

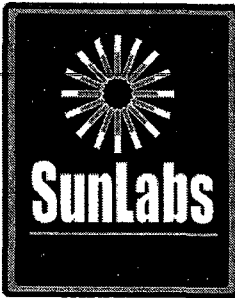
38414

REC'D 10/1/07

[ PART OF RESPONSES TO  
RA# FOR OPERATING  
PERMIT APPLICATION TO  
AUTHORIZE FILLING IN  
PHASE II, SECOND EXPANSION ]

**ATTACHMENT K**

**July 30, 2007 and August 2, 2007 Groundwater Sampling Event MW-10, MW-11 and MW-12 Missing Metals  
and  
Groundwater Sampling Log and Field Instrument Calibration Records**



August 7, 2007

Donna Cline  
Nodarse & Associates, Inc.  
504 East Tyler Street  
Tampa, FL 33602

Re: SunLabs Project Number: **070802.08**  
Client Project Description: **Hardee Co Landfill**

Dear Ms. Cline:

Enclosed is the report of laboratory analysis for the following samples:

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Collected</u>
53856	MW-12	8/2/2007
53857	MW-10	8/2/2007
53858	MW-11	7/30/2007

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer  
Vice President, Laboratory Operations

Enclosures

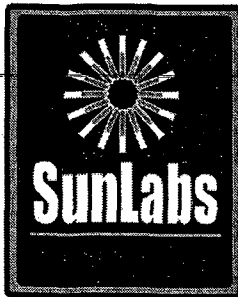
SunLabs, Inc.  
5460 Beaumont Center Blvd., Suite 520  
Tampa, FL 33634

Cover Page 1 of 1

Unless Otherwise Noted and Where Applicable:

Phone: (813) 881-9401  
Email: [info@SunLabsInc.com](mailto:info@SunLabsInc.com)  
Website: [www.SunLabsInc.com](http://www.SunLabsInc.com)

These samples were received at the proper temperature and were analyzed as received. The results herein relate only to the items tested or to the samples as received by the laboratory. This report shall not be reproduced except in full, without the written approval of the laboratory. Results for all solid matrices are reported on a dry weight basis. All samples will be disposed of within 45 days of the date of receipt of the samples. All samples in the body of the report are environmental samples. All results in the Quality Control (QC) section are labeled appropriately. All results meet the requirements of the NELAP standards. Footnotes are given at the end of the report. Uncertainty values are available upon request.



# Report of Laboratory Analysis

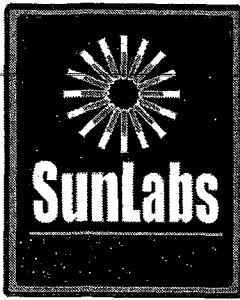
SunLabs Project Number	Nodarse & Associates, Inc.
070802.08	Project Description
	Hardee Co Landfill

August 7, 2007

SunLabs Sample Number **53857**  
 Sample Designation **MW-10**

Matrix Groundwater  
 Date Collected 8/2/2007 11:10  
 Date Received 8/2/2007 13:45

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		8/3/2007						08/03/07 08:00
Antimony	6010	mg/L	0.0034 U	1	0.0034	0.014	7440-36-0	08/06/07 15:01	08/03/07 08:00
Beryllium	6010	mg/L	0.0022 U	1	0.0022	0.0088	7440-41-7	08/06/07 15:01	08/03/07 08:00
Iron	6010	mg/L	0.28 V	1	0.0023	0.0092	7439-89-6	08/03/07 16:23	08/03/07 08:00
Sodium	6010	mg/L	10	1	0.011	0.044	7440-23-5	08/06/07 11:22	08/03/07 08:00
Thallium	6010	mg/L	0.0014 U	1	0.0014	0.0028	7440-28-0	08/06/07 15:01	08/03/07 08:00



# Report of Laboratory Analysis

SunLabs  
Project Number  
**070802.08**

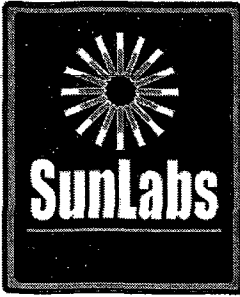
Nodarse & Associates, Inc.  
Project Description  
**Hardee Co Landfill**

August 7, 2007

SunLabs Sample Number **53858**  
Sample Designation **MW-11**

Matrix Groundwater  
Date Collected 7/30/2007 13:00  
Date Received 7/31/2007 09:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		8/3/2007						08/03/07 08:00
Antimony	6010	mg/L	0.0034 U	1	0.0034	0.014	7440-36-0	08/06/07 15:04	08/03/07 08:00
Beryllium	6010	mg/L	0.0022 U	1	0.0022	0.0088	7440-41-7	08/06/07 15:04	08/03/07 08:00
Iron	6010	mg/L	2.1 V	1	0.0023	0.0092	7439-89-6	08/03/07 16:25	08/03/07 08:00
Sodium	6010	mg/L	12	1	0.011	0.044	7440-23-5	08/06/07 11:24	08/03/07 08:00
Thallium	6010	mg/L	0.0014 U	1	0.0014	0.0028	7440-28-0	08/06/07 15:04	08/03/07 08:00



