance Republic Services, Inc.  
Bruce E. "Buz" Hendricks-General Manager 545 Landfill



FEDERAL EXPRESS  
8390 5050 3282

  
RECEIVED  
JUL 28 2004  
Central Dist. - DEP

July 27, 2004

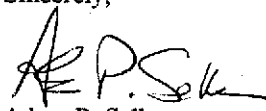
Ms. Vivian F. Garfein  
Director of District Management  
Florida Department of Environmental Protection  
Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3367

Dear Ms. Garfein:

Pursuant to Specific Condition No. 13 of 545 Landfill, Permit/Certification SO48-0138152-001 I am notifying the Department of a fire. On July 23, 2004 the 545 Landfill experienced a small fire in the mulch pile. The presumed cause is thought to be due to an air pocket and the naturally high temperature caused by anaerobic decomposition of the mulch. 545 personnel responded to the fire, which occurred during normal business hours. The hot area was removed with a Caterpillar 330 excavator and smothered with the Caterpillar D-8 Bull Dozer. As a precaution extinguished material was moved by dump truck to a clear area away from the mulch pile and all other potentially combustible material. Water was applied to the hot material and the area was observed during the day to assure that there would be no recurrence.

As always feel free to contact me at the address shown below.

Sincerely,

  
Adam P. Selker  
Site Manager

Cc: Scott McCallister Director-Environmental Compliance Republic Services, Inc.  
Bruce E. "Buz" Hendricks-General Manager 545 Landfill

## Williams, Elizabeth

---

**From:** Hart, Mark [hartm@repsrv.com]  
**Sent:** Thursday, July 01, 2004 4:04 PM  
**To:** Williams, Elizabeth  
**Subject:** RE: 545 C&D Landfill PCAP letter 0235

Ms Williams,  
We have received the correspondence referenced above.  
Respectfully Yours,  
Mark Hart  
General Manager  
545 Landfill  
Winter Garden, FL  
321-229-8282

-----Original Message-----

From: Williams, Elizabeth [mailto:Elizabeth.Williams@dep.state.fl.us]  
Sent: Thursday, July 01, 2004 9:41 AM  
To: Hart, Mark  
Cc: Laraway, Timothy; Helle, Deborah  
Subject: 545 C&D Landfill PCAP letter 0235

<<0235 545 PCAP.pdf>>

Adobe Acrobat Reader 5.0 can be downloaded for free at the following Internet site:  
<http://www.adobe.com/products/adobe/readstep.html>

It is imperative that you reply to this e-mail indicating that you received this document. It is important that we track this information.

Elizabeth Williams  
elizabeth.williams@dep.state.fl.us  
Administrative Secretary  
Waste Management  
Department of Environmental Protection  
Telephone 407/893-3328  
Suncom 325-3328  
FAX 407/893-3124



Jeb Bush  
Governor

# Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Colleen Castille  
Secretary

**VIA ELECTRONIC MAIL**  
[hartm@repsrv.com](mailto:hartm@repsrv.com)

July 1, 2004

Mr. Mark Hart  
Republic Services  
545 C&D Landfill  
8050 Avalon Road  
Winter Garden, FL 34787-9707

OCD-SW-04-0235

Orange County – SW  
545 C&D Landfill  
**Preliminary Assessment Plan Review**

The Department has reviewed referenced report received June 2, 2004. The Preliminary Assessment Plan is acceptable to assess the vinyl chloride at the landfill and should be implemented within 30 days of receipt of this letter. Please give the Department at least 10 days notice before conducting the sampling.

Reports of the assessment must be received within 60 days of implementation of each phase. Review of these reports will determine the need for further action at the site.

Please contact Deborah Helle, P.G., at (407) 893-3329 or by e-mail at [deborah.helle@dep.state.fl.us](mailto:deborah.helle@dep.state.fl.us), if you have any questions concerning this letter.

Sincerely,

James N. Bradner, P.E., Manager  
Solid and Hazardous Waste Program

JNB/dh

cc: Timothy Laraway, P.E., [timothy1@repsrv.com](mailto:timothy1@repsrv.com)

# GENERAL ENGINEERING & ENVIRONMENTAL, LLC

*Meeting Today's Needs with a Vision for Tomorrow*

April 30, 2004

Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

Mr. Arnaldo Mercado, Program Manager  
Orange County Environmental Protection Division  
Landfill Management  
800 Mercy Drive, Suite 4  
Orlando, Florida 32808

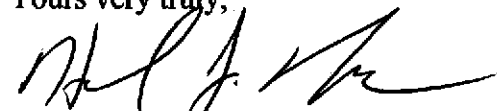
Re: 2004 First Semi-Annual Groundwater Monitoring Report  
545 C&D Landfill  
8050 Avalon Road  
Winter Garden, Florida  
FDEP Permit Number SO48-0138152-001  
Orange County Permit Number 91-F13-4620

Dear Messrs. Bradner and McDonald:

Enclosed is one copy each of the "2004 First Semi-Annual Groundwater Monitoring Report" for the referenced site. The activities performed during the semi-annual groundwater monitoring event were conducted in accordance with the requirements listed in the Florida Department of Environmental Protection solid waste permit number SO48-0138152-001 and Rule 62-701.510(9)(a), FAC.

We appreciate the opportunity to assist you with this project. If you have any questions or need additional information, please call me at (864) 676-2202, extension 203.

Yours very truly,



Howard J. Frank, P.G.  
Project Hydrogeologist

enclosures

cc: Mr. Tim Laraway, Republic Services  
Mr. Mark Hart, 545 Landfill

fc: rpbl00804c—ISA04 rpt.doc

a Member of  
**GEL** THE GEL GROUP, INC.

111 Smith Hines Road, Suite J • Greenville, SC 29607  
Phone (864) 676-2202 • Fax (864) 676-2209 • www.gel.com

3/1/04 copy  
F. Hornbrook

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants  
A Tetra Tech Company

**OFFICERS:**

Gerald C. Hartman, P.E., DEE  
Harold E. Schmidt, Jr., P.E., DEE  
James E. Christopher, P.E.  
Charles W. Drake, P.G.  
Mark A. Rynning, P.E., M.B.A.  
William D. Musser, P.E., P.H.  
Michael B. Bomar, P.E.  
Lawrence E. Jenkins, P.S.M.

**SENIOR ASSOCIATES:**

Marco H. Rocca, C.M.C.  
Roderick K. Cashe, P.E.  
Douglas P. Dufresne, P.G.  
Jon D. Fox, P.E.  
Troy E. Layton, P.E., DEE  
Daniel M. Nelson, P.E.

**ASSOCIATES:**

James E. Golden, P.G.  
Andrew T. Woodcock, P.E., M.B.A.  
John P. Toomey, P.E.  
Jennifer L. Woodall, P.E.  
L. Todd Shaw, P.E.  
Rafael A. Terrero, P.E., DEE  
Jill M. Hudkins, P.E.  
Valerie C. Davis, P.G.  
Charles M. Shultz, P.E.  
Sean M. Parks, AICP, QEP  
C. Michelle Gaylord  
Tara L. Hollis, C.P.A., M.B.A.  
W. Bruce Lafrenz, P.G.  
Alexis K. Stewart, P.E.  
Ada R. Terrero  
Christopher W. Hardin, P.E.  
James R. Warner, E.I.

RECEIVED  
MAR 01 2004  
Central Dist. - 5

## LETTER OF TRANSMITTAL

TO: Florida Dept. of Environmental Prot.  
3319 Maguire Boulevard, Suite 232  
Orlando, FL 32801

DATE: Mar. 1, 2004	JOB NO. 96.0271.022,12.0
ATTENTION: Mr. James N. Bradner, P.E.	
RE: 545 Landfill and Rocket Boulevard MRF	

WE ARE SENDING YOU  ATTACHED  UNDER SEPARATE COVER VIA  THE FOLLOWING ITEMS:

- Shop Drawings   
  Prints   
  Plans   
  Reports   
  Specifications  
 Copy of Letter   
  Change Order   
  Other \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1	3/1/04		Financial Assurance Annual Update, 545 Landfill
1	3/1/04		Financial Assurance Annual Update, Rocket Boulevard MRF

THESE ARE TRANSMITTED as checked below:

- For Approval   
  Other \_\_\_\_\_  
 For your use  
 As requested  
 For review and comment

REMARKS:	Jim, Enclosed are the annual financial assurance updates for the 545 Landfill and Rocket Boulevard MRF facilities. No substantial changes have been made to the operations of either facility, so inflation adjustments were made to the 2003 costs. Please call me if you have any questions.

COPY TO: File  
F. HORN BROOK

SIGNED:   
Name: Jennifer L. Deal, P.E.



Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 82-701.900(28)  
Form Title Financial Assurance Cost Estimate Form  
Effective Date 05-27-01  
DEP Application No. \_\_\_\_\_  
(Filled by DEP)

RECEIVED  
MAR 01 2004  
Central Dist. - DEP

**FINANCIAL ASSURANCE COST ESTIMATE FORM**

Date: 03/01/04 Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: 545 C&D Landfill WACS or GMSID #: 25291

Permit / Application No.: SO48-0138152-001 Expiration Date: 6/30/04

Facility Address: 8050 Avalon Road, Winter Garden, Florida 34787

Permittee: Republic Services of Florida, LP

Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 26 50 Longitude: 81 38 40 or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Cell 1	7	Complete	1.2
Cell 2	10.9	Complete	3.7
Cell 3	12.6	Complete	4.0
Cell 4	10.9	2001	3.7
Cell 5	9.2		2.9
Cell 6	8.1		2.1

Total Landfill Acreage included in this estimate. 7 Closure 7 Long-Term Care

Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III  C&D Debris

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
 \_\_\_\_\_ Performance Bond\* \_\_\_\_\_ Escrow Account  
 Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

\*Indicates mechanisms that require use of a Standby Trust Fund Agreement

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

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

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

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

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

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 02/25/03

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
\$577,600.52	X	1.01	=	\$583,376.53

This adjustment is based on the Department approved long-term care cost estimate dated: 02/25/03

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate:
\$85,492.70	X	1.01	=	\$86,347.63

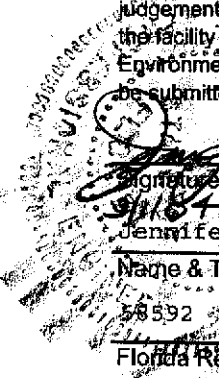
Number of Years of Long Term Care Remaining: 5

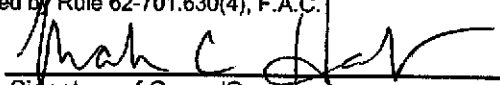
Inflation Adjusted Long-Term Care Cost Estimate: 431,738.14

(b) Recalculate Estimates (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

  
 \_\_\_\_\_  
 Signature of Engineer  
 Jennifer L. Deal, P.E.  
 Name & Title (please type)  
 58592  
 Florida Registration Number (affix seal) & Date

  
 \_\_\_\_\_  
 Signature of Owner/Operator  
 Mark Hart, General Manager  
 Name & Title (please type)  
 (407) 654-0060  
 Telephone Number

201 E. Pine St, Ste 1000, Orl, 32801  
 Mailing Address  
 (407) 839-3955  
 Telephone Number

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the engineer and Hartman & Associates, Inc. have no control.





Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)  
Form Title Financial Assurance Cost Estimate Form  
Effective Date 05-27-01  
DEP Application No. \_\_\_\_\_  
(Filled by DEP)

**FINANCIAL ASSURANCE COST ESTIMATE FORM**

Date: 03/01/04 Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: Rocket Boulevard Materials Recovery Facility WACS or GMSID #: 85225

Permit / Application No.: SO48-0131143-003 Expiration Date: 02/13/07

Facility Address: 11273 Rocket Boulevard, Orlando, Florida 32824

Permittee: Republic Services of Florida, LP

Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 24 18 Longitude: 81 23 23 or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate. \_\_\_\_\_ Closure \_\_\_\_\_ Long-Term Care \_\_\_\_\_

Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris \_\_\_\_\_

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

_____ Letter of Credit*	_____ Insurance Certificate	*Indicates mechanisms that require use of a Standby Trust Fund Agreement
_____ Performance Bond*	_____ Escrow Account	
<input checked="" type="checkbox"/> Guaranty Bond*	_____ Trust Fund Agreement	

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

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

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

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-8100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

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

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

**(a) Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 02/25/03

Latest Department Approved Closure Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Closure Cost Estimate:
<u>\$96,579.39</u>		<u>1.01</u>		<u>\$97,545.18</u>

This adjustment is based on the Department approved long-term care cost estimate dated: \_\_\_\_\_

Latest Department Approved Annual Long-Term Care Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____		<u>1.01</u>		<u>\$0.00</u>

Number of Years of Long Term Care Remaining: X

**Inflation Adjusted Long-Term Care Cost Estimate:** = 0.00

**(b) Recalculate Estimates** (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Jennifer L. Deal  
Signature of Engineer

Jennifer L. Deal, P.E.  
Name & Title (please type)

54592  
Florida Registration Number (affix seal) & Date

201 E. Pine St, Ste 1000, Orl, 32801  
Mailing Address

(407) 839-3955  
Telephone Number

(407) 839-3955  
Telephone Number

Mark Hart  
Signature of Owner/Operator

Mark Hart, General Manager  
Name & Title (please type)

(407) 654-0060  
Telephone Number

(407) 654-0060  
Telephone Number

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the engineer and Hartman & Associates, Inc. have no control.



# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400

David B. Scruhs  
Secretary

September 12, 2003

Mr. Mark Hart  
Landfill Manager  
CWI of Florida, Inc.  
8050 Avalon Road  
Winter Garden, Florida 34787

Re: WACS 00025412 – CWI of Florida, Inc. - 545 Landfill C&D

Dear Mr. Hart:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. Travelers Casualty and Surety Company of America bond rider, dated July 1, 2003, increasing the penal sum of performance bond number 103857708 to \$1,005,064.01, adequately covers the inflation adjusted closing and long-term care cost estimates of \$577,600.52 and \$427,463.49, respectively. Therefore, CWI of Florida, Inc. – 545 Landfill C&D is in compliance with the financial assurance requirements of 40 CFR Part 264, Subpart H, as adopted by reference in Rule 62-701.630, Florida Administrative Code, at this time.

If you have any questions, please contact me at (850) 245-8732.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

cc: Fred Wick, DEP/TLH  
James Bradner, DEP/ORL

RECEIVED

SEP 16 2003

Central Dist. - DC

**Depradine, Gloria**

**From:** Hornbrook, Frank  
**Sent:** Tuesday, July 08, 2003 11:30 AM  
**To:** Depradine, Gloria  
**Subject:** FW: FDEP - Permittee name change and financial assurance up-date information

Gloria,

My last communication with the (3) Republic Services Facilities that are not in financial compliance.

Frank

-----Original Message-----

**From:** Hornbrook, Frank  
**Sent:** Friday, June 20, 2003 2:07 PM  
**To:** 'hartm@repsrvsouth.com'  
**Cc:** Cheryan, George; Qureshi, Saadia; Bradner, James; Wick, Fred  
**Subject:** FDEP - Permittee name change and financial assurance up-date information

Mr. Hart,

Here is the information you have requested from our telephone conversation. For your request for a permittee name change for the facility named CWI OF FLORIDA, INC. - 545 LANDFILL. The current permittee is CWI OF FLORIDA, INC. To change the permittee name you will need to fill out form 62-701.900(8) Permit Transfer Form. This may be printed from our website listed below (Financial Assurance Forms.) If this is a simple permittee name change without changes in ownership as defined in the form, you need only complete Part I and Part III along with sending corrected financial assurance documents to me at the address below. If this involves a transfer of permit or ownership, you will need to complete sections Part I and Part IV along with financial documentation to me. If you are not sure, please contact our Central District Offices at (407) 893-3328. If you wish to also change the facility name, clearly include that in Part III or Part IV to Please change facility name to: and Please change permittee (The company name of legal entity) to:

For ROCKET BOULEVARD MATERIALS RECOVERY FACILITY I have the current permittee as REPUBLIC SERVICES OF FLORIDA, LP. I believe you had said this was what you want and will not make any changes to this facility. If you do, you will use the same form as above.

For current financial assurance. Updated financial was due as of May 1, 2003 the needed update amounts for your facilities are as follows:

**CWI OF FLORIDA, INC. - 545 LANDFILL -**

2003 needed Closing financial assurance: \$577,600.52

2003 needed Long-Term Care financial assurance: \$427,463.49

Total needed: \$1,005,064.01 - your current bond on file is for: \$985,356.86

**ROCKET BOULEVARD MATERIALS RECOVERY FACILITY**

2003 needed Closing financial assurance: \$96,579.39

Facility does not need Long-Term Care. Your current bond is for: \$94,685.68

**REPUBLIC SERVICES OF FLORIDA, LP - MRF FACILITY (APOPKA)**

2003 needed Closing financial assurance: \$181,466.57

Facility does not need Long-Term Care. Your current bond is for: \$177,908.40

Your bonding company contact I have listed is Sarabeth Scott or Willis Corporation @ (800) 568-1200 or (864) 282-2680

Her E-mail is: sarabeth.scott@willis.com

If I may be of further assistance, feel free to contact me.

Thank You,

Frank Hornbrook

Solid Waste Financial Coordinator

Florida Department Of Environmental Protection

2600 Blair Stone Rd. MS 4565

Tallahassee, Florida 32399-2400

e-mail: Frank.Hornbrook@dep.state.fl.us

Ph: Office (850) 245-8745 Main (850) 245-8732 Fax: (850) 245-8811

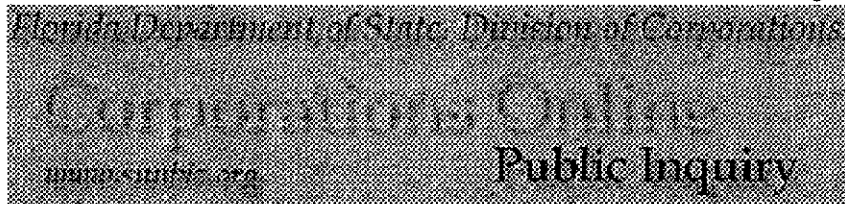
Financial Assurance Website

<www.dep.state.fl.us/waste/categories/swfr/>

Financial Assurance Forms / Cost Estimate Forms / Permit Forms / Change Forms

<http://www.dep.state.fl.us/waste/quick\_topics/forms/pages/62-701.htm>

*Orange Co  
CWI-545 landfall file*



**Florida Profit**

**CWI OF FLORIDA, INC.**

**PRINCIPAL ADDRESS**

110 S.E. 6TH ST.  
28TH FL  
FT. LAUDERDALE FL 33301  
Changed 02/25/1999

**MAILING ADDRESS**

110 S.E. 6TH ST.  
28TH FL  
FT. LAUDERDALE FL 33301  
Changed 02/25/1999

**Document Number**  
P96000072885

**FEI Number**  
593405500

**Date Filed**  
08/26/1996

**State**  
FL

**Status**  
ACTIVE

**Effective Date**  
NONE

**Registered Agent**

Name & Address
C T CORPORATION SYSTEM 1200 SOUTH PINE ISLAND ROAD PLANTATION FL 33324
Name Changed: 01/31/1997
Address Changed: 01/31/1997

**Officer/Director Detail**

Name & Address	Title
HUDSON, HARRIS W 110 SE 6TH ST, 28TH FL FT LAUDERDALE FL 33301	D
O'CONNOR, JAMES E 110 SE 6TH ST, 28TH FL	P

FORT LAUDERDALE FL 33301	
BARCLAY, DAVID A 110 SE 6TH ST, 28TH FL FORT LAUDERDALE FL 33301	S
LANG, EDWARD A III 110 SE 6TH ST, 28TH FL FORT LAUDERDALE FL 33301	T

### Annual Reports

Report Year	Filed Date
2001	01/30/2001
2002	03/20/2002
2003	02/28/2003

[Previous Filing](#)

[Return to List](#)

[Next Filing](#)

No Events  
No Name History Information

### Document Images

Listed below are the images available for this filing.

<a href="#">02/28/2003 -- COR - ANN REP/UNIFORM BUS REP</a>
<a href="#">03/20/2002 -- COR - ANN REP/UNIFORM BUS REP</a>
<a href="#">01/30/2001 -- ANN REP/UNIFORM BUS REP</a>
<a href="#">03/29/2000 -- ANN REP/UNIFORM BUS REP</a>
<a href="#">02/25/1999 -- ANNUAL REPORT</a>
<a href="#">03/30/1998 -- ANNUAL REPORT</a>
<a href="#">01/30/1997 -- ANNUAL REPORT</a>

**THIS IS NOT OFFICIAL RECORD; SEE DOCUMENTS IF QUESTION OR CONFLICT**

[Corporations Inquiry](#)

[Corporations Help](#)

# B99000000467

CORPORATION(S) NAME

Florida Republic Contracts, Inc.

merging into:

Republic Services of Florida, Limited Partnership

FILED  
01 OCT - 8 PM 4: 21  
STATE DEPT OF STATE  
TALLAHASSEE, FLORIDA

CURAPMER

MARK

- Profit
- Nonprofit
- Foreign
- Limited Partnership
- LLC
- Certified Copy
- Call When Ready
- Walk In
- Mail Out
- Amendment
- Dissolution/Withdrawal
- Reinstatement
- Annual Report
- Name Registration
- Fictitious Name
- Photocopies
- Call If Problem
- Will Wait
- Merger
- Mark
- Other
- Change of RA
- UCC
- CUS
- After 4:30
- Pick Up

Effective 10-8-01

*Justin*

Name \_\_\_\_\_  
 Availability CCP  
 Document \_\_\_\_\_  
 Examiner \_\_\_\_\_  
 Updater D  
 Verifier \_\_\_\_\_  
 W.P. Verifier \_\_\_\_\_

10/8/01

Order#: 4833056

Ref#: \_\_\_\_\_

Amount: \$ \_\_\_\_\_

RECEIVED  
01 OCT - 8 PM 2: 12  
DIVISION OF CORPORATION

CF - 17.50

660 East Jefferson Street  
 Tallahassee, FL 32301  
 Tel. 850 222 1092  
 Fax 850 222 7615

400004627214--8  
 -10/08/01--01065--025  
 \*\*\*\*\*70.00 \*\*\*\*\*70.00

400004627214--8  
 -10/10/01--01002--021  
 \*\*\*\*\*17.50 \*\*\*\*\*17.50



FILED  
01 OCT - 8 PM 4: 21  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

ARTICLES OF MERGER  
Merger Sheet

-----  
MERGING:

FLORIDA REPUBLIC CONTRACTS, INC. (P00000009070), a Florida corp.

into

REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP, a Delaware  
entity B99000000467

File date: October 8, 2001

Corporate Specialist: Buck Kohr

01 OCT -8 PM 4:21  
FILED  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

## ARTICLES OF MERGER

The following articles of merger are being submitted in accordance with section(s) 607.1109, 608.4380 and/or 620.203, Florida Statutes.

