FILE

TETRA TECH HAI

March 23, 2006

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 24 2006
SOUTHWEST DISTRICT TAMPA

Via UPS Overnight

Ms. Susan J. Pelz, P.E. 4/25
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

Subject: Confining Material Verification, Cell 14 West Side Slope
Enterprise Recycling & Disposal Facility
FDEP Permit No. 177982-001-SC/MM
Specific Condition No. 5) a) 1) & Attachment 1
Pasco County, Florida

Tt HAI # 98.0104.023, File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's) and consistent with our recent discussions, Tetra Tech HAI (Tt HAI) is submitting this summary of field borings completed on March 7, 2006 at the above facility. More specifically, the borings were performed on the west side slope of Cell 14 in the location where limestone fragments were encountered in heavy clay during construction of Cell 14 as part of the temporary stormwater pond.

During this construction, Angelo's excavated the area where the limestone fragments were found and placed back at least three feet of compacted clay obtained from on-site stockpiled confining material. As discussed with the Department on February 28, 2006, Tt HAI's professional geologist was to perform borings in this area with a hand auger to confirm the presence of confining material.

Tt HAI's professional geologist completed five borings to a depth of three feet in this location. At boring location AB-3, one small limestone fragment (2-3 inches in diameter) was found. The boring was moved approximately 1-foot from the original location to check for additional fragments. No additional fragments were found in any of the borings and we believe the one fragment found to be incidental and of no consequence.

Boring logs and a survey of the locations are attached for your review. Based on the surveyed locations, the area where limestone fragments were encountered is west of the designed pond slope, above the elevation of the temporary pond (top of bank of the temporary pond is 80 ft, NGVD).

201 East Pine Street, Suite 1000, Orlando, FL 32801
Tel 407.839.3955 Fax 407.839.3790
www.tetratech.com

Based upon our discussions, it is my understanding that the Department will accept the foregoing as compliant with the certification requirements of Specific Condition No. 5) a) 1) and Attachment 1 of FDEP Permit No. 177982-001-SC/MM.

Please call me if you have any questions.

Very truly yours,

Tetra Tech HAI

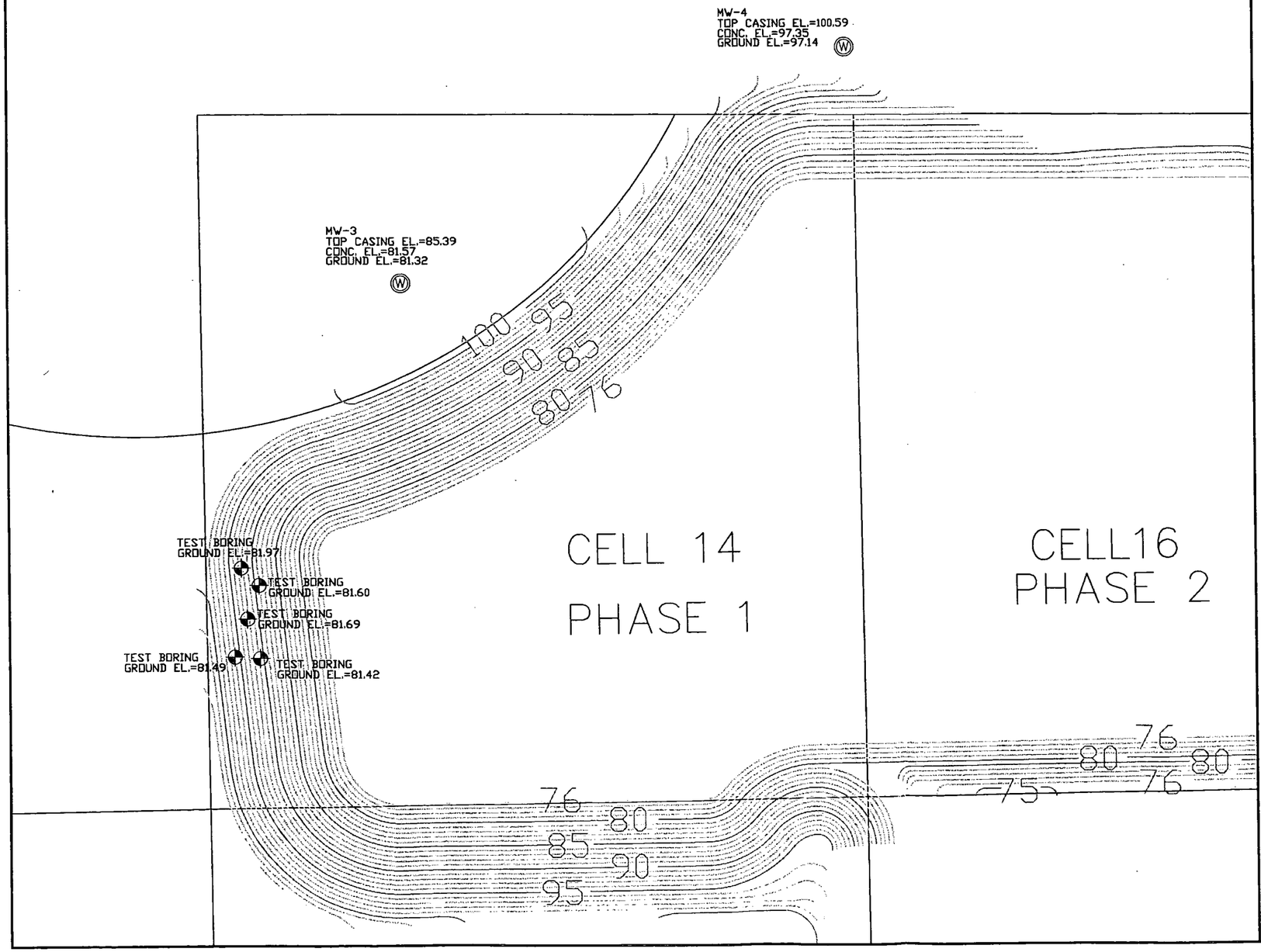
3-23-06

Miguel Garcia, P.G.
Project Hydrogeologist

MAG/sma/98.0104.023/corresp/pelz-2.jld.doc

cc: Jeff Rogers, Angelo's
Joe Polito

CELL 14 WELL & TEST LOCATIONS



SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA

GRAPHIC SCALE

0 50 100

(IN FEET)

1 inch = 100 ft.

ASBUILT SURVEY

NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper LB 5776

© FORESIGHT
SURVEYORS, INC.
1277 KASS CIRCLE
SPRING HILL, FLORIDA 34606
PH. (352) 597-8886 / FAX. (352) 684-6052

FILE	CERTIFIED AS TO SURVEY	SCALE 1"=100'
DRAWN ARM		FIELD DATE 03/08/06
CHECKED	DATE 3-21-06	PROJECT # 23196

JOHN A. NEAD, P.S.M.
Fla. Surveyor Reg'n No. 5070

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE • DESTIN

FIELD BORING LOG

MONITOR

AB-1 | 1 of 1

DEPTH (FT)	SAMPLE NO/TYPE	SAMPLE SYMBOL	SAMPLE % REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS
							CLAYEY-SAND, LIGHT GRY & DARK ORANGE, FINE TO SILT, VERY FIRM, 0-1'		
1									
							SILTY, CLAYEY-SAND, ORANGE TO DARK ORANGE, FINE TO SILT, VERY FIRM TO FIRM. 1-3'		
2									
									FILLED W CEMENTED SANDSTONE @ 2.5'
3							EOB @ 3'		
0									
5									
0									

PROJECT

NAME: ENTER PROJECT LE

CLIENT: ANGELO'S

LOCATION: DADE CITY, F

BORING

GR. ELEV:

DIA-TYPE: 3.5" BUCKET AUGER

DEPTH: 3'

DATE STARTED: 3-7-06

DATE ENDED: 3-7-06

GROUNDWATER

DEPTH:

TIME:

DATE:

REMARKS:

DRILLING

RIG TYPE: -

CREW: -

SUPERVISOR: -

PIEZ/WELL

CASING DIAM:

CASING TYPE:

CASING DEPTH:

SCREEN DEPTH:

SCREEN LENGTH:

FILTER PACK:

RISER HEIGHT ALS:

T.O.C. ELEV:

REMARKS

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE • DESTIN

FIELD BORING LOG

MBAM CIA

AB3-2 | 1 of 1

DEPTH (FT)	SAMPLE NO/TYPE	SAMPLE SYMBOL	SAMPLE % REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS
1							CLAYEY-SAND, ORANGE & LIGHT GRAY (MOTTLED) FINE TO SILT, VERY FIRM. 0'-1'		
2							SILTY-CLAYEY-SAND, DARK TO LIGHT ORANGE & GRAY (MOTTLED), FINE TO SILT, VERY FIRM TO FIRM, 1'-1.5'		
3							SANDY-CLAY, GRAY & DK. ORANGE, MINOR TO MOD. FINE TO SILT GRAIN, EXTREMELY FIRM. 1.5-3'		
0							EOB @ 3'		
5									
0									

PROJECT

NAME: ENTERPRISE LF

CLIENT: ANGELO'S

LOCATION: DADE CITY, FL

BORING

GR. ELEV:

DIA-TYPE: 3.5" - BA

DEPTH: 3-7-06

DATE STARTED: 3'

DATE ENDED: 3-7-06

GROUNDWATER

DEPTH:

TIME:

DATE:

REMARKS:

DRILLING

RIG TYPE:

CREW:

SUPERVISOR:

PIEZ/WELL

CASING DIAM:

CASING TYPE:

CASING DEPTH:

SCREEN DEPTH:

SCREEN LENGTH:

FILTER PACK:

RISER HEIGHT ALS:

T.O.C. ELEV:

REMARKS

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE • DESTIN

FIELD BORING LOG

MGARCIA

AB-3 | 1 of 1

DEPTH (FT)	SAMPLE NO/TYPE	SAMPLE SYMBOL	SAMPLE % REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS
1.5							SILTY-CLAYEY SAND, DARK ORANGE & LIGHT GRAY (MOTTLED) FINE TO SILT, MOD. CLAY, FIRM TO V. FIRM. 0-1.75'		
3.0							SANDY-CLAY, LIGHT GRAY ORANGE (MOTTLED), LOW TO MINOR SAND, FINE GRAIN, MAJOR CLAY, V. FIRM. 1.75'-2.5'	#	SMALL LS FRAG. 2.0'
3.0							SILTY-CLAYEY-SAND, DARK ORANGE + GRAY (MOTTLED) FINE TO SILT, MOD. TO HIGH CLAY, FIRM TO V. FIRM. 2.5-3.0'		IRON CEMENTED SANDSTONE @ 2.75' BLS
0							EOB @ 3'		
5									
0									

