

# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

## OFFICERS:

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William D. Musser, P.E., P.H.  
Michael B. Bomar, P.E.  
Lawrence E. Jenkins, P.S.M.

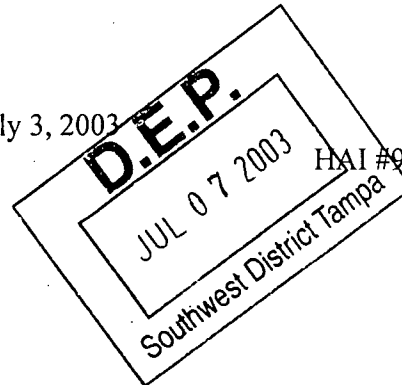
## SENIOR ASSOCIATES:

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## ASSOCIATES:

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John P. Toomey, P.E.  
Mark A. Gabriel, P.E.  
George S. Flint, M.P.A.  
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Charles M. Shultz, P.E.  
Sean M. Parks, AICP, QEP  
C. Michelle Gaylord  
Tara L. Hollis, C.P.A., M.B.A.  
W. Bruce Laffrenz, P.G.  
Daryll B. Parker, M.B.A.  
Alexis K. Stewart, P.E.  
Beverly J. Garrett, P.E.

July 3, 2003



Phase 4  
File 12.0

## Via Facsimile and UPS Overnight

Mr. Kim Ford, P.E.  
Florida Department of Environmental Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**Subject: Cell 1 Construction Progress Report  
Enterprise Recycling & Disposal Facility  
Angelo's Aggregate Materials, Ltd.  
FDEP Permit Nos. 177982-001-SC, 177982-002-SO  
Pasco County, Florida**

Dear Mr. Ford:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. (HAI) is submitting this progress report to summarize the construction activities for Cell 1 at the above landfill. Supporting documentation is attached for your review.

The contractor performing the site work is using a track hoe to excavate the cell in sections. Excavation began in the northeast corner of the cell, moving to the west as each section reached the approximate cell base grade. The contractor is currently working in the southern portion of the cell and operations should be completed by the end of this week. Spot elevations have not yet been surveyed in the northern portion of the cell, and will not be surveyed until the contractor informs the permittee that the entire cell floor is at the approximate base grade. Excessive surveying would cause undue cost to the permittee.

As requested on June 19, 2003, we developed a north-south geologic cross-section through the monitor wells and piezometers along the eastern boundary of the landfill footprint. The location of the cross-section is indicated on Figure 1, attached. The cross-section, based on boring logs of each location, is attached as Figure 3. Also as requested, soil descriptions of the center points of the west, south, and east slopes of Cell 1 are attached for your review. Photographs of the slopes are attached. As requested on July 1, 2003, we used the figure included with our June 10, 2003 submittal to indicate the locations and directions of the photographs. This has been attached as Figure 4. Numbered photographs are attached.

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

A TETRA TECH COMPANY

ORLANDO FORT MYERS PLANTATION JACKSONVILLE DESTIN ATLANTA

Mr. Kim Ford, P.E.  
July 3, 2003  
Page 2

On June 24, 2003, the areas of Cell 1, where limestone was encountered, were surveyed, as shown on Figure 2, attached. The outlined area is not entirely limestone, but contains all of the areas where limestone was encountered during excavation as of that date, along with surveyed spot elevations in these areas. The limestone in these areas was weathered and mixed with clay and sandy clay.

The groundwater monitor wells have not yet been developed or sampled. Top of casing elevations were surveyed on July 1, 2003 and provided to HAI today. Depth to water was measured in all of the installed monitor wells and piezometers on June 30, 2003, and a table of groundwater elevations is attached. An elevation of the water level in the temporary pond was measured on June 30, 2003 and is also provided in the attached table.

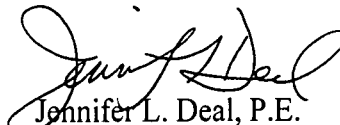
Our next submittal will contain surveyed elevations of Cell 1, a new table of groundwater elevations in all existing monitor wells and piezometers, a surface water elevation of the temporary pond, new photographs, and an updated outline, if necessary, of the limestone containing areas.

The figure requested on July 1, 2003, indicating the grid pattern for borings in the limestone area, is not included with this progress report. It is more appropriate to include this figure, along with the proposed quantity of quality assurance tests, once the entire cell is excavated to the base grade and the areas containing limestone are surveyed more accurately. We anticipate preparing this figure for the next progress report.

We trust this submittal will satisfy the Department's request for a progress report. Please call us if you have any questions.