**FIRST:** The exact name, street address of its principal office, jurisdiction, and entity type for each merging party are as follows:

<u>Name and Street Address</u>	<u>Jurisdiction</u>	<u>Entity Type</u>
1. Florida Republic Contracts, Inc. 110 S.E. 6th Street, 28th Floor Fort Lauderdale, FL 33301	Florida	Corporation
Florida Document/Registration Number: P00000009070		FEI Number: 65-1024352
2.		
Florida Document/Registration Number:		FEI Number:
3.		
Florida Document/Registration Number:		FEI Number:
4.		
Florida Document/Registration Number:		FEI Number:

*(Attach additional sheet(s) if necessary)*

CR2E080(10/99)

01 OCT -8 PM 4 21  
FILED  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

**SECOND:** The exact name, street address of its principal office, jurisdiction, and entity type of the surviving party are as follows:

<u>Name and Street Address</u>	<u>Jurisdiction</u>	<u>Entity Type</u>
Republic Services of Florida, Limited Partnership 110 S.E. 6th Street 28th Floor Fort Lauderdale, FL 33301	Delaware	Limited Partnership

Florida Document/Registration Number: B9900000467      FEI Number: 65-0965470

**THIRD:** The attached Plan of Merger meets the requirements of section(s) 607.1108, 608.438, 617.1103, and/or 620.201, Florida Statutes, and was approved by each domestic corporation, limited liability company, partnership and/or limited partnership that is a party to the merger in accordance with Chapter(s) 607, 617, 608, and/or 620, Florida Statutes.

**FOURTH:** If applicable, the attached Plan of Merger was approved by the other business entity(ies) that is/are party(ies) to the merger in accordance with the respective laws of all applicable jurisdictions.

**FIFTH:** If not incorporated, organized, or otherwise formed under the laws of the state of Florida, the surviving entity hereby appoints the Florida Secretary of State as its agent for substitute service of process pursuant to Chapter 48, Florida Statutes, in any proceeding to enforce any obligation or rights of any dissenting shareholders, partners, and/or members of each domestic corporation, partnership, limited partnership and/or limited liability company that is a party to the merger.

**SIXTH:** If not incorporated, organized, or otherwise formed under the laws of the state of Florida, the surviving entity agrees to pay the dissenting shareholders, partners, and/or members of each domestic corporation, partnership, limited partnership and/or limited liability company that is a party to the merger the amount, if any, to which they are entitled under section(s) 607.1302, 620.205, and/or 608.4384, Florida Statutes.

**SEVENTH:** If applicable, the surviving entity has obtained the written consent of each shareholder, member or person that as a result of the merger is now a general partner of the surviving entity pursuant to section(s) 607.1108(5), 608.4381(2), and/or 620.202(2), Florida Statutes.

**EIGHTH:** The merger is permitted under the respective laws of all applicable jurisdictions and is not prohibited by the agreement of any partnership or limited partnership or the regulations or articles of organization of any limited liability company that is a party to the merger.

FILED  
01 OCT -8 PM 4:21  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

**NINTH:** The merger shall become effective as of:

The date the Articles of Merger are filed with Florida Department of State

**OR**

      
w/a

(Enter specific date. NOTE: Date cannot be prior to the date of filing.)

**TENTH:** The Articles of Merger comply and were executed in accordance with the laws of each party's applicable jurisdiction.

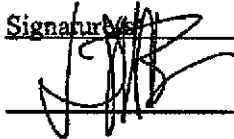
**ELEVENTH: SIGNATURE(S) FOR EACH PARTY:**

*(Note: Please see instructions for required signatures.)*

**Name of Entity**

Florida Republic Contracts, Inc.

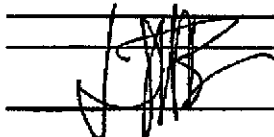
**Signature**



**Typed or Printed Name of Individual**

David A. Barclay, VP/Sect.

Republic Services of Florida,  
Limited Partnership



David A. Barclay, VP/Sect. of it's general  
partner

Republic Services of Florida GP, Inc.

*(Attach additional sheet(s) if necessary)*

EXHIBIT A  
FILED  
OCT -8 PM 4:21  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

## PLAN OF MERGER

This Plan of Merger (this "Plan") is adopted as of October 8, 2001, among Florida Republic Contracts, Inc., a Florida corporation (the "Merging Entity"), and Republic Services of Florida, Limited Partnership, a Delaware limited partnership (the "Survivor").

## RECITALS

The boards of directors and shareholder of the Merging Entity and the partners of the Survivor have determined that it is advisable and in the best interests of each shareholder and the partners that the Merging Entity be merged (the "Merger") with and into Republic Services of Florida, Limited Partnership on the terms and subject to the conditions set forth herein.

## ARTICLE I

### THE MERGER

At the Effective Time (as defined in Article V hereof), the Merging Entity shall be merged with and into the Survivor in accordance with the Florida Business Corporation Act (the "Act"), and the separate existence of the Merging Entity shall cease and the Survivor shall thereafter continue as the surviving limited partnership under the laws of the State of Florida.

## ARTICLE II

### THE SURVIVING LIMITED PARTNERSHIP

A. At the Effective Time, the Certificate of Limited Partnership of the Survivor, as in effect immediately prior to the Effective Time, shall be the Certificate of Limited Partnership of the Surviving Limited Partnership.

B. At the Effective Time, the Limited Partnership Agreement of the Survivor, as in effect immediately prior to the Effective Time, shall be the Limited Partnership Agreement of the Surviving Limited Partnership, until thereafter altered, amended or repealed.

C. At the Effective Time, the officers and directors of the partners of the Survivor shall be the officers and directors of the partners of the Surviving Limited Partnership until their successors are elected and have qualified.

D. At the Effective Time, the name and address of the registered agent of the Survivor shall be CT Corporation System, 1200 S. Pine Island Road, Plantation, Florida

FILED  
OCT -8 PM 4:21  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

**ARTICLE III**

**MANNER AND BASIS OF CONVERTING SHARES**

At the Effective Time, each share of common stock of each of the Merging Entity, which shall be issued and outstanding, shall be automatically canceled and extinguished without any conversion thereof.

**ARTICLE IV**

**EFFECT OF MERGER**

At the Effective Time, all property, subsidiaries, rights, privileges, powers and franchises of the Merging Entity shall vest in the Survivor, and all liabilities and obligations of the Merging Entity shall become liabilities and obligations of the Survivor, including, the payment of all fees and franchise taxes.

**ARTICLE V**

**EFFECTIVE TIME**

As used in this Agreement, the term "Effective Time" shall mean October 8, 2001, not the date and time of filing of Articles of Merger with the Secretary of State of the State of Florida with respect to the Merger.

[END OF DOCUMENT]

## Williams, Elizabeth

---

**From:** Bradner, James  
**Sent:** Tuesday, July 29, 2003 8:56 AM  
**To:** 'Hart, Mark'; Tim Townsend (E-mail); Jim McDonald (E-mail)  
**Cc:** Clinker, Mark; McCallister, Scott; 'Arnaldo.mercado@oclf.net'; Williams, Elizabeth; Lubozynski, Tom; Martin, Lee  
**Subject:** Proposed Disposal of Concrete Slurry

Good morning, Mark:

This will respond to your inquiry about disposal of concrete slurry at the Republic Services 545 Landfill (FDEP Permit # SO48-0138152-001). The concrete slurry would be acceptable for disposal under the following conditions:

- The concrete slurry must be non-hazardous, based upon the results of a waste determination on a representative sample.

- You state that the concrete slurry will contain free liquids. The slurry may be dewatered by placing it on pervious, upland non-waste fill areas where water will percolate in the ground. There must be no contact between the water leaving the concrete slurry and waste that has been placed for storage or disposal. There must be no discharge to surface waters either directly, or through conveyance swales, ditches, or any other stormwater management (conveyance or treatment) system. The land application area must be at least 100 feet from the perimeter of surface waters and any well (e.g. drinking water, irrigation or monitoring wells).

- Before disposal in the waste fill area, the concrete slurry must be tested to determine whether it is liquid waste, which is defined as follows: Rule 62-701.200(72), Florida Administrative Code: "Liquid waste" means any waste material that is determined to contain free liquids as defined by Method 9095 (Paint Filter Liquids Test), as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA Pub. No. SW-846).

Please send a brief reply to acknowledge receipt of this message. You may contact me by electronic mail or at 407-893-3329 if you have questions or need further information.

Thanks,

Jim Bradner

Orange County SW  
CR 545 JB

**Bradner, James**

**From:** Hart, Mark [hartm@repsrvsouth.com]  
**Sent:** Tuesday, July 29, 2003 9:08 AM  
**To:** Bradner, James  
**Subject:** RE: Proposed Disposal of Concrete Slurry

Good Morning Jim,  
Thank you for your timely response. We will review the management practices stipulated herein and be in touch if we have any additional questions.  
Best Regards,  
Mark Hart

-----Original Message-----

**From:** Bradner, James [mailto:James.Bradner@dep.state.fl.us]  
**Sent:** Tuesday, July 29, 2003 8:56 AM  
**To:** Hart, Mark; Tim Townsend (E-mail); Jim McDonald (E-mail)  
**Cc:** Clinker, Mark; McCallister, Scott; Arnaldo.mercado@oclf.net; Williams, Elizabeth; Lubozynski, Tom; Martin, Lee  
**Subject:** Proposed Disposal of Concrete Slurry

Good morning, Mark:

This will respond to your inquiry about disposal of concrete slurry at the Republic Services 545 Landfill (FDEP Permit # S048-0138152-001). The concrete slurry would be acceptable for disposal under the following conditions:

- The concrete slurry must be non-hazardous, based upon the results of a waste determination on a representative sample.
- You state that the concrete slurry will contain free liquids. The slurry may be dewatered by placing it on pervious, upland non-waste fill areas where water will percolate in the ground. There must be no contact between the water leaving the concrete slurry and waste that has been placed for storage or disposal. There must be no discharge to surface waters either directly, or through conveyance swales, ditches, or any other stormwater management (conveyance or treatment) system. The land application area must be at least 100 feet from the perimeter of surface waters and any well (e.g. drinking water, irrigation or monitoring wells).
- Before disposal in the waste fill area, the concrete slurry must be tested to determine whether it is liquid waste, which is defined as follows: Rule 62-701.200(72), Florida Administrative Code: "Liquid waste" means any waste material that is determined to contain free liquids as defined by Method 9095 (Paint Filter Liquids Test), as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA Pub. No. SW-846).

Please send a brief reply to acknowledge receipt of this message. You may contact me by electronic mail or at 407-893-3329 if you have questions or need further information.

Thanks,

Jim Bradner



**Bradner, James**

---

**From:** Bradner, James  
**Sent:** Tuesday, July 29, 2003 8:56 AM  
**To:** 'Hart, Mark'; Tim Townsend (E-mail); Jim McDonald (E-mail)  
**Cc:** Clinker, Mark; McCallister, Scott; 'Arnaldo.mercado@oclf.net'; Williams, Elizabeth; Lubozynski, Tom; Martin, Lee  
**Subject:** Proposed Disposal of Concrete Slurry

Good morning, Mark:

This will respond to your inquiry about disposal of concrete slurry at the Republic Services 545 Landfill (FDEP Permit # SO48-0138152-001). The concrete slurry would be acceptable for disposal under the following conditions:

- The concrete slurry must be non-hazardous, based upon the results of a waste determination on a representative sample.
- You state that the concrete slurry will contain free liquids. The slurry may be dewatered by placing it on pervious, upland non-waste fill areas where water will percolate in the ground. There must be no contact between the water leaving the concrete slurry and waste that has been placed for storage or disposal. There must be no discharge to surface waters either directly, or through conveyance swales, ditches, or any other stormwater management (conveyance or treatment) system. The land application area must be at least 100 feet from the perimeter of surface waters and any well (e.g. drinking water, irrigation or monitoring wells).
- Before disposal in the waste fill area, the concrete slurry must be tested to determine whether it is liquid waste, which is defined as follows: Rule 62-701.200(72), Florida Administrative Code: "Liquid waste" means any waste material that is determined to contain free liquids as defined by Method 9095 (Paint Filter Liquids Test), as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA Pub. No. SW-846).

Please send a brief reply to acknowledge receipt of this message. You may contact me by electronic mail or at 407-893-3329 if you have questions or need further information.

Thanks,

Jim Bradner

**Republic Services of Florida, LLP  
8050 Avalon Rd.  
Winter Garden, FL**

July 28, 2003

Mr. Jim Bradner  
Florida Department of Environmental Protection  
Maguire Blvd  
Orlando FL

Re: Concrete Slurry Waste  
545 Landfill  
FDEP Permit # SO 48-0138152-001

Dear Mr. Bradner,

As we discussed last week, we wish to explore the possibility of accepting a concrete slurry material for disposal at 545 Landfill. This material will contain free liquids. We believe that if this slurry material is properly managed, it will reduce H<sub>2</sub>S odors, which are caused by the decomposition of gypsum wallboard. We propose to apply the slurry waste material at the working face and at the toe of the slope of the covered areas near the working face. Although we continue to actively extract and recycle gypsum wallboard material from the landfill, we are not able to extract all of the wallboard waste that is delivered here feasibly. And as you are aware, we only recently began extracting this material from the waste deposited at the landfill. Mr. Harold Griesbach of Gilbert Southern Corporation requested that we accept approximately 35 loads of the slurry material, 5,000 gallons each. At the delivery rate of 2-3 loads per day we do not believe this material will substantially increase leachate production at the landfill. Mr. Griesbach provided us with substantial documentation of analysis of this material, which can be found at the following website: <http://www.igga.net>. If you have any difficulty accessing the information please let me know and I will send you a paper copy. You may also contact Mr. Griesbach at 770-527-2713.

Please advise us of your decision.

Respectfully Submitted,

Mark Hart  
General Manager

Cc: Dr. Timothy Townsend, UF

8050 Avalon Road  
Winter Garden, FL 34787  
Phone (407) 654-0060  
Fax (407) 654-0124



# Fax

<b>To:</b> Susan Boroff	<b>From:</b> Mark Hart
<b>Fax:</b> 850-245-8803	<b>Pages:</b> 6
<b>Phone:</b> 850-245-8718	<b>Date:</b> 6/20/03
<b>Re:</b> Annual reports	<b>CC:</b> Saadia Qureshi

Urgent     For Review     Please Comment     Please Reply     Please Recycle

These were mailed to you on or about the 22<sup>nd</sup> of March, but apparently were lost in transit. Sorry for the inconvenience,

Mark Hart



# Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.910 (7)
Form Title: _____
Effective Date: <u>03-27-01</u>
DEP Application No. _____

1. Name of Facility: 545 Landfill AKA CMI of Florida, Inc.
2. Company Name: 545 Landfill, division of Republic Services of FL, LLP
3. Physical Address: 8050 Avalon Rd
4. Mailing Address: Winter Garden
5. County Location: Orange
6. Debris County of Origin: RCTD  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: hartm@repsrvsouth.com

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<b>PAPER</b>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<b>PLASTIC</b>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<b>METALS</b>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <b>254</b> Subtotal Metals: _____
<b>TEXTILES</b>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<b>ALL OTHER MATERIALS</b>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <b>607</b> <b>1163</b> <b>5984</b> Subtotal Other: _____

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 8,005  
 10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 40,964

Mark Hart  
 Signature (authorized Representative)  
MARK HART  
 Print Name

GM  
 Title

3/22/03  
 Date

NOTE: Use one of these forms for each county from which the facility received materials



# Annual Report for a Construction and Demolition Debris Facility

DEP Form # 62-701.900 (2)  
 Form Title: \_\_\_\_\_  
 Effective Date: 05-27-01  
 DEP Application No: \_\_\_\_\_

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

1. Name of Facility: 545 Landfill AKA CWI of Florida, Inc.
2. Company Name: 545 Landfill, division of Republic Services of FL, LLP
3. Physical Address: 8050 Avalon Rd
4. Mailing Address: Winter Garden
5. County Location: Orange
6. Debris County of Origin: LAKE  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: hartm@repersouth.com

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<b>PAPER</b>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<b>PLASTIC</b>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<b>METALS</b>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>51</u> Subtotal Metals: _____
<b>TEXTILES</b>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<b>ALL OTHER MATERIALS</b>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>123</u> <u>235</u> <u>3209</u> Subtotal Other: _____

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 1678  
 10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 8483  
 Signature (authorized Representative): Mark C Hart Title: GM  
 Date: 3/22/03

Print Name: Mark C Hart

NOTE: Use one of these forms for each county from which the facility received materials



# Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (2)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No: _____

- Name of Facility: 545 Landfill AKA CWT of Florida, Inc.
- Company Name: 545 Landfill, division of Republic Services of FL, LLP
- Physical Address: 8050 Avalon Rd
- Mailing Address: Winter Garden
- County Location: Orange
- Debris County of Origin: POLK  
(or statement that county of origin is unknown)
- Company Contact: Mark Hart  
(the individual responsible for this information)
- Phone Number: (407) 654-0060 E-Mail: hartm@reparvssouth.com

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>131</u> _____ Subtotal Metals: _____
<u>TEXTILES</u>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>314</u> <u>601</u> <u>3093</u> _____ _____ Subtotal Other: _____

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 4139

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 21696

Signature (authorized Representative): Mark C. Hart Title: GM Date: 3/22/03

Print Name: MARK C. HART

NOTE: Use one of these forms for each county from which the facility received materials



# Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (2)  
 Form Title: \_\_\_\_\_  
 Effective Date: 05-27-01  
 DEP Application No. \_\_\_\_\_

1. Name of Facility: 545 Landfill AKA CWI of Florida, Inc.
2. Company Name: 545 Landfill, division of Republic Services of FL, LLP
3. Physical Address: 8050 Avalon Rd
4. Mailing Address: Winter Garden
5. County Location: Orange
6. Debris County of Origin: OSCEOLA  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: hartm@repsrvsouth.com

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<b>PAPER</b>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<b>PLASTIC</b>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<b>METALS</b>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>523</u> _____ Subtotal Metals: _____
<b>TEXTILES</b>	Miscellaneous/carpets	_____ Subtotal Textiles: _____
<b>ALL OTHER MATERIALS</b>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	<u>1247</u> <u>2392</u> <u>12,299</u> _____ _____ Subtotal Other: _____

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 16,461

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 86,286

Mark C. Hart GM 3/22/03  
 Signature (authorized Representative) Title Date

MARK C. HART  
 Print Name

NOTE: Use one of these forms for each county from which the facility received materials



## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
(due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (7)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No: _____

1. Name of Facility: 545 Landfill AKA CWI of Florida, Inc.
2. Company Name: 545 Landfill, division of Republic Services of FL, LLP
3. Physical Address: 8050 Avalon Rd
4. Mailing Address: Winter Garden
5. County Location: Orange
6. Debris County of Origin: ORANGE  
(or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
(the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: hartm@repsrvsouth.com

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<b>PAPER</b>	Old Corrugated Containers (OCC) Other Paper _____ _____ _____ Subtotal Paper: _____	_____ _____ _____ _____
<b>PLASTIC</b>	Plastic containers/buckets All Other Plastic _____ _____ _____ Subtotal Plastic: _____	_____ _____ _____ _____
<b>METALS</b>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.) _____ _____ Steel Other Ferrous _____ _____ Subtotal Metals: <u>1287</u>	_____ _____ _____ _____ _____
<b>TEXTILES</b>	Miscellaneous/carpet _____ _____ Subtotal Textiles: _____	_____ _____ _____
<b>ALL OTHER MATERIALS</b>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing _____ _____ _____ _____ _____ _____ Subtotal Other: _____	_____ _____ <u>3070</u> <u>5887</u> <u>30271</u> _____ _____

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 40,514

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 212,365

Signature (authorized representative): Mark Hart Title: General Manager Date: 3/22/03

Print Name: MARK HART

**NOTE: Use one of these forms for each county from which the facility received materials**





# Department of Environmental Protection

Jeb Bush  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

David B. Struhs  
Secretary

OCD-SW-03-0091

Mark Hart  
Continental Waste Industries, Inc.  
8050 Avalon Road  
Winter Garden, FL 32787

Orange County - SW  
Continental Waste Industries, Inc. C&D Disposal Facility  
Groundwater Resampling

Dear Mr. Hart:

This letter is in regards to your recent biennial report submittal for the above-mentioned facility. Based on our review, the proposed sampling for MW-3 is acceptable and should be implemented.

If you have any questions, feel free to contact Deborah Helle at (407) 893-3328.

Sincerely,

Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Solid Waste Section

Date 3/19/03

GD/sq  
Enclosure

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

OFFICERS:

Gerald C. Hartman, P.E., DEE  
Harold E. Schmidt, Jr., P.E., DEE  
James E. Christopher, P.E.  
Charles W. Drake, P.G.  
Mark A. Rynning, P.E., M.B.A.  
Michael B. Bomar, P.E.  
William D. Musser, P.E.  
Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C.  
Roderick K. Cashe, P.E.

ASSOCIATES:

Douglas P. Dufresne, P.G.  
Jon D. Fox, P.E.  
James E. Golden, P.G.  
Troy E. Layton, P.E.  
Andrew T. Woodcock, P.E., M.B.A.  
Grant C. Malchow, M.B.A.  
John P. Toomey, P.E.  
Mark A. Gabriel, P.E.  
George S. Flint, M.P.A.  
Jennifer L. Woodall, P.E.  
L. Todd Shaw, P.E.  
Rafael A. Ferrero, P.E., DEE  
Jill A. Hudkins, P.E.  
Daniel M. Nelson, P.E.  
Valerie C. Davis, P.G.  
Brian S. Fields, P.E.

