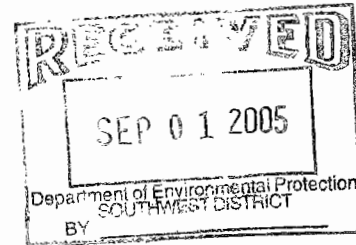


1004944



September 1, 2005
File No. 09200020.15

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



Subject: Remaining Disposal Capacity and Site Life
Southeast County Landfill Phases I-VI
Permit No.: 35435-006-SO

Dear Ms. Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), SCS Engineers (SCS) is submitting the annual topographic survey, remaining disposal capacity, and site life for the Southeast County Landfill (SCLF) Phases I-VI. This update is being submitted in accordance with Specific Condition 11.b. of the subject permit.

The aerial survey was performed by Pickett and Associates, Inc., (Pickett) on July 5, 2005 and a topographic map was prepared from that aerial survey. The Survey and Report of Survey from Pickett is contained in Attachment 1. As shown from the topography map, the Phase I-VI area, as well as the Capacity Expansion Area, has been filled in accordance with the permitted filled sequence plans.

As part of permit conditions, the SWMD is required to keep waste records for the amount of waste disposed at the SCLF. In addition to waste records, monthly surveys are performed to determine the actual airspace consumed by waste, daily and intermediate cover soils. Since opening in 1984, the monthly waste tonnage and the amount of airspace consumed have been recorded and totaled. The total airspace consumed to-date (i.e., January 1984 through July 2005) is approximately 9,863,000 cubic yards (cy). Refer to Attachment 2 for the historical record for the SCLF.

As shown on the historical record, some months after December 2004 indicate that no waste was disposed in the Phase I-VI areas. This is because the Capacity Expansion Area, located north of the Phase I-VI area was constructed and approximately every other month, waste is diverted from Phase I-VI and disposed in the Capacity Expansion Area.

As of June 2005, the temporary filling in Section 7 of the Capacity Expansion was completed. The outer sideslopes have not reached their final design 3H:1V slope. The temporary sideslopes of Section 7 will be filled to reach their maximum design slope of 3H:1V upon construction of Section 8 and future cells. To estimate the amount of airspace consumed for the Phase I-VI area in 2005, a monthly airspace consumption rate was computed based upon the total amount airspace consumed for the year divided by the number of months recorded for disposal. This was estimated to be approximately 64,775 cy of airspace consumed per month. A total of 9,863,000 cy was consumed through July 2005. Therefore an additional 323,875 cy was estimated for airspace



Ms. Susan J. Pelz, P.E.
September 1, 2005
Page 2

consumption from August through December 2005 (i.e. 64,775 cy per month times 5 months). Based upon these assumptions, the total estimated airspace to be consumed by the end of December 2005 would be 10,186,875 cy. Refer to Attachment 3 for 2005 airspace consumption estimates.

Per the previous annual capacity calculations prepared by SCS, the total available airspace capacity for Phases I-VI was estimated to be 20,063,000 cy (based upon the current permitted buildout plans). Based upon the amount of airspace consumed since 1984 and the projected airspace to be consumed through December 2005, approximately 9,876,125 cy (i.e. 20,063,000 cy minus 10,186,875 cy) would be remaining for waste disposal.

To estimate the remaining site life for the Phase I-VI area, the projected airspace consumption beyond 2005 was based upon population projections for the SCLF service area, assumed in-place compaction densities, and an annual waste generation of 0.55 tons per person. The annual waste generation rate of 0.55 tons per person is a conservative estimate since historically the average has been around 0.45 tons per person. However, actual waste records are indicated that disposal rates are continuing to grow and the future maintenance on the waste-to-energy plants will impact the amount of waste currently being reduced to ash. Therefore a conservative estimate of 0.55 tons per person per year was used to project site life. Based upon these projections, and assuming that 50 percent of the annual waste will be diverted to the Capacity Expansion Area, the Phase I-VI area was projected to reach capacity by the end of year 2024. A minimal amount of airspace, approximately 162,891 cy, was estimated to be available in 2025 however this would only represent approximately four months of disposal. Thus, the total site life, from 1984 through the project closing in 2024, was estimated to be approximately 40 years. Refer to Attachment 4 for the remaining site life calculations.

Please do not hesitate to call if you have any questions or need additional information.