Very truly yours,

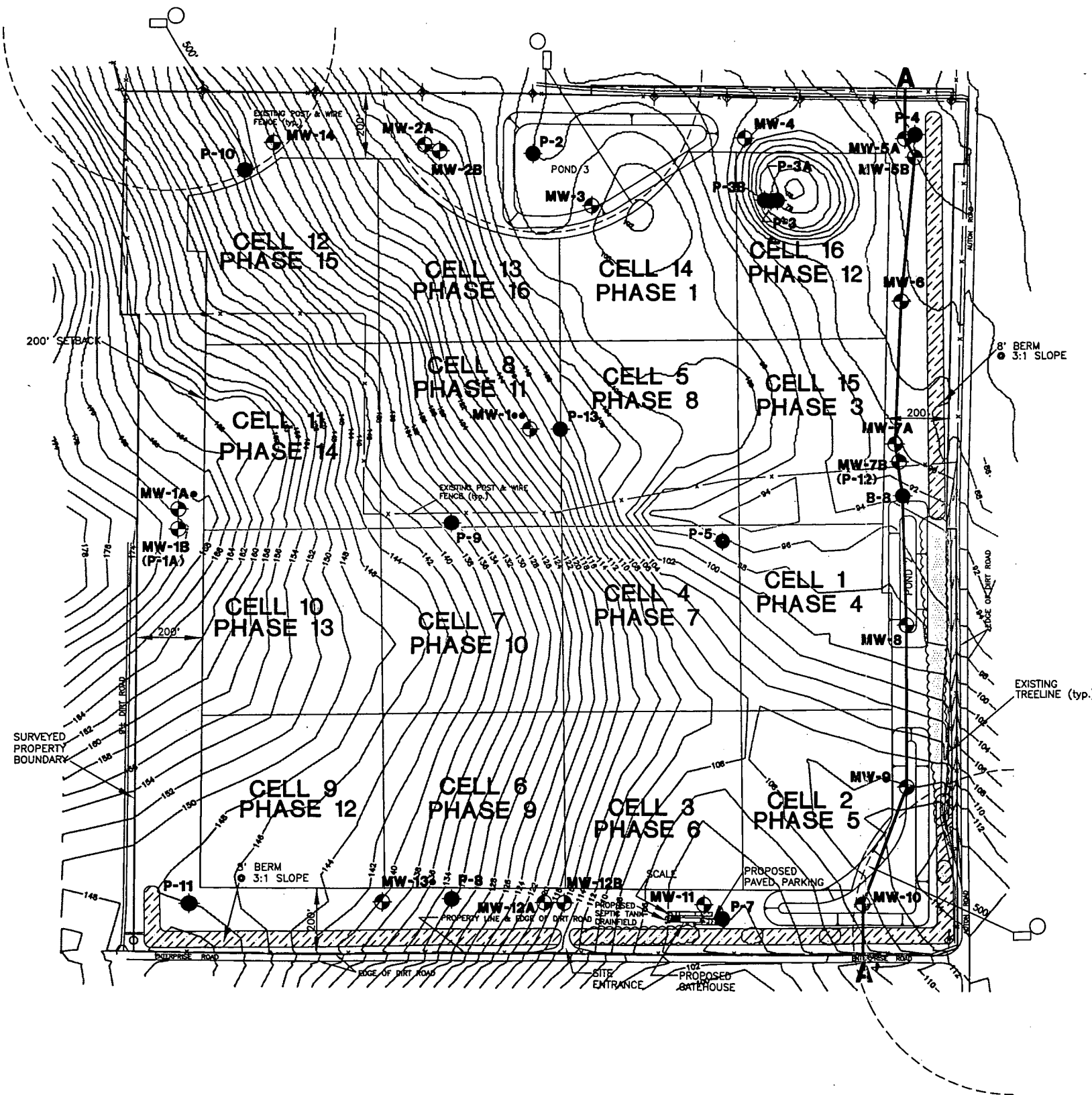
**Hartman & Associates, Inc.**

  
Jennifer L. Deal, P.E.  
Project Engineer

JLD/cr/99.0331.007/corresp/Ford4.jld

cc: Dominic Iafrate, Angelo's  
Craig Bryan, Angelo's  
Miguel A. Garcia, HAI  
Dale Claytor, HAI

ATTACHMENTS



#### LEGEND

- MW-2 - PROPOSED SURFICIAL AQUIFER DETECTION MONITOR WELL LOCATION
- MW-1B - PROPOSED FLORIDAN AQUIFER DETECTION MONITOR WELL LOCATION
- P-2 - EXISTING PIEZOMETER LOCATION
- PRIVATE POTABLE WELL LOCATION
- MW-13 - PERIODIC DRY SURFICIAL AQUIFER MONITOR WELL LOCATION
- MW-10 - BACKGROUND SURFICIAL AQUIFER MONITOR WELL TO BE ABANDONED PRIOR TO CELL 8 LANDFILLING
- NORTH TO SOUTH CROSS-SECTION