PROJECT

NAME: ENTERPRISE LF

CLIENT: ANGELO'S

LOCATION: DADE CITY, FL

BORING

GR. ELEV:

DIA-TYPE: 3.5" - BA

DEPTH: 3'

DATE STARTED: 3-7-06

DATE ENDED: 3-7-06

GROUNDWATER

DEPTH:

TIME:

DATE:

REMARKS:

DRILLING

RIG TYPE:

CREW:

SUPERVISOR:

PIEZWELL

CASING DIAM:

CASING TYPE:

CASING DEPTH:

SCREEN DEPTH:

SCREEN LENGTH:

FILTER PACK:

RISER HEIGHT ALS:

T.O.C. ELEV:

REMARKS

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE • DESTIN

FIELD BORING LOG

MARCIA

AB-4 | 1 of 1

DEPTH (FT)	SAMPLE NO/TYPE	SAMPLE SYMBOL	SAMPLE % REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS
1							CLAYEY - SAND, DARK ORANGE, MED. TO SILT, MOD. CLAY, FIRM, 0'-1.5'		
2							SANDY - CLAY, LIGHT GRAY & ORANGE (MOTTLED), LOW SAND CONTENT, VERY FIRM, 1.5 - 2.5'		
3							SILTY - CLAYEY - SAND, DARK ORANGE, FINE TO SILT, FIRM TO V. FIRM, HIGH CLAY. 2.5' - 3.0'		
0							EOB @ 3.0		
5									
0									

PROJECT

NAME: ENTERPRISE RF

CLIENT: ANGELO'S

LOCATION: DADE CITY, F

BORING

GR. ELEV:

DIA-TYPE: 3.5" - BA

DEPTH: 3'

DATE STARTED: 3-7-96

DATE ENDED: 3-7-96

GROUNDWATER

DEPTH:

TIME:

DATE:

REMARKS:

DRILLING

RIG TYPE:

CREW:

SUPERVISOR:

PIEZ/WELL

CASING DIAM:

CASING TYPE:

CASING DEPTH:

SCREEN DEPTH:

SCREEN LENGTH:

FILTER PACK:

RISER HEIGHT ALS:

T.O.C. ELEV:

REMARKS

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE • DESTIN

FIELD BORING LOG

MONITOR WELL | AD-5 | 1 of 1

DEPTH (FT)	SAMPLE NO/TYPE	SAMPLE SYMBOL	SAMPLE % REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS
1							CLAYEY-SAND, ORANGE & LIGHT GRAY (MOTTLED), FINE TO SILT, V. FIRM, 0'-0.5'		
							SANDY-CLAY, LIGHT GRAY & ORANGE (MOTTLED), FINE		
2							TO SILT, HIGH CLAY, LOW SAND, 0.5' - 1.75'		
							SILTY-CLAYEY-SAND, ORANGE & GRAY (MOTTLED), FINE		
3							TO SILT, VERY FIRM, HIGH SAND. 1.75' - 3.0'		
							EOB @ 3.0'		
0									
5									
0									

PROJECT
NAME: ENTERPRISE LF
CLIENT: ANGELO'S
LOCATION: DADE CITY, FL

BORING
GR. ELEV:
DIA-TYPE: 3.5" - BA
DEPTH: 3'
DATE STARTED: 3-7-96
DATE ENDED: 3-7-96

GROUNDWATER
DEPTH:
TIME:
DATE:
REMARKS:

DRILLING
RIG TYPE:
CREW:
SUPERVISOR:

PIEZ/WELL
CASING DIAM:
CASING TYPE:
CASING DEPTH:
SCREEN DEPTH:
SCREEN LENGTH:
FILTER PACK:
RISER HEIGHT ALS:
T.O.C. ELEV:

REMARKS

TETRA TECH HAI

Mark A. Rynning, P.E., M.B.A.
James E. Christopher, P.E.
Charles W. Drake, P.G.
William D. Musser, P.E., P.H.
Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, P.E.
Douglas P. Dufresne, P.G.
Jon D. Fox, P.E.
Daniel M. Nelson, P.E.

Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, 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
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
James R. Warner, P.E.

December 9, 2005

Via UPS Ground

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: **Response to Comments, dated December 5, 2005**
Enterprise Recycling & Disposal Facility
FDEP Permit No. 177982-001-SC, 177982-002-SO
Pasco County, Florida

Tt HAI #99.0331.023, File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is submitting this response to your comments, dated December 5, 2005, regarding the certification of the confining layer for Cell 14 at the above facility. Your comments are stated first with our responses following.

Comment 1: Please provide a figure that shows the locations of permeability retests # RT-1, RT-2, and RT-3.

Response: The retest locations were performed in the locations of the original permeability tests. The locations are summarized in the following table.

Retest #	Original Test #	Location
RT-1	2-4	2-4 / 2059
RT-2	3-3	3-3 / 2064
RT-3	3-4	3-4 / 2065

The test locations are listed on the Test Results sheet, Report No. PW #1. The original locations were indicated on the figures previously provided by Universal Engineering Sciences.

Comment 2: Photos # 4, 6F, and 7G (attached for reference) appear to show a white material in a layer in the background, being dumped into the cell as part of the construction, and at the permeability location stake. Please clarify what this White/gray material is. In the event that limestone was encountered during construction, please provide a figure that delineates the extent of the limestone encountered.

201 East Pine Street, Suite 1000, Orlando, FL 32801
Tel 407.839.3955 Fax 407.839.3790
www.tetratech.com

Response: The white/gray material being dumped into Cell 14 for construction and at the permeability location stake is confining material (white/gray clay material). The white/gray material in the background of the photos is limestone fragments and white clay. A small area of limestone was encountered on the west side slope of Cell 14 during excavation.

During the previous construction permit modification for this facility, Angelo's voluntarily agreed to a condition requiring the construction of a three-foot thick confining layer at the base of each landfill cell. Angelo's did not realize that the condition requiring Department notification upon finding limestone during construction was still included in the permit, as they assumed this condition was removed and replaced with the above mentioned confining layer condition. As a result, Angelo's did not notify Tt HAI or the Department of this finding. This was a misunderstanding on the part of Angelo's. Please see the attached map, provided by Angelo's, indicating the area where limestone was encountered.

Since the modified construction permit requires construction of the three-foot confining layer, Angelo's requests to revise the construction permit to remove the notification requirement.

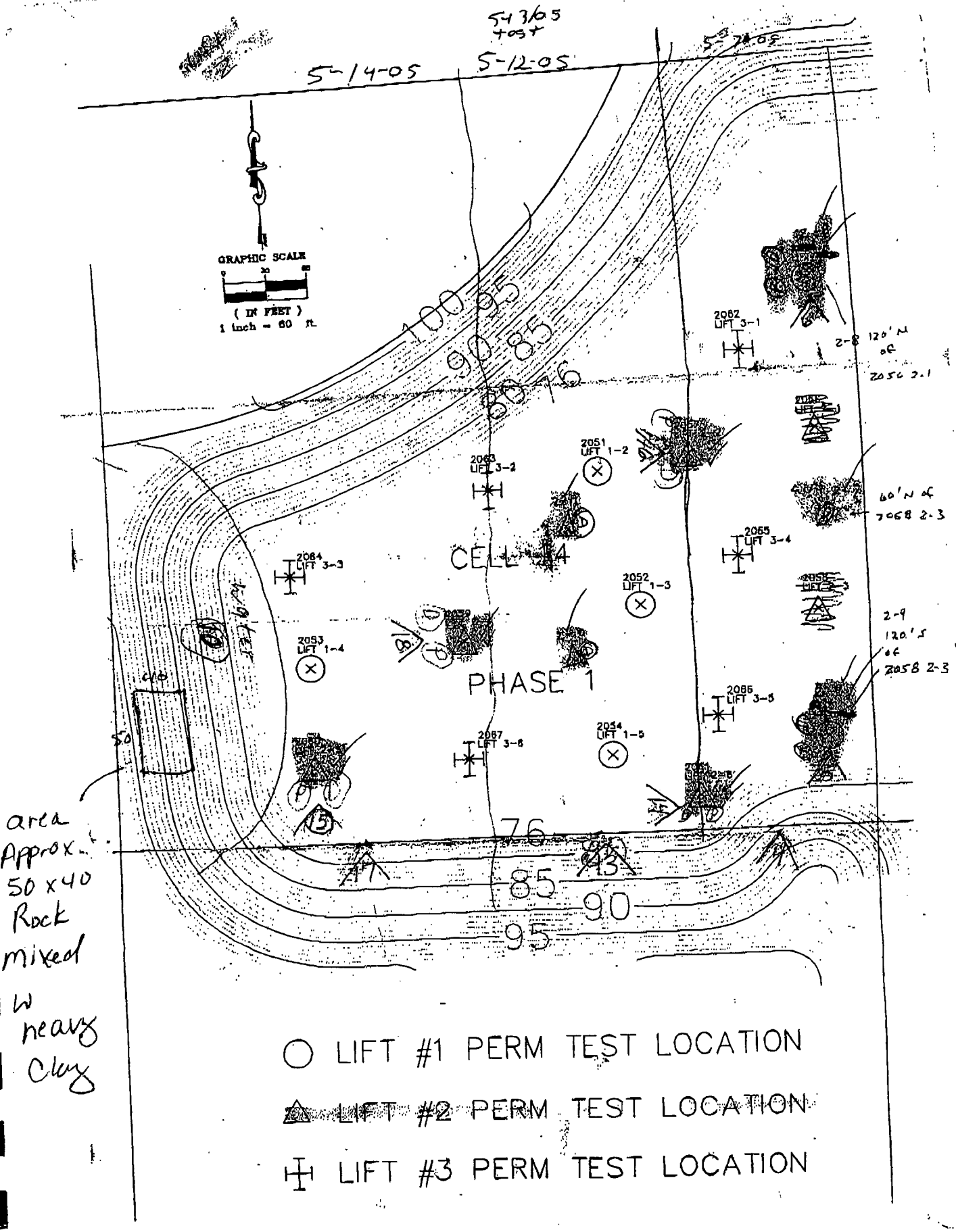
We trust this response will satisfy the Department's concerns. Please call me if you have any further questions.