February 14, 2003

HAI #96.0271.008  
Phase 5  
File 14.4

Via Hand-Delivery

Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Groundwater Resampling  
545 C&D Landfill  
Orange County, Florida  
FDEP #SO48-0138152-001  
OCEPD #91-F13-4620**

RECEIVED  
FEB 17 2003  
Central Dist. - 1001

Dear Mr. Bradner:

On behalf of 545 C&D Landfill, Hartman & Associates, Inc. (HAI) is providing groundwater resampling results for monitor well MW-3. This monitor well was resampled on January 22, 2003 due to the initial detection of benzene at a concentration of 1.8 micrograms per liter (ug/L). However, a duplicate analysis at MW-3 by EPA Method 502.2 did not detect benzene above the method detection limit (MDL) of 0.5 ug/L. The resample result also detected benzene at a level of 1.8 ppb. A copy of the laboratory analytical results and field logs are attached for your review.

It is HAI's understanding that the FDEP Central District does not recognize an exceedance unless the result is a full number above the maximum contaminant level. Therefore, since the resampling results at MW-3 not exceed the benzene 1.0 ug/L MCL, evaluation (assessment) monitoring pursuant to FAC 62-510(7) is not warranted. However, 545 Landfill proposes to sample this well quarterly for benzene (EPA Method 8021) and indicator parameters (chlorides, nitrates, sulfate, iron, manganese, ammonia) for a period of four quarters to best evaluate the trend. The next sampling for this well would occur in April 2003.

We have also attached a copy of the remaining analytical results for gross alpha. No exceedances were noted in the report.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com


ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN


Mr. James N. Bradner  
February 14, 2003  
Page 2

We trust this proposal will satisfy the monitoring requirements for the facility at this time. Please call us if you have any questions or would like to discuss this issue further.

Very truly yours,

**Hartman & Associates, Inc.**

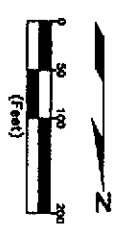
  
Jennifer L. Deal, P.E.  
Project Engineer

  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

**Attachments**

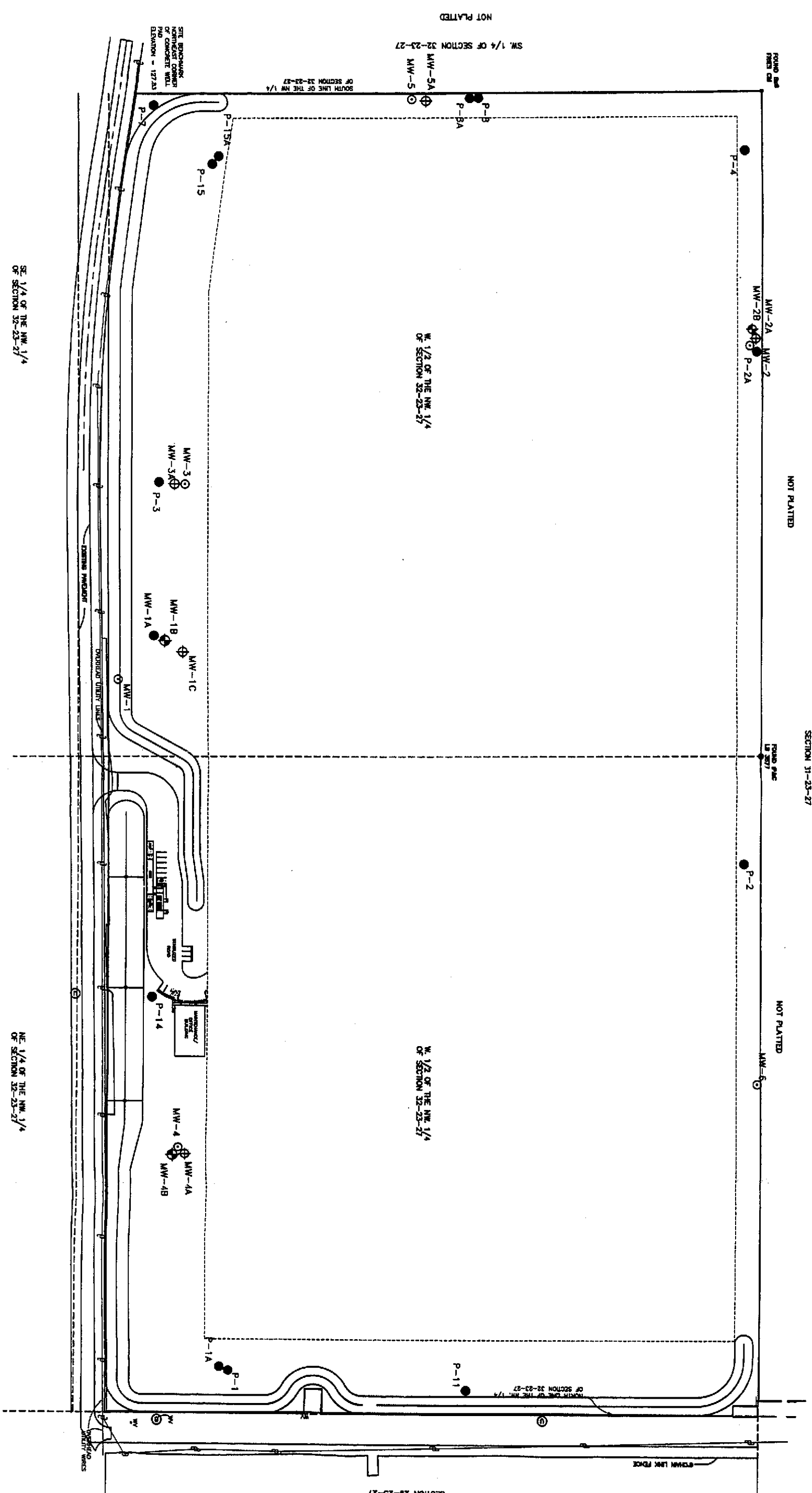
cc: Mark Hart, 545 Landfill  
Tim Laraway, Republic

JLD/jeg/jes/96-0271.08/corresp/gw resmple



RECEIVED  
FEB 17 2003  
Central Dist. - DEP

- LEGEND**
- MW-1 SURFICIAL MONITOR WELL
  - MW-1B FLORIDAN MONITOR WELL
  - MW-2A INTERMEDIATE MONITOR WELL
  - P-2 PIEZOMETER



**HARTMAN & ASSOCIATES, INC.**  
 engineers, hydrogeologists, surveyors & management consultants  
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801  
 TELEPHONE (407) 838-5858 - FAX (407) 838-5700

**MONITOR WELL/PIEZOMETER LOCATION MAP**  
 545 LANDFILL  
 ORANGE COUNTY, FLORIDA

**FIGURE 1**

HARTMAN & ASSOCIATES

FIELD LOG

HAI# 96.0271.008-3

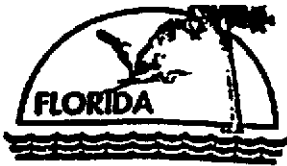
NAME: WJB

PROJECT NAME: 545 Land fill

DATE: 1/22/03

PROJECT LOCATION:

TIME	COMMENTS
0910	Arrived on site, checked in at scale house, proceeded to M61-3 location to resample for benzene and cis-1,2-dichloroethene. Will decon pump using Aleanox in distilled water and lab grade alkalal will determine purge volume, perform equipment blank by pumping Decon water through pump and new poly tubing into vials.
0930	Calibrated field meter (See Calibration log sheets) Installed pump and new poly tubing into well, began purge and positioned pump in well according to SOP procedure. (See Water Sampling Log)
1000	Completed Equipment blank, placed on ice.
1005	Began purging well @ ~2 gpm until it goes dry Purged ~ 50 gals then determined pump level based on water level stabilizer and began measuring for <del>purge</del> well volumes. D.O. reading in negative numbers. checked and recalibrated and rechecked. Meter functioning properly. (See Water Sampling log and Calibration log) inserted D.O. probe into sample of distilled water and got reading of 5.13 mg/L
1315	Total volume purged: ~ 100 gals. Left site after truck trouble



# HARTMAN & ASSOCIATES, INC

engineers, hydrogeologists, surveyors, & management consultants

201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801  
 TELEPHONE (407) 839-3955 - FAX (407) 839-3780

## Water Sampling Log

HAI# 96.0271.008-3

SAMPLE ID MW-3

DATE 1/22/03

SITE NAME/LOCATION 543 Land All

WELL# MW-3

### PURGE DATA

WELL DIAMETER (in): <u>2"</u>	TOTAL WELL DEPTH (ft): <u>68.30</u>	DEPTH TO WATER (ft): <u>51.83</u>	WELL CAPACITY (gal/ft): <u>16.47</u>	SCREEN LENGTH: <u>?</u>				
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY $= (68.30 - 51.83) \times 16.47$			1 VOLUME = <u>2.63</u>					
			5 VOLUMES = <u>13.17</u>					
PURGE METHOD: <u>SS submersible</u>		DRAWDOWN STABILIZATION: (ft. BTOC) <u>51.9</u>						
BEGIN PURGE: <u>1018</u>	END PURGE:	PURGE RATE (gpm): <u>.5</u>	TOTAL VOLUME PURGED (gals.) <u>~60.0</u>					
WATER LEVEL (ft. BTOC)	VOLUME PURGED (gals.)	pH	TEMP. (°C)	COND. (µs/cm)	TURBIDITY (NTU)	D.O. (mg/L)	ODOR	COLOR
51.9	15.0	6.31	27.3	0.94	8	—	Sulfur?	clear
* 51.9	18.5	6.26	27.7	0.95	7	*	"	"
51.9	21.0	6.26	27.8	0.94	8	-3.74	"	"
51.9	23.5	6.25	27.9	0.94	8	-3.80	"	"
+ 51.9	26.0	6.24	27.8	0.94	7	-3.74	"	"
51.9	42.5	6.26	27.8	0.93	7	-3.60	"	"
51.9	60.0	6.22	27.6	0.91	6	-3.74	"	"

### SAMPLING DATA

SAMPLED BY: <u>WJB/NAJ</u>	SAMPLER(S) SIGNATURE(S): <u>Bill Bank</u>					
SAMPLING METHOD(S): <u>SS sub pump / Poly tubing</u>	SAMPLING INITIATED AT: <u>1220</u>					
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N	FIELD-FILTERED: <input checked="" type="checkbox"/> Y					
SAMPLE CONTAINER SPECIFICATIONS	DUPPLICATE: <input checked="" type="checkbox"/> Y					
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD
2	CG	40ml	HCL	None	-	8260

### REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)  
 Well Capacity = 1" = .04gal/ft; 1.25" = .06 gal/ft; 2" = .16 gal/ft; 4" = .65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft;  
 Equipment Volumes = Tubing Volume x Length + Pump Volume + Flow Cell Volume; ID: 1/4" = .002; 3/8" = .005; 1/2" = .01

Comments: Began measuring for purge volume @ ~1018, pump was installed at ~55.0' BTOC, W.L. stabilized @ 51.9' BTOC  
 \* due to negative reading, D.O. was recalibrated (see calibration sheet)  
 † rechecked D.O. calibration (see calibration sheet) Installed probe in syringe of distilled water, got reading of +5.13 mg/L, reinstalled into well sample and reading dropped back into negative readings.



**HARTMAN & ASSOCIATES, INC**  
 engineers, hydrogeologists, surveyors, & management consultants  
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801  
 TELEPHONE (407) 839-3955 - FAX (407) 839-3780

**Water Sampling Log**

HAI# 96.0271.008-3

SAMPLE ID EQB

DATE 1/22/03

SITE NAME/LOCATION 545 LF

WELL # EQB

**PURGE DATA**

WELL DIAMETER (in):		TOTAL WELL DEPTH (ft):	DEPTH TO WATER (ft):	WELL CAPACITY (gal/ft):	SCREEN LENGTH:			
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY				1 VOLUME =				
				5 VOLUMES =				
PURGE METHOD:			DRAWDOWN STABILIZATION: (ft. BTOC)					
BEGIN PURGE:		END PURGE:	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gals.)				
WATER LEVEL (ft. BTOC)	VOLUME PURGED (gals.)	pH	TEMP. (°C)	COND. (mc/cm)	TURBIDITY (NTU)	D.O. (mg/L)	ODOR	COLOR

**SAMPLING DATA**

SAMPLED BY / AFFILIATION: <u>WJB/HAE</u>		SAMPLER(S) SIGNATURE(S): <u>Bill B...</u>				
SAMPLING METHOD(S): <u>SS sub pump / New poly tubing</u>		SAMPLING INITIATED AT:	SAMPLING ENDED AT: <u>1000</u>			
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N	FIELD-FILTERED: <input checked="" type="checkbox"/> Y	DUPLICATE: <input checked="" type="checkbox"/> Y				
SAMPLE CONTAINER SPECIFICATIONS		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH
<u>2</u>	<u>CG</u>	<u>40ml</u>	<u>HCL</u>	<u>None</u>	<u>-</u>	<u>8260</u>

**REMARKS:**

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)  
 Well Capacity = 1" = .04gal/ft; 1.25" = .06 gal/ft; 2" = .16 gal/ft; 4" = .65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft;  
 Equipment Volumes = Tubing Volume x Length + Pump Volume + Flow Cell Volume; ID: 1/4"=.002; 3/8"=.005; 1/2"=.01

Comments: Purged DE water through pump and tubing into vials

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Horiba U-10 INSTRUMENT # 1

PARAMETER: [check only one]

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A \_\_\_\_\_  
 Standard B \_\_\_\_\_  
 Standard C \_\_\_\_\_

DATE (MM/DD)	TIME (H:MM)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES/NO)	TYPE (INT/CONT)	SAMPLER INITIALS
11/22/03	0930		4.0	3.99		Y-N	I	WJB
"	1120		4.0	4.01			End	WJB



**Field Instrument Calibration Records**

INSTRUMENT (MAKE/MODEL#) Horiba U-10 INSTRUMENT # 1

PARAMETER: [check only one]

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A \_\_\_\_\_

Standard B \_\_\_\_\_

Standard C \_\_\_\_\_

DATE (MM/DD/YY)	TIME (HH:MM)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	DEV	CALIBRATED (YES/NO)	TYPE (INT/CONT)	SAVPIER INITIALS
1/22/03	0930		4.49	4.48		YES	I	WSB
1.	1120		4.49	4.52			EWL	WSB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Horiba U-10 INSTRUMENT # 1

PARAMETER: *[check only one]*

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A \_\_\_\_\_

Standard B \_\_\_\_\_

Standard C \_\_\_\_\_

DATE (w/m/d)	TIME (mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	%DEV	CALIBRATED (YES, NO)	TYPE (LINE, CONT)	SAMPLER INITIALS
1/22/03	0930		0.0	0.0		YES	I	WJB
..	0930		0.0	0.0			ENV	WJB

**Field Instrument Calibration Records**

INSTRUMENT (MAKE/MODEL#) Horiba U-10 INSTRUMENT # 1

PARAMETER: [check only one]

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A \_\_\_\_\_

Standard B \_\_\_\_\_

Standard C TEMP

DATE (mm/dd)	TIME (mm)	STD (TEMP)	STD VALUE	INSTRUMENT RESPONSE	DEV	CALIBRATED (YES/NO)	TYPE (INT/EXT)	SAMPLER INITIALS
1/22/03	0930	29.0°C	9.26	10.44		yes	T	WJS
"	1100	22.7°	8.57	8.61		yes	Re-Cal	WJS
"	1115	26.0	8.11	7.95		yes	check	WJS

JLD -

Environmental Conservation Laboratories, Inc.  
10207 General Drive  
Orlando, Florida 32824-8529  
407 / 826-5314  
Fax 407 / 850-6945  
www.encolabs.com



DHRS Certification No. E83182

CLIENT : Hartman & Assoc., Inc.  
ADDRESS: 201 E. Pine St.  
Suite 1000  
Orlando, FL 32801

REPORT # : ORL25242  
DATE SUBMITTED: January 22, 2003  
DATE REPORTED : January 27, 2003

PAGE 1 OF 7

ATTENTION: Jim Golden

**SAMPLE IDENTIFICATION**

Samples submitted and  
identified by client as:

REFERENCE: 96.0271.008-3

545 Landfill

01/22/03

- #1 - MW-3 @ 12:20
- #2 - EQUIPMENT BLANK @ 10:00

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. This data has been produced in accordance with NELAC Standards (July, 1999). This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

PROJECT MANAGER

Marcia C. Colon

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 2 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	2.0 U	ug/L
Chloromethane	1.0 U	1.0 U	ug/L
Vinyl Chloride	1.0 U	1.0 U	ug/L
Bromomethane	2.0 U	2.0 U	ug/L
Chloroethane	2.0 U	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	1.0 U	ug/L
Methylene Chloride	5.0 U	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	1.0 U	ug/L
c-1,2-Dichloroethene	1.3	1.0 U	ug/L
Chloroform	1.0 U	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	1.0 U	ug/L
Trichloroethene	1.0 U	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	1.0 U	ug/L
Bromodichloromethane	1.0 U	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	1.0 U	ug/L
Tetrachloroethene	3.0 U	3.0 U	ug/L
Dibromochloromethane	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Bromoform	1.0 U	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L

<u>Surrogate:</u>	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	52-167
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 3 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
 VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	1.0 U	ug/L
Benzene	1.8	1.0 U	ug/L
Toluene	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Ethylbenzene	1.0 U	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	2.0 U	ug/L
o-Xylene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L

Surrogate:

	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	65-129
Dibromofluoromethane	97	107	65-129
D8-Toluene	95	105	65-129
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 4 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	ug/L
Chloromethane	1.0 U	ug/L
Vinyl Chloride	1.0 U	ug/L
Bromomethane	2.0 U	ug/L
Chloroethane	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	ug/L
Methylene Chloride	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	ug/L
c-1,2-Dichloroethene	1.0 U	ug/L
Chloroform	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	ug/L
Trichloroethene	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	ug/L
Bromodichloromethane	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	ug/L
Tetrachloroethene	3.0 U	ug/L
Dibromochloromethane	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Bromoform	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L

Surrogate:

Bromofluorobenzene  
 Date Analyzed

% RECOV

92

01/25/03 18:00

LIMITS

52-167

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 5 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	ug/L
Benzene	1.0 U	ug/L
Toluene	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Ethylbenzene	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	ug/L
o-Xylene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L

Surrogate:

	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	92	65-129
Dibromofluoromethane	98	65-129
D8-Toluene	90	65-129
Date Analyzed	01/25/03 18:00	

U = Compound was analyzed for but not detected to the level shown.



**ENCO LABORATORIES**

**REPORT #** : ORL25242  
**DATE REPORTED:** January 27, 2003  
**REFERENCE** : 96.0271.008-3  
**PROJECT NAME** : 545 Landfill

**PAGE 6 OF 7**

**LABORATORY CERTIFICATIONS**

Laboratory Certification: FDEP:960038 NELAC:E83182

All analyses reported with this project were analyzed by the facility indicated unless identified below.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 7 OF 7

QUALITY CONTROL DATA

<u>Parameter</u>	<u>% RECOVERY MS/MSD/LCS</u>	<u>ACCEPT LIMITS</u>	<u>% RPD MS/MSD</u>	<u>ACCEPT LIMITS</u>
<u>EPA Method 8260</u>				
1,1-Dichloroethene	91/ 83/ 92	36-185	9	34
Benzene	110/106/111	65-143	4	25
Trichloroethene	99/ 97/107	51-152	2	28
Toluene	102/110/116	62-144	8	24
Chlorobenzene	98/ 90/105	64-140	8	23

< = Less Than  
MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
LCS = Laboratory Control Standard  
RPD = Relative Percent Difference



**ENVIRONMENTAL CONSERVATION LABORATORIES**

OSARF # 19789

4810 Executive Park Court, Suite 211  
 Jacksonville, Florida 32216-6069  
 Ph. (904) 296-3007 • Fax (904) 296-6210  
 ENCO CompCAP No.: 960038G/0

10207 General Drive  
 Orlando, Florida 32824-8529  
 Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way  
 Cary, North Carolina 27513  
 Ph. (919) 677-1669 • Fax (919) 677-9846

**CHAIN OF CUSTODY RECORD**

PROJECT REFERENCE <b>545 Langfill (Resample)</b>		PROJECT NO. <b>96.0211.008-3</b>		P.O. NUMBER	
PROJECT LOC. <b>FL</b>		SAMPLER(S) NAME <b>Bill Bangle</b>		PHONE <b>407-839-3955</b>	
CLIENT NAME <b>Hartman &amp; Assoc. Inc.</b>		CLIENT PROJECT MANAGER <b>Tim Golden</b>		FAX <b>-2065</b>	
CLIENT ADDRESS (CITY, STATE, ZIP) <b>201 E. Pine St. Suite 1000 Orlando, FL 32801</b>					
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION
<b>MW-3</b>	<b>1/22/03</b>	<b>1220</b>	<b>X</b>		<b>MW-3</b>
<b>EOB</b>	<b>"</b>	<b>1000</b>	<b>X</b>		<b>Equipment Black</b>
<input type="checkbox"/> SURFACE WATER <input type="checkbox"/> GROUND WATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> SOIL/SOLID/SEDIMENT <input type="checkbox"/> NONAQUEOUS LIQUID (oil, solvent, etc.) <input type="checkbox"/> AIR <input type="checkbox"/> SLUDGE <input checked="" type="checkbox"/> OTHER <b>8210 Benzene Dis-1, 2-dichloro ethane</b>					
PRESERVATIVE					
REMARKS <b>DI Water</b>					
<input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge) <input checked="" type="checkbox"/> STANDARD REPORT DELIVERY					
Date Due: <b>before 1/29/03</b>					
SAMPLE KIT PREPARED BY: <b>ORLANDO</b>		DATE <b>1/23/03</b>		TIME <b>11:45</b>	
RELIQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE <b>1/23/03</b>		TIME <b>11:45</b>	
RELIQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE <b>1/23/03</b>		TIME <b>11:45</b>	
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		DATE <b>1/23/03</b>		TIME <b>0915</b>	
RECEIVED FOR LABORATORY BY: (SIGNATURE) <b>Skinsky</b>		DATE <b>1/22/03</b>		TIME <b>1410</b>	
CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		ENDO LOG NO. <b>DR125242</b>		REMARKS	

JLS

Environmental Conservation Laboratories, Inc.  
10207 General Drive  
Orlando, Florida 32824-8529  
407 / 826-5314  
Fax 407 / 850-6945  
www.encolabs.com



DHRS Certification No. E83182

CLIENT : Hartman & Assoc., Inc.  
ADDRESS: 201 E. Pine St.  
Suite 1000  
Orlando, FL 32801

REPORT # : ORL24953  
DATE SUBMITTED: December 27, 2002  
DATE REPORTED : January 9, 2003

ATTENTION: Jim Golden

**SAMPLE IDENTIFICATION**

Samples submitted and  
identified by client as:

REFERENCE: 96.0271.008

545 LANDFILL

12/26/02

#1 - MW-3A @ 15:30  
#2 - MW-5 @ 11:30  
#3 - MW-5A @ 12:47  
#4 - MW-6A @ 09:10  
#5 - EQB @ 09:45

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. This data has been produced in accordance with NELAC Standards (July, 1999). This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

PROJECT MANAGER

Marcia C. Colon



# Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 0212171

Report Date: 01/15/03

Report to:

Enco

10207 General Dr.

Orlando, FL 32824

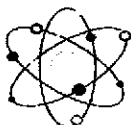
Attention: Marcia Colon

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards.