R:\CADD\DWG\19999-331.07\PROGPR\33107.mxd 6/30/03



**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

**MONITOR WELL AND PIEZOMETER LOCATION MAP  
ENTERPRISE RECYCLING AND DISPOSAL FACILITY  
DADE CITY, FLORIDA**

**FIGURE  
1**



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**CELL 1 LIMESTONE OUTLINE 6/24/03  
ENTERPRISE RECYCLING DISPOSAL FACILITY  
DADE CITY, FLORIDA**

## FIGURE 2

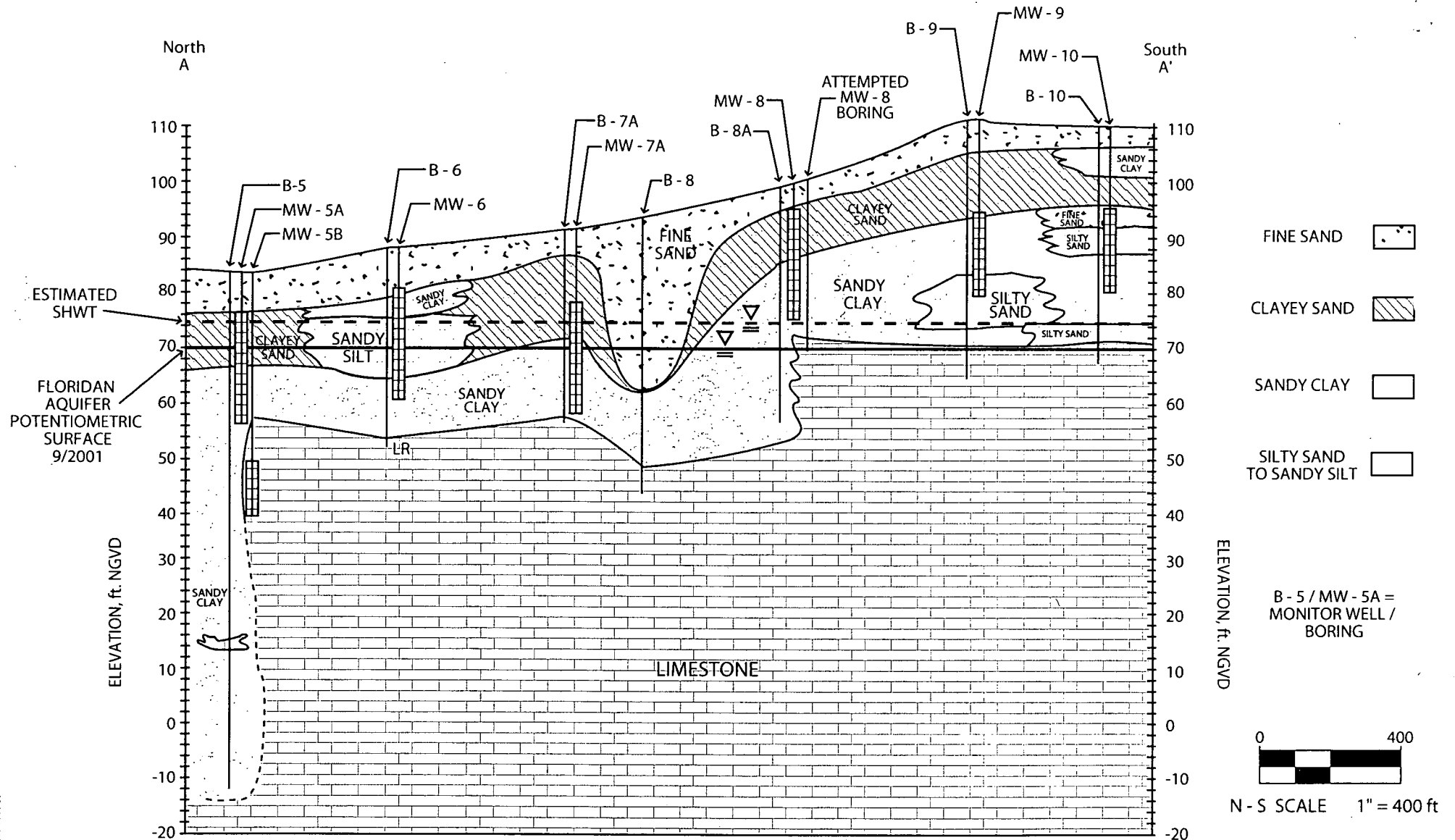


FIGURE  
3



**HARTMAN & ASSOCIATES, INC.**  
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GEOLOGIC CROSS SECTION A - A'  
ENTERPRISE RECYCLING AND DISPOSAL FACILITY  
DADE CITY, FLORIDA