Sincerely,



Joseph H. O'Neill, P.E.
Project Manager
SCS ENGINEERS



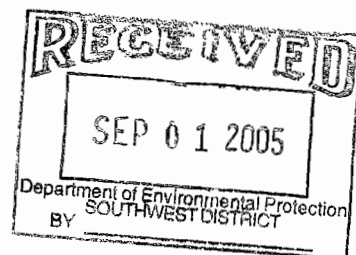
Raymond J. Dever, P.E., DEE
Vice President
SCS ENGINEERS

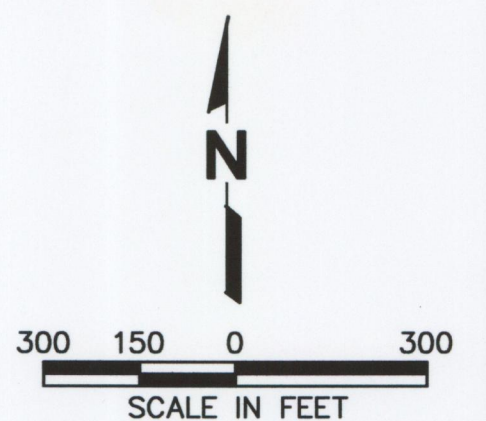
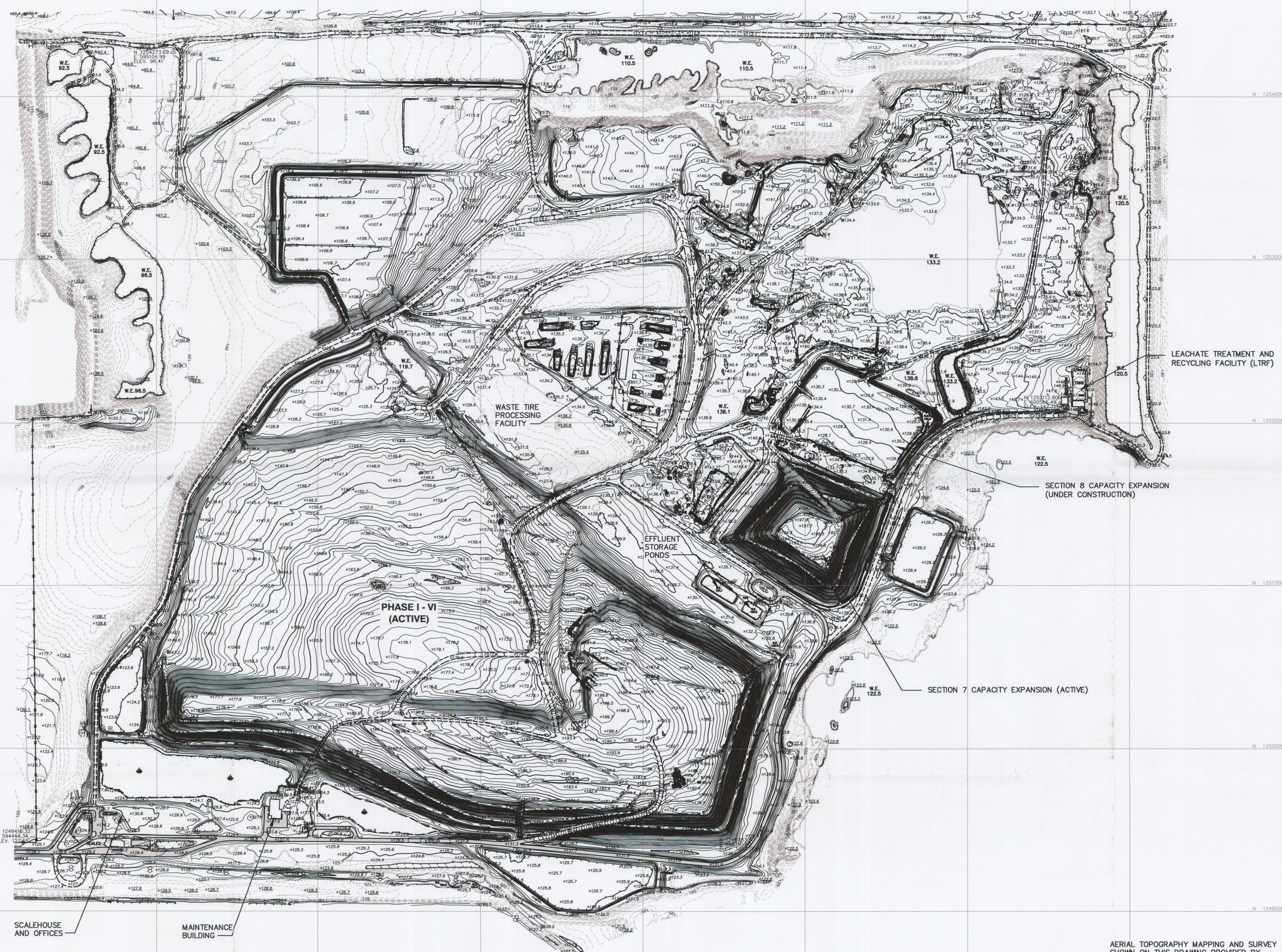
cc: Patty Berry, SWMD
Larry Ruiz, SWMD
Ron Cope, EPC