Signed

Michael J. Naumann  
President

Date 1-15-03

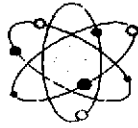


## Florida Radiochemistry Services, Inc.

### Sample Login

<b>Client:</b>	<b>Enco</b>	<b>Date / Time Received</b>	<b>Work order #</b>
<b>Client Contact:</b>	<b>Marcia Colon</b>	<b>12/30/02 15:35</b>	<b>0212171</b>
<b>Client P.O.</b>			
<b>Project I.D.</b>	<b>ORL 24953</b>		

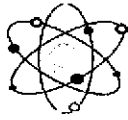
<b>Lab Sample I.D.</b>	<b>Client Sample I.D.</b>	<b>Sample Date/Time</b>	<b>Analysis Requested</b>
<b>0212171-01</b>	<b>ORL 24953-1</b>	<b>12/26/02 15:30</b>	<b>Gross Alpha</b>
<b>0212171-02</b>	<b>ORL 24953-2</b>	<b>12/27/02 11:30</b>	<b>Gross Alpha</b>
<b>0212171-03</b>	<b>ORL 24953-3</b>	<b>12/27/02 12:47</b>	<b>Gross Alpha</b>
<b>0212171-04</b>	<b>ORL 24953-4</b>	<b>12/27/02 09:10</b>	<b>Gross Alpha</b>
<b>0212171-05</b>	<b>ORL 24953-5</b>	<b>12/27/02 09:45</b>	<b>Gross Alpha</b>



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	0212171-01	0212171-02	0212171-03	0212171-04	0212171-05
Client I.D.	ORL 24953 1	ORL 24953 2	ORL 24953 3	ORL 24953 4	ORL 24953 5
Gross Alpha	5.8	<3.9	3.1	3.6	<1.0
Error +/-	2.1	2.5	1.1	2.1	0.6
MDL	1.9	3.9	0.8	3.2	1.0
EPA Method	900.0	900.0	900.0	900.0	900.0
Prep Date	01/13/03	01/13/03	01/13/03	01/13/03	01/13/03
Analysis Date	01/14/03	01/14/03	01/14/03	01/14/03	01/14/03
Units	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l
Analyst	MJN	MJN	MJN	MJN	MJN



Florida Radiochemistry Services, Inc.

QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	0212173-01	01/14/03	<0.9	10.2	9.1	8.3	89	9.2
		<b>Quality</b>	<b>Control</b>	<b>Limits</b>				
		<b>% RPD</b>		<b>% Rec.</b>				
Gross Alpha		15.8		65-125				





**ENVIRONMENTAL CONSERVATION LABORATORIES**

QSARF # \_\_\_\_\_

4810 Executive Park Court, Suite 211  
 Jacksonville, Florida 32216-6069  
 Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive  
 Orlando, Florida 32824-8529  
 Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way  
 Cary, North Carolina 27513  
 Ph. (919) 677-1669 • Fax (919) 677-9846

**CHAIN OF CUSTODY RECORD**

ENCO CompQAP No.: 960038G/O

PROJECT REFERENCE		PROJECT NO.	PO. NUMBER		MATRIX TYPE		REQUIRED ANALYSIS		PAGE	OF			
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	SLUDGE	OTHER	REMARKS
1	12/20/02	15:30	X		OR124953 -1	X							Farmed to
2	12/27/02	11:30	X			X							FL Rad Chem
3		12:47	X			X							
4		9:10	X			X							
5		9:45	X			X							
6													
7													
8													
9													
10													
11													
12													
13													
14													
SAMPLE KIT PREPARED BY:		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	REMARKS
JACKSONVILLE		ORLANDO		<i>J. Beestoe</i>		12/27/02	17:00	<i>M. Norman</i>	12-30-02		15:30		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS							
<input type="checkbox"/> Jacksonville		<input type="checkbox"/> Orlando	<input type="checkbox"/> YES		<input type="checkbox"/> NO								

*Gross alpha*

**HANDS**

NUMBER OF CONTAINERS SUBMITTED

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

STANDARD REPORT DELIVERY  
 EXPEDITED REPORT DELIVERY (surcharge)



# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

OFFICERS:

Gerald C. Hartman, PE., DEE  
Harold E. Schmidt, Jr., PE., DEE  
James E. Christopher, PE.  
Charles W. Drake, PG.  
Mark A. Rynning, PE., M.B.A.  
Michael B. Bomar, PE.  
William D. Musser, PE.  
Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C.  
Roderick K. Cashe, PE.

ASSOCIATES:

Douglas P. Dufresne, PG.  
Jon D. Fox, PE.  
James E. Golden, PG.  
Troy E. Layton, PE.  
Andrew T. Woodcock, PE., M.B.A.  
Grant C. Malchow, M.B.A.  
John P. Toomey, PE.  
Mark A. Gabriel, PE.  
George S. Flint, M.P.A.  
Jennifer L. Woodall, PE.  
L. Todd Shaw, PE.  
Rafael A. Terrero, PE., DEE  
Jill A. Hudkins, PE.  
Daniel M. Nelson, PE.  
Valerie C. Davis, PG.  
Brian S. Fields, PE.

February 12, 2003

HAI #96.0271.008  
Phase 5  
File 14.4

*Via Facsimile and U.S. Mail*

Ms. Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Response to Comments, dated February 5, 2003  
545 C&D Landfill  
Orange County, Florida  
FDEP #SO48-0138152-001**

RECEIVED  
FEB 17 2003  
Central Dist. - DEP

Dear Ms. De Pradine:

On behalf of 545 C&D Landfill, Hartman & Associates, Inc. (HAI) is providing responses to your comments, dated February 5, 2003, regarding the January 2003 semi-annual groundwater monitoring report. Your comments are stated first with our responses following.

**Comment 1: Once again, exceedances in nitrates and aluminum were noted in several of the wells. The explanation in the narrative stated that this was due to the fact that it was naturally occurring. However, no exceedance for either of these parameters were reported in the background wells. Please explain this inconsistency and the reason for not resampling these wells as required by your current MPIS.**

Response: Samples from monitor wells MW-1 and MW-6 exceeded the maximum contaminant level for aluminum. Though samples from the background monitor wells did not exceed the maximum contaminant level (MCL) for aluminum, this parameter has been detected in each of these background wells.

This is not an inconsistency or non-compliance with the MPIS. The wells in question are in different hydrogeologic environments than the background wells, and a resampling is not required if the results are accepted.

The sample from monitor well MW-4A exceeded the MCL for nitrate. It was stated in the report that this is likely due to irrigation with Conserv II reuse water on the site's eastern boundary. Analytical results for the Conserv II reuse water, indicating elevated nitrate levels, have been previously submitted to the Department.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

These wells were not resampled because the results are believed to represent ambient groundwater conditions. This condition was described in detail in the recent biennial report.

**Comment 2: Exceedances in benzene and cis-1, 2-dichloroethene were noted in MW-3. As required by your Monitoring Plan Implementation Schedule (MPIS), resampling must be conducted within fourteen days of receiving the results. Please explain the omission.**

Response: It is HAI's understanding, after discussing the issue with Bret LeRoux, that the FDEP Central District does not recognize an exceedance unless the result is a full number above the MCL. Therefore, a benzene level of 1.8 µg/L would not constitute an exceedance. Since benzene was detected, HAI decided that the monitor well should be resampled. Even though the new solid waste regulations allow 30 days for resampling to occur, monitor well MW-3 was resampled within 12 days of receipt of the laboratory analytical data (resampled on January 22, 2003), in compliance with the MPIS. However, the resampling results were not available at the time of the original submittal. The results again indicated a benzene level of 1.8 µg/L. These results are attached for your reference.

The laboratory results indicated a detection of cis-1,2-dichloroethene; however, the level detected was not an exceedance. According to FAC 62-777 and 62-550, the MCL for cis-1,2-dichloroethene is 70 µg/L, well above the 1.6 µg/L detected in MW-3.

545 Landfill proposes to sample MW-3 quarterly for benzene (EPA Method 8021) and indicator parameters (chlorides, nitrates, sulfate, iron, manganese, ammonia) for a period of four quarters to best evaluate the trend. The next sampling for this well would occur in April 2003. The results of these sampling events will be submitted to the Department.

**Comment 3: Exceedances in iron and pH were noted. This appears to be historical.**

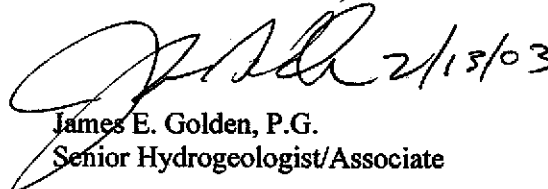
Response: Comment noted.

We trust these responses will satisfy the Department's concerns. Please call us if you have any questions.

Very truly yours,

**Hartman & Associates, Inc.**

  
Jennifer L. Deal, P.E.  
Project Engineer

 2/13/03  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

Attachments

cc: Mark Hart, 545 Landfill  
Tim Laraway, Republic  
Deborah Helle, FDEP  
James Bradner, FDEP

JLD -

Environmental Conservation Laboratories, Inc.  
10207 General Drive  
Orlando, Florida 32824-8529  
407 / 826-5314  
Fax 407 / 850-6945  
www.encolabs.com



DHRS Certification No. E83182

**CLIENT :** Hartman & Assoc., Inc.  
**ADDRESS:** 201 E. Pine St.  
Suite 1000  
Orlando, FL 32801

**REPORT # :** ORL25242  
**DATE SUBMITTED:** January 22, 2003  
**DATE REPORTED :** January 27, 2003

**PAGE 1 OF 7**

**ATTENTION:** Jim Golden

**SAMPLE IDENTIFICATION**

Samples submitted and identified by client as:

REFERENCE: 96.0271.008-3

545 Landfill

01/22/03

- #1 - MW-3 @ 12:20
- #2 - EQUIPMENT BLANK @ 10:00

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. This data has been produced in accordance with NELAC Standards (July, 1999). This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

**PROJECT MANAGER**

**Marcia C. Colon**

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 2 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
 VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	2.0 U	ug/L
Chloromethane	1.0 U	1.0 U	ug/L
Vinyl Chloride	1.0 U	1.0 U	ug/L
Bromomethane	2.0 U	2.0 U	ug/L
Chloroethane	2.0 U	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	1.0 U	ug/L
Methylene Chloride	5.0 U	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	1.0 U	ug/L
c-1,2-Dichloroethene	1.3	1.0 U	ug/L
Chloroform	1.0 U	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	1.0 U	ug/L
Trichloroethene	1.0 U	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	1.0 U	ug/L
Bromodichloromethane	1.0 U	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	1.0 U	ug/L
Tetrachloroethene	3.0 U	3.0 U	ug/L
Dibromochloromethane	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Bromoform	1.0 U	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L

Surrogate:

	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	52-167
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 3 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	1.0 U	ug/L
Benzene	1.8	1.0 U	ug/L
Toluene	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Ethylbenzene	1.0 U	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	2.0 U	ug/L
o-Xylene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	65-129
Dibromofluoromethane	97	107	65-129
D8-Toluene	95	105	65-129
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U - Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 4 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	ug/L
Chloromethane	1.0 U	ug/L
Vinyl Chloride	1.0 U	ug/L
Bromomethane	2.0 U	ug/L
Chloroethane	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	ug/L
Methylene Chloride	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	ug/L
c-1,2-Dichloroethene	1.0 U	ug/L
Chloroform	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	ug/L
Trichloroethene	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	ug/L
Bromodichloromethane	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	ug/L
Tetrachloroethene	3.0 U	ug/L
Dibromochloromethane	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Bromoform	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L

Surrogate:

Bromofluorobenzene  
 Date Analyzed

% RECOV

92

01/25/03 18:00

LIMITS

52-167

U = Compound was analyzed for but not detected to the level shown.



ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 5 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	ug/L
Benzene	1.0 U	ug/L
Toluene	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Ethylbenzene	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	ug/L
o-Xylene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	92	65-129
Dibromofluoromethane	98	65-129
D8-Toluene	90	65-129
Date Analyzed	01/25/03 18:00	

U = Compound was analyzed for but not detected to the level shown.

**ENCO LABORATORIES**

**REPORT #** : ORL25242  
**DATE REPORTED:** January 27, 2003  
**REFERENCE** : 96.0271.008-3  
**PROJECT NAME** : 545 Landfill

**PAGE 6 OF 7**

**LABORATORY CERTIFICATIONS**

Laboratory Certification: FDEP:960038 NELAC:E83182

All analyses reported with this project were analyzed by the facility indicated unless identified below.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 7 OF 7

QUALITY CONTROL DATA

<u>Parameter</u>	<u>% RECOVERY MS/MSD/LCS</u>	<u>ACCEPT LIMITS</u>	<u>% RPD MS/MSD</u>	<u>ACCEPT LIMITS</u>
<u>EPA Method 8260</u>				
1,1-Dichloroethene	91/ 83/ 92	36-185	9	34
Benzene	110/106/111	65-143	4	25
Trichloroethene	99/ 97/107	51-152	2	28
Toluene	102/110/116	62-144	8	24
Chlorobenzene	98/ 90/105	64-140	8	23

< = Less Than  
MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
LCS = Laboratory Control Standard  
RPD = Relative Percent Difference



ENVIRONMENTAL CONSERVATION LABORATORIES

OSARF # 171281

4810 Executive Park Court, Suite 211  
 Jacksonville, Florida 32216-6069  
 Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive  
 Orlando, Florida 32824-8529  
 Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way  
 Cary, North Carolina 27513  
 Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompoAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE 545 Len Hill (Gessample)		PROJECT NO. 96.0211.008-3		PG. NUMBER		MATRIX TYPE		REQUIRED ANALYSIS		PAGE		OF					
PROJECT LOC. FL		SAMPLER(S) NAME Bill Bangle		PHONE 407-839-3955		FAX -2066											
CLIENT NAME Hartman & Assoc. Inc.		CLIENT PROJECT MANAGER Tim Golden															
CLIENT ADDRESS (CITY, STATE, ZIP) 201 E. Pine St. Suite 1000 Orlando, FL 32801																	
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	DATE	TIME	REMARKS
MW-3	1/22/03	1220	X		MW-3		X										
EOB	"	1000	X		Equipment Blank												DI Water
<input type="checkbox"/> EXPEDITED REPORT DELIVERY (additional fee) <input checked="" type="checkbox"/> STANDARD REPORT DELIVERY																	
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Skinner</i> DATE <i>1/22/03</i> TIME <i>1410</i> CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ENCO LOG NO. <i>DR125242</i> REMARKS																	
SAMPLE KIT PREPARED BY: <i>RORLANDO</i> DATE <i>1/22/03</i> TIME <i>11:45</i> RECEIVED BY: (SIGNATURE) <i>Bill Bangle</i> DATE <i>1/22/03</i> TIME <i>11:45</i>																	
RELINQUISHED BY: (SIGNATURE) <i>Bill Bangle</i> DATE <i>1/22/03</i> TIME <i>11:45</i> RECEIVED BY: (SIGNATURE) <i>Bill Bangle</i> DATE <i>1/22/03</i> TIME <i>11:45</i>																	
RECEIVED BY: (SIGNATURE) <i>Bill Bangle</i> DATE <i>1/22/03</i> TIME <i>11:45</i>																	



**Florida Department of Environmental Protection**  
 Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)  
 Form Title Financial Assurance Cost Estimate Form  
 Effective Date 05-27-01  
 DEP Application No. \_\_\_\_\_  
 (Filled by DEP)

**FINANCIAL ASSURANCE COST ESTIMATE FORM**

Date: 02/25/03 Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: 545 C&D Landfill WACS or GMSID #: 25291  
 Permit / Application No.: S048-0138152-001 Expiration Date: 6/30/04  
 Facility Address: 8050 Avalon Road, Winter Garden, Florida 34787  
 Permittee: Republic Services of Florida, LP  
 Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 26 50 Longitude: 81 38 40 or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Cell 1	7	Complete	1.2
Cell 2	10.9	Complete	3.7
Cell 3	12.6	Complete	4.0
Cell 4	10.9	2001	3.7
Cell 5	9.2	2002	2.9
Cell 6	8.1	N/A	2.1

Total Landfill Acreage included in this estimate: 7 Closure 7 Long-Term Care  
 Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III  C&D Debris

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

Letter of Credit\*  Insurance Certificate  
 Performance Bond\*  Escrow Account  
 Guaranty Bond\*  Trust Fund Agreement

\*Indicates mechanisms that require use of a Standby Trust Fund Agreement

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

Northeast District  
 7825 Baymeadows Way, Ste. B200  
 Jacksonville, FL 32256-7590  
 904-448-4300

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

Southwest District  
 3804 Coconut Palm Dr.  
 Tampa, FL 33619  
 813-744-6100

South District  
 2295 Victoria Ave., Ste. 364  
 Fort Myers, FL 33901-3881  
 941-332-6975

Southeast District  
 400 North Congress Ave.  
 West Palm Beach, FL 33401  
 561-681-6800

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 3/12/02

Latest Department Approved Closure Cost Estimate:		X		=	
\$566,275.02			1.02		Inflation Adjusted Closure Cost Estimate: \$577,600.52

This adjustment is based on the Department approved long-term care cost estimate dated: 3/12/02

Latest Department Approved Annual Long-Term Care Cost Estimate:		X		=	
\$83,816.37			1.02		Inflation Adjusted Annual Long-Term Care Cost Estimate: \$85,492.70

Number of Years of Long Term Care Remaining: 5

Inflation Adjusted Long-Term Care Cost Estimate: 427,463.49

(b) Recalculate Estimates (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection Rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of engineer: \_\_\_\_\_

Jennifer L. Deal, P.E.

Name & Title (please type)

Florida Registration Number (affix seal) & Date

201 E. Pine St, Ste 1000, Orl, 32801

Mailing Address

(407) 839-3955

Telephone Number

Signature of Owner/Operator \_\_\_\_\_

Mark Hart, General Manager

Name & Title (please type)

(407) 654-0060

Telephone Number

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the engineer and Hartman & Associates, Inc. have no control.

cc: F. HORN BROOK, DEP-TALLAHASSEE

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

OFFICERS:

Gerald C. Hartman, PE., DEE  
Harold E. Schmidt, Jr., PE., DEE  
James E. Christopher, PE.  
Charles W. Drake, P.G.  
Mark A. Rynning, PE., M.B.A.  
Michael B. Bomar, PE.  
William D. Musser, PE.  
Lawrence E. Jenkins, PS.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C.  
Roderick K. Cashie, PE.

ASSOCIATES:

Douglas P. Dufresne, P.G.  
Jon D. Fox, PE.  
James E. Golden, P.G.  
Troy E. Layton, PE.  
Andrew T. Woodcock, PE., M.B.A.  
Grant C. Malchow, M.B.A.  
John P. Toomey, PE.  
Mark A. Gabriel, PE.  
George S. Flint, M.P.A.  
Jennifer L. Woodall, PE.  
L. Todd Shaw, PE.  
Rafael A. Terrero, PE., DEE  
Jill A. Hudkins, PE.  
Daniel M. Nelson, PE.  
Valerie C. Davis, P.G.  
Brian S. Fields, PE.

February 12, 2003

HAI #96.0271.008

Phase 5

File 14.4

Via Facsimile and U.S. Mail

Ms. Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Response to Comments, dated February 5, 2003  
545 C&D Landfill  
Orange County, Florida  
FDEP #SO48-0138152-001**

RECEIVED

FEB 17 2003

Central Dist. - DEP

Dear Ms. De Pradine:

On behalf of 545 C&D Landfill, Hartman & Associates, Inc. (HAI) is providing responses to your comments, dated February 5, 2003, regarding the January 2003 semi-annual groundwater monitoring report. Your comments are stated first with our responses following.

**Comment 1: Once again, exceedances in nitrates and aluminum were noted in several of the wells. The explanation in the narrative stated that this was due to the fact that it was naturally occurring. However, no exceedance for either of these parameters were reported in the background wells. Please explain this inconsistency and the reason for not resampling these wells as required by your current MPIS.**

Response: Samples from monitor wells MW-1 and MW-6 exceeded the maximum contaminant level for aluminum. Though samples from the background monitor wells did not exceed the maximum contaminant level (MCL) for aluminum, this parameter has been detected in each of these background wells.

This is not an inconsistency or non-compliance with the MPIS. The wells in question are in different hydrogeologic environments than the background wells, and a resampling is not required if the results are accepted.

The sample from monitor well MW-4A exceeded the MCL for nitrate. It was stated in the report that this is likely due to irrigation with Conserv II reuse water on the site's eastern boundary. Analytical results for the Conserv II reuse water, indicating elevated nitrate levels, have been previously submitted to the Department.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

These wells were not resampled because the results are believed to represent ambient groundwater conditions. This condition was described in detail in the recent biennial report.

**Comment 2: Exceedances in benzene and cis-1, 2-dichloroethene were noted in MW-3. As required by your Monitoring Plan Implementation Schedule (MPIS), resampling must be conducted within fourteen days of receiving the results. Please explain the omission.**

Response: It is HAI's understanding, after discussing the issue with Bret LeRoux, that the FDEP Central District does not recognize an exceedance unless the result is a full number above the MCL. Therefore, a benzene level of 1.8 µg/L would not constitute an exceedance. Since benzene was detected, HAI decided that the monitor well should be resampled. Even though the new solid waste regulations allow 30 days for resampling to occur, monitor well MW-3 was resampled within 12 days of receipt of the laboratory analytical data (resampled on January 22, 2003), in compliance with the MPIS. However, the resampling results were not available at the time of the original submittal. The results again indicated a benzene level of 1.8 µg/L. These results are attached for your reference.