# Report of Laboratory Analysis

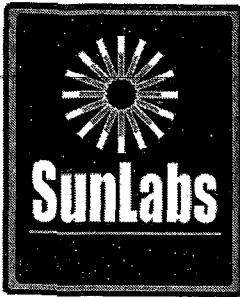
SunLabs Project Number	Nodarse & Associates, Inc.
<b>070802.08</b>	Project Description
	<b>Hardee Co Landfill</b>

August 7, 2007

SunLabs Sample Number **53856**  
 Sample Designation **MW-12**

Matrix Groundwater  
 Date Collected 8/2/2007 09:42  
 Date Received 8/2/2007 13:45

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		8/3/2007						08/03/07 08:00
Antimony	6010	mg/L	0.0034 U	1	0.0034	0.014	7440-36-0	08/06/07 14:58	08/03/07 08:00
Beryllium	6010	mg/L	0.0022 U	1	0.0022	0.0088	7440-41-7	08/06/07 14:58	08/03/07 08:00
Iron	6010	mg/L	0.12 V	1	0.0023	0.0092	7439-89-6	08/03/07 16:20	08/03/07 08:00
Sodium	6010	mg/L	5.0	1	0.011	0.044	7440-23-5	08/06/07 11:20	08/03/07 08:00
Thallium	6010	mg/L	0.0014 U	1	0.0014	0.0028	7440-28-0	08/06/07 14:58	08/03/07 08:00



# Report of Laboratory Analysis

SunLabs  
Project Number

**070802.08**

**Nodarse & Associates, Inc.**

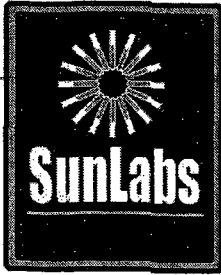
Project Description

**Hardee Co Landfill**

August 7, 2007

## Footnotes

- \** SunLabs is not currently NELAC certified for this analyte.
- I* The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- LCS* Laboratory Control Sample
- LCSD* Laboratory Control Sample Duplicate
- MB* Method Blank
- MS* Matrix Spike
- MSD* Matrix Spike Duplicate
- NA* Sample not analyzed at client's request.
- RPD* Relative Percent Difference
- U* The analyte was not detected at or above the reported detection limit.
- V* Indicates that the analyte was detected in both the sample and the associated method blank.



# Quality Control Data

Project Number	Nodarse & Associates, Inc.
070802.08	Project Description
	Hardee Co Landfill

August 7, 2007

Batch No: C1996  
 TestCode: 6010-L

Associated Samples  
 53856, 53857, 53858

Compound	Blank	LCS Spike	LCS %Rec	LCS D %Rec	RPD %	--QC Limits-- RPD LCS		MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD MS		Dup RPD	Qualifiers
Parent Sample Number								53856	53856						
Date Digested	8/3/07	1000	1/3/07	1/3/07	0			1000	1/3/07	1/3/07	0				
Antimony	0.0034 U	1000	94	95	1	5	89-114	1000	100	98	2	6	87-108		
Beryllium	0.0022 U	1000	99	106	7*	6	92-114	1000	109	111	2	15	84-114		
Iron	0.0055 I	1000	101	102	1	20	80-126	1000	110	111	1	55	0-289		
Sodium	0.011 U	1000	101	97	4	6	89-114	1000	99	98	1	14	72-125		
Thallium	0.0014 U	1000	94	99	5	7	88-108	1000	102	101	1	10	78-107		

\* indicates value is outside control limits for %Recovery or greater than acceptance criteria for RP

### Footnotes

U The analyte was not detected at or above the reported detection limit.

No 13897

SunLabs, Inc. Chain of Custody

SunLabs Project # 070802-08

Client Name: NOODSE ASSOC.  
 Contact: DONALD CLINE P.E.  
 Address: 504 E. TAVER ST  
TAMPA FLA 33602  
 Phone / Fax: 813-881-1221-0051  
 E-Mail: DONALD.C@NOODSE.COM

Project Name: HARVEE CO LAUREL  
 Project #: 04-07-0048-201A  
 PO #:  
 Alt Bill To:

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	Analysis / Method Requested			
					GA	PE	IS	GW
53854	MW-12	8-20-07	0942	3	X	X	X	X
53857	MW-12	8-2-07	0542	1	X	X	X	X
	MW-10	8-2-07	1110	3	X	X	X	X
	MW-10	8-20-07	1110	1	X	X	X	X

Due Date Requested:

FDEP PreApproval site  
 Current rates  Old rates

Remarks / Comments:

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Printed Name / Affiliation: JOHN HUNT / NOODSE ASSOC.