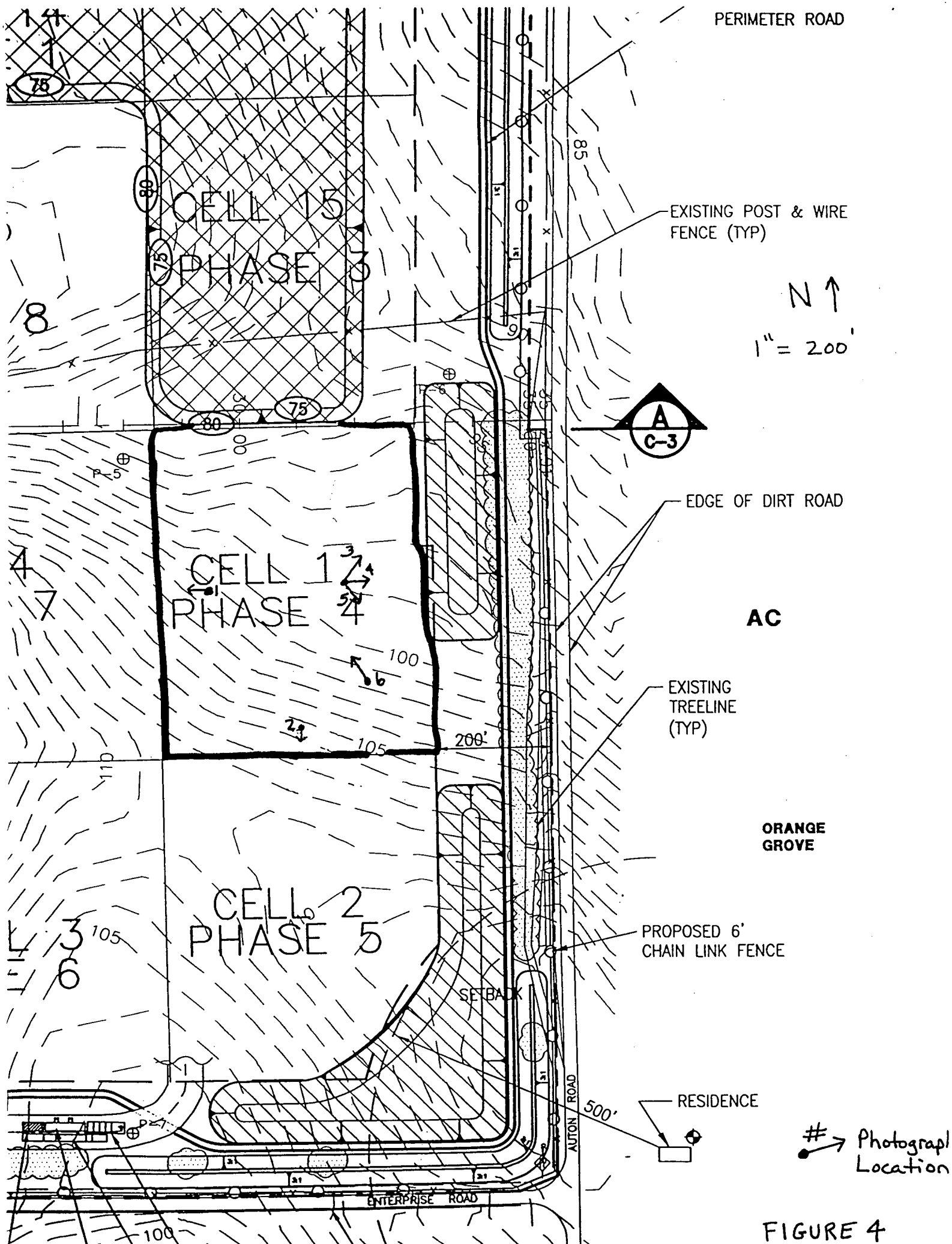


FIGURE 4

Distance (3' 1 Slope)



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6/30/03

# FIELD BORING LOG

West  
Slope

1 of 1

| DEPTH (FT) | SAMPLE   |        |        | BLOWS PER 6" | N-VALUE | BORING LOG | MATERIAL DESCRIPTION<br>CLASSIFICATION                              | WELL | REMARKS |
|------------|----------|--------|--------|--------------|---------|------------|---|------|---------|
|            | NO./TYPE | SYMBOL | % REC. |              |         |            |   |      |         |
| 5          |          |        |        |              |         |            | White clay with orange marl   |      |         |
| 10         |          |        |        |              |         |            | Same except slightly sticky   |      |         |
| 15         |          |        |        |              |         |            | Same  |      |         |
| 20         |          |        |        |              |         |            | Same  |      |         |
| 25         |          |        |        |              |         |            | White clay with orange marl and brownish orange clayey sand (mixed) |      |         |
| 30         |          |        |        |              |         |            | Same  |      |         |
| 0          |          |        |        |              |         |            | Well floor at ~ 30 from top of slope on this date                   |      |         |
| 5          |          |        |        |              |         |            |   |      |         |
| 0          |          |        |        |              |         |            |   |      |         |