The laboratory results indicated a detection of cis-1,2-dichloroethene; however, the level detected was not an exceedance. According to FAC 62-777 and 62-550, the MCL for cis-1,2-dichloroethene is 70 µg/L, well above the 1.6 µg/L detected in MW-3.

545 Landfill proposes to sample MW-3 quarterly for benzene (EPA Method 8021) and indicator parameters (chlorides, nitrates, sulfate, iron, manganese, ammonia) for a period of four quarters to best evaluate the trend. The next sampling for this well would occur in April 2003. The results of these sampling events will be submitted to the Department.

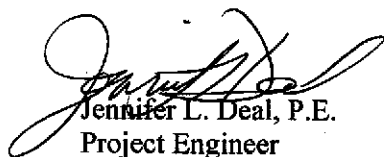
**Comment 3: Exceedances in iron and pH were noted. This appears to be historical.**

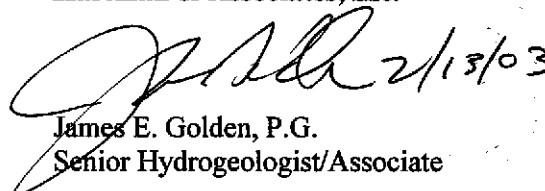
Response: Comment noted.

We trust these responses will satisfy the Department's concerns. Please call us if you have any questions.

Very truly yours,

**Hartman & Associates, Inc.**

  
Jennifer L. Deal, P.E.  
Project Engineer

 2/13/03  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

Attachments

cc: Mark Hart, 545 Landfill  
Tim Laraway, Republic  
Deborah Helle, FDEP  
James Bradner, FDEP



JLD -

Environmental Conservation Laboratories, Inc.  
10207 General Drive  
Orlando, Florida 32824-8529  
407 / 826-5314  
Fax 407 / 850-6945  
www.encolabs.com



DHRS Certification No. E83182

**CLIENT :** Hartman & Assoc., Inc.  
**ADDRESS:** 201 E. Pine St.  
Suite 1000  
Orlando, FL 32801

**REPORT # :** ORL25242  
**DATE SUBMITTED:** January 22, 2003  
**DATE REPORTED :** January 27, 2003

PAGE 1 OF 7

**ATTENTION:** Jim Golden

**SAMPLE IDENTIFICATION**

Samples submitted and  
identified by client as:

REFERENCE: 96.0271.008-3

545 Landfill

01/22/03

- #1 - MW-3 @ 12:20
- #2 - EQUIPMENT BLANK @ 10:00

RECEIVED  
FEB 17 2003  
Central Dist. -

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. This data has been produced in accordance with NELAC Standards (July, 1999). This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

PROJECT MANAGER

Marcia C. Colon

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 2 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
 VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	2.0 U	ug/L
Chloromethane	1.0 U	1.0 U	ug/L
Vinyl Chloride	1.0 U	1.0 U	ug/L
Bromomethane	2.0 U	2.0 U	ug/L
Chloroethane	2.0 U	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	1.0 U	ug/L
Methylene Chloride	5.0 U	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	1.0 U	ug/L
c-1,2-Dichloroethene	1.3	1.0 U	ug/L
Chloroform	1.0 U	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	1.0 U	ug/L
Trichloroethene	1.0 U	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	1.0 U	ug/L
Bromodichloromethane	1.0 U	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	1.0 U	ug/L
Tetrachloroethene	3.0 U	3.0 U	ug/L
Dibromochloromethane	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Bromoform	1.0 U	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L

Surrogate:

	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	52-167
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 3 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>MW-3</u>	<u>EQUIPMENT BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	1.0 U	ug/L
Benzene	1.8	1.0 U	ug/L
Toluene	1.0 U	1.0 U	ug/L
Chlorobenzene	1.0 U	1.0 U	ug/L
Ethylbenzene	1.0 U	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	2.0 U	ug/L
o-Xylene	1.0 U	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	1.0 U	ug/L

<u>Surrogate:</u>	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	88	96	65-129
Dibromofluoromethane	97	107	65-129
D8-Toluene	95	105	65-129
Date Analyzed	01/25/03 22:24	01/25/03 23:08	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
 DATE REPORTED: January 27, 2003  
 REFERENCE : 96.0271.008-3  
 PROJECT NAME : 545 Landfill

PAGE 4 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Dichlorodifluoromethane	2.0 U	ug/L
Chloromethane	1.0 U	ug/L
Vinyl Chloride	1.0 U	ug/L
Bromomethane	2.0 U	ug/L
Chloroethane	2.0 U	ug/L
Trichlorofluoromethane	1.0 U	ug/L
1,1-Dichloroethene	1.0 U	ug/L
Methylene Chloride	5.0 U	ug/L
t-1,2-Dichloroethene	1.0 U	ug/L
1,1-Dichloroethane	1.0 U	ug/L
c-1,2-Dichloroethene	1.0 U	ug/L
Chloroform	1.0 U	ug/L
1,1,1-Trichloroethane	1.0 U	ug/L
Carbon Tetrachloride	1.0 U	ug/L
1,2-Dichloroethane	1.0 U	ug/L
Trichloroethene	1.0 U	ug/L
1,2-Dichloropropane	1.0 U	ug/L
Bromodichloromethane	1.0 U	ug/L
c-1,3-Dichloropropene	1.0 U	ug/L
t-1,3-Dichloropropene	1.0 U	ug/L
1,1,2-Trichloroethane	1.0 U	ug/L
Tetrachloroethene	3.0 U	ug/L
Dibromochloromethane	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Bromoform	1.0 U	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L

Surrogate:

Bromofluorobenzene  
 Date Analyzed

% RECOV

92

01/25/03 18:00

LIMITS

52-167

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 5 OF 7

RESULTS OF ANALYSIS

EPA METHOD 8260 -  
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	1.0 U	ug/L
Benzene	1.0 U	ug/L
Toluene	1.0 U	ug/L
Chlorobenzene	1.0 U	ug/L
Ethylbenzene	1.0 U	ug/L
m-Xylene & p-Xylene	2.0 U	ug/L
o-Xylene	1.0 U	ug/L
1,2-Dichlorobenzene	1.0 U	ug/L
1,3-Dichlorobenzene	1.0 U	ug/L
1,4-Dichlorobenzene	1.0 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	92	65-129
Dibromofluoromethane	98	65-129
D8-Toluene	90	65-129
Date Analyzed	01/25/03 18:00	

U = Compound was analyzed for but not detected to the level shown.

**ENCO LABORATORIES**

**REPORT #** : ORL25242  
**DATE REPORTED:** January 27, 2003  
**REFERENCE** : 96.0271.008-3  
**PROJECT NAME** : 545 Landfill

**PAGE 6 OF 7**

**LABORATORY CERTIFICATIONS**

Laboratory Certification: FDEP:960038 NELAC:E83182

All analyses reported with this project were analyzed by the facility indicated unless identified below.

ENCO LABORATORIES

REPORT # : ORL25242  
DATE REPORTED: January 27, 2003  
REFERENCE : 96.0271.008-3  
PROJECT NAME : 545 Landfill

PAGE 7 OF 7

QUALITY CONTROL DATA

<u>Parameter</u>	<u>% RECOVERY</u> <u>MS/MSD/LCS</u>	<u>ACCEPT</u> <u>LIMITS</u>	<u>% RPD</u> <u>MS/MSD</u>	<u>ACCEPT</u> <u>LIMITS</u>
<u>EPA Method 8260</u>				
1,1-Dichloroethene	91/ 83/ 92	36-185	9	34
Benzene	110/106/111	65-143	4	25
Trichloroethene	99/ 97/107	51-152	2	28
Toluene	102/110/116	62-144	8	24
Chlorobenzene	98/ 90/105	64-140	8	23

< = Less Than  
MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
LCS = Laboratory Control Standard  
RPD = Relative Percent Difference



**ENVIRONMENTAL CONSERVATION LABORATORIES**

4810 Executive Park Court, Suite 211  
 Jacksonville, Florida 32216-6069  
 Ph. (904) 296-3007 • Fax (904) 296-6210  
 10207 General Drive  
 Orlando, Florida 32824-8529  
 Ph. (407) 826-5314 • Fax (407) 850-6945  
 1015 Passport Way  
 Cary, North Carolina 27513  
 Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 9600386/G0

**CHAIN OF CUSTODY RECORD**


PROJECT REFERENCE 545 Landfill (Resample)		PROJECT NO. R6.021008-3		PO. NUMBER						
PROJECT LOC. FL		SAMPLER(S) NAME Bill Bayle		PHONE 407-839-3955						
CLIENT NAME Hartman & Assoc. Inc.		CLIENT PROJECT MANAGER Tim Golder		FAX -2066						
CLIENT ADDRESS (CITY, STATE, ZIP) 201 E. Pine St. Suite 1000 Orlando, FL 32801										
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF	
MW-3	12/2/03	1220	X		MW-3	<input checked="" type="checkbox"/> SURFACE WATER <input type="checkbox"/> GROUND WATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> SOIL/SOLID/SEDIMENT <input type="checkbox"/> NONAQUEOUS LIQUID (oil, solvent, etc.) <input type="checkbox"/> AIR <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER				
EQ8	"	1000	X		Equipment Blank	<input checked="" type="checkbox"/> 820-Benzene <input checked="" type="checkbox"/> Disl. 2-dichloroethane				
/										
SAMPLE KIT PREPARED BY: RORLANDO						DATE: 12/03	TIME: 11:45	RECEIVED BY: (SIGNATURE)	DATE: 12/03	TIME: 11:45
RELINQUISHED BY: (SIGNATURE)						DATE: 12/03	TIME: 11:45	RECEIVED BY: (SIGNATURE)	DATE: 12/03	TIME: 0915
RECEIVED BY: (SIGNATURE)						DATE: 12/03	TIME: 1410	RECEIVED BY: (SIGNATURE)	DATE: 12/03	TIME: 1410
RECEIVED FOR LABORATORY BY: (SIGNATURE)						DATE: 12/03	TIME: 1410	CUSTOMY INTRACT	ENDC LOG NO.	REMARKS
<input type="checkbox"/> Jacksonville <input checked="" type="checkbox"/> Orlando						DATE: 12/03	TIME: 1410	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	R125242	

STANDARD REPORT DELIVERY  
 EXPEDITED REPORT DELIVERY (surcharge)  
 Date Due: before 12/9/03  
 AS AP

OSARF # 197289



CENTRAL DISTRICT

TO: 545 C&D Groundwater Report  
THROUGH: Gloria Jean DePradine   
FROM: Saadia Qureshi  
DATE: 1/03/03  
SUBJECT: 545 C&D Groundwater July 2002

---

The groundwater report has been reviewed and the Department concurs with the comments made in the report.

**Qureshi, Saadia**

---

**From:** Miguel Garcia [mgarcia@consulthai.com]  
**Sent:** Wednesday, October 02, 2002 4:32 PM  
**To:** Bradner, James  
**Cc:** debrah.helle@dep.state.fl.us; Qureshi, Saadia; jim.mcdonald@ocfl.net  
**Subject:** Reinstallation of MW-6 at 545 Landfill

Dear James Bradner,

I am writing to inform you I will be supervising the reinstallation of MW-6 at the 545 Landfill, located at:

8050 Avalon Road  
Winter Garden, FL 34787

on October 4, 2002 (Friday). The new well will be installed by Environmental Drilling Services (EDS) beginning on Friday morning (installation), and completed the following Monday (well development). The original MW-6 will also be abandoned prior to the completion of the new MW-6 at this site.

Should you have any questions or if the scheduling of this MW installation presents a problem, please do not hesitate to contact me.

Sincerely,

Miguel Garcia  
Hydrogeologist  
Hartman & Associates, Inc.  
407-839-3955 ext 174



# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400  
September 23, 2002

David B. Struhs  
Secretary

Ms. Kim Ostrin  
Liberty Bond Services  
1211 Avenue of the Americas  
Suite 3006  
New York, New York 10036

Re: GMS 3048P98242 – CWI of Florida, Inc. – 545 Landfill

Dear Ms. Ostrin:

In accordance with 40 CFR Part 264.143(b)(9), as adopted by reference in Rule 62-701.630, Florida Administrative Code, we are returning to you for termination Liberty Mutual Insurance Company guarantee bond number 15009810, effective April 19, 1999. CWI of Florida, Inc. is providing financial assurance through an approved alternate mechanism.

We hereby agree to the cancellation of this guarantee bond. If you have any questions about this procedure, please contact Fred J. Wick at (850) 488-0300.

Sincerely,

John M. Ruddell, Director  
Division of Waste Management

JMR/flh

Enclosure

cc: Fred J. Wick, DEP/TLH  
James Bradner, DEP/ORL  
Mark Hart, CWI



# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

September 23, 2002

Mr. Mark Hart  
Landfill Manager  
CWI of Florida, Inc.  
8050 Avalon Road  
Winter Garden, Florida 34787

Re: WACS 00025412 – CWI of Florida, Inc. - 545 Landfill C&D

Dear Mr. Hart:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. Travelers Casualty and Surety Company of America bond number 103857708, effective July 1, 2002, adequately covers the inflation adjusted closing and long-term care cost estimates of \$566,275.37 and \$419,081.84, respectively. Therefore, CWI of Florida, Inc. – 545 Landfill C&D is in compliance with the financial assurance requirements of 40 CFR Part 264, Subpart H, as adopted by reference in Rule 62-701.630, Florida Administrative Code, at this time.

If you have any questions, please contact me at (850) 488-0300.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

cc: Fred Wick, DEP/TLH  
James Bradner, DEP/ORL  
Mat Katz, Republic Services

Orange County

**Qureshi, Saadia**

---

**From:** Mark Hart [mhart@gdi.net]  
**Sent:** Friday, August 30, 2002 8:21 PM  
**To:** Margot Napoli-Bryant; Avalon Home & Property Owners  
**Cc:** Jim McDonald; Jim Golden; Qureshi, Saadia  
**Subject:** Community Meeting

Dear Homeowner Association Members,  
Please forward the attached memo to the members of your respective homeowner's associations. The notice was mailed today, 8/30/02.

Best Regards,  
Mark Hart

**PUBLIC INFORMATION MEETING**  
**SEPTEMBER 12<sup>TH</sup>, 7:00 P.M.**  
*To be held at*  
**ORANGE COUNTY NATIONAL GOLF CENTER**  
**1 PHIL RITSON WAY**  
**WINTER GARDEN, FLORIDA**

The 545 Landfill, operated by Republic Services of Florida, wishes to invite the facilities' neighbors and other interested parties to attend a public information meeting regarding a proposed 50 foot vertical expansion to the existing landfill located south of Schofield Road, 8050 Avalon Road, Highway 545. The 545 Landfill is permitted by the State of Florida Department of Environmental Protection and the Orange County Environmental Protection Division to accept construction and demolition debris, and landclearing waste for disposal. The facility recycles vegetative materials, lumber, metals and concrete. The site is south of the CDS facility at the intersection of Schofield Rd. and Highway 545, which is also permitted as a construction and demolition/landclearing landfill.

545 Landfill is holding this meeting in preparation for the upcoming Orange County Board of Zoning Adjustment public hearing. The meeting will allow interested persons to examine the landfill's development plans, listen to an overview of the proposal, and there will be a question and answer session. The public information meeting will be held at the Orange County National Golf Center, in the restaurant/club house at the address listed above. Light refreshments will be served.

Please call Mr. Jim Golden, P.G. at Hartman and Associates, Inc., at (407) 839-3955, ext. 153, if you have any questions. We look forward to seeing you at the meeting.

**Directions to the Orange County National Golf Center:**

From Highway 50, go south on Avalon Rd, Highway 545 approximately 9 miles. Look for the sign for the Orange County National Golf Center. Take the next left onto Phil Ritson Way. Go ¼ mile and enter Golf course on your left. Follow the signs to the clubhouse.

From Highway 192, go north approximately 7 miles and take a right onto Phil Ritson Way. Go ¼ mile and enter Golf course on your left. Follow the signs to the clubhouse.



Jeb Bush  
Governor

# Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

David B. Struhs  
Secretary

OCD-02-0255

Mr. Mark Hart  
8050 Avalon Road  
Winter Garden, FL 32787

CWI 545 Landfill (CDS)  
Orange County- SW  
Update Operations and Training Plans

Dear Mr. Hart:

On May 27, 2001 Chapter 62-701 was amended. Therefore based on the requirements of Rule 62-701.320(15) and Rule 62.701.500(1) and (2) all facilities must update their operation and training plans to reflect the appropriate changes.

The Operations plan shall include but not be limited to the following:

- Waste screening procedures and provisions for the management of hazardous/prohibited waste.
- Description of waste placement and compaction procedures.
- A detailed description of emergency and contingency plan for incidents such as accidents like fires, natural disasters, and severe weather.
- Description of job classifications and personnel requirements.
- Location of ground water monitoring wells and monitoring schedules (dates, parameters).
- List of acceptable and unacceptable waste.
- Control of stormwater and flood control measures.
- Description of access control features, such as fences, gates, and ditches, etc.
- Description of facility operation, including ancillary activities such as recycling, mulching, composting, and wood waste incineration.
- Description of record keeping procedures and content.
- Descriptions of signs used to control traffic and inform site users.
- Description of the numbers and types of equipment used.
- Schedule of compaction and grading (i.e. cell locations and sequence of filling to reach final grades.) Include appropriate language about slope stability and angle of repose to address temporary interior slopes steeper than 3:1 (horizontal: vertical), but no steeper than 1.5:1. Also it is recommended that you add a section with language specifying installation of permanent markers at the limits of waste in the disposal area. The markers must be accessible and clearly identifiable for purposes of inspection. All other language under this Heading is acceptable.

*"More Protection, Less Process"*

*Printed on recycled paper.*

- Description of temporary storage procedure for materials removed from the waste stream for recovery, reuse, or alternate disposal.
- The locations and functions of spotters and operators (by name, updated as required).
- Procedures for the management, storage and dispensing of fuels, oils and other automotive fluids.
- Emergency telephone numbers including the telephone number of the local DEP office, emergency response, fire department, etc.
- *Description of procedures to handle and/or temporarily store Hazardous waste.* Include language specifying that pressure treated lumber (e.g., lumber treated with chromated copper arsenate) will not be chipped or mulched, but will be removed for proper disposal. Specify procedures for identification of pressure treated lumber.

The training plan shall include but not be limited to:

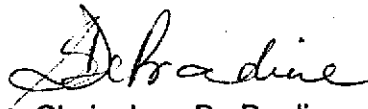
- A list and schedule of all classes to be attended by operator(s) and spotter(s).
- List of operators and spotters scheduled for training.
- A mechanism for providing proof of training.
- All training courses, whether public or in-house, shall be approved by the Department in accordance with Section 403.716, F.S. Any in-house operator-training program, which includes an examination required by this subsection, must be administered by an independent third party.
- Any other in-house operator-training program must be administered by a trained operator. The training plan, along with records documenting how the training plan is being implemented, shall be kept at the Facility at all times and be made available for inspection by Department staff.

The Department is requesting that a list of current operators and spotter with proof of their most recent training be submitted along with the training plan to ensure that the new rule requirements are met.

You are requested to respond within ten (10) days of receipt of this letter and to submit a revised plan within 45 days of receipt of this letter.

Please contact Randall Cunningham or Saadia Qureshi at (407) 893-3328 if you have any questions or need additional information.

Sincerely,



Gloria-Jean De Pradine  
Environmental Supervisor  
Solid Waste

Date 7/10/02

GJD/rc  
Enclosures



# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

## PRINCIPALS:

Gerald C. Hartman, P.E., DEE  
Harold E. Schmidt, Jr., P.E., DEE  
James E. Christopher, P.E.  
Charles W. Drake, P.G.  
Mark A. Rynning, P.E., MBA  
Mark I. Luke, P.S.M.  
William D. Musser, P.E.

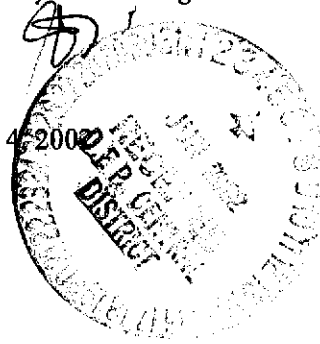
## SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C.  
Roderick K. Cashe, P.E.  
Lawrence F. Jenkins, P.S.M.

## ASSOCIATES:

Douglas P. Dufresne, P.G.  
Jon D. Fox, P.E.  
James E. Golden, P.G.  
Troy E. Layton, P.E.  
Andrew T. Woodcock, P.E.  
Grant C. Malchow, MBA  
John P. Toomey, P.E.  
W. Thomas Roberts, III, P.E.  
Michael B. Bomar, P.E.  
Mark A. Gabriel, P.E.  
George S. Flint, M.P.A.  
Jennifer L. Woodall, P.E.  
L. Todd Shaw, P.E.  
Rafael A. Terrero, B.E., DEE  
Jill A. Manning, P.E.  
Daniel M. Nelson, P.E.  
Valerie C. Davis, P.G.  
Brian S. Fields, P.E.

June 4, 2002



HAI #96.0271.008

File 14.4

Ms. Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Response to Comments, dated May 29, 2002**  
**545 C&D Landfill**  
**Orange County, Florida**  
**FDEP #SO48-0138152-001**

Dear Ms. De Pradine:

On behalf of 545 C&D Landfill, (545), Hartman & Associates, Inc. (HAI) is providing responses to your comments, dated May 29, 2002, regarding the February 2002 semi-annual groundwater monitoring report. Your comments are stated first with our responses following.

1. Exceedances in nitrates and aluminum were noted in several of the wells. The explanation in the narrative stated that this was due to the fact that it was naturally occurring. However, no exceedance for either of these parameters were reported in the background wells. Please explain this inconsistency and the reason for not resampling these wells as required by your current MPIS.

**Response:** This comment is identical to Comment 2 in the Department's previous letter. HAI provided the following response.

Nitrate has been consistently detected in 12 of the 14 monitor wells since the initial sampling event. The conclusion of the report explained that nitrate exceedances at wells along the east side of the site are most likely related to the Conserv II irrigation in those areas of the property. Conserv II water is known to contain nitrate and nitrogen at elevated levels, see attached Conserv II water quality analysis. (*Conserv II water quality analysis not attached to this response.*)

Aluminum has consistently been observed in monitor wells MW-1, MW-1C, MW-3, MW-4, and MW-6 above the State minimum criteria. One exceedance has been observed in background monitor well MW-2. Monitor well MW-6, though not listed as a background monitor well in the MPIS, has consistently intercepted groundwater flow upgradient of the landfill and has consistently exceeded the minimum criteria for this parameter for the past three sampling events. Additionally, it is possible for localized conditions to be observed at some monitor wells and not at others due to specific groundwater conditions. Low pH, which averaged 5.09 in the surficial aquifer at this site, will cause aluminum to leach from the subsurface soils and dissolve in the groundwater. Aluminum content in soil averages 71,000 parts per million (USEPA 1984).