JHO/RJD:jho
Attachment

ATTACHMENT 1

SOUTHEAST COUNTY LANDFILL TOPOGRAPHIC SURVEY





AERIAL TOPOGRAPHY MAPPING AND SURVEY
SHOWN ON THIS DRAWING PROVIDED BY
PICKETT AND ASSOCIATES INC. DATE OF
AERIAL PHOTOGRAPHY JULY 05, 2005

DRAWING TITLE		ANNUAL TOPOGRAPHY MAPPING AND SURVEY	
PROJECT TITLE		SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA	
CLIENT		HILLSBOROUGH COUNTY SOLID WASTE MANAGEMENT DEPARTMENT TAMPA, FLORIDA	
BY			
DATE			
REV			
DESCRIPTION			
CADD FILE:		000215SURVEY	
DATE:		AUGUST 2005	
SCALE:		AS SHOWN	
DRAWING NO.		1 of 1	
SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619 PH (813) 821-0080 FAX NO. (813) 823-9757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892		RAYMOND J. DEVER, P.E. CERTIFICATE NO. 43031	

ATTACHMENT 2
SOUTHEAST LANDFILL MONTHLY TONNAGE
PHASES I-VI

SOUTHEAST LANDFILL MONTHLY TONNAGE
Phases I-VI

DESCRIPTION	YEAR	TOTAL	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	April	May	June	July	Aug.	Sept.
VOLUMES	1999	702,461	63,902	53,017	67,730	39,258	37,933	46,193	59,660	50,272	44,747	71,493	73,819	94,437
TONNAGE		464,245	38,869	35,987	41,972	36,025	33,690	36,861	38,709	37,254	33,767	41,420	43,791	45,900
AVG DENSITY		1,322	1,217	1,358	1,239	1,835	1,776	1,596	1,298	1,482	1,509	1,159	1,186	972
VOLUMES	2000	797,444	52,581	61,579	65,080	75,535	57,155	89,867	75,832	76,249	51,835	69,584	69,452	52,695
TONNAGE		508,096	37,703	40,756	38,754	43,616	38,421	52,438	43,287	45,496	44,434	43,756	43,118	36,317
AVG DENSITY		1,274	1,434	1,324	1,191	1,155	1,344	1,167	1,142	1,193	1,714	1,258	1,242	1,378
VOLUMES	2001	789,344	43,967	50,929	52,468	80,758	89,781	70,425	65,637	77,506	61,492	66,165	80,362	49,854
TONNAGE		523,020	35,486	37,107	34,795	49,462	47,871	49,918	44,879	45,642	45,166	47,471	49,465	35,758
AVG DENSITY		1,325	1,614	1,457	1,326	1,225	1,066	1,418	1,367	1,178	1,469	1,435	1,231	1,435
VOLUMES	2002	667,825	43,044	44,558	50,434	57,550	50,996	56,983	47,658	57,112	63,167	69,221	64,162	62,940
TONNAGE		451,802	36,640	35,630	38,064	41,723	35,051	38,744	39,885	38,385	34,885	36,812	38,073	37,910
AVG DENSITY		1,353	1,702	1,599	1,509	1,450	1,375	1,360	1,674	1,344	1,105	1,064	1,187	1,205
VOLUMES	2003	702,590	58,316	46,763	55,937	52,221	55,780	70,059	70,445	54,949	59,713	63,944	58,222	56,241
TONNAGE		490,968	41,081	33,800	39,905	45,175	38,041	46,334	45,023	39,382	39,456	42,500	40,809	39,462
AVG DENSITY		1,398	1,409	1,446	1,427	1,730	1,364	1,323	1,278	1,433	1,322	1,329	1,402	1,403
VOLUMES	2004	376,708	74,534	0	66,017	28,052	0	75,493	0	0	63,069	0	69,543	0
TONNAGE		261,211	52,212	0	46,251	20,138	0	49,441	0	0	44,320	0	48,849	0
AVG DENSITY		1,387	1,401	0	1,401	1,436	0	1,310	0	0	1,405	0	1,405	0
VOLUMES	2005	323,875				0	66,099	71,608	63,738		62,350	60,080		
TONNAGE		240,624				0	46,340	50,152	47,271		53,174	43,687		
AVG DENSITY		1,486				0	1,402	1,401	1,483		1,706	1,454		