PROJECT  
NUMBER: 99.0331.007  
NAME: Enterprise  
Road Landfill  
CLIENT: ANGELOS  
LOCATION: Dade City  
**BORING**  
GR. ELEV.:  
DIA-TYPE:  
DEPTH:  
DATE STARTED:  
DATE ENDED:  
**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**  
H.L. Clayton





HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

6/25/03

FIELD BORING LOG

South Slope  
Cell One

1 of 1

| DEPTH (FT) | SAMPLE   |        |        | BLOWS PER 6" | N-VALUE | BORING LOG | MATERIAL DESCRIPTION<br>CLASSIFICATION                        | WELL | REMARKS |
|------------|----------|--------|--------|--------------|---------|------------|---|------|---------|
|            | NO./TYPE | SYMBOL | % REC. |              |         |            |   |      |         |
| 5          |          |        |        |              |         |            | Dark brownish orange<br>slightly silty fine sand              |      |         |
| 10         |          |        |        |              |         |            | Dark brown slightly silty<br>fine sand                        |      |         |
| 15         |          |        |        |              |         |            | Dense, soft, white clay<br>w/orange mottling                  |      |         |
| 20         |          |        |        |              |         |            | Same  |      |         |
| 25         |          |        |        |              |         |            | white, sticky clay + limestone                                |      |         |
| 30         |          |        |        |              |         |            | white Limestone (Dry)   |      |         |
| 35         |          |        |        |              |         |            | white clay w/orange mottling                                  |      |         |
| 40         |          |        |        |              |         |            | Same  |      |         |
| 45         |          |        |        |              |         |            | Same  |      |         |
| 50         |          |        |        |              |         |            | white clay w/ <sup>fine</sup> limestone<br>fragments (sticky) |      |         |
|            |          |        |        |              |         |            | Cell floor at ~45' from<br>top of slope on this date          |      |         |
| 0          |          |        |        |              |         |            |   |      |         |

PROJECT

NUMBER: 99.0331.007

NAME: Enterprise

Road Landfill

CLIENT: ANGELOS

LOCATION: Dade City

BORING

GR. ELEV.:

DIAM-TYPE:

DEPTH:

DATE STARTED:

DATE ENDED:

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

H.L. Clayton



# HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

6/25/03

Dist: From top of  
slope down

## FIELD BORING LOG

East Slope

1 of 1

| DEPTH (FT) | SAMPLE   |        |        | BLOWS PER 6" | N-VALUE | BORING LOG | MATERIAL DESCRIPTION<br>CLASSIFICATION                         | WELL | REMARKS |
|------------|----------|--------|--------|--------------|---------|------------|--|------|---------|
|            | NO./TYPE | SYMBOL | % REC. |              |         |            |  |      |         |
| 5          |          |        |        |              |         |            | Brownish orange slightly silty fine sand                       |      |         |
| 10         |          |        |        |              |         |            | Brownish orange silty fine sand mixed with limestone fragments |      |         |
| 15         |          |        |        |              |         |            | Yellowish orange sandy clay                                    |      |         |
| 20         |          |        |        |              |         |            | Yellowish orange and white sandy clay                          |      |         |
| 25         |          |        |        |              |         |            | Orange clayey sand   |      |         |
| 30         |          |        |        |              |         |            | Orange sandy clay (slightly sticky)                            |      |         |
| 35         |          |        |        |              |         |            | Orange & white sandy clay                                      |      |         |
| 40         |          |        |        |              |         |            | Dark brownish orange sandy clay (slightly sticky)              |      |         |
| 45         |          |        |        |              |         |            | Dark orange & yellowish orange sandy clay (slightly sticky)    |      |         |
| 50         |          |        |        |              |         |            | Dense, hard, white and yellowish orange clay                   |      |         |
| 55         |          |        |        |              |         |            | Same   |      |         |
| 60         |          |        |        |              |         |            | Same   |      |         |
|            |          |        |        |              |         |            | Cell floor at 55' from top of slope on this date               |      |         |

Call ONE PROJECT

NUMBER: 99.0331.007

NAME: Enterprise

Road Landfill

CLIENT: ANGELOS

LOCATION: Dade City

BORING

GR. ELEV.: \_\_\_\_\_

DIA-TYPE: \_\_\_\_\_

DEPTH: \_\_\_\_\_

DATE STARTED: \_\_\_\_\_

DATE ENDED: \_\_\_\_\_

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

H.L. Clayton



2





3



4



5





6



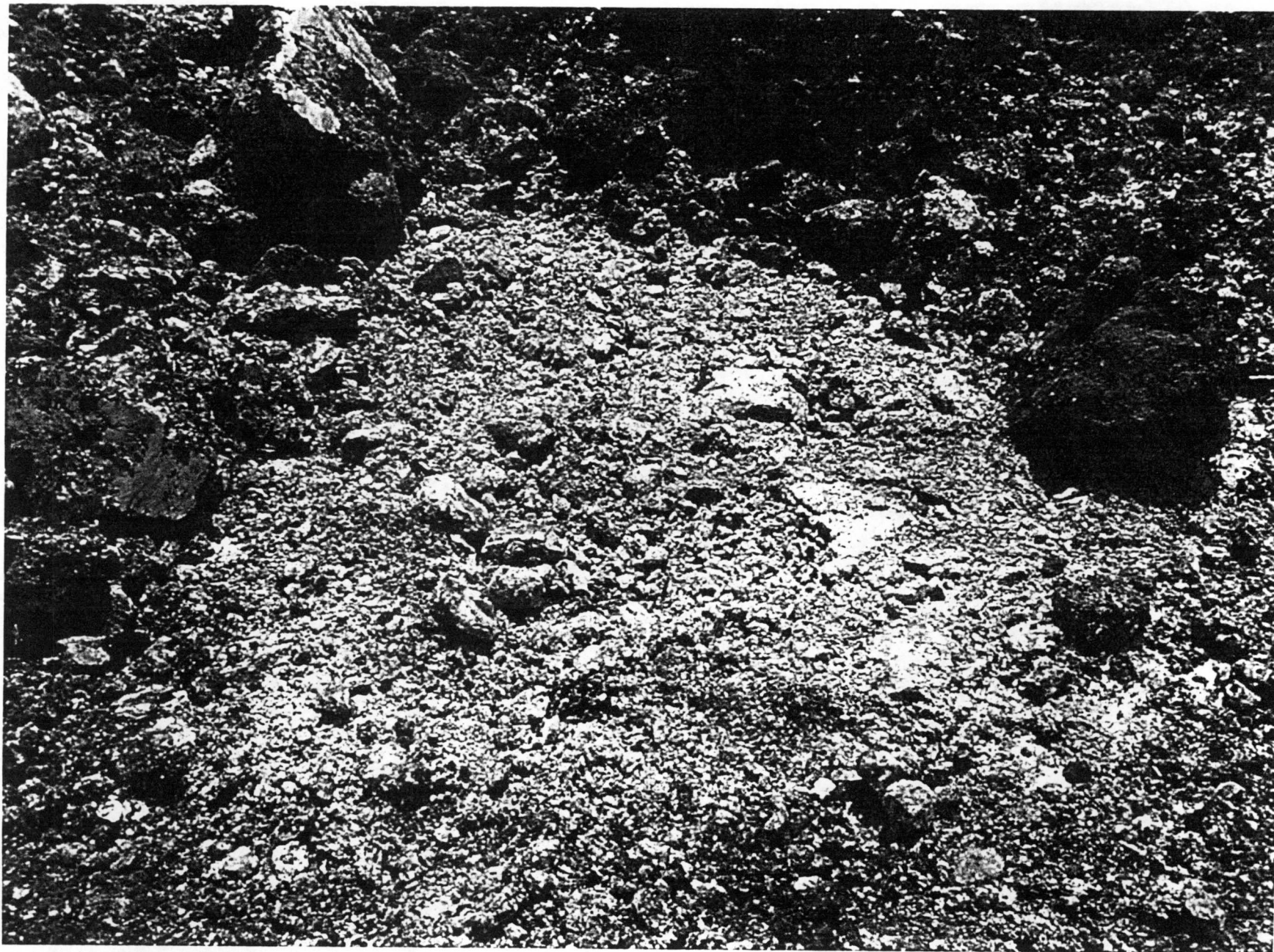


7



Location not shown on Figure 4

8



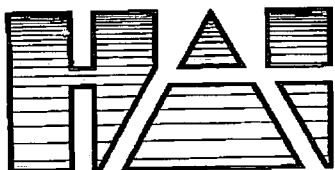
Location not shown on Figure 4



4



Location not shown on Figure 4

**HARTMAN & ASSOCIATES, INC.**

engineers, hydrogeologists, surveyors &amp; management consultants

201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801  
TELEPHONE (407) 839-3955 - FAX (407) 481-8447**FAX**

Job Number: 99.0331.007, Task 4, File 12.0

Date: 07/03/03

No. of pages incl. cover page: 3

To: Mr. Kim Ford, P.E.  
FDEP - Southwest District

Phone: (813) 744-6100 ext.382

Fax: (813) 744-6125

cc:

Re: Enterprise Landfill

From: Jennifer L. Deal, P.E.  
Hartman & Associates, Inc.

Phone: (407) 839-3955 ext. 187

Fax: (407) 839-2066

**REMARKS:**☐ Urgent☒ For your review☐ As Requested☐ Please comment

Kim,

Following is the progress report for Cell 1 construction at the Enterprise Recycling & Disposal Facility. A hard copy will be sent overnight via UPS and will include photographs, figures, and soil descriptions for the side slopes. The table of groundwater elevations in the monitor wells referenced in the letter will be sent under separate cover. HAI expected to receive the top of casing elevations from the surveyor today, however, as of now, this information has not been provided. Please call me if you have any questions regarding the submittal.

Jennifer

The information contained in this facsimile transmission may be legally privileged and is intended for the use of the individual(s) or entity(ies) named above. If you are not the intended recipient, you are hereby notified that any use dissemination, distribution or copying of this facsimile or its information is strictly prohibited. If you have received this facsimile in error, please immediately notify the sender by telephone or facsimile using the above referenced number to arrange for the return of the original documents.

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July 3, 2003

HAI #99.0331.007

Phase 4

File 12.0

**Via Facsimile and UPS Overnight**

Mr. Kim Ford, P.E.  
 Florida Department of Environmental Protection  
 Southwest District  
 3804 Coconut Palm Drive  
 Tampa, Florida 33619

**Subject: Cell 1 Construction Progress Report  
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 FDEP Permit Nos. 177982-001-SC, 177982-002-SO  
 Pasco County, Florida**

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As requested on June 19, 2003, we developed a north-south geologic cross-section through the monitor wells and piezometers along the eastern boundary of the landfill footprint. The location of the cross-section is indicated on Figure 1, attached. The cross-section, based on boring logs of each location, is attached as Figure 3. Also as requested, soil descriptions of the center points of the west, south, and east slopes of Cell 1 are attached for your review. Photographs of the slopes are attached. As requested on July 1, 2003, we used the figure included with our June 10, 2003 submittal to indicate the locations and directions of the photographs. This has been attached as Figure 4. Numbered photographs are attached.

Mr. Kim Ford, P.E.

July 3, 2003

Page 2

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Very truly yours,

Hartman & Associates, Inc.

  
Jennifer L. Deal, P.E.  
Project Engineer

JLD/cr/99.0331.007/corresp/Ford4.jld

cc: Dominic Iafrate, Angelo's  
Craig Bryan, Angelo's  
Miguel A. Garcia, HAI  
Dale Claytor, HAI

**Ford, Kim**

---

**From:** Ford, Kim

**Sent:** Tuesday, July 01, 2003 3:04 PM

**To:** Pelz, Susan; Morris, John R.

**Subject:** conversation with Jennifer Deal about Enterprise CIII

On July 1, 2003 at 2:35pm I spoke with J.D. and discussed the following:

1. I requested the site location for each of the photos (provided as part of the June 24th plan)
2. I requested all info previously requested (see June 19th conversation record)
3. I requested water elevations in NGVD not the depth to water.
4. Jennifer said part of the cell already excavated to design elevation and surveyors are on site today.
5. I requested the survey (as part of the weekly progress report) show the completed area elevations.
6. I requested the CQA be included as part of the weekly progress report and include the location of all proposed borings on a grid, proposed permeability locations, test pit locations, double ring infiltrometer test locations, and sieve analysis for each boring.
7. I requested the weekly progress report provide a work schedule.

Kim

7/1/2003

**Ford, Kim**

---

**From:** Pelz, Susan  
**Sent:** Monday, June 30, 2003 1:25 PM  
**To:** Morgan, Steve; Ford, Kim; Ross, Lora; Morris, John R.; Petro, Stephanie  
**Subject:** FW: Angelo's

FYI- info about Enterprise Class III. I got a call from Jennifer Deal (Hartman & Assoc) about this-- I will be calling her back.

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

**From:** McGuire, Chris  
**Sent:** Monday, June 30, 2003 1:15 PM  
**To:** 'Dan Thompson'  
**Cc:** Wick, Fred; Pelz, Susan  
**Subject:** RE: Angelo's

I am certain that there is confusion here, but hopefully it is not all mine. Susan Pelz told us last week that the permit authorizes construction of 6 acres, and that the long term care cost estimate was for the cost of long term care for the 6-acre permitted site. Not having seen the permit I don't know what it says about the 110 acres your client hopes to build over the next thirty years, but since our permits only last for five years it would be atypical for this permit to authorize construction of 110 acres over thirty years. While I don't doubt that your client has a conceptual plan for the 110 acres, and may even have included this in the permit application, it is not a given that the landfill will be permitted to expand to 110 acres.

The point of closure and long term care is to provide enough money to close and monitor the landfill at the time that closure is most expensive. If your client cannot get a permit to expand for whatever reason and must close the landfill, the escrow account is supposed to have enough money in it to cover the costs of closure and long term care at that point. Using your two escrow accounts, there should be enough money to close the landfill. However, there will be something in the neighborhood of \$200,000 in the long term care escrow account when the current permit expires, obviously not nearly enough to cover 30 years of monitoring and maintaining the 6 acres.

Perhaps there is some confusion over the term "active life" in the pay-in formula. It is defined as the "operating life of the landfill as estimated in the construction permit or closure plan." While this is perhaps not the clearest definition in our rule, we don't interpret it to mean an operating life of an entire piece of property that one wishes to obtain, but instead an operating life for the area which is permitted to be constructed. If you construct a large area under your permit, it may have an operating life of more than five years. But this term would not include the operating life of areas which are not permitted to be constructed but are merely future cells that a permittee hopes to build one day.

Which is not to say that we have never allowed a permittee to submit a closure cost estimate for future areas not yet permitted to be constructed. Let's assume for a moment that the LTC costs for the 6-acre site would be \$3 million (your current estimate), while the LTC costs for the 110-acre proposed site would be \$10 million (a made up number). If you were posting a bond or letter of credit, we would allow you to either put up a \$10 million bond and do normal annual adjustments, or put up a \$3 million bond. If you choose the latter, however, you would have to have your engineer put together a separate LTC estimate for the 6-acre site, then do another LTC estimate for the next permitted area, etc. Some applicants find it easier to just do the one big LTC estimate and absorb the additional costs of a larger bond, and we don't care because the bond will always be big enough to cover LTC costs if the landfill closes early. In the case of an escrow account (we admittedly have little experience with privately funded escrow accounts), which is funded over a longer period of time, we would not necessarily allow this because the account will not always be big enough to cover LTC costs if the landfill closes early. Using these same numbers, for example, we would require that the escrow account be funded so that when the 6-acre site closed, the account would have \$3 million in it. Even if you proposed to fund the \$10 million over thirty years, the account would only have \$600,000 at the end of two years, not enough for LTC.

Again, it may be that there is some mix-up over the LTC cost estimate; I don't know whether your client intended that to cover the 6 acres or the 110 acres, but we reviewed it as though it applied only to the 6 acres currently permitted. Our clients should probably talk about that.

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

**From:** Dan Thompson [mailto:dant@bergersingerman.com]

6/30/2003



**Sent:** Monday, June 30, 3 10:29 AM  
**To:** McGuire, Chris  
**Cc:** Wick, Fred  
**Subject:** RE: Angelo's

Chris: I may be confused. I have two escrow agreements, one for Cell 1/Phase 4, which is 6.08 acres, and the other is for the "Facility authorized for construction under Permit No. 177982-001-(SC) (110 acres)", which is the approximately \$3,000,000 escrow. See Section 2. Section 3 provides that the Grantor deposits one thirtieth of this amount each year over the thirty year life of the facility, with the DEP able to review and adjust this on an annual basis. So, it is set up on a year by year basis assuming an orderly development of the landfill, but can be changed if the build out proceeds at either a slower or quicker pace.

I am not sure where you get the idea for the latter escrow only being for the six acre site, unless maybe you only received one escrow agreement. Might there be some confusion here? dt

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>>> "McGuire, Chris" <[Chris.McGuire@dep.state.fl.us](mailto:Chris.McGuire@dep.state.fl.us)> 06/30/03 09:55AM >>>

Dan, we are not taking the position that the escrow must be provided up front in its entirety; in fact, the problem really is that it is not structured on a cell-by-cell basis.

We are okay with the escrow account for closure of the site. The approved closure cost estimate is about \$600,000 to close the permitted 6-acre site, spread over 1.83 years which is the anticipated active life of that area. The problem is with the long term care escrow account. In that case, the approved closure cost estimate for the 6-acre site is about \$3 million, but for some reason this is spread over a 30.3 year period, which is described as the "active life" of the facility. We thought at first that perhaps the \$3 million estimate was supposed to cover a larger facility (I presume that Angelos hopes to expand their currently permitted area in the future - is that where the 30.3 years came from?), but Susan Pelz says that it only covers the 6 acres. However, it does appear that there may be more ground water wells in the plan than would be required to monitor the 6-acre site, and Susan would be amenable to modifying the long term care cost estimate to relook at the appropriate number of wells. Even then, though, the pay-in period for the long term care cost estimate would be 1.83 years, not 30.3 years. Rule 62-701.630(5)(d)3. is clear that the long term care costs must be fully funded when the landfill closes. At this point, the landfill is scheduled to close in 1.83 years, and that is when the escrow account must be funded. If in the future we issue a permit to expand the landfill, the long term care pay-in period can be adjusted.

Make sense?

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

**From:** Dan Thompson [<mailto:dant@bergersingerman.com>]  
**Sent:** Friday, June 27, 2003 11:09 AM  
**To:** McGuire, Chris  
**Subject:** Angelo's

Chris: Please call to discuss this. As I understand it, the DEP is taking the position that the escrow must be provided up front in its entirety, as opposed to on a cell by cell basis. This issue is holding up getting the landfill going. Your prompt response is greatly appreciated. dt

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6/30/2003

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6/30/2003