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

Resampling of the monitor wells for exceeded parameters is not required if it is believed that the analytical results are representative of existing conditions at the site. Based on the statements above, HAI did not feel that resampling was warranted.


2. Exceedances in iron and pH were noted. This appears to be historical.

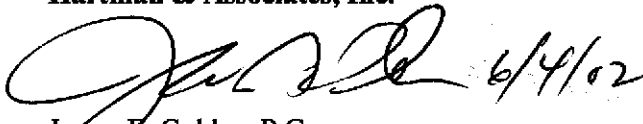
**Response:** Low pH is common to groundwater in the surficial aquifer in Central Florida and may result in increased concentrations of metals in the groundwater. It is HAI's opinion that these concentrations are naturally existing in the groundwater at this site.

Please call us if you have any questions or require further information.

Very truly yours,

**Hartman & Associates, Inc.**

  
Jennifer L. Deal, E.I.  
Engineer

  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

JLD/JEG/sas/96.0271.008/corresp/DePradine.jld

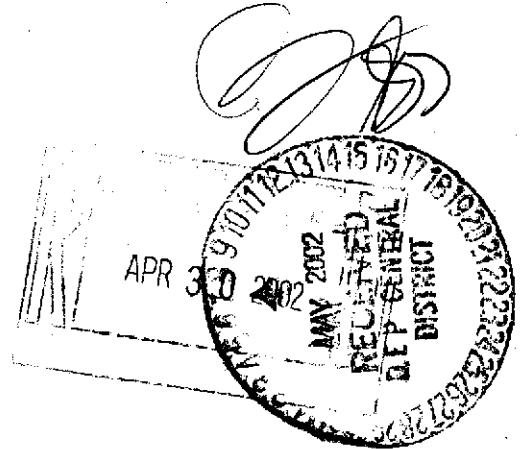
cc: Mark Hart, 545 Landfill  
Deborah Helle, P.G., FDEP, Solid Waste Program

**545 LANDFILL**  
**C & D Recycling**

April 23, 2002

Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

Mr. Jim McDonald, P.E. Supervisor  
Orange County Environmental Protection Division  
Landfill Management  
800 Mercy Drive, Suite 4  
Orlando, Florida 32808



**Subject: Semi-Annual Groundwater Monitoring Report**  
**545 C&D Landfill**  
**Winter Garden, Florida**  
**FDEP Permit No. SO48-0138152-001**  
**OCEPD Permit No. 91-F13-4620**

Dear Messrs. Bradner and McDonald:

Republic Services of Florida, LP is pleased to submit the Semi-Annual Groundwater Monitoring Report for the January 2002 sampling event at the 545 C&D Landfill. If you have any questions or comments regarding the report, please contact James Golden or Jennifer Deal at Hartman & Associates, Inc., (407) 839-3955.

Very truly yours,

**545 Landfill**

Mark Hart  
Manager

Attachment

cc: James E. Golden, HAI

8050 Avalon Rd, Winter Garden, Florida, 34787  
(407) 654-0060 fax: (407) 654-0124



# Fax

<b>To:</b> John Jackson	<b>From:</b> Mark Hart
<b>Fax:</b> 407 897 2966	<b>Pages:</b> 7 including cover sheet
<b>Phone:</b> 407 894-7555	<b>Date:</b> 4/1/02
<b>Re:</b> Annual report	<b>CC:</b>

Urgent     For Review     Please Comment     Please Reply     Please Recycle

Original to follow via USPS.



## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (7)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No: _____

1. Name of Facility: 545 Landfill
2. Company Name: Republic Services of Florida, LP
3. Physical Address: 8050 Avalon Rd, Winter Garden 34787
4. Mailing Address: same
5. County Location: Orange
6. Debris County of Origin: ORANGE  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: mhart@gdi.net

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>270</u> _____ Subtotal Metals: <u>270</u>
<u>TEXTILES</u>	Miscellaneous/carpet	_____ _____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>8600</u> _____ <u>23190</u> _____ Subtotal Other: <u>31790</u>

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 32060

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 172863

Mark Hart  
 Signature (authorized Representative)

General Manager  
 Title

4/1/02  
 Date

MARK HART  
 Print Name

NOTE: Use one of these forms for each county from which the facility received materials



## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (7)
Form Title: _____
Effective Date: 05-27-01
DEP Application No: _____

1. Name of Facility: 545 Landfill
2. Company Name: Republic Services of Florida, LP
3. Physical Address: 8050 Avalon Rd, Winter Garden 34787
4. Mailing Address: same
5. County Location: Orange
6. Debris County of Origin: POLK  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: mhart@gdi.net

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>24</u> _____ Subtotal Metals: <u>24</u>
<u>TEXTILES</u>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	* <u>770</u> _____ <u>2075</u> _____ Subtotal Other: <u>2845</u>

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 2869

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 15469

Mark Hart  
 Signature (authorized Representative)

General Manager  
 Title

4/1/02  
 Date

MARK HART  
 Print Name

**NOTE: Use one of these forms for each county from which the facility received materials**



## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (7)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No: _____

1. Name of Facility: 545 Landfill
2. Company Name: Republic Services of Florida, LP
3. Physical Address: 8050 Avalon Rd, Winter Garden 34787
4. Mailing Address: same
5. County Location: Orange
6. Debris County of Origin: OSCEOLA  
(or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
(the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: mhart@gdi.net

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>102</u> _____ Subtotal Metals: <u>102</u>
<u>TEXTILES</u>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	<u>3242</u> _____ <u>8743</u> _____ Subtotal Other: <u>11985</u>

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 12087

10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 65170

Mark C. Hart Signature (authorized Representative)     
 GENERAL MANAGER Title     
 4/1/02 Date  
MARK C. HART  
 Print Name

NOTE: Use one of these forms for each county from which the facility received materials



## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701,900 (7)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No: _____

1. Name of Facility: 545 Landfill
2. Company Name: Republic Services of Florida, LP
3. Physical Address: 8050 Avalon Rd, Winter Garden 34787
4. Mailing Address: same
5. County Location: Orange
6. Debris County of Origin: Reedy Creek Improvement Dist.  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: mhart@gdi.net

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>63</u> _____ Subtotal Metals: _____
<u>TEXTILES</u>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>2018</u> _____ <u>5441</u> _____ Subtotal Other: <u>7459</u>

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 7523  
 10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 40561

Mark C Hart  
 Signature (authorized Representative)

General Manager  
 Title

4/1/02  
 Date

MARK C. HART  
 Print Name

NOTE: Use one of these forms for each county from which the facility received materials





## Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701,900 (7)
Form Title: _____
Effective Date: <u>05-27-01</u>
DEP Application No. _____

- |  |                                     |
|--|-------------------------------------|
| <b>1. Name of Facility:</b>                              | 545 Landfill                        |
| <b>2. Company Name:</b>                                  | Republic Services of Florida, LP    |
| <b>3. Physical Address:</b>                              | 8050 Avalon Rd, Winter Garden 34787 |
| <b>4. Mailing Address:</b>                               | same                                |
| <b>5. County Location:</b>                               | Orange                              |
| <b>6. Debris County of Origin:</b>                       | LAKE                                |
| <i>(or statement that county of origin is unknown)</i>   |                                     |
| <b>7. Company Contact:</b>                               | Mark Hart                           |
| <i>(the individual responsible for this information)</i> |                                     |
| <b>8. Phone Number:</b>                                  | (407) 654-0060                      |
|  | E-Mail: <u>mhart@gdi.net</u>        |

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>20</u> _____ Subtotal Metals: <u>20</u>
<u>TEXTILES</u>	Miscellaneous/carpot	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>636</u> _____ <u>1714</u> _____ Subtotal Other: <u>2350</u>

**9. TOTAL TONS OF C&D DEBRIS RECYCLED** *(add subtotals above):* 2369

**10. TOTAL TONS OF C&D DEBRIS DISPOSED** *(all debris landfilled):* 12775

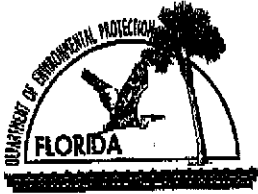
Mark C Hart  
 Signature (authorized Representative)

General Manager  
 Title

4/1/02  
 Date

MARK C HART  
 Print Name

**NOTE: Use one of these forms for each county from which the facility received materials**



# Annual Report for a Construction and Demolition Debris Facility

Submit to:  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 2600 Blair Stone Road, MS 4570, Tallahassee, FL 32399-2400  
 (due April 1<sup>st</sup> of each year for the preceding calendar year)

DEP Form # 62-701.900 (7)  
 Form Title: \_\_\_\_\_  
 Effective Date: 03-27-01  
 DEP Application No: \_\_\_\_\_

1. Name of Facility: 545 Landfill
2. Company Name: Republic Services of Florida, LP
3. Physical Address: 8050 Avalon Rd, Winter Garden 34787
4. Mailing Address: same
5. County Location: Orange
6. Debris County of Origin: UNKNOWN  
 (or statement that county of origin is unknown)
7. Company Contact: Mark Hart  
 (the individual responsible for this information)
8. Phone Number: (407) 654-0060 E-Mail: mhart@gdi.net

MATERIAL TYPES	MATERIALS RECOVERED	TOTAL TONS RECYCLED
<u>PAPER</u>	Old Corrugated Containers (OCC) Other Paper	_____ _____ Subtotal Paper: _____
<u>PLASTIC</u>	Plastic containers/buckets All Other Plastic	_____ _____ Subtotal Plastic: _____
<u>METALS</u>	Aluminum Other Non-Ferrous (e.g. brass, copper, etc.)  Steel Other Ferrous	_____ _____ <u>3</u> _____ Subtotal Metals: _____
<u>TEXTILES</u>	Miscellaneous/carpet	_____ Subtotal Textiles: _____
<u>ALL OTHER MATERIALS</u>	Asphalt Concrete, Brick (clean debris) Fines/Recovered Screen Materials Wood (lumber, plywood) Land Clearing Debris Drywall Shingles/Roofing	_____ <u>108</u> _____ <u>291</u> _____ Subtotal Other: <u>399</u>

9. TOTAL TONS OF C&D DEBRIS RECYCLED (add subtotals above): 403  
 10. TOTAL TONS OF C&D DEBRIS DISPOSED (all debris landfilled): 2171

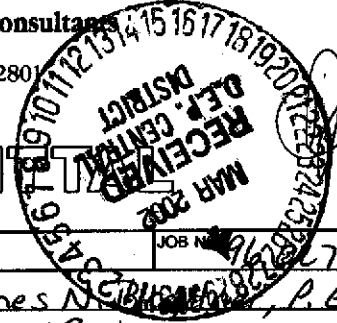
Mark C Hart Signature (authorized Representative)      General Manager Title      4/1/02 Date  
MARK C HART  
 Print Name

NOTE: Use one of these forms for each county from which the facility received materials

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
 TELEPHONE (407) 839-3955 • FAX (407) 839-3790



## LETTER OF TRANSMITTAL

to Florida Department of Env. Prot.  
3319 Maguire Blvd, Suite 232  
Orlando, FL 32803

DATE	3/26/02	JOB NO.	91271.000
ATTENTION	Mr. James N. [unclear], P.E.		
RE:	545 C&D Landfill		

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

- |   |                                       |                                |                                  |   |
|---|---------------------------------------|--------------------------------|----------------------------------|---|
| <input type="checkbox"/> Shop drawings  | <input type="checkbox"/> Prints       | <input type="checkbox"/> Plans | <input type="checkbox"/> Reports | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ |                                  |   |

COPIES	DATE	NO.	DESCRIPTION
1			Revised financial assurance cost estimates for the 545 C&D Landfill

THESE ARE TRANSMITTED as checked below:

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> For approval     | <input type="checkbox"/> Approved as submitted            | <input type="checkbox"/> Resubmit _____ copies for approval   |
| <input type="checkbox"/> For your use                | <input type="checkbox"/> Approved as noted                | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested                | <input type="checkbox"/> Returned for corrections         | <input type="checkbox"/> Return _____ corrected prints        |
| <input type="checkbox"/> For review and comment      | <input type="checkbox"/> _____                            |   |
| <input type="checkbox"/> FOR BIDS DUE _____ 19 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |   |

REMARKS Jim,

Per my conversation with Mr. Frank Hornbrook, I am submitting revised cost estimates for the 545 C&D Landfill. Please call me if you have any questions regarding the form.

COPY TO Mark Hart SIGNED Jennifer Deal  
Frank Hornbrook IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE



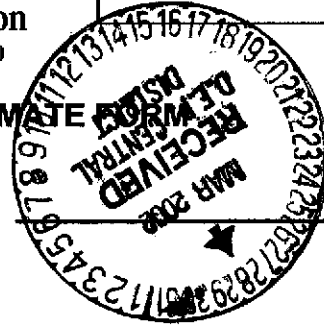
Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)  
Form Title Financial Assurance Cost Estimate Form  
Effective Date 05-27-01  
DEP Application No. \_\_\_\_\_  
(Filled by DEP)

**FINANCIAL ASSURANCE COST ESTIMATE**

Date: March 12, 2002

Date of DEP Approval: \_\_\_\_\_



**I. GENERAL INFORMATION:**

Facility Name: 545 C&D Landfill WACS or GMSID #: 25291

Permit / Application No.: SO48-0138152-001 Expiration Date: 6/30/04

Facility Address: 8050 Avalon Road, Winter Garden, Florida 34787

Permittee: Republic Services of Florida, LP

Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 26 50 Longitude: 81 38 40 or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>1</u>	<u>7</u>	<u>Complete</u>	<u>1.2</u>
<u>2</u>	<u>10.9</u>	<u>Complete</u>	<u>3.7</u>
<u>3</u>	<u>12.6</u>	<u>Complete</u>	<u>4.0</u>
<u>4</u>	<u>10.9</u>	<u>2001</u>	<u>3.7</u>
<u>5</u>	<u>9.2</u>	<u>2001</u>	<u>2.9</u>
<u>6</u>	<u>8.1</u>	<u>N/A</u>	<u>2.1</u>

Total Landfill Acreage included in this estimate. 7 Closure 7 Long-Term Care

Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III  C&D Debris

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
 \_\_\_\_\_ Performance Bond\* \_\_\_\_\_ Escrow Account  
 Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

\*Indicates mechanisms that require use of a Standby Trust Fund Agreement

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

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

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

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

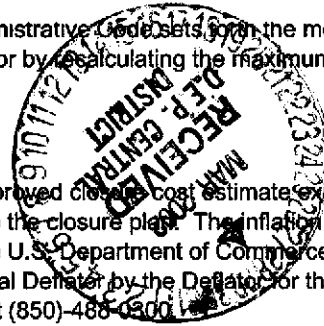
Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) **Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.



This adjustment is based on the Department approved closure cost estimate dated: 4/9/01

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
\$555,171.59	X	1.02	=	\$566,275.02

This adjustment is based on the Department approved long-term care cost estimate dated: 4/9/01

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate:
\$82,172.91	X	1.02	=	\$83,816.37

Number of Years of Long Term Care Remaining: X 5

**Inflation Adjusted Long-Term Care Cost Estimate:** = 419,081.84

(b) **Recalculate Estimates** (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Ana C. DeMelo 3/20/02  
Signature of Engineer

Mark C Hart  
Signature of Owner/Operator

Ana Carmen V. DeMelo, P.E.  
Name & Title (please type)

Mark Hart, Manager  
Name & Title (please type)

57420  
Florida Registration Number (affix seal)

(407) 654-0060  
Telephone Number

201 E. Pine St, Ste 1000, Orl, FL 32801  
Mailing Address

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which Hartman & Associates, Inc. has no control.

407-839-3955  
Telephone Number

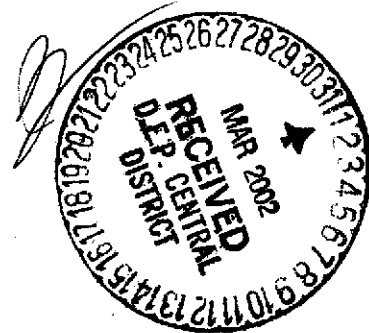


**545 LANDFILL**  
**C & D Recycling**



February 28, 2002

Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803



**Subject: 2002 Financial Assurance Cost Estimate Update**  
**545 C&D Landfill**  
**Winter Garden, Florida**  
**FDEP Permit No. SO48-0138152-001**

Dear Mr. Bradner:

Republic Services of Florida, LP is pleased to submit the 2002 inflation adjusted financial assurance cost estimates for the 545 C&D Landfill. If you have any questions regarding the estimate, please contact James Golden or Jennifer Deal at Hartman & Associates, Inc., (407) 839-3955.

Very truly yours,

**545 Landfill**

Mark Hart  
Manager

Attachment

cc: James E. Golden, HAI  
Frank Hornbrook, FDEP, Tallahassee  
Jim McDonald, OCEPD



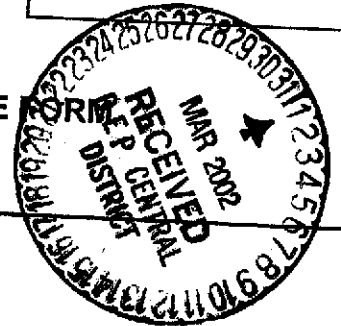
Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 02-701.900(28)  
Form Title Financial Assurance Cost Estimate Form  
Effective Date 05-27-01  
DEP Application No. \_\_\_\_\_  
(Filled by DEP)

**FINANCIAL ASSURANCE COST ESTIMATE**

Date: February 22, 2002

Date of DEP Approval: \_\_\_\_\_



**I. GENERAL INFORMATION:**

Facility Name: 545 C&D Landfill WACS or GMSID #: 25291  
 Permit / Application No.: S048-0138152-001 Expiration Date: 6/30/04  
 Facility Address: 8050 Avalon Road, Winter Garden, Florida 34787  
 Permittee: Republic Services of Florida, LP  
 Mailing Address: 8050 Avalon Road, Winter Garden, Florida 34787

Latitude: 28 26 50

Longitude: 81 38 40

or UTM: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>1</u>	<u>7</u>	<u>Complete</u>	<u>1.2</u>
<u>2</u>	<u>10.9</u>	<u>Complete</u>	<u>3.7</u>
<u>3</u>	<u>12.6</u>	<u>Complete</u>	<u>4.0</u>
<u>4</u>	<u>10.9</u>	<u>2001</u>	<u>3.7</u>
<u>5</u>	<u>9.2</u>	<u>2001</u>	<u>2.9</u>
<u>6</u>	<u>8.1</u>	<u>N/A</u>	<u>2.1</u>

Total Landfill Acreage included in this estimate. 7 Closure 7 Long-Term Care

Type of landfill: \_\_\_\_\_ Class I \_\_\_\_\_ Class III  C&D Debris

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

\_\_\_\_\_ Letter of Credit\*  
 \_\_\_\_\_ Insurance Certificate  
 \_\_\_\_\_ Performance Bond\*  
 \_\_\_\_\_ Escrow Account  
 Guaranty Bond\*  
 \_\_\_\_\_ Trust Fund Agreement

\*Indicates mechanisms that require use of a Standby Trust Fund Agreement

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

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-884-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

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

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 4/9/01

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
\$555,171.59	X	1.02	=	\$566,275.02

This adjustment is based on the Department approved long-term care cost estimate dated: 4/9/01

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate:
\$410,864.53	X	1.02	=	\$419,081.82

Number of Years of Long Term Care Remaining: X 5  
**Inflation Adjusted Long-Term Care Cost Estimate: = 2,095,409.10**

(b) Recalculate Estimates (see section V)

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

*Ana Carmen V. DeMelo* 2/25/02  
 Signature of Engineer

Ana Carmen V. DeMelo, P.E.  
 Name & Title (please type)

57420  
 Florida Registration Number (affix seal)

01 E. Pine St, Ste 1000, Orlando, 3280  
 Mailing Address

407-839-3955  
 Telephone Number

\_\_\_\_\_  
 Signature of Owner/Operator


Mark Hart, Manager  
 Name & Title (please type)


(407) 654-0060  
 Telephone Number

The above referenced "Closure Cost Estimate" and/or "Annual Long-Term Care Cost Estimate" is/are an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which Hartman & Associates, Inc. has no control.



CENTRAL DISTRICT

TO: Jim Bradner, P.E. 

FROM: Deborah Helle, P.G. 

DATE: February 14, 2002

SUBJECT: 545/Schoffield Road/CWI Biennial Report Review

---

I have reviewed the referenced document and following are my comments:

1. The proposed monitoring wells MW-7 and MW-7A are acceptable and should be installed prior to filling Cell 6

**Qureshi, Saadia**

---

**From:** jld [jld@consulthal.com]  
**Sent:** Wednesday, January 16, 2002 10:37 AM  
**To:** Bradner, James  
**Cc:** Qureshi, Saadia; 'jim.mcdonald@ocfl.net'; 'sheree.henninger@ocfl.net'  
**Subject:** Schedule change, 545 Landfill GW sampling

Jim,

At the request of the OCEPD, HAI has rescheduled the GW sampling event at the ~~545 Landfill~~ begin January 29, 2002. The sampling is still expected to last for approximately 3 days. Please call me if there are any problems with this change.

Jennifer L. Deal, E.I.  
Hartman & Associates, Inc.  
201 E. Pine Street, Suite 1000  
Orlando, Florida 32801  
(407) 839-3955

# Willis

## Memo

Willis Corroon of South Carolina  
75 Beattie Place, Ste 601  
PO Box 2007 (Zip 29602-2007)  
Greenville, South Carolina 29601

To Florida Department of Environmental Protection  
From Sarabeth Scott  
Client Manager  
Bond Department

Direct Line 864-282-2680

Date January 14, 2002

Subject ~~RE: Landfill 2 - 15008917~~  
Increase Riders for Bond Nos. 15008810 & 15008917

To Whom It May Concern:

Attached, please find a faxed copy of the original executed increase riders for the above referenced bonds. The originals are being sent via overnight mail to Tallahassee for filing with the DEP's Solid Waste Financial Coordinator.