Relinquished By: <u>[Signature]</u>	Date: <u>8/2/07</u>	Time: <u>1345</u>
Relinquished To:	Date:	Time:
Relinquished By:	Date:	Time:
Relinquished To:	Date:	Time:
Relinquished By:	Date:	Time:
Relinquished To:	Date:	Time:

**Bottle Type Codes:**  
 GV = Glass Vial  
 GA = Glass Amber  
 P = Plastic  
 S = Soil Jar

**Preservative Codes:**  
 H = Hydrochloric Acid + Ice  
 I = Ice only  
 N = Nitric Acid + Ice  
 S = Sulfuric Acid + Ice  
 VS = MeOH, OPW, + Ice  
 O = Other (Specify)

**Internal Use Only**  
**Sample Condition Upon Receipt:**  
 Custody Seals present? Y/N/NA  
 Shipping Blis attached? Y/N/NA  
 Sample containers intact? Y/N/NA  
 Samples within holding times? Y/N/NA  
 Sufficient volume for all analyses? Y/N/NA  
 Vials head-space free? Y/N/NA  
 Proper containers and preservatives? Y/N/NA

**Matrix Codes:**  
 A = Air  
 DW = Drinking Water  
 GW = Ground Water  
 SE = Sediment  
 SO = Soil  
 SOL = Solid  
 SW = Surface Water  
 W = Water (Blanks)  
 O = Other (Specify)

Temp: 10.0°C on ice  
 Received on ice? Y N / NA

**SunLabs, Inc.**  
 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634  
 Phone: 813-881-9401 / Fax: 813-354-4661  
 e-mail: info@SunLabsInc.com www.SunLabsInc.com



**№ 12866**

**SunLabs, Inc. Chain of Custody**

Client Name: NODARSE & ASSOC.  
 Contact: DAWA CLINE P.E.  
 Address: 504 E TYLER ST  
TAMPA, FLA 33602  
 Phone / Fax: 813-881-9401 / 813-354-4661  
 E-Mail: DAWA.C@NODARSE.COM

SunLabs Project # 070802.08

Project Name: HARDEE CO LANDFILL  
 Project #: 04-07-0048-2A  
 PO #:  
 Alt Bill To:

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	Analysis / Method Requested
<del>53858</del>	<del>MW-11</del>	<del>7-30-07</del>	<del>1500</del>	<del>3</del>	<del>SW (GW)</del>
<del>53859</del>	<del>MW-11</del>	<del>7-30-07</del>	<del>1500</del>	<del>1</del>	<del>SW (GW)</del>
<del>53860</del>	<del>MW-12</del>	<del>7-30-07</del>	<del>1617</del>	<del>3</del>	<del>SW (GW)</del>
<del>53861</del>	<del>MW-12</del>	<del>7-30-07</del>	<del>1617</del>	<del>1</del>	<del>SW (GW)</del>

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

FDEP PreApproval site  
 Current rates  Old rates

Remarks / Comments:  
 Hold SVIX analyses  
 Metal analyses:  
 Antimony  
 beryllium  
 Iron  
 sodium  
 thallium

Sampler Signature / Date: [Signature] / 7-30-07

Printed Name / Affiliation: JOHN HUNT / NODARSE

Relinquished By: [Signature] Date: 7/30/07 Time: 0800

Relinquished To: DA Palmer Date: 7/31/07 Time: 0915

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished To: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished To: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp: 21°C

Received on Ice? (X) N / NA

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

**SunLabs, Inc.**  
 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634  
 Phone: 813-881-9401 / Fax: 813-354-4661  
 e-mail: info@SunLabsInc.com www.SunLabsInc.com





DEP-SOP-001/01  
Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: Hardee County Landfill		SITE LOCATION: Airport Road, Wauchula, Hardee County, FL	
WELL NO: MW-12	SAMPLE ID: MW-12	DATE: 08/02/07	

**PURGING DATA**

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: -2 feet to -17 feet	STATIC DEPTH TO WATER (feet): 7.99	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = ( 20.0 feet - 7.99 feet ) X 0.16 gallons/foot = 1.9 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet ) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.0'	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0954	TOTAL VOLUME PURGED (gallons): 3.9							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0930	2.5	2.5	0.09	8.01	6.99	28.1	138.3	3.91/50.2%	19.1	YELLOW	NONE
0935	0.5	3.0	0.09	8.01	7.00	28.2	138.9	3.87/49.9	19.0	YELLOW	NONE
0940	0.3	3.3	0.09	8.00	7.00	28.1	140.1	3.86/49.7	19.3	YELLOW	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: JAMES HEUST / NODDENSE			SAMPLER(S) SIGNATURES: [Signature]			SAMPLING INITIATED AT: 0942		SAMPLING ENDED AT: 0954		
PUMP OR TUBING DEPTH IN WELL (feet): 14.0'			SAMPLE PUMP FLOW RATE (mL per minute):			TUBING MATERIAL CODE: PE/SI				
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N			FIELD-FILTERED: <input checked="" type="checkbox"/> Y			FILTER SIZE: _____ µm		DUPLICATE: <input checked="" type="checkbox"/> Y		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-12	1	PE	275 mL	HNO <sub>3</sub>	--	Pre-preserved	antimony, beryllium, iron, sodium, thallium		APP	
	3	AG	1 L	none	--	--	SVOCs		APP	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)										

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

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

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

Revision Date: February 1, 2004