TOTAL TO DATE VOLUME, CY	9,863,000
TOTAL TO DATE TONS	8,336,000
	1,690

f:\project\hillsborough\09200020 11\calcs\selife.xls (Tonnage)

Note The actual volumes are not available for years 1984 to 1989, assume the average density is 2000 lb/cy for those years

Revised on 01-24-01 January 96 through December 99 to tonnages as supplied by HCSWMD

ATTACHMENT 2
Page 1/1

SOUTHEAST LANDFILL MONTHLY TONNAGE
Phases I-VI

DESCRIPTION	YEAR	TOTAL	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	April	May	June	July	Aug	Sept.
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VOLUMES	2000	797,444	52,581	61,579	65,080	75,535	57,155	89,867	75,832	76,249	51,835	69,584	69,452	52,695
TONNAGE		508,096	37,703	40,756	38,754	43,616	38,421	52,438	43,287	45,496	44,434	43,756	43,118	36,317
AVG. DENSITY		1,274	1,434	1,324	1,191	1,155	1,344	1,167	1,142	1,193	1,714	1,258	1,242	1,378
VOLUMES	2001	789,344	43,967	50,929	52,468	80,758	89,781	70,425	65,637	77,506	61,492	66,165	80,362	49,854
TONNAGE		523,020	35,486	37,107	34,795	49,462	47,871	49,918	44,879	45,642	45,166	47,471	49,465	35,758
AVG. DENSITY		1,325	1,614	1,457	1,326	1,225	1,066	1,418	1,367	1,178	1,469	1,435	1,231	1,435
VOLUMES	2002	667,825	43,044	44,558	50,434	57,550	50,996	56,983	47,658	57,112	63,167	69,221	64,162	62,940
TONNAGE		451,802	36,640	35,630	38,064	41,723	35,051	38,744	39,885	38,385	34,885	36,812	38,073	37,910
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VOLUMES	2003	702,590	58,316	46,763	55,937	52,221	55,780	70,059	70,445	54,949	59,713	63,944	58,222	56,241
TONNAGE		490,968	41,081	33,800	39,905	45,175	38,041	46,334	45,023	39,382	39,456	42,500	40,809	39,462
AVG. DENSITY		1,398	1,409	1,446	1,427	1,730	1,364	1,323	1,278	1,433	1,322	1,329	1,402	1,403
VOLUMES	2004	376,708	74,534	0	66,017	28,052	0	75,493	0	0	63,069	0	69,543	0
TONNAGE		261,211	52,212	0	46,251	20,138	0	49,441	0	0	44,320	0	48,849	0
AVG. DENSITY		1,387	1,401	0	1,401	1,436	0	1,310	0	0	1,405	0	1,405	0
VOLUMES	2005	323,875				0	66,099	71,608	63,738		62,350	60,080		
TONNAGE		240,624				0	46,340	50,152	47,271		53,174	43,687		
AVG. DENSITY		1,486				0	1,402	1,401	1,483		1,706	1,454		

TOTAL TO DATE VOLUME, CY **9,863,000**
TOTAL TO DATE TONS **8,336,000**
1,690

f:\project\hillsborough\09200020.1\calcs\selife.xls (Tonnage)

Note: The actual volumes are not available for years 1984 to 1989; assume the average density is 2000 lb/cy for those years.

Revised on 01-24-01. January 96 through December 99 to tonnages as supplied by HCSWMD

ATTACHMENT 2
Page 1/1

ATTACHMENT 3

ANNUAL CAPACITY PHASES I-VI

CLIENT Hillsborough County	PROJECT Southeast County Landfill	JOB NUMBER 04200020.15
SUBJECT Annual Capacity Phases I-VI	BY DHS	DATE 8/25/05
	CHECKED ALC	DATE 8/31/05

OBJECTIVE : TO CALCULATE THE REMAINING SITE LIFE FOR PHASES I-VI

ATTACHMENT: (1) SEUFE.xls - Southeast Landfill monthly tonnages Phases I-VI
(2) SCLF site life calculations (Phases I-VI)

- per Attachment 1

TOTAL TO DATE Volume = 9,863,000 cy (January 1984 - July 2005)

2005 (5mo) TO DATE Volume = 323,875 cy

Remainder of 2005 (Aug, Sept, Oct, Nov, Dec = 5mo) will go to Phases I-VI

Therefore, additional volume would be:

$$\text{Volume} = 323,875 \times \frac{5 \text{ mo}}{12 \text{ mo}} = 134,948 \text{ cy} \quad (\sim 64,775 \text{ per month})$$

↑ Avg/mo ↑ remains in 2005

$$\text{Additional vol in 2005} = 323,875 + 134,948 = 458,823 \text{ cy} \quad \checkmark$$

$$\text{TOTAL 1984-2005 Volume} = 9,863,000 + 458,823 = 10,321,823 \text{ cy} \quad \checkmark$$

← Remaining 5 months

- per previous Annual Capacity calculations total capacity at Phases I-VI is 20,063,000 cy. Therefore the remainder capacity would be:

$$\text{Volume } 20,063,000 - 10,321,823 = 9,741,177 \text{ cy} \quad \checkmark$$

(Attachment 4)

After 2024 per Attachment 2 Phases I-VI Remainder Volume, V = 25,352 cy.

Volume occupied in 2025 based on density & tonnages (which were based on projections & per capita of 0.55 tons per person) V = 584,670 cy.

$$\therefore \text{per month, } V = \frac{576,980 \text{ cy}}{12 \text{ mo}} = 48,081.67 \text{ cy/mo}$$

$$\frac{162,891 \text{ cy}}{48,081.67 \text{ cy/mo}} = 3.4 \text{ months}$$

≈ 4 months

Conclusion Phases I-VI will fill up in April 2025

ATTACHMENT 4
SITE LIFE CALCULATIONS

1. Actual Disposal and Volume Shown, 1999-2004.
 2. Remaining Capacity includes cover soils
- Projected quantities in italics*

Site Life Calculation Phases I-VI
50% Diversion to Future Sections of Capacity Expansion

Year	Disposal at LF ¹		Density lb/cy	Remaining Capacity ² cy
	tons	cy		
1999	464,245	702,461	1,322	
2000	508,096	799,444	1,271	
2001	523,020	789,344	1,325	
2002	451,802	667,825	1,353	
2003	490,968	702,590	1,398	
2004	261,211	376,708	1,387	
2005	305,737	436,767	1,400	9,876,125
2006	312,991	447,130	1,400	9,428,995
2007	319,525	456,465	1,400	8,972,530
2008	325,278	464,683	1,400	8,507,847
2009	330,143	471,633	1,400	8,036,214
2010	334,598	477,997	1,400	7,558,217
2011	338,767	483,953	1,400	7,074,264
2012	342,936	489,909	1,400	6,584,355
2013	347,105	495,864	1,400	6,088,491
2014	351,274	501,820	1,400	5,586,671
2015	355,443	507,776	1,400	5,078,895
2016	360,826	515,465	1,400	4,563,430
2017	366,208	523,155	1,400	4,040,276
2018	371,591	530,844	1,400	3,509,432
2019	376,973	538,533	1,400	2,970,899
2020	382,356	546,223	1,400	2,424,676
2021	387,738	553,912	1,400	1,870,764
2022	393,121	561,601	1,400	1,309,162
2023	398,504	569,291	1,400	739,871
2024	403,886	576,980	1,400	162,891
2025	409,269	584,670	1,400	-421,778
2026	414,651	592,359	1,400	-1,014,137
2027	420,034	600,048	1,400	-1,614,186
2028	425,416	607,738	1,400	-2,221,924
2029	430,799	615,427	1,400	-2,837,351
2030	436,182	623,117	1,400	-3,460,468
2031	441,564	630,806	1,400	-4,091,274
2032	446,947	638,495	1,400	-4,729,769
2033	452,329	646,185	1,400	-5,375,954
2034	457,712	653,874	1,400	-6,029,828

Waste projection x 0.50
Assuming a density of
1400 lb/cy See Attachment
4 page 2/2

Actual quantities that
was disposed in Phases I-VI
See Attachment 3.
See Attachment 2

1984-2024
40 yrs

↑ tons per year = population x tons/capita = tons per year

50% Diversion = 50% into Phase I-VI

50% into Capacity Expansion

1. Actual Disposal, 1989-2001
2. Population data from Hillsborough County City-County Planning Commission. Data from US Bureau of the Census and BEBR Population Studies, 1995.
Population data estimated from Hillsborough County City-County Planning Commission data.
US Bureau of the Census, census data.
3. 2000-2025: Average tons/person landfilled from 1987-1999 (SCS).
Hillsborough County City-County Planning Commission population projections

Disposal at LF ¹		Population ²	tons/person ³
Year	tons		
1984	104,563	703,825	0.15
1985	661,126	747,881	0.88
1986	629,888	770,035	0.82
1987	442,095	774,856	0.57
1988	420,183	791,135	0.53
1989	383,454	805,175	0.48
1990	353,000	811,300	0.44
1991	268,000	818,062	0.33
1992	244,000	825,992	0.30
1993	247,000	835,149	0.30
1994	279,000	844,884	0.33
1995	294,000	866,010	0.34
1996	319,446	880,430	0.36
1997	358,006	895,610	0.40
1998	393,752	912,070	0.43
1999	464,245	930,620	0.50
2000	508,096	969,033	0.52
2001	523,020	996,370	0.52
2002	451,802	1,024,230	0.44
2003	490,968	1,051,590	0.47
2004	545,661	1,083,480	0.50
2005	611,474	1,111,770	0.55
2006	625,983	1,138,150	0.55
2007	639,051	1,161,910	0.55
2008	650,557	1,182,830	0.55
2009	660,286	1,200,520	0.55
2010	669,196	1,216,720	0.55
2011	677,534	1,231,880	0.55
2012	685,872	1,247,040	0.55
2013	694,210	1,262,200	0.55
2014	702,548	1,277,360	0.55
2015	710,886	1,292,520	0.55
2016	721,651	1,312,093	0.55
2017	732,416	1,331,666	0.55
2018	743,181	1,351,239	0.55
2019	753,947	1,370,812	0.55
2020	764,712	1,390,385	0.55
2021	775,477	1,409,958	0.55
2022	786,242	1,429,531	0.55
2023	797,007	1,449,104	0.55
2024	807,772	1,468,677	0.55
2025	818,538	1,488,250	0.55
2026	829,303	1,507,823	0.55
2027	840,068	1,527,396	0.55
2028	850,833	1,546,969	0.55
2029	861,598	1,566,542	0.55
2030	872,363	1,586,115	0.55

- 0.45 Average tons/per Landfilled over 17 years 1984-2000 (SCS)
 0.46 Average tons/per Landfilled over 18 years 1984-2001 (SCS)
 0.45 Average tons/per Landfilled over 19 years 1984-2002 (SCS)
 0.46 Average tons/per Landfilled over 20 years 1984-2003 (SCS)
 Begin 50% diversion to Section 7 January 5, 2004

0.55 per capita waste generation as per the county

(CONSERVATIVE WASTE GENERATION RATE
HISTORICAL RATE VARIES ~ 0.45 Tons/capita)

SCS ENGINEERS

TO Florida Department of Environmental Protection
3804 Coconut Palm
Tampa, Florida 33619

DATE September 2, 2005
JOB NO. 09200020.15
ATTENTION Ms. Susan J. Pelz, P.E.
Re: Southeast County Landfill

WE ARE SENDING YOU

- ☒ Attached ☐ Under separate cover via _____
- ☐ Shop drawings ☐ Prints
- ☐ Copy of letter ☐ Change Order
- ☐ The following items: ☐ Plans ☐ Samples
- ☐ Specifications ☐ Other

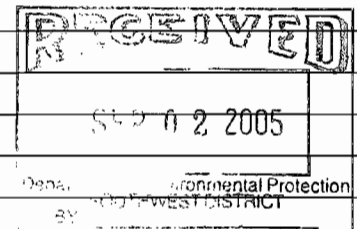
COPIES	DATE	DESCRIPTION
1	09/02/2005	Remaining Disposal Capacity and Site Life - signed and sealed aerial

THESE ARE TRANSMITTED as check below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit Copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit Copies distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return Corrected prints |
| <input type="checkbox"/> For signature | <input type="checkbox"/> Other | |
| <input type="checkbox"/> FOR BIDS DUE | | |

REMARKS We mistakenly attached the wrong aerial by Pickett, which was not signed and sealed by Ray Dever. Please find attached a signed and sealed aerial and the report survey by Pickett. Sorry for the inconvenience. If you have any questions please call us.

COPY TO _____



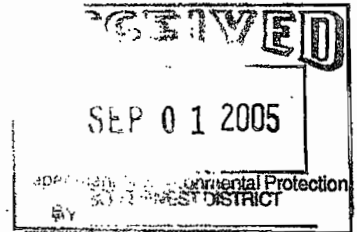
If enclosures are not as noted, kindly notify us at once.



SCS ENGINEERS

September 1, 2005
File No. 09200020.15

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



Subject: Remaining Disposal Capacity and Site Life
Southeast County Landfill Phases I-VI
Permit No.: 35435-006-SO

Dear Ms. Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), SCS Engineers (SCS) is submitting the annual topographic survey, remaining disposal capacity, and site life for the Southeast County Landfill (SCLF) Phases I-VI. This update is being submitted in accordance with Specific Condition 11.b. of the subject permit.

The aerial survey was performed by Pickett and Associates, Inc., (Pickett) on July 5, 2005 and a topographic map was prepared from that aerial survey. The Survey and Report of Survey from Pickett is contained in Attachment 1. As shown from the topography map, the Phase I-VI area, as well as the Capacity Expansion Area, has been filled in accordance with the permitted filled sequence plans.

As part of permit conditions, the SWMD is required to keep waste records for the amount of waste disposed at the SCLF. In addition to waste records, monthly surveys are performed to determine the actual airspace consumed by waste, daily and intermediate cover soils. Since opening in 1984, the monthly waste tonnage and the amount of airspace consumed have been recorded and totaled. The total airspace consumed to-date (i.e., January 1984 through July 2005) is approximately 9,863,000 cubic yards (cy). Refer to Attachment 2 for the historical record for the SCLF.

As shown on the historical record, some months after December 2004 indicate that no waste was disposed in the Phase I-VI areas. This is because the Capacity Expansion Area, located north of the Phase I-VI area was constructed and approximately every other month, waste is diverted from Phase I-VI and disposed in the Capacity Expansion Area.

As of June 2005, the temporary filling in Section 7 of the Capacity Expansion was completed. The outer sideslopes have not reached their final design 3H:1V slope. The temporary sideslopes of Section 7 will be filled to reach their maximum design slope of 3H:1V upon construction of Section 8 and future cells. To estimate the amount of airspace consumed for the Phase I-VI area in 2005, a monthly airspace consumption rate was computed based upon the total amount of airspace consumed for the year divided by the number of months recorded for disposal. This was estimated to be approximately 64,775 cy of airspace consumed per month. A total of 9,863,000 cy was consumed through July 2005. Therefore an additional 323,875 cy was estimated for airspace



Ms. Susan J. Pelz, P.E.

September 1, 2005

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consumption from August through December 2005 (i.e. 64,775 cy per month times 5 months). Based upon these assumptions, the total estimated airspace to be consumed by the end of December 2005 would be 10,186,875 cy. Refer to Attachment 3 for 2005 airspace consumption estimates.

Per the previous annual capacity calculations prepared by SCS, the total available airspace capacity for Phases I-VI was estimated to be 20,063,000 cy (based upon the current permitted buildout plans). Based upon the amount of airspace consumed since 1984 and the projected airspace to be consumed through December 2005, approximately 9,876,125 cy (i.e. 20,063,000 cy minus 10,186,875 cy) would be remaining for waste disposal.


To estimate the remaining site life for the Phase I-VI area, the projected airspace consumption beyond 2005 was based upon population projections for the SCLF service area, assumed in-place compaction densities, and an annual waste generation of 0.55 tons per person. The annual waste generation rate of 0.55 tons per person is a conservative estimate since historically the average has been around 0.45 tons per person. However, actual waste records are indicated that disposal rates are continuing to grow and the future maintenance on the waste-to-energy plants will impact the amount of waste currently being reduced to ash. Therefore a conservative estimate of 0.55 tons per person per year was used to project site life. Based upon these projections, and assuming that 50 percent of the annual waste will be diverted to the Capacity Expansion Area, the Phase I-VI area was projected to reach capacity by the end of year 2024. A minimal amount of airspace, approximately 162,891 cy, was estimated to be available in 2025 however this would only represent approximately four months of disposal. Thus, the total site life, from 1984 through the project closing in 2024, was estimated to be approximately 40 years. Refer to Attachment 4 for the remaining site life calculations.

Please do not hesitate to call if you have any questions or need additional information.