Should you have any questions, or if I may be of further assistance, please do not hesitate to contact me directly.

I appreciate your attention to this matter.

Sincerely,  
Sarabeth Scott,  
Client Manager, Republic Services, Inc.

# Willis

**Fax**

Willis Corroon of South Carolina  
75 Beattie Place, Ste 801  
PO Box 2007 (Zip 29602-2007)  
Greenville, South Carolina 29601

Telephone 864-232-9999  
Fax 864-271-9555  
Website www.willis.com

**To** Mark Hart, 407.654.0124  
Republic Services of Florida, 545 Landfill  
James Bradner, 407.893.3124  
Florida DEP, Orlando, FL

**From** Sarabeth Scott  
Client Manager  
Bond Department

Direct Line 864-282-2680  
Direct Fax 864-271-9555  
E-mail: sarabeth.scott@willis.com

**Date** January 14, 2002

**Subject** Financial Assurance Updates - 545 Landfill & Rocket Blvd MRF  
Bond Nos. 15009810 & 15008917  
Republic Services, Inc.

Attached, please find a faxed copy of each increase rider for the above referenced sites. These have been executed and are being overnighted to RSI Corporate for appropriate signatures before being submitted to the FDEP Solid Waste Financial Coordinator in Tallahassee.

Should either of you have any questions, or if I may be of further assistance, please do not hesitate to contact me directly. I appreciate your attention to this matter.

Sincerely,  
Sarabeth Scott  
Client Manager, Republic Services, Inc.

**LIBERTY MUTUAL INSURANCE COMPANY**  
HEAD OFFICE, BOSTON, MASSACHUSETTS

**INCREASE / DECREASE RIDER**

To be attached to and form a part of Bond Number 15008917, dated the 1ST day of APRIL, 19 99, issued by Liberty Mutual Insurance Company (the "Surety") on

behalf of **CONTINENTAL WASTE INDUSTRIES, INC.**

(the "Principal")

in favor of **FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

(the "Obligee")

It is understood and agreed that the penal sum of the attached bond is hereby **INCREASED** from

NINETY-TWO THOUSAND EIGHT HUNDRED TWENTY-NINE AND 10/100  
-----  
-----(\$ 98,829.10 ) Dollars

to

NINETY-FOUR THOUSAND SIX HUNDRED EIGHTY-FIVE AND 68/100  
-----  
-----(\$ 94,685.68) Dollars

said **INCREASE** being applicable only as to acts or omissions occurring on or after the **21ST** day of **AUGUST, 2001**.

This change is effective the 21ST day of AUGUST, 2001.

The attached bond shall be subject to all of its terms, conditions and limitations except as herein modified.

Signed, sealed and dated as of this 11TH day of JANUARY, 2002.

WITNESS / ATTEST:

CONTINENTAL WASTE INDUSTRIES, INC.

\_\_\_\_\_

By: \_\_\_\_\_  
Name:

Title:

LIBERTY MUTUAL INSURANCE COMPANY

Sarahbeth Scott

By: Johanne S. Puckett  
JOHANNE S. PUCKETT, ATTORNEY-IN-FACT



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

818804

This Power of Attorney limits the act of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY  
BOSTON, MASSACHUSETTS

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts mutual insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint, **LEWIS S. KAY, JOHANNE S. PUCKETT, LINTON B. PUCKETT, CAROL M. OGBURN, ALL OF THE CITY OF GREENVILLE, STATE OF SOUTH CAROLINA**

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FIFTY MILLION AND 00/100** DOLLARS (\$ **50,000,000.00**) each, and the execution of such bonds or undertakings, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XVI - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer or other official of the company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the company by their signature and execution of any such instruments and to attach thereto the seal of the company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XVI, Section 5 of the By-laws, Assistant Secretary Gamet W. Elliott is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization above set forth are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this instrument has been subscribed by its authorized officer and the corporate seal of the said Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 6th day of June, 2001

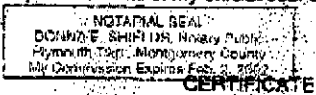
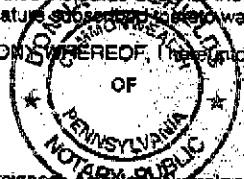
LIBERTY MUTUAL INSURANCE COMPANY

By Gamet W. Elliott  
Gamet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

On this 6th day of June, A.D. 2001, before me, a Notary Public, personally came the individual, known to me to be the therein described individual and officer of Liberty Mutual Insurance Company who executed the preceding instrument, and he acknowledged that he executed the same and that the seal affixed to the said preceding instrument is the corporate seal of said company, and that said corporate seal and his signature subscribed thereto was duly affixed and subscribed to the said instrument by authority and direction of the said company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affix my official seal at Plymouth Meeting, PA, the day and year first above written.



Anna E. Shields  
Notary Public

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate, and I do further certify that the officer who executed the said power of attorney was one of the officers specially authorized by the chairman or the president to appoint any attorney-in-fact as provided in Article XVI, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate may be signed by facsimile under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980:

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company wherever appearing upon a certified copy of any power of attorney issued by the company, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 11th day of

January



John J. [Signature]  
Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

# LIBERTY MUTUAL INSURANCE COMPANY

HEAD OFFICE, BOSTON, MASSACHUSETTS

### INCREASE RIDER

To be attached to and form a part of Bond Number 15009810, dated the 19TH day of APRIL, 1999, issued by Liberty Mutual Insurance Company (the "Surety") on behalf of **CWI OF FLORIDA, INC.**

(the "Principal")

in favor of **FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

(the "Obligee").

It is understood and agreed that the penal sum of the attached bond is hereby increased as follows:

	<u>FROM</u>	<u>TO</u>
CLOSURE:	\$544,285.87	\$555,171.59
LONG TERM CARE:	<u>\$402,808.36</u>	<u>\$410,864.53</u>
<b>TOTAL PENAL SUM OF BOND:</b>	<b>\$947,094.24</b>	<b>\$966,036.12</b>

said increase being applicable only as to acts or omissions occurring on or after the 9TH day of APRIL, 2001.

This change is effective the 9TH day of APRIL, 2001.

The attached bond shall be subject to all of its terms, conditions and limitations except as herein modified.

Signed, sealed and dated as of this 11TH day of JANUARY, 2002.

WITNESS / ATTEST:

CWI OF FLORIDA, INC.

\_\_\_\_\_

By: \_\_\_\_\_  
Name:

Title:

Sarah Beth Scott

LIBERTY MUTUAL INSURANCE COMPANY

By: Johanne S. Puckett  
**JOHANNE S. PUCKETT, ATTORNEY-IN-FACT**



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

818800

This Power of Attorney limits the act of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY  
BOSTON, MASSACHUSETTS

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts mutual insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint, **LEWIS S. KAY, JOHANNE S. PUCKETT, LINTON B. PUCKETT, CAROL M. OGBURN, ALL OF THE CITY OF GREENVILLE, STATE OF SOUTH CAROLINA**

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FIFTY MILLION AND 00/100** DOLLARS (\$ 50,000,000.00 ) each, and the execution of such bonds or undertakings, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XVI - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer or other official of the company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the company by their signature and execution of any such instruments and to attach thereto the seal of the company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XVI, Section 5 of the By-laws, Assistant Secretary Garnet W. Elliott is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization above set forth are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this instrument has been subscribed by its authorized officer and the corporate seal of the said Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 6th day of June 2001

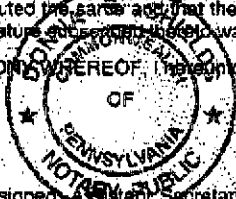
LIBERTY MUTUAL INSURANCE COMPANY

By Garnet W. Elliott  
Garnet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

On this 6th day of June, A.D. 2001, before me, a Notary Public, personally came the individual, known to me to be the therein described individual and officer of Liberty Mutual Insurance Company who executed the preceding instrument, and he acknowledged that he executed the same and that the seal affixed to the said preceding instrument is the corporate seal of said company; and that said corporate seal and his signature subscribed thereon were duly affixed and subscribed to the said instrument by authority and direction of the said company.

IN TESTIMONY WHEREOF, I have set my hand and affix my official seal at Plymouth Meeting, PA, the day and year first above written.



NOTARIAL SEAL  
DONNA E. SHIELDS, Notary Public  
Plymouth, Pa.; Montgomery County  
My Commission Expires Feb. 3, 2002  
CERTIFICATE

Donna E. Shields  
Notary Public

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer who executed the said power of attorney was one of the officers specially authorized by the chairman or the president to appoint any attorney-in-fact as provided in Article XVI, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate may be signed by facsimile under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company wherever appearing upon a certified copy of any power of attorney issued by the company, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 11th day of June

James J. Elliott  
Assistant Secretary



James J. Elliott  
Assistant Secretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER June 6, 2003

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.





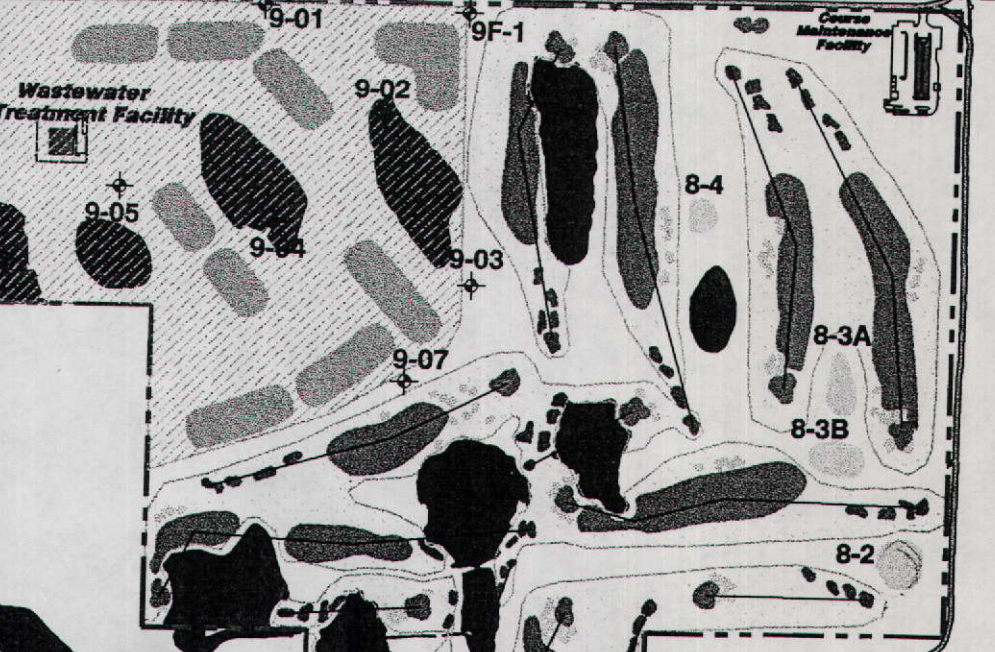
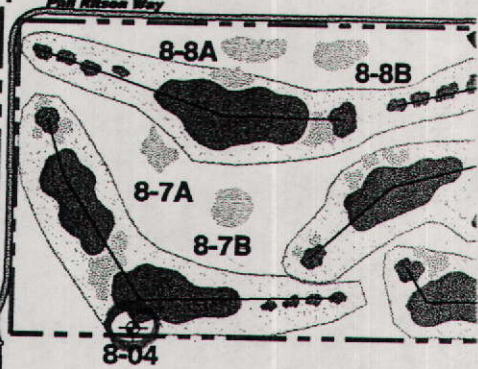
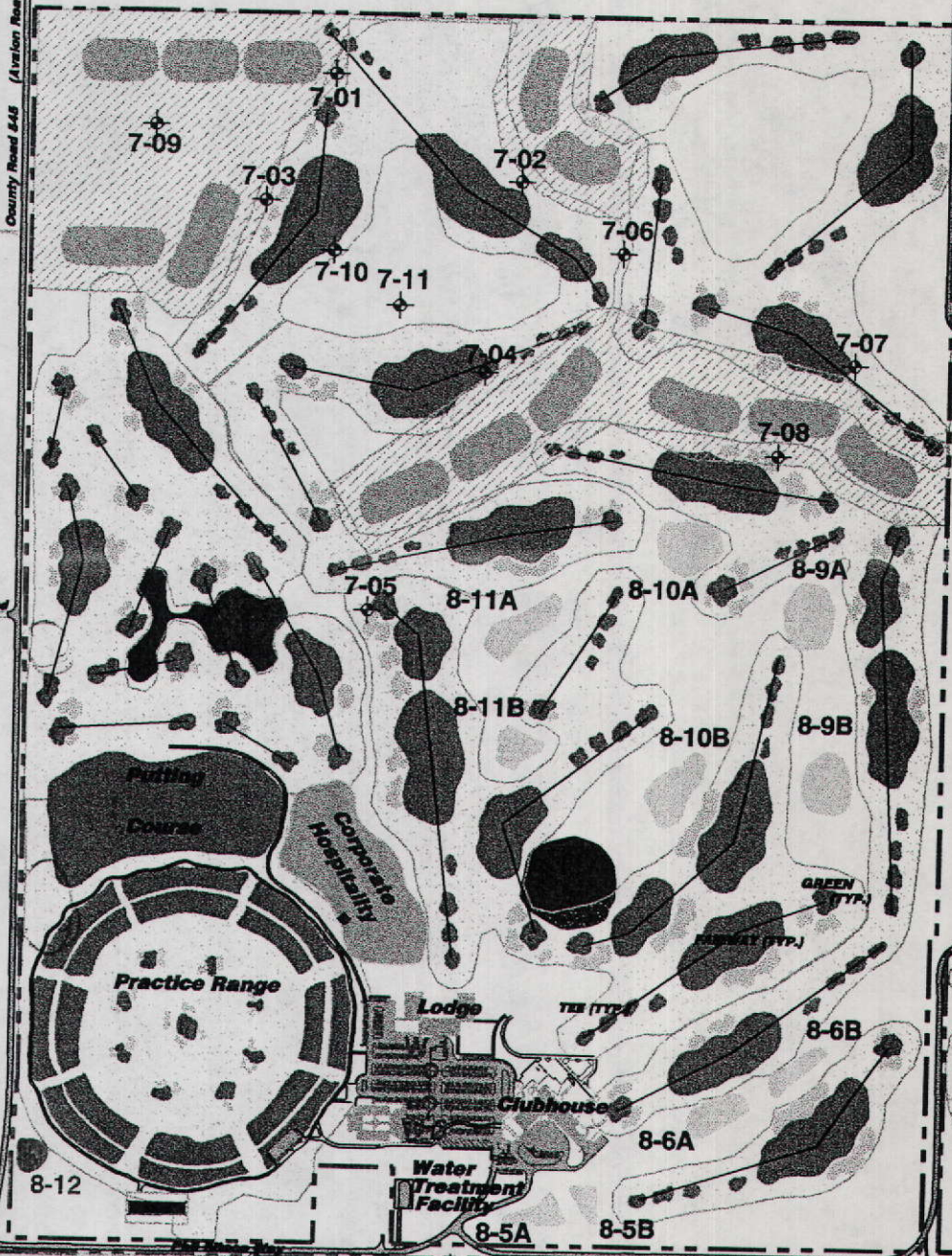
Scale: 1"

County Road 848 (Aviation Road)

Porter Road

Schofield Road

PHN Wilson Way



County Road 848 (Aviation Road)

**LEGE**

8-2 SITE 8 RIBs

CENTRAL DISTRICT

TO: File

FROM: Deborah Helle, P.G.

DATE: February 6, 2002

SUBJECT: Damaged Well at 545/CWI/Schofield

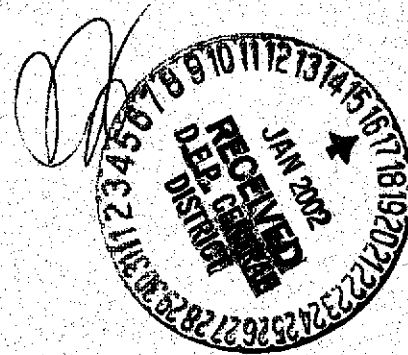
---

Jennifer Deal called to let us know that MW-6 was damaged and they are getting bids to replace it.

**545 LANDFILL**  
**C & D Recycling**

January 14, 2002

Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803



Mr. Jim McDonald, P.E.  
Supervisor, Waste Management  
Orange County Environmental Protection Division  
800 Mercy Drive, Suite 4  
Orlando, Florida 32808

**Subject: Biennial Groundwater Report**  
**545 C&D Landfill**  
**Orange County, Florida**  
**FDEP Permit No. SO48-0138152-001**  
**Orange County Permit No. 91-F13-4620**

Dear Messrs. Bradner and McDonald:

Republic Services of Florida, LP is pleased to submit the Biennial Groundwater Report for the 545 Landfill. The report summarizes the semi-annual groundwater sampling events from May 1999 to July 2001. Please call Jim Golden or Jennifer Deal of Hartman & Associates, Inc. (HAI) at (407) 839-3955 if you have any questions regarding the report.

Very truly yours,

545 Landfill

A handwritten signature in black ink that appears to read "Mark Hart".

Mark Hart  
General Manager

Attachments

cc: James E. Golden, P.G., HAI

**Qureshi, Saadia**

---

**From:** jld [jld@consulthai.com]  
**Sent:** Monday, January 14, 2002 8:32 AM  
**To:** Bradner, James  
**Cc:** Qureshi, Saadia; 'jim.mcdonald@ocfl.net'; 'mhart@gdi.net'  
**Subject:** Groundwater sampling at 545 Landfill

Jim,

We have tentatively scheduled the semi-annual groundwater sampling event at the 545 Landfill to begin on Monday, January 28, 2002. The sampling is expected to take three days. Please call me if you need further information.

Jennifer L. Deal, E.I.  
Hartman & Associates, Inc.  
201 E. Pine Street, Suite 1000  
Orlando, Florida 32801  
(407) 839-3955



Jeb Bush  
Governor

*Orange County SW*

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

January 5, 2001

Mr. Mark Hart  
Landfill Manager  
CWI of Florida, Inc.  
8050 Avalon Road  
Winter Garden, Florida 34787

RE: WACS 00025412 – CWI of Florida, Inc. - 545 Landfill

Dear Mr. Hart:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. Liberty Mutual Insurance Company Rider to Guarantee Bond number 15009810, effective June 15, 2000, adequately covers the inflation adjusted closure and long-term care cost estimates of \$544,285.87 and \$402,808.36, respectively. Therefore, CWI of Florida, Inc. - 545 Landfill is in compliance with the financial assurance requirements of 40 CFR Part 264, Subpart H, as adopted by reference in Rule 62-701.730, Florida Administrative Code, at this time.

If you have any questions, please contact me at (850) 488-0300.

Sincerely,

Tom J.M. Bejnar  
Planner  
Solid Waste Section

TB

cc: Jim Bradner, DEP/ORL  
Fred Wick, DEP/TLH

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

PRINCIPALS:

Gerald C. Hartman, PE, DEE  
Harold E. Schmidt, Jr., P.E., DEE  
James E. Christopher, PE.  
Charles W. Drake, P.G.  
Mark A. Rynning, P.E., MBA  
Mark I. Luke, P.S.M.  
William D. Musser, P.E.

SENIOR ASSOCIATES:

C. Zachary Fuller, P.E.  
Marco H. Rocca, C.M.C.  
Roderick K. Cashe, PE.  
Lawrence E. Jenkins, P.S.M.

ASSOCIATES:

Douglas P. Dufresne, P.G.  
Jon D. Fox, P.E.  
James E. Golden, P.G.  
Troy E. Layton, P.E.  
Andrew T. Woodcock, P.E.  
Grant C. Malchow, MBA  
John F. Toomey, P.E.  
W. Thomas Roberts, III, P.E.  
Michael B. Bomar, P.E.  
Mark A. Gabriel, P.E.  
George S. Flint, M.P.A.  
Jennifer L. Woodall, P.E.  
L. Todd Shaw, P.E.

December 10, 2001

HAI #96-271.08

File 14.4

**Via Certified Mail**

**Certified Number 7000 1670 0004 9399 2867**

Ms. Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Response to Comments, dated December 3, 2001  
545 C&D Landfill  
Orange County, Florida  
FDEP #SO48-0138152-001**



Dear Ms. De Pradine:

On behalf of 545 C&D Landfill, (545), Hartman & Associates, Inc. (HAI) is providing responses to your comments, dated December 3, 2001, regarding the September 2001 semi-annual groundwater monitoring report. Your comments are stated first with our responses following.

1. Acrylonitrile did not meet the minimum criteria limit of 10 µg/L.

**Response:** HAI will inform the laboratory that a reporting limit no higher than the minimum criteria of 1 µg/L must be achieved for this parameter on all future analyses.

2. Exceedances in nitrates and aluminum were noted in several of the wells. The explanation in the narrative stated that this was due to the fact that it was naturally occurring. However, no exceedance for either of these parameters were reported in the background wells. Please explain this inconsistency and the reason for not resampling these wells as required by your current MPIS.

**Response:** Nitrate has been consistently detected in 12 of the 14 monitor wells since the initial sampling event. The conclusion of the report explained that nitrate exceedances at wells along the east side of the site are most likely related to the Conserv II irrigation in those areas of the property. Conserv II water is known to contain nitrate and nitrogen at elevated levels, see attached Conserv II water quality analysis.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

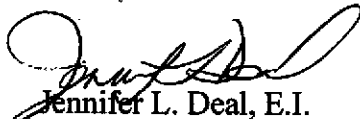
Aluminum has consistently been observed in monitor wells MW-1, MW-1C, MW-3, MW-4, and MW-6 above the State minimum criteria. One exceedance has been observed in background monitor well MW-2. Monitor well MW-6, though not listed as a background monitor well in the MPIS, has consistently intercepted groundwater flow upgradient of the landfill and has consistently exceeded the minimum criteria for this parameter for the past three sampling events. Additionally, it is possible for localized conditions to be observed at some monitor wells and not at others due to specific groundwater conditions. Low pH, which averaged 5.09 in the surficial aquifer at this site, will cause aluminum to leach from the subsurface soils and dissolve in the groundwater. Aluminum content in soil averages 71,000 parts per million (USEPA 1984).