Very truly yours,

Tetra Tech HAI

Jennifer L. Deal, P.E.
Project Manager

JLD/cr/99.0331.023/corresp/PELZ1
cc: Jeff Rogers, Angelo's


5-14-05
5-12-05
5-13-05 most
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft
100
95
90
85
80
76
CELL 4
PHASE 1
2062 LIFT 3-1
2063 LIFT 3-2
2064 LIFT 3-3
2065 LIFT 3-4
2066 LIFT 3-5
2067 LIFT 3-6
2051 LIFT 1-2
2052 LIFT 1-3
2053 LIFT 1-4
2054 LIFT 1-5
2-8 120' N of 2056 2-1
60' N of 2068 2-3
2-9 120' S of 2058 2-3
50
area Approx. 50 x 40 Rock mixed w heavy clay
LIFT #1 PERM TEST LOCATION
LIFT #2 PERM TEST LOCATION
LIFT #3 PERM TEST LOCATION

TETRA TECH HAI

Mark A. Rynning, P.E., M.B.A.
James E. Christopher, P.E.
Charles W. Drake, P.G.
William D. Musser, P.E., P.H.
Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, P.E.
Douglas P. Dufresne, P.G.
Jon D. Fox, P.E.
Daniel M. Nelson, P.E.

Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, 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
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
James R. Warner, P.E.

September 19, 2005

Via UPS Overnight

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: **Cell 14 Confining Layer Certification**
Enterprise Recycling & Disposal Facility
Angelo's Aggregate Materials, Ltd.
FDEP Permit Nos. 177982-001-SC, 177982-002-SO
Pasco County, Florida

Tt HAI #99.0331.023
File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is submitting this certification for the confining layer in Cell 14 at the above referenced facility. Confining layer construction activities were completed in May 2005. The certification form is included in Appendix A.

Specific Condition 9.c of the facility construction permit #177982-001-SC, in part, states "The maximum hydraulic conductivity below or as part of each cell floor shall be less than 1×10^{-6} cm/sec in a continuous layer of at least 36 inches in thickness, unless otherwise approved in writing by the Department."

Confining Layer Construction

Construction of the confining layer in Cell 14 was performed in concurrence with raising the cell floor elevation in Cell 15, in accordance with FDEP stormwater permit #51-0172489-007. A representative of Universal Engineering Sciences (UES) was on-site to document construction activities and verify that the work was performed to Tt HAI's criteria. This included verification of the use of appropriate confining material and compaction equipment, coordination with Foresight Surveyors, Inc. (Foresight) for documentation of the excavation and fill elevations, and on-site soil testing and permeability test sample collection. Angelo's used a track hoe to excavate the cell. Foresight verified the excavation grades to ensure that the appropriate base elevation was achieved. Surveys of the constructed areas were also completed to ensure the appropriate cell floor grades and confining material thickness were achieved. Copies of the excavation and fill as-built surveys, including the cell boundaries, are attached for your review in Appendix B.

201 East Pine Street, Suite 1000, Orlando, FL 32801
Tel 407.839.3955 Fax 407.839.3790
www.tetratech.com

FILE

Clay material excavated from Cell 14 was used for construction of the confining layer. To be acceptable for confining layer construction in Cell 14, Tt HAI required the material compaction to achieve 95% of the maximum density, as evaluated by the laboratory proctor test. The result of the Wash 200 test on the material was 53.4%. The optimum moisture content for the material to achieve maximum compaction was 19.5%. The results of the proctor test, provided by UES, are attached for your review in Appendix C.

The designated confining material was spread in three lifts, at least 12-inches in thickness, and compacted by multiple passes with a loaded articulating dump truck (ADT). The ADT compacted the material in the bottom of the excavation and into the cell side slopes. A representative of UES was on-site to document the confining layer construction activities and dates of testing, and to conduct in-place density testing on the confining layer lifts and to obtain soil samples for confirmation laboratory permeability testing. A copy of UES's construction summary and test results are provided in Appendix D.

Field CQA and Permeability Testing

In-place density testing of the confining material lifts was performed by UES using a Speedy Moisture Content device in accordance with ASTM D2937-00e1, Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method, to test each compacted lift to ensure the proper density and moisture content were achieved. Field test results were reviewed by Tt HAI and demonstrate that appropriate compaction was achieved during construction.

Shelby tube samples were collected for laboratory confirmation testing for permeability at a frequency of one sample, per acre, per lift, as previously requested by the Department. Permeability samples were collected in accordance with ASTM D1587, Standard Practice for Thin-Walled Tube Geotechnical Sampling of Soils. Eighteen permeability samples were collected from Cell 14 and correspond to the locations and depths of the in-place density tests. Please see the location plans in Appendix E, provided by UES, for reference. Permeability testing was completed by UES, in accordance with ASTM D5084-00e1, Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter. Permeability test results, along with UES's Permeability Test Location Plans, are included in Appendix E. The permeability sample test dates will not necessarily correspond with the sample collection dates. This is due to sample preparation and limited laboratory equipment to run all of the collected samples concurrently.

Permeability tests were collection from locations 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 2-2, 2-4, 2-5, 2-6, 2-8, 2-9, 3-1, 3-2, 3-3, 3-4, 3-5, and 3-6, in substantial accordance with the pre-approved test locations. In-place density tests were taken at all permeability test locations with the exception of 3-1, 3-4, and 3-5. However, other in-place density tests were taken in the proximity of these locations. Additional locations indicated on the Foresight As-built Survey, Cell 14 Test Locations were locations of supplemental in-place density tests.

Initially, three of the test locations, 2-4, 3-3, and 3-4 did not pass the permeability requirements. The permeability results did not seem comparable with the material descriptions. Since all three tests were performed by a subcontracted laboratory, UES resampled these locations and performed the permeability testing. The samples tested by UES met the permeability requirements. The retest results are included in Appendix D.

Photographs of some construction activities, provided by UES, are included on a CD in Appendix E along with Photograph Location Plans.

Field Inspection

A representative of Tt HAI performed a field inspection to observe the completed construction. At the time of the inspection, the cell floor appeared to be constructed properly and in accordance with the requirements previously discussed with the Department, and included in the modified construction permit. Photographs (#4-11) from this site visit are included in Appendix F. The general locations and directions of the photographs have been hand-entered on a copy of the Foresight As-built Survey, Cell 14 Test Locations. This is also provided in Appendix F.

We trust this submittal will satisfy the Department's certification requirements. Please call me if you have any questions or require additional information.

Very truly yours,

Tetra Tech HAI

Jennifer L. Deal, P.E.
Project Manager

JLD/cr99.0331.023/corresp/Cell 14 cert.jld
Attachments

cc: Jeff Rogers, Angelo's

APPENDIX A

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. _____
(Filled by DEP)

Florida Department of Environmental Protection

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

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001-SC County: Pasco

Name of Project: Enterprise Recycling & Disposal Facility

Name of Owner: Angelo's Aggregate Materials, Ltd.

Name of Engineer: Tetra Tech HAI

Type of Project: Confining layer certification for Cell 14

See attached surveys from Foresight Surveyors for as-built elevations.

Cost: Estimate $ 100,000 Actual $ 150,000

Site Design: Quantity: 7500 cy/day ton/day Site Acreage: 5.78 Acres

Deviations from Plans and Application Approved by DEP: Initially, Cell 14 will serve as a part of the temporary stormwater pond. The elevations indicated on the survey are substantially in accordance with the requirements of the above construction permit. A loaded articulating dump truck weighing approximately 130,000 lbs. was used to compact the material, rather than a dozer and roller as specified in the Engineering Report. The end result of compaction met the required permeability.

Address and Telephone No. of Site: 41111 Enterprise Road, Dade City, FL 33525
352-567-7676

Name(s) of Site Supervisor: Jeff Rogers

Date Site inspection is requested: September 27, 2005

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction

Permit No. 177982-001-SC :Dated: October 5, 2001

Date: _____ _____
Signature of Professional Engineer

Hartman & Associates, Inc.
201 E. Pine St., Suite 1000
Orlando, FL 32801
Engineering Business #5814
Jennifer L. Deal, P.E.
Florida Registration
0000058592

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

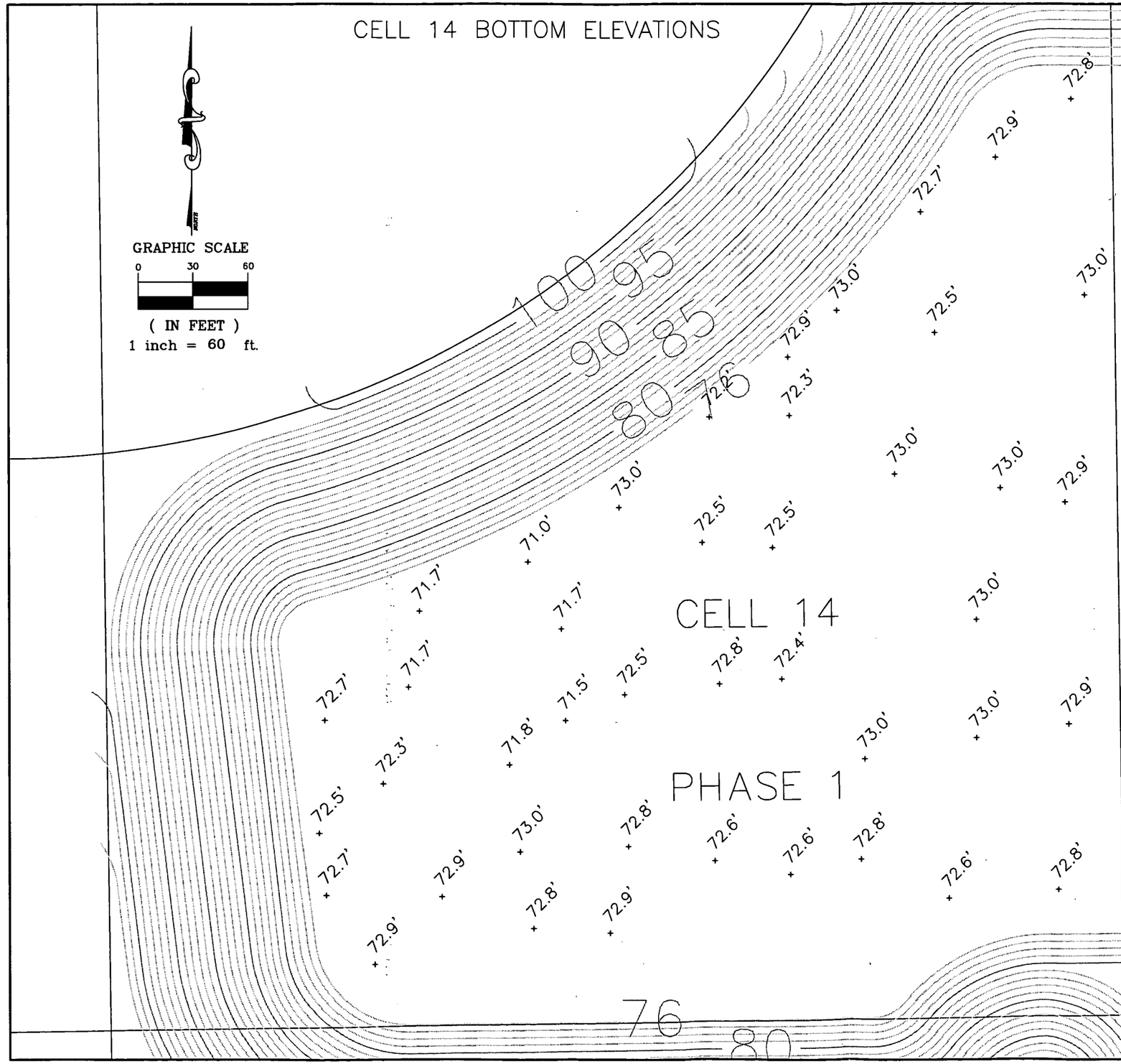
Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

APPENDIX B

CELL 14 BOTTOM ELEVATIONS

SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA

GRAPHIC SCALE
0 30 60
(IN FEET)
1 inch = 60 ft.



ASBUILT SURVEY

NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper

LB 5776

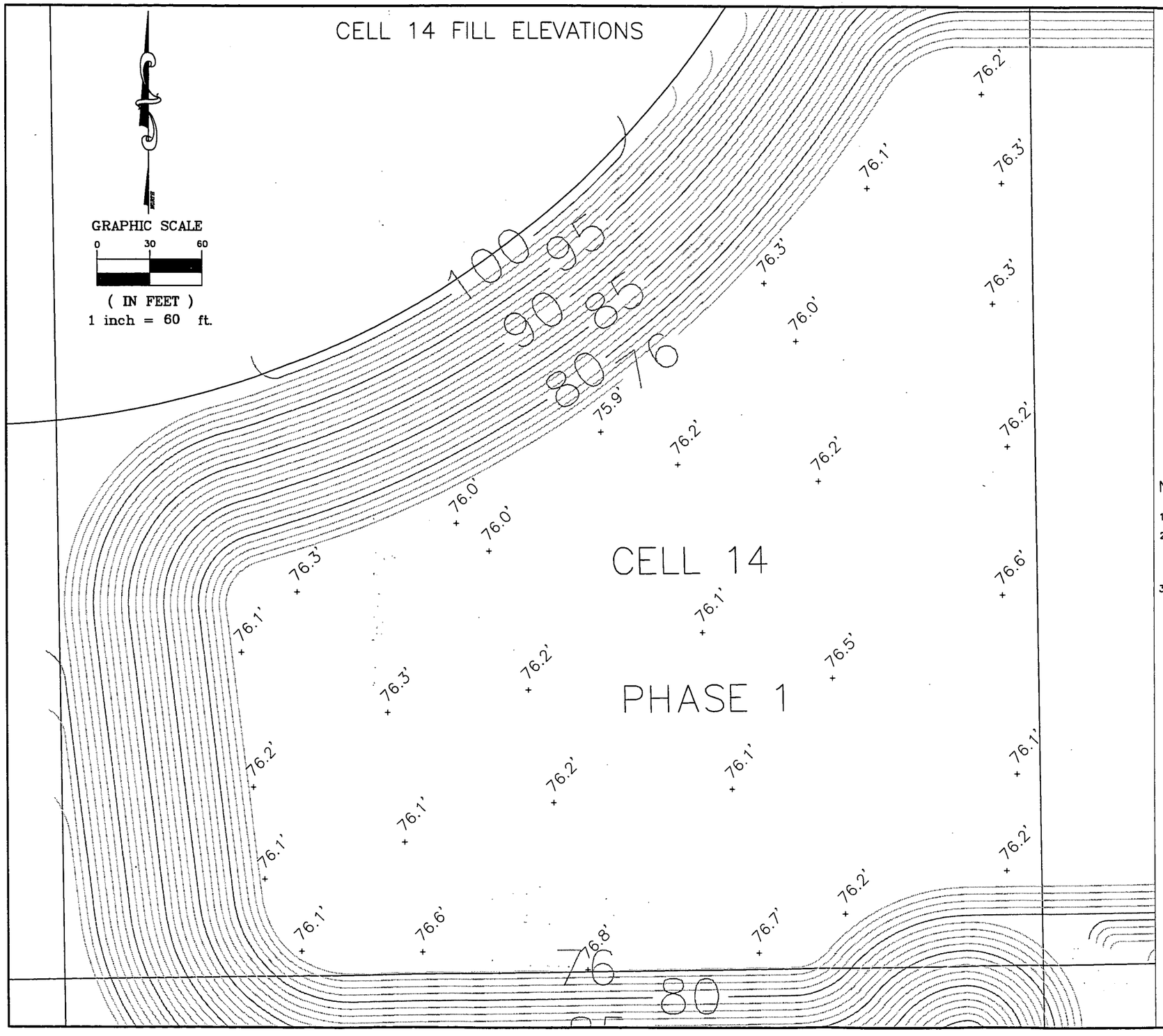
© FORESIGHT SURVEYORS, INC.
773 PROVIDENCE BOULEVARD
BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6306 FAX. (352) 797-6308

FILE	CERTIFIED TO:	SCALE 1"=60'
DRAWN ADM.		FIELD DATE 5-13-05
CHECKED	DATE	PROJECT # 23196

A. DANIEL MILLER, P.S.M.
Fla. Surveyors Reg'n No. 6294

DANIEL MILLER
STATE OF FLORIDA
PROFESSIONAL SURVEYOR AND MAPPER
NO. 6294

CELL 14 FILL ELEVATIONS



SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA

ASBUILT SURVEY

Thickness o/c
Elevation o/c

12/5/05

NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper

LB 5776

© FORESIGHT SURVEYORS, INC.
773 PROVIDENCE BOULEVARD
BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6308 FAX (352) 797-6308

FILE	CERTIFIED AS TO SURVEY	SCALE 1"=60'
DRAWN ADM		FIELD DATE 5-23-05
CHECKED	DATE: 12-6-05	PROJECT # 23196
	A. DANIEL MILLER, P.S.M. Fla. Surveyors-Reg'n No. 6294	

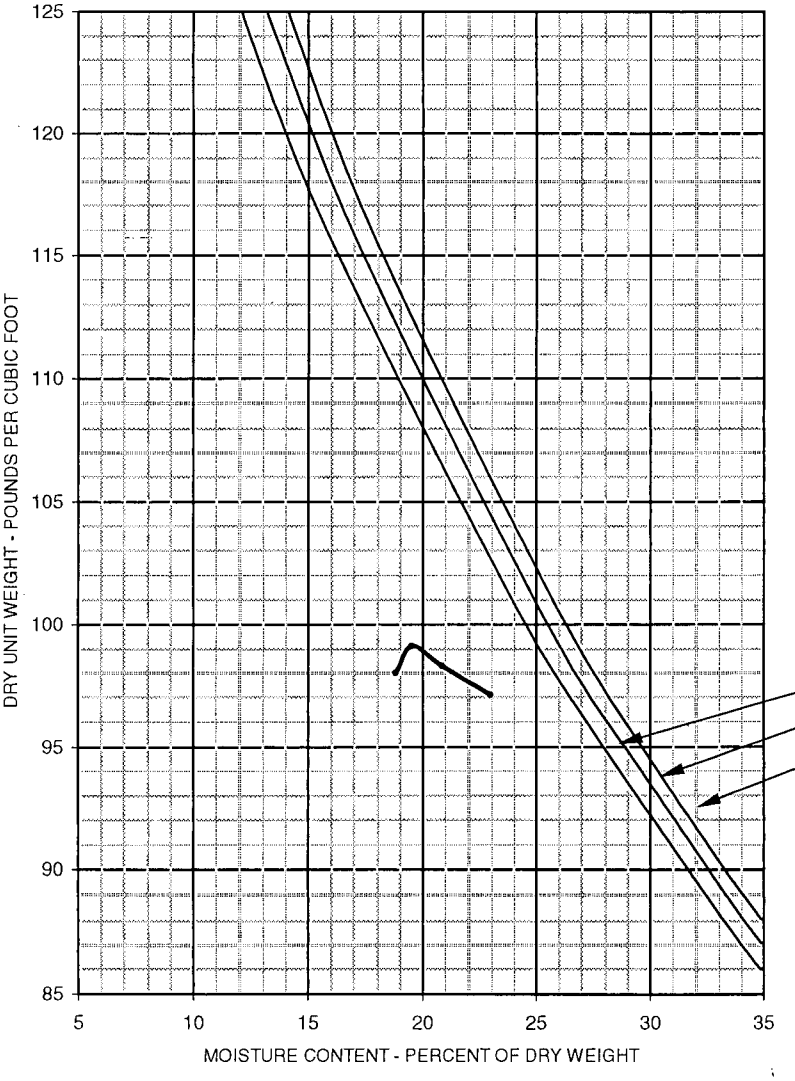
STATE OF FLORIDA — DANIEL MILLER — REG. NO. 6294 — LAND SURVEYOR

APPENDIX C

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Client : Angelo's Recycling
Project: Dade City Landfill
Sample Date: 5/04/05
Location: Cell #14

Project No.: 80540-001-02
Report No.: PR #1
Date: 5/5/2005
Lab # : 716
Test Method : D-689
Rammer Type: Manual
Soil Description:
Orange to Tan clay



Date Tested :	5/5/2005
Max imum Dry Density(pcf)	99
Optimum Moisture Content (%)	19.5
Wash 200%	53.4

Reviewed By,
Universal Engineering Sciences, Inc.
Cert of Authorization No. 00000549

Mark K. Hardy
Tampa Branch Manager
Professional Engineer No. 57233
Date:

APPENDIX D

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 1
Date: May 6, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

JUL 15 2005

Project: Dade City Landfill, 5 acre Clay Liner

Scope of Field Work: Monitoring Clay Liner

Date Inspected: May 5, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 5, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

Technician arrive on-site at 7:00 a.m. with Mr. Chris Haley of UES. Photographs were taken of density and permeability at staked location #'s 2055, 1-6 and staked location #'s 2050, 1-1 & 1-7.

Mr. Haley returned to UES Tampa office with 2nd proctor sample and two permeability samples.

The technician observed a Track hoe loading a haul truck with clay. The clay was spread-out with a bull dozer for the first and, second lift. A photograph was taken at 10:30 a.m. from the south side of the cell, facing north of the second lift being moved into place.

From 10:30 a.m. to 11:30 a.m. the track hoe loaded dump truck with clay to be removed from job-site.

At 11:30 a.m. the track hoe proceeded to load the haul truck with material for work on the second lift station. A second haul truck was loaded with clay to be hauled off-site.

At 2:30 p.m. it began raining at the job-site and work stopped at 3:30 p.m.

Equipment in use for the day:

one - track hoe
one - bull dozer
one - haul truck

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/6/05

MARK K. HARDY LICENSE NO. 57233 STATE OF FLORIDA PROFESSIONAL ENGINEER

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 2
Date: May 12, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner

Scope of Field Work: Monitoring Clay Liner

Date Inspected: May 6, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 6, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

Contractor reported that no work was being performed on clay liner, due to rain making site too wet. Work will resume on Monday 9, 2005.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mario K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/12/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 3
Date: May 12, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 7, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 7, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The contractor resumed work on second lift at 07:30, at 11:30 a density was performed at second lift and at 12:00 a permeability test was obtained on the second lift.

Work began on a third lift at 13:30, UES technician took photograph of lift being installed.

Contractor stated that the survey crew will be at the job site on Monday May 9, 2005 at 07:00, to install permeability stake for the third lift.

Notes: Lift # 2 is approximately 120 feet west from the east side of Cell # 14.

No stakes provided for lift # 2 test 2-8 and 2-9.

Represents Permeability and density for locations 2058 2-3 and 2056 2-1

Equipment on-site:

One Track hoe
One Haul truck
One Bull dozer

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 4
Date: May 12, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 9, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 9, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

At 07:30 the contractor resumed work on third lift, two haul trucks were loaded. Surveyor cancelled work for day and rescheduled for Tuesday May 10, 2005.

Lift # 3 is approximately 120 feet west of the east side of Cell # 14.

Equipment on-site:

One Track hoe
One Haul truck
One Bull dozer

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/20/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 5
Date: May 12, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 10, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 10, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

Surveyor placed permeability stakes on 3rd lift and staked-out second half of 1st lift.
At 13:45 contractor began to dig-out second half of 1st lift.

Equipment on-site:

One Track hoe
One Bull dozer

Reviewed by
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/20/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 6
Date: May 16, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 11, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 11, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The technician took third permeability from third lift 3-5. Picture was taken of second half of first lift being excavated.

Contractor began to excavate third section of first lift and crowd water to an area to be pumped-out. A picture was taken of worker digging out third section of first lift.

A permeability and a density test was performed at station 2054 1-5, 2052 1-3 and 2051 1-2 from second half of first lift.

Equipment on-site:

one track hoe
one bull dozer
one haul truck

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/20/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 7
Date: May 16, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 12, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 12, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The technician performed permeability and density tests from station 2053 1-4, from third portion of first lift.

A density test was performed 50 feet east of 2053 1-4 (lift 1-6).

A track hoe put in second half of second lift.

At 12:30 p.m. another track hoe proceeded to load dump trucks.

Another bull dozer began to move dumped clay pile.

Equipment on-site:

two track hoes
one bull dozer
one haul truck

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 5/20/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 8
Date: May 16, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 13, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 13, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The contractor began to put clay on the third portion of second lift, UES technician performed density tests on second half of second lift at stations 2061 lift 2-6, 2060, lift 2-5, 2057 lift 2-2.

The UES technician performed density tests at 2-11, 75 feet west of 2057/2-2.

The UES technician waited for the contractor to complete second lift to complete testing.

A photograph was taken of second lift facing north.

Equipment on-site:

one track hoe
one bull dozer

Reviewed By,
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 9
Date: May 16, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 14, 2005 **Inspected By:** Mr. Mario Arroyo

On May 14, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

Permeability and density tests were performed on Stations 2059, lift 2-4 and 55 feet east of station 2059 (2-10).

Contractor stated work will begin on third lift Monday, May 19 at 9:00 a.m.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/1/05

STATE OF FLORIDA

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 10
Date: May 31, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 16, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 16, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The technician observed the track hoe load one haul truck with Clay to dump on Second Lift. A bull dozer proceeded to push clay pile towards third lift station.

9:30 a.m. to 11:20 a.m. the Track Hoe broke down. At 11:20 a.m. another Track Hoe began loading haul truck and dump trucks. At 11:30 a.m. the Track Hoe was repaired and resumed working.

From 10:00 a.m. to 4:45 p.m. the Bull Dozer broke down. At 4:45 p.m. Bull dozer resumed moving Clay pile.

Photographs were taken of Bull Dozer moving Clay pile.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549
Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 11
Date: June 1, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Mr. Dominic Lafrate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 17, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 17, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

A track hoe loaded a haul truck for the bull dozer to knock down later for third lift.

A bull dozer arrived on-site at 9:30 a.m. and began to move piles. A second bull dozer was on-site from 10:00 a.m. to 10:20 a.m.

At 3:45 p.m., technician took permeability and density samples from Station 2063, lift 3-2, another density sample was taken 60 feet east of 2063, at lift 3-10.

At 4:45 p.m. another bulldozer arrived to assist with third lift.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

MARK K. HARDY LICENSE NO. 57233 STATE OF FLORIDA PROFESSIONAL ENGINEER

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 12
Date: June 2, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Mr. Dominic Lafrate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 19, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 19, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

A track hoe was digging out east wall of cell to load clay on haul truck for placement on cell walls, also clay was taken off-site.

The bull dozer began to slope cell wall at north end of cell.

At 3:00 p.m. another bull dozer arrived on-site to assist with sloping of cell wall.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/2/05

STATE OF FLORIDA PROFESSIONAL ENGINEER

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 80540-001-02
Report No.: SI # 13
Date: June 2, 2005

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Mr. Dominic Lafrate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 18, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 18, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

A track hoe was loading a haul truck and dump trucks for bull dozer to push down later.

The bull dozer arrived on-site at 8:15 a.m. to begin work on third lift.

A permeability and density sample was taken from 2067, lift 3-6, a density sample was taken 55 feet east of 2067 at lift 3-11, a permeability and density sample was taken from station 2064, lift 3-3.

A density sample was taken 55 feet south of 2064 at lift 3-12.

A bull dozer began to slope cell walls at north end of cell.

pass @ 3-4 ?

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: SI # 14
Date: June 2, 2005

WEEKLY REPORT ON SITE INSPECTIONS

Client: Angelo's Aggregate Materials
Mr. Dominic Lafrate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, 5 acre Clay Liner, Cell 14

Scope of Field Work: Monitoring-Testing Clay Liner

Date Inspected: May 20, 2005 **Inspected By:** Mr. Mario Arroyo

---

On May 20, 2005, a representative of Universal Engineering Sciences (UES) was present at the above project site as requested to perform the referenced work.

The contractor had finished cell # 14, a photograph was taken of completed cell.

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

cc: Client (1)

lmp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: DR #1
Date: May 6, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner, First Lift

Reference Datum: 0 = Top of Native

Type of Test - Field: ASTM D-2937 Drive Cylinder Method **Date Tested:** May 5, 2005
Laboratory: ASTM D-698 Standard Proctor

Remarks: The tests below have met the minimum 95%relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
1-6	2055, 1-6	0	99.0	19.5	116.1	7.9	117.2
1-1	2050, 1-1	0	99.0	19.5	114.8	7.6	115.9
1-7	1-7, 60 feet SOUTH of 1-1	0	99.0	19.5	100.7	15.8	101.7

Technician: Mr. Mario Arroyo

cc: Client (1)

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

mp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: DR #3
Date: May 12, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner, second lift

Reference Datum: 0 = Bottom of Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 9, 2005
Laboratory: ASTM D-698 Standard Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
2-8	120 feet north of 2056 2-1	0	99.0	19.5	110.8	12.8	111.9
2-7	60 feet north of 2058 2-3	0	99.0	19.5	95.3	12.0	96.2
2-9	120 feet south of 2058 2-3	0	99.0	19.5	107.2	12.6	108.2

Technician: Mr. Mario Arroyo

cc: Client (1)

mp

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

MARK K. HARDY LICENSE NO. 57233 STATE OF FLORIDA PROFESSIONAL ENGINEER

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #11
Date: July 12, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Clay Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 9, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
3-7	3-7 60 feet north x 60 feet east of 2066 3-5	+0	99.0	19.5	104.3	11.5	105.3
3-8	3-8 35 feet north of 2065 3-4	+0	99.0	19.5	110.1	11.7	111.2
3-9	3-9 120 feet north of 2062 3-1	+0	99.0	19.5	114.1	11.0	115.2

Technician: Mr. Mario Arroyo

cc: Client (1)

rf

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 7/12/05

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-02
Report No.: DR #4
Date: May 11, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 13, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
1-5	2054 lift 1-5	0	99.0	19.5	106.8	12.6	107.8
1-3	2052 lift 1-3	0	99.0	19.5	104.1	12.0	105.1
1-2	2051 lift 1-2	0	99.0	19.5	106.5	11.7	107.5

Technician: Mr. Mario Arroyo

cc: Client (1)

mp

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

MARK K. HARDY LICENSE NO. 57233 STATE OF FLORIDA PROFESSIONAL ENGINEER

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #5
Date: May 16, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 13, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
1-4	2053 lift 1-4	0	99.0	19.5	102.4	13.0	103.4
1-6	50 feet east of 2053 1-4, lift 1-6	0	99.0	19.5	102.8	12.8	103.8

Should be #1-8

Technician: Mr. Mario Arroyo

cc: Client (1)

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/15/05

mp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #6
Date: May 16, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 13, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
2-6	2061, lift 2-6	0	99.0	19.5	107.7	8.8	108.7
2-5	2060, lift 2-5	0	99.0	19.5	110.4	11.0	111.5
2-2	2057, lift 2-2	0	99.0	19.5	112.8	9.8	113.9
2-11	2-11, 75 feet west of 2057	0	99.0	19.5	107.8	10.3	108.8

Technician: Mr. Mario Arroyo

cc: Client (1)

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

MARK K. HARDY — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/15/05

mp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #8
Date: June 1, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Clay Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 17, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
3-2	2063, lift 3-2	0	99.0	19.5	113.7	10.8	115.8
3-10	60 feet east of 2063	0	99.0	19.5	97.3	12.0	98.2

Technician: Mr. Mario Arroyo

cc: Client (1)

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

mp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #9
Date: June 1, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Clay Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 18, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
3-6	2067 lift 3-6	0	99.0	19.5	109.9	12.2	111.0
3-11	40 feet north & 20 feet east of 2067	0	99.0	19.5	111.5	11.0	112.6
3-3	2064 lift 3-3	0	99.0	19.5	111.7	8.6	112.8
3-12	20 feet south of 2064	0	99.0	19.5	107.4	12.0	108.4

Technician: Mr. Mario Arroyo

cc: Client (1)

Reviewed By:
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 6/16/05

mp

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No.: 80540-001-01
Report No.: DR #10
Date: July 12, 2005

IN-PLACE DENSITY TEST REPORT

Client: Angelo's Aggregate Materials
Attention: Dominic Lafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell 14

Area Tested: Clay Liner

Reference Datum: 0 = Bottom of Clay Liner

Type of Test - Field: ASTM D-2397 Drive Sleeve Method **Date Tested:** May 14, 2005
Laboratory: ASTM D-1557 Modified Proctor

Remarks: Second half of third lift. The tests below have met the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

TEST LOCATION			LABORATORY RESULTS		FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
2-4	2059 lift 2-4	+0	99.0	19.5	105.3	8.6	106.3
2-10	55 feet east of 2059 2-10	+0	99.0	19.5	106.2	9.5	107.2

Technician: Mr. Mario Arroyo

cc: Client (1)

rf

Reviewed By
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 7/12/05

APPENDIX E

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No: 80540-001-02
Report No.: PW #1
Date: June 15, 2004

REPORT ON TRIAXIAL PERMEABILITY AND PERCENT PASSING NO. 200 SIEVE

Client: Angelo's Aggregate Materials
Attention: Dominic Iafate
26400 Sherwood Street
Warren, MI 48091

Project: Dade City Landfill, Cell #14

Sampled By: Mario Arroyo

TEST RESULTS

Test #	Date Sampled	Location	Percent passing No. 200 Sieve	Permeability	
				K (cm/s)	K ft/day
1 - 1	5/5/05	2050	46.3	1.19 E-07	3.39 E-04
1 - 2	5/13/05	2051	61.5	2.03 E-07	5.76 E-04
1 - 3	5/13/05	2052	40.3	2.71 E-07	7.67 E-04
1 - 4	5/13/05	2053	--	2.1 E-07	-----
1 - 5	5/13/05	2054	42.3	2.27 E-07	6.45 E-04
1 - 6	5/05/05	2055	48.7	7.94 E-08	2.25 E-04
2 - 2	5/13/05	2057	--	5.5 E-08	-----
2 - 4	5/14/05	2059	--	4.5 E-05	-----
2 - 5	5/13/05	2060	--	1.0 E-06	-----
2 - 6	5/13/05	2061	--	2.2 E-07	-----
2 - 8	5/09/05	120' North of 2056	41.7	2.43 E-07	6.88 E-04
2 - 9	5/09/05	120' South of 2058	44.5	1.64 E-07	4.64 E-04

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection
9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No: 80540-001-02
Report No.: PW #1
Date: June 15, 2004

Test #	Date Sampled	Location	Percent passing No. 200 Sieve	Permeability	
				K (cm/s)	K ft/day
3 - 1	5/20/05	2062	45.2	1.43 E-07	4.05 E-04
3 - 2	5/17/05	2063	--	6.1 E-08	-----
3 - 3	5/18/05	2064	--	1.3 E-04	-----
3 - 4	5/20/05	2065	47.2	6.15 E-06	1.74 E-02
3 - 5	5/11/05	2066	43.6	3.61 E-07	1.02 E-03
3 - 6	5/18/05	2067	--	5.7 E-08	-----

Reviewed By,
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 9/16/05

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

REPORT ON TRIAXIAL PERMEABILITY AND PERCENT PASSING NO. 200 SIEVE

Client : Angelo's Recycling
Project : Dade City Landfill
Tested By : Chris Haley
Sampled By : Mario

Project No : 80540-001-02
Report No. MW #1
Date : 7/12/2005

TEST RESULTS

Test #	Date Sampled	Location	Percent passing No. 200 sieve	Permeability K (cm/s)	Permeability K (ft/day)
1	6/22/2005	2053 / 1-4	48.4	N/A	N/A
2	6/22/2005	2057 / 2-2	50.3	N/A	N/A
3	6/22/2005	2059 / 2-4	49.9	N/A	N/A
4	6/22/2005	2060 / 2-5	49	N/A	N/A
5	6/22/2005	2061 / 2-6	47.6	N/A	N/A
6	6/22/2005	2063 / 3-2	48.2	N/A	N/A
7	6/22/2005	2064 / 3-3	48.1	N/A	N/A
8	6/22/2005	2069 3-6	48.5	N/A	N/A
		Should be 2067			

Reviewed By,
Universal Engineering Sciences, Inc.
Cert. of Authorization No. 00000549

Mark K. Hardy P.E.
Tampa Branch Manager
Professional Engineer No. 57283
Date: 7/18/05

MARK K. HARDY LICENSE NO. 57283 STATE OF FLORIDA PROFESSIONAL ENGINEER

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

REPORT ON TRIAXIAL PERMEABILITY AND PERCENT PASSING NO. 200 SIEVE

Client : Angelo's Recycling
Project : Dade City Landfill
Tested By : Lori Bass
Sampled By : Mario

Project No : 80540-001-02
Report No. PW #1
Date : 7/12/2005

TEST RESULTS

Test #	Date Sampled	Location	Percent passing No. 200 sieve	Permeability	
				K (cm/s)	K (ft/day)
RT 1	6/22/2005	Lift 2 - 4	48.5	1.88 E-07	5.34 E-04
RT 2	6/22/2005	Lift 3 - 3	47.3	1.55 E-07	4.39 E-04
RT 3	6/22/2005	Lift 3 - 4	48.5	1.79 E-07	5.07 E-04

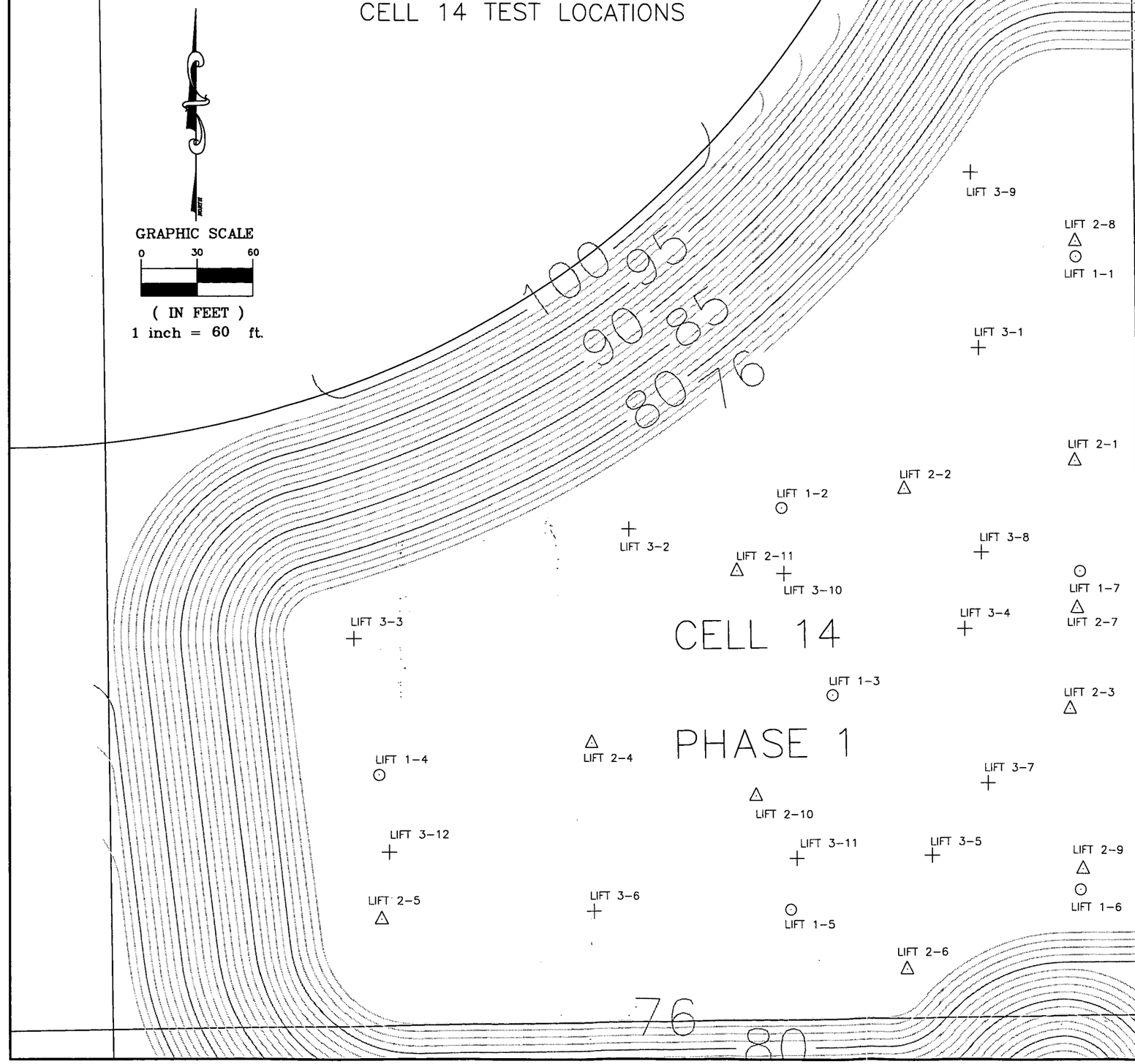
Reviewed By
Universal Engineering Sciences, Inc.
Cert. of Authorization No. 00000549

Mark K. Hardy P.E.
Tampa Branch Manager
Professional Engineer No. 57233
Date: 7/12/05

MARK K. HARDY
LICENSED
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CELL 14 TEST LOCATIONS

SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA



ASBUILT SURVEY

NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper

LB 5776

© FORESIGHT SURVEYORS, INC.
773 PROVIDENCE BOULEVARD
BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6306 FAX (352) 797-6308

FILE	CERTIFIED AS-BUILT SURVEY	SCALE 1"=60'
DRAWN ADM		FIELD DATE 5-13-05
CHECKED	DATE:	PROJECT # 23196

A. DANIEL MILLER, P.S.M.
Fla. Surveyors Reg'n No. 6294

CELL 14 TEST LOCATIONS

SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA

GRAPHIC SCALE
0 30 60
(IN FEET)
1 inch = 60 ft.

100 95 90 85 80 76

CELL 14

PHASE 1

LIFT 3-9 D
LIFT 2-8 P,D
LIFT 1-1 P,D
LIFT 3-1 P
~~LIFT 2-1~~
LIFT 2-2 P,D
LIFT 1-2 P,D
LIFT 3-2 P,D
LIFT 2-11 D
LIFT 3-8 D
LIFT 3-10 D
LIFT 1-7 D
LIFT 2-7 D
LIFT 3-3 P,D
LIFT 3-4 P
LIFT 1-3 P,D
~~LIFT 2-3~~
LIFT 1-4 P,D
Lift 1-8 D
LIFT 2-4 P,D
LIFT 3-7 D
LIFT 2-10 D
LIFT 3-12 D
LIFT 3-11 D
LIFT 3-5 P
LIFT 2-9 P,D
LIFT 2-5 P,D
LIFT 3-6 P,D
LIFT 1-5 P,D
LIFT 1-6 P,D
LIFT 2-6 P,D

76 80

ASBUILT SURVEY

P= Permeability Test Location

D= In-place Density Test Location

NOTES:

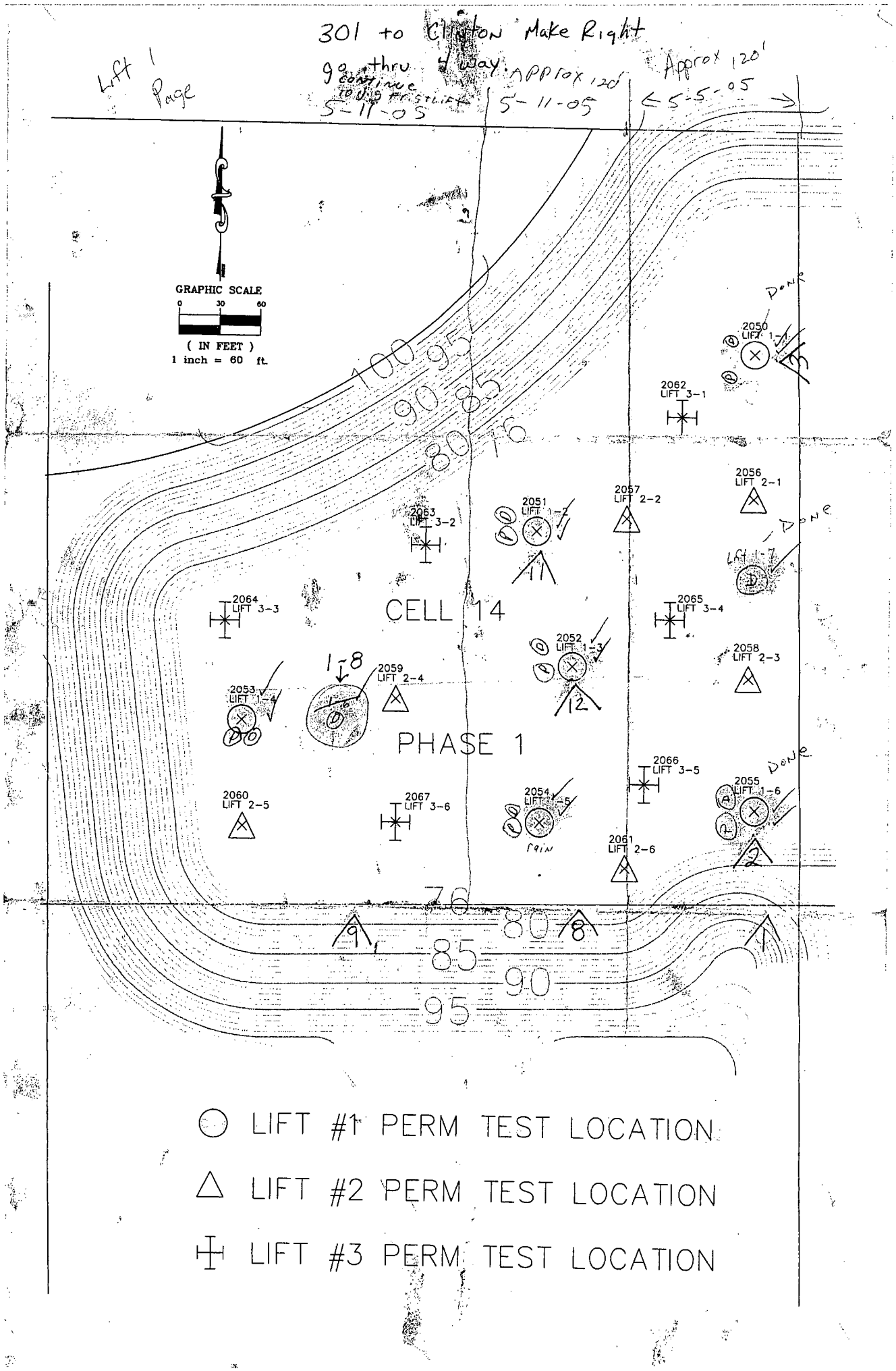
1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

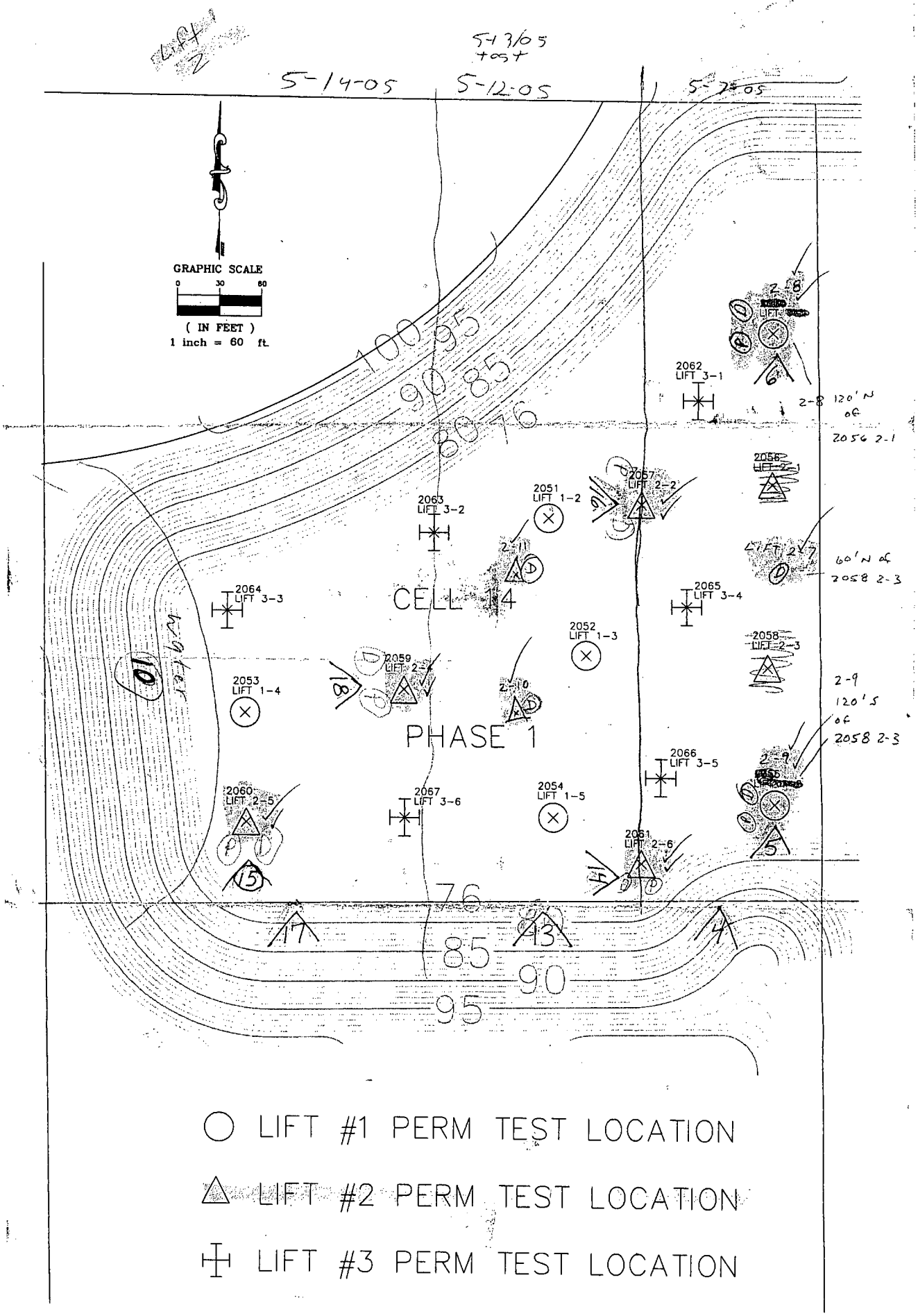
(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper

LB 5776

© FORESIGHT SURVEYORS, INC.
773 PROVIDENCE BOULEVARD
BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6306 FAX (352) 797-6308

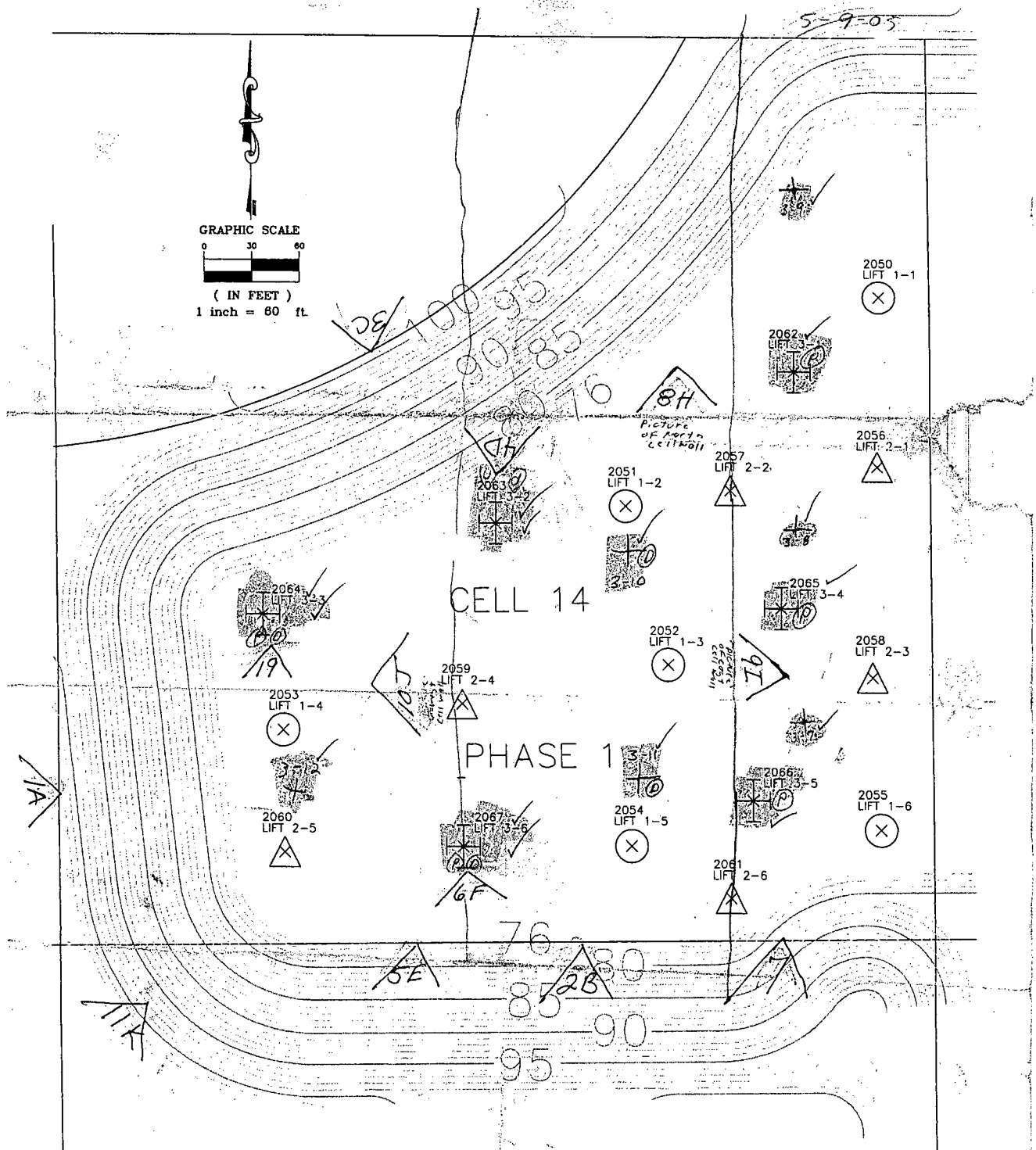
FILE	CERTIFIED AS TO SURVEY:	SCALE 1"=60'
DRAWN ADM	DATE: 6-8-05	FIELD DATE 5-13-05
CHECKED	A. DANIEL MILLER, P.S.M. Fla. Surveyors Reg'n No. 6294	PROJECT # 23196


301 to Clinton Make Right
Lift 1
Page
go thru 4 way. Approx 120'
5-11-05
5-11-05
Approx 120'
5-5-05
GRAPHIC SCALE
0 30 60
(IN FEET)
1 inch = 60 ft.
100
95
90
85
80
76
2050 LIFT 1-1
DONE
2062 LIFT 3-1
2056 LIFT 2-1
2057 LIFT 2-2
2051 LIFT 1-2
2063 LIFT 3-2
DONE
2064 LIFT 3-3
CELL 14
2065 LIFT 3-4
2052 LIFT 1-3
2058 LIFT 2-3
1-8
2059 LIFT 2-4
2053 LIFT 1-4
PHASE 1
2066 LIFT 3-5
DONE
2055 LIFT 1-6
2060 LIFT 2-5
2067 LIFT 3-6
2054 LIFT 1-5
RAIN
2061 LIFT 2-6
76
80
85
90
95
LIFT #1 PERM TEST LOCATION
LIFT #2 PERM TEST LOCATION
LIFT #3 PERM TEST LOCATION


Lift 2
5-13-05 test
5-14-05
5-12-05
5-7-05
GRAPHIC SCALE
0 30 60
(IN FEET)
1 inch = 60 ft.
100
95
90
85
80
76
2062 LIFT 3-1
2-8 120' N of 2056 2-1
2056 LIFT 2-1
2057 LIFT 2-2
2051 LIFT 1-2
2063 LIFT 3-2
2-11
2-7
60' N of 2058 2-3
2064 LIFT 3-3
CELL 14
2065 LIFT 3-4
2052 LIFT 1-3
2058 LIFT 2-3
2059 LIFT 2-4
2053 LIFT 1-4
2-10
PHASE 1
2-9 120' S of 2058 2-3
2066 LIFT 3-5
2060 LIFT 2-5
2067 LIFT 3-6
2054 LIFT 1-5
2061 LIFT 2-6
Water
10
18
15
17
13
4
5
76
85
90
95
LIFT #1 PERM TEST LOCATION
LIFT #2 PERM TEST LOCATION
LIFT #3 PERM TEST LOCATION

LIFT (3)

5-9-05



○ LIFT #1 PERM TEST LOCATION

△ LIFT #2 PERM TEST LOCATION

LIFT #3 PERM TEST LOCATION

Media Insert

Dep Box Number: DWM-SWD-SW-247

Pride Box Number: DEPS-S12B2046

PreIndex ID Number: 1572189

	→	Slides
1	→	CD/ DVD Disk
	→	Floppy Disk
	→	Negatives
	→	

Notes: DADE CITY LANDFILL

APPENDIX F

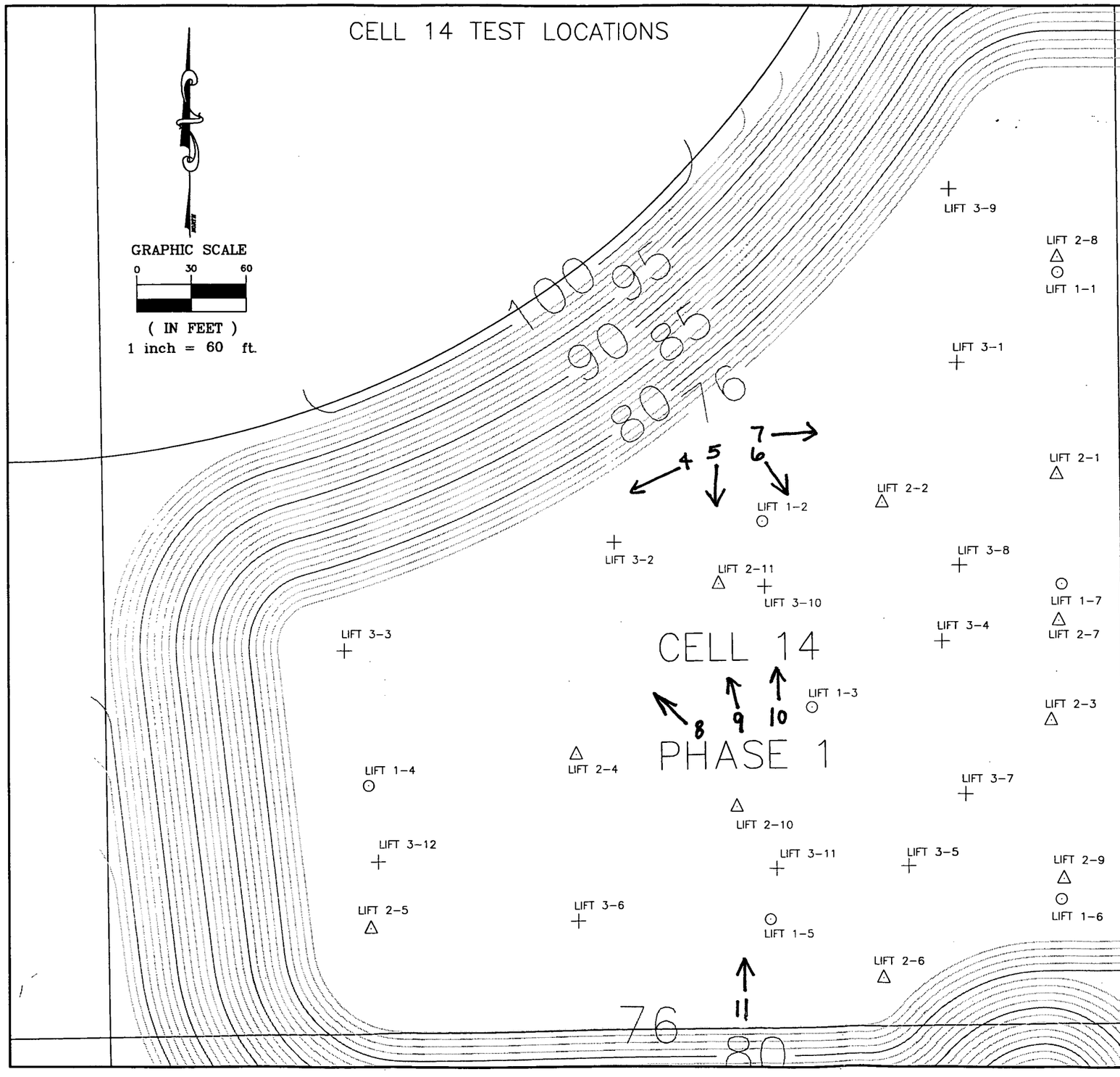
4


DSN


CAT

CELL 14 TEST LOCATIONS

SEC 26 TWP 22 S, RNG 18 E.
PASCO COUNTY, FLORIDA



ASBUILT SURVEY

7 → Approximate Photograph Location and Direction

NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

(Subject to any notes and notations listed or labeled hereon)
This survey is not valid without the signature and original raised seal of a Florida licensed surveyor and mapper

LB 5776

© FORESIGHT SURVEYORS, INC.

773 PROVIDENCE BOULEVARD
BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6306 FAX (352) 797-6308

FILE	CERTIFIED AS TO SURVEY:	SCALE 1"=60'
DRAWN ADM	DATE: 6-8-05	FIELD DATE 5-13-05
CHECKED	A. DANIEL MILLER, P.S.M. Fla. Surveyors Reg'n No. 6294	PROJECT # 23196