Sincerely,



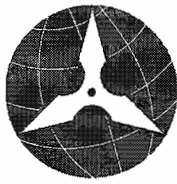
Joseph H. O'Neill, P.E.
Project Manager
SCS ENGINEERS



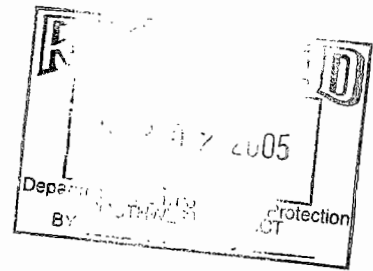
Raymond J. Dever, P.E., DEE
Vice President
SCS ENGINEERS

cc: Patty Berry, SWMD
Larry Ruiz, SWMD
Ron Cope, EPC

JHO/RJD:jho
Attachment



PICKETT
SURVEYING & PHOTOGRAMMETRY



REPORT OF SURVEY

NOTE: THIS REPORT AND ACCOMPANYING MAP ARE NOT FULL AND COMPLETE WITHOUT THE OTHER AND ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

PICKETT & ASSOCIATES PROJECT NO.: 11994-4

TITLE/TYPE OF SURVEY: TOPOGRAPHIC SURVEY

DATE OF IMAGERY: 7/05/05

SUBJECT: SE LANDFILL, HILLSBOROUGH COUNTY

CLIENT: WASTE MANAGEMENT OF FLORIDA, INC

ACCURACY STATEMENT: The following stated plus or minus tolerances encompass a minimum of 90% of the difference between photogrammetrically measured values and ground truth of all well-identified features. Mapped features meet or exceed the Florida Minimum Technical Standards.

VERTICAL:

Contours have been measured to an estimated vertical positional accuracy of 0.5'. Spot elevations and well-identified features have been measured to an estimated vertical positional accuracy of 0.25'.

HORIZONTAL:

Well-identified features have been measured to an estimated horizontal positional accuracy of 1.6'.

MAP PLOTTING:

This map is intended to be displayed at a scale of 1" = 50' (1:600) or smaller.

DATUM:

HORIZONTAL: Coordinates are referenced to the West Zone of the Florida State Plane Coordinate System, NAD 83/90 adjustment. Referenced to Hillsborough County Horizontal Control Monuments LW-E and LW-D.

VERTICAL: Elevations are to National Geodetic Vertical Datum of 1929, and are referenced to Hillsborough County Horizontal Control Monuments LW-E and LW-D.

PICKETT & ASSOCIATES, INC.

Feature List

(THESE FEATURES ARE REPRESENTED BY SYMBOLS NOT TO SCALE)		(THESE FEATURES ARE TO SCALE)	
△ CONTROL	⊠ CATCH BASIN	— CURB	— PIPELINE
○ UTILITY POLE	⊡ VALVE	— PAVED ROAD	— RECREATION
✱ LIGHT POLE	⊞ ELECTRICAL	— CONCRETE SURFACE	— EDGE OF GROVE
⊞ TRAFFIC LIGHT	⊞ AC	— UNPAVED SURFACE	— EDGE OF WATER
⊞ SIGN	⊞ MISC SYMBOL	— SIDEWALK	— SWAMPLINE
⊞ POST	⊞ CULVERT	— FENCE	— OBSCURED CONTOUR
⊞ FLAG	⊞ SWAMP/MARSH	— GUARDRAIL	— DEPRESSION CONTOUR
⊞ MAIL BOX	⊞ TREE	— WALL	(THESE INFORMATIVE LABELS ARE NOT SCALE DEPENDENT)
⊞ MANHOLE	⊞ PALM	— RAILROAD	N.E. 74.4 WATER ELEVATION
⊞ HYDRANT	⊞ SHRUB	— STRUCTURE	x 120.0 TYPICAL SPOT ELEVATION
		— TREE LINE	x 120.6 OBSCURED SPOT ELEVATION
		— SHRUB LINE	

Measurement Methods:


In areas where vegetation makes the ground difficult to determine contours are shown dashed and do not meet the above stated accuracy. Contours are removed from areas where vegetation completely hides the ground. This map is limited to those features visible on aerial photography.

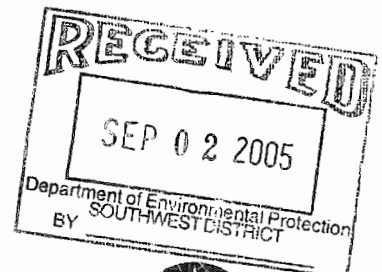