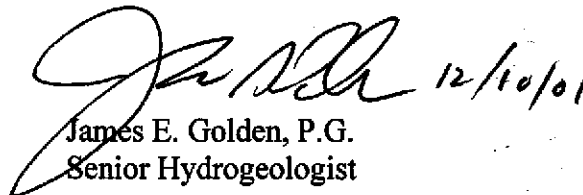
Resampling of the monitor wells for exceeded parameters is not required if it is believed that the analytical results are representative of existing conditions at the site. Based on the statements above, HAI did not feel that resampling was warranted.

Please call us if you have any questions or require further information.

Very truly yours,

**Hartman & Associates, Inc.**

  
Jennifer L. Deal, E.I.  
Engineer

 12/10/01  
James E. Golden, P.G.  
Senior Hydrogeologist

JEG/JLD/sas/96-271.08/corresp/DePradine.jeg

Attachments

cc: Mark Hart, 545 Landfill  
Russ Erickson, ENCO Laboratories

**WATER CONSERV II**  
**CITRUS IRRIGATION RECLAIMED WATER**  
**CONSTITUENT CONCENTRATIONS**

July 1999



CONSTITUENTS	MACL	February	March	April	May	June	July
Arsenic	0.10	<0.005	---	---	<0.005	---	---
Barium	1.0	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Beryllium	0.10	<0.004	---	---	<0.004	---	---
Bicarbonate (Alkalinity)	200	111	89	102	98	86	103
CBOD5 (Carb Biochemical Oxygen Demand)	30	4.2	2.9	2.8	2.9	2.2	4.3
Boron	1.0	0.189	0.232	0.189	0.176	0.190	0.167
Cadmium	0.01	0.0001	---	---	0.0003	---	---
Calcium	200	33.7	39.5	33.1	36.1	35.8	38.3
Chemical Oxygen Demand	120	20	17	31	17	23	25
Chloride	100	84	81	82	83	81	72
Chlorine *	10.0	1.9	1.6	1.9	1.7	---	---
Chromium	0.01	<0.005	---	---	<0.005	---	---
Cobalt	0.05	<0.010	---	---	<0.010	---	---
Copper	0.20	<0.010	<0.010	<0.010	<0.010	<0.010	0.012
ECW (umhos)	1100	652	643	646	633	631	659
Fecal Coliform (CFU/100ml)	<1	<1	<1	<1	<1	<1	<1
Iron	5.0	0.12	0.11	0.13	0.10	0.15	0.13
Lead	0.1	<0.003	---	---	0.003	---	---
Lithium	0.01	<0.01	---	---	0.01	---	---
Manganese	0.20	<0.030	<0.030	<0.030	<0.030	<0.030	0.045
Magnesium	25.0	7.0	---	---	7.6	---	---
Mercury	0.01	<0.0002	---	---	<0.0002	---	---
Nickel	0.20	<0.030	---	---	<0.030	---	---
Nitrite	---	0.244	0.078	0.347	0.191	0.701	1.664
Nitrate	---	7.53	8.08	7.43	8.26	7.57	4.48
Nitrogen (Total)	30	12.59	10.65	11.24	10.95	10.70	9.85
Phosphorus	10	2.36	2.82	2.47	2.19	2.27	2.93
pH	6.5-8.4	7.0	7.0	7.0	7.0	6.9	7.0
Potassium	30	12.5	12.9	12.4	10.9	11.5	9.9
Selenium	0.02	<0.005	---	---	<0.005	---	---
Silver	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sodium	70	53.6	54.4	59.7	51.6	56.0	52.9
Sulfate	100	40.0	37.0	39.0	38.0	39.0	33.0
Total Suspended Solids	5	<1	<1	<1	<1	<1	<1
Zinc	1.0	0.058	0.077	0.075	0.054	0.092	0.091

NOTES: 1. MACL - Maximum Average Concentration Limits  
 2. Limits in mg/l unless otherwise noted.

- - No results due to lab error

— Not sampled



SW-874  
April, 1983

**HAZARDOUS WASTE LAND TREATMENT**

Contract Nos. 68-03-2940  
68-03-2943

Project Officer  
Carlton Wiles  
Solid and Hazardous Waste Research Division  
Municipal Environmental Research Laboratory  
Cincinnati, Ohio 45268

MUNICIPAL ENVIRONMENTAL RESEARCH LABORATORY  
OFFICE OF RESEARCH AND DEVELOPMENT  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
CINCINNATI, OHIO 45268

include the linear, Freundlich, Langmuir, two-surface Langmuir and various kinetic sorption isotherms. The models provide a reasonably good basis for interpolation of metal sorption and are extensively reviewed by Travis and Etnier (1981) who include numerous references for a variety of metals. Bohn et al. (1979) discuss isotherm theory in detail. Sorption isotherm experiments may be included as part of laboratory analysis for treatment demonstration of metal immobilization.

The partitioning of metals between various chemical forms is a dynamic process, regulated by equilibrium reactions. The initial behavior of the metal after addition to the soil largely depends on the form in which it was added, which in turn, depends on its source. A complex set of chemical reactions, physical and chemical characteristics of the soil, and a number of biological processes acting within the soil govern the ultimate fate of metallic elements.

This section discusses the sources of metal enrichment to the environment as well as background soil and plant concentrations. The soil chemistry of each metal including solubility, metal species and soil conditions governing the predominant form of the metal are presented. Following a review of metal chemistry, the fate of each metal in the soil, whether bioaccumulated, sorbed by soil or waste constituents, or transported, is discussed. Finally, recommendations for metal loading are given based on accumulation in the soil and plant and animal toxicity. These recommendations are generally based on the accumulation of the element within the upper 15 cm (6 in) of soil, or "plow layer," which is estimated to be  $2 \times 10^6$  lb/acre or  $2.2 \times 10^6$  kg/ha. In developing the recommendations, consideration was given to the 20-year irrigation standards developed by the National Academy of Sciences and National Academy of Engineering (1972) which are based on the tolerance of sensitive plants, to metal chemistry, and to other sources of information on plant and animal toxicity. There are more data available on plant and animal toxicity to metal concentrations in the soil than on the ability of the soil to immobilize a given element. Consequently, treatability studies are generally needed to determine if adequate immobilization of metals is occurring in a given soil since the factors affecting immobilization are very site-specific.

#### 6.1.6.1 Aluminum (Al)

Hazardous wastes containing Al include paper coating pretreatment sludge and deinking sludge. It is one of the most abundant elements in soils, occurring at an average concentration of 71,000 ppm. \*

Aluminum exists in many forms in soil. There are several Al oxide and hydroxide minerals including  $\text{Al}(\text{OH})_3$  (amorphous, bayerite, and gibbsite) and  $\text{AlOOH}$  (diaspore and boehmite) (Lindsay, 1979). In soils with pH less than 5.0, exchangeable Al is found as the trivalent ion (Bohn et al., 1979). In an alkaline medium, Al is present as  $(\text{Al})\text{OH}_4^-$ . Aluminum in soil may be precipitated as Al phosphates; this reaction removes plant essential phosphate from the soil solution. Where the  $\text{NaOH}:\text{Al}$  ratio is

greater than 3:0, polymerization of Al and hydroxide ions may lead to the formation of crystalline Al hydroxide minerals (Hsu, 1977).

The most soluble form of Al found in most soils is  $\text{Al}(\text{OH})_3$  (amorphous) and other Al oxides are somewhat less soluble. At pH 4.06, 96 ppm soluble Al may be found in a particular soil solution, yet when the pH is raised to 7.23, the Al concentration in the same soil solution is reduced to zero (Pratt, 1966a). Aluminum is highly unstable in the normal pH range of soils and readily oxidizes to  $\text{Al}^{3+}$  (Lindsay, 1979).

There is no evidence that Al is essential to plants. Sensitivity to Al varies widely and some plants may be harmed by low concentrations of the element in the growing media (Table 6.22). Very sensitive plants whose growth is depressed by soil concentrations of 2 ppm Al include barley (Hordeum vulgare), beet (Beta vulgaris), lettuce (Lactuca sativa) and timothy (Phleum pratense). Tolerant plants depressed by 14 ppm Al are corn (Zea mays), redtop (Agrostis gigantea) and turnip (Brassica rapa). An interesting Al indicator plant is the hydrangea which produces blue flowers if Al is available in the growth medium and pink flowers if Al is not available (Pratt, 1966a).

There are some accumulator plants that can tolerate large amounts of Al. Accumulator plants that transport Al to above-ground parts include club moss, sweetleaf (Symplocos tinctoria), Australian silk oak, and hickory (Juncus sp.). Aluminum concentrations of 3.0-30 ppm have been reported for ash (Fraxinus sp.) and hickory (Pratt, 1966a).

Loehr et al. (1979b) state that Al poses relatively little hazard to animals. Cattle and sheep can tolerate dietary levels of 1000 ppm Al. Poultry, considered sensitive to the element, can tolerate dietary levels of 200 ppm Al (National Academy of Sciences, 1980).

Aluminum levels in sludge seldom limit application rates, particularly if the pH is maintained above 5.5 and the soil is well aerated (Loehr et al., 1979b). With proper pH management, large amounts of Al may be land applied.

#### 6.1.6.2 Antimony (Sb)

The major producers of hazardous wastes containing Sb are the paint formulation industry, textile mills, and organic chemical producers. Concentrations of Sb range from 0.5-5 ppm in coal and 30-107 ppm in petroleum, and urban air contains 0.05-0.06 ppm Sb (Overcash and Pal, 1979). The average concentration of Sb in plants is 0.06 ppm and the average range of Sb in dry soils is 2-10 ppm (Bowen, 1966).

Naturally occurring forms of Sb include Sb sulfides (stibinite) and Sb oxides (cervanite and valentinite). Antimony in soils usually occurs as  $\text{Sb}^{3+}$  or  $\text{Sb}^{5+}$  and is very strongly precipitated as  $\text{Sb}_2\text{O}_3$  or  $\text{Sb}_2\text{O}_5$  (Overcash and Pal, 1979).

# HARTMAN & ASSOCIATES, INC.

PRINCIPALS:

Gerald C. Hartman, PE, DEE  
Harold E. Schmidt, Jr., PE., DEE  
James E. Christopher, PE.  
Charles W. Drake, P.G.  
Mark A. Rynning, PE., MBA  
Mark I. Luke, P.S.M.  
William D. Musser, PE.

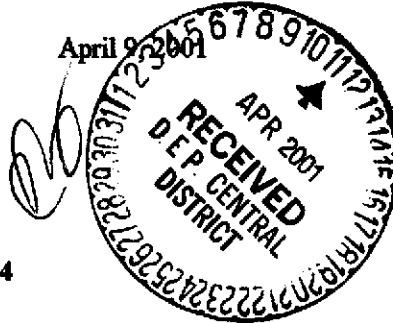
SENIOR ASSOCIATES:

C. Zachary Fuller, PE.  
Marco H. Rocca, C.M.C.  
J. Richard Voorhees, PE., DEE  
Roderick K. Cashe, PE.  
Lawrence E. Jenkins, P.S.M.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES:

Douglas P. Dufresne, P.G.  
Jon D. Fox, PE.  
James E. Golden, P.G.  
Troy E. Layton, PE.  
Andrew T. Woodcock, PE.  
Daryl C. Walk, PE.  
Grant C. Malchow, M.B.A.  
John F. Toomey, PE.  
W. Thomas Roberts, III, PE.  
Michael B. Bomar, PE.  
Mark A. Gabriel, PE.  
George S. Flint, M.P.A.  
Stephen J. Rapp, PE.  
Jennifer L. Woodall, PE.  
L. Todd Shaw, PE.



HAI #96-271.00  
File 19.0

**Via Certified Mail**

**Certified Number 7000 2870 0000 6084 6574**  
Mr. James N. Bradner, P.E.  
Solid and Hazardous Waste Program Manager  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: 545 C&D Landfill  
2001 Financial Assurance Update  
FDEP Permit SO48-0138152-001**

Dear Mr. Bradner:

On behalf of 545 Landfill, Inc. (545), Hartman & Associates, Inc. submits for your review, inflation adjusted closure and long term care cost estimates for the above referenced facility. The estimates are adjusted as follows.

	2000 Estimate	Inflation Factor	2001 Estimate
Closure cost	\$544,285.87	1.02	\$555,171.59
Long Term Care Cost	\$402,808.36	1.02	\$410,864.53
<b>Total</b>			<b>\$966,036.12</b>


545 will update the financial assurance mechanism upon notification of your approval.

We trust that this will satisfy the Department's financial assurance requirements. Please call us if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

  
Jennifer L. Deal, E.I.  
Engineer

  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

JEG/sas/96-271.00/corresp/Bradner.jld

cc: Mark Hart, 545  
Carol Ogburn, Willis  
Jim McDonald, P.E., OCEPD  
Tor Bejnar, FDEP, Tallahassee

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

## Qureshi, Saadia

---

**From:** jld [jld@consulthai.com]  
**Sent:** Monday, August 27, 2001 8:12 AM  
**To:** Qureshi, Saadia  
**Cc:** Depradine, Gloria; Bradner, James; 'jim.mcdonald@ocfl.net'  
**Subject:** Resampling at 545 Landfill

Saadia,

FYI--We will be resampling two wells at the 545 landfill today. Please call me if you need any additional information.

Jennifer

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

PRINCIPALS:

James B. Christopher, P.E.  
Charles W. Drake, P.G.  
Gerard C. Hartman, P.E.  
Mark I. Luke, P.S.M.  
Mark A. Rynning, P.E.  
Harold E. Schmidt, Jr. P.E.  
William D. Musser, P.E.

SENIOR ASSOCIATES:

C. Zachary Fuller, P.E.  
Marco H. Rocca, C.M.C.

November 21, 2000

HAI #96-271.00

Via Certified Mail

No. 7000 1670 0000 3796 1465

Mr. Frederick J. Wick  
Florida Department of Environmental Protection  
Solid Waste Financial Coordinator  
2600 Blair Stone Road  
MS-4565  
Tallahassee, Florida 32300-2400

**Subject: Financial Assurance  
545 C&D Landfill  
Winter Garden, Florida  
Permit No. SO48-0138152-001**

Dear Mr. Wick:

In response to a telephone call from Tor Bejnar, Hartman & Associates, Inc. (HAI) is submitting a clarification of the 2000 inflation adjusted closure and long term care cost estimates for the 545 C&D Landfill. The estimates were adjusted as follows.


	1999 Estimate	Inflation Factor	2000 Estimate
Closure Cost	\$536,242.24	1.015	\$544,285.87
Long Term Care Cost	\$396,855.53	1.015	\$402,808.36
<b>Total</b>			<b>\$947,094.23</b>


HAI submitted the original bond increase rider in the above amount to the FDEP, Tallahassee office, in correspondence dated November 3, 2000.

Please call us if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

  
Jennifer L. Deal  
Engineer III

  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

JLD/sas/96-271.00/corresp/Wick.jld

cc: Mark Hart, 545 Landfill  
James N. Bradner, P.E., FDEP Central District

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

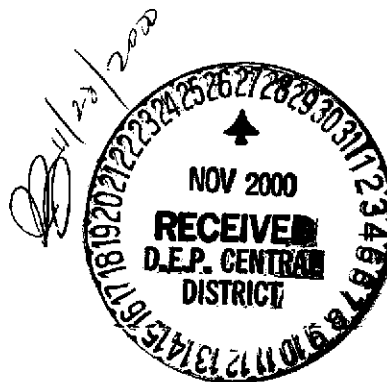
ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN

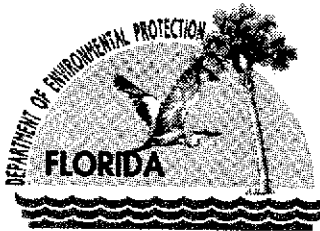
ASSOCIATES:

J. Richard Voorhees, P.E.  
Douglas P. Dufresne, P.G.  
Roderick K. Cashe, P.E.  
Jon D. Fox, P.E.  
James E. Golden, P.G.  
Troy E. Layton, P.E.  
Alicia E. Oller, M.S.  
Andrew T. Woodcock, P.E.  
Lawrence E. Jenkins, P.S.M.  
Daryl C. Walk, P.E.  
Grant C. Malchow, M.B.A.  
John P. Toomey, P.E.  
W. Thomas Roberts, III, P.E.  
Michael B. Bomar, P.E.

REGIONAL MANAGERS

Mark A. Gabriel, P.E.





Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400



David B. Struhs  
Secretary

September 28, 2001

Mr. Mark Hart  
Landfill Manager  
CWI of Florida, Inc.  
8050 Avalon Road  
Winter Garden, Florida 34787

RE: WACS 00025412 – CWI of Florida, Inc. - 545 Landfill C&D

Dear Mr. Hart:

A review of the financial assurance file for the above referenced facility reveals it is deficient. Specifically, Liberty Mutual Insurance Company guarantee bond number 15009810 does not demonstrate financial assurance in the amount of the latest inflation adjusted closing and long-term care cost estimates. Pursuant to 40 CFR Part 264, Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, whenever the cost estimates increase to an amount greater than the penal sum of the bond, within 60 days, you must either increase the penal sum to an amount at least equal to the current cost estimate, or provide alternate financial assurance.

Within thirty (30) days of the date of this letter, please demonstrate an increase in the penal sum of bond number 15009810 to an amount equal to the current cost estimates or provide alternate financial assurance.

If you have any questions, please contact me at (850) 488-0300.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FLH

cc: Jim Bradner, DEP/ORL  
Fred Wick, DEP/TLH

"More Protection, Less Process"

Visit our Web Site: <http://www.dep.state.fl.us/waste/categories/swfr/>  
Printed on recycled paper.



Jeb Bush  
Governor

# Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

David B. Struhs  
Secretary

Mark Hart  
Continental Waste Industries, Inc.  
8050 Avalon Road  
Winter Garden, FL 32787

OCD-SW-01-0369

Orange County - SW  
Continental Waste Industries, Inc. C&D Disposal Facility  
Groundwater Report Review

Dear Mr. Hart:

This letter is in regards to your recent groundwater report submittal for the above-mentioned facility. Upon review, the Department has the following comments:

1. Acrylonitrile did not meet the minimum criteria limit of 10 ug/l.
2. Exceedances in nitrates and aluminum were noted in several of the wells. The explanation in the narrative stated that this was due to the fact that it was naturally occurring. However, no exceedance for either of these parameters were reported in the background wells. Please explain this inconsistency and the reason for not resampling these wells as required by your current MPIS.

If you have any questions, feel free to contact Saadia Qureshi at (407) 893-3328.

Sincerely,

Gloria-Jean De Pradine  
Compliance and Enforcement Supervisor  
Solid Waste Section

Date 12/3/01

GD/sq  
Enclosure

"More Protection, Less Process"

Printed on recycled paper.



# RECORD OF TELEPHONE COMMUNICATION

PERSON CALLING: Jennifer Deal

PHONE: 407-839-3955

PERSON CONTACTED: James Bradner

PHONE: 407-893-3329

FILE/CASE NAME/#: CWI Rocket Blvd

COUNTY: Orange

TIME From: 11:05 am To: 11:10 am

DATE: 11/19/2001

## SUMMARY

Jennifer called to discuss the recent RAI letter and specifically the response to the leachate generation issue. CWI is in the process of obtaining a building permit for the permanent structure, and proposed to cover all waste with tarps during times of inclement weather and when the facility is closed. I approved verbally with the stipulation that construction proceeds promptly, and that covering of waste begin immediately. Jennifer agreed to notify the facility employees of the interim procedure today. She also said that the RAI response would be mailed this week.

## ACTION REQUIRED

CC: \_\_\_\_\_

SIGNED: 

DATE: 11/19/2001

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

**PRINCIPALS:**

Gerald C. Hartman, P.E., DEB  
Harold E. Schmidt, Jr., P.E., DEB  
James E. Christopher, P.E.  
Charles W. Drake, P.G.  
Mark A. Rynning, P.E., MBA  
Mark I. Luke, P.S. M.  
William D. Musser, P.E.

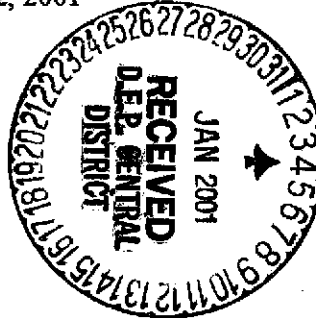
**SENIOR ASSOCIATES:**

C. Zachary Fuller, P.E.  
Marco H. Rocca, C.M.C.  
J. Richard Voorhees, P.E., DEE  
Roderick K. Cashe, P.E.  
Lawrence E. Jenkins, P.S.M.

**ASSOCIATES:**

Douglas P. Dufresne, P.G.  
Jon D. Fox, P.E.  
James E. Golden, P.G.  
Troy E. Layton, P.E.  
Andrew T. Woodcock, P.E.  
Daryl C. Walk, P.E.  
Grant C. Malchow, M.B.A.  
John P. Toomey, P.E.  
W. Thomas Roberts, III, P.E.  
Michael B. Bomar, P.E.  
Mark A. Gabriel, P.E.  
George S. Flint, M.P.A.  
Stephen J. Rapp, P.E.  
Jennifer L. Woodall, P.E.  
L. Todd Shaw, P.E.

January 2, 2001



HAI #96-271.08

Via Facsimile and U.S. Mail

Mr. Jim McDonald, P.E., Supervisor  
Orange County Environmental Protection Division  
Landfill Management  
800 Mercy Drive, Suite #4  
Orlando, Florida 32808

Mr. James E. Bradner, P.E.  
Program Manager, Solid Waste  
Florida Department of Environmental Protection  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

**Subject: Monitor Well Sampling  
545 C&D Landfill  
8050 Avalon Road  
Winter Garden, Florida 32787  
Permit No. 91-F13-4620  
FDEP I.D. No. S048-0138152-001**

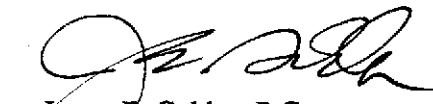
Dear Mssrs. McDonald and Bradner:

On behalf of 545 Landfill, Hartman & Associates, Inc. (HAI) is providing notice of the groundwater monitoring plan (GMP) implementation (condition No. 6) at the subject landfill. A total of fourteen (14) groundwater monitoring wells have been designated for water quality testing pursuant to the current permit. The days planned for sampling of all fourteen (14) monitor wells are January 23 through January 25, 2001.

Please call me if you have any questions.

Very truly yours,

**Hartman & Associates, Inc.**

  
James E. Golden, P.G.  
Senior Hydrogeologist/Associate

JEG/sas/96-271.08/corresp/McDonald-5.jeg.doc  
cc: Mark Hart, 545 Landfill

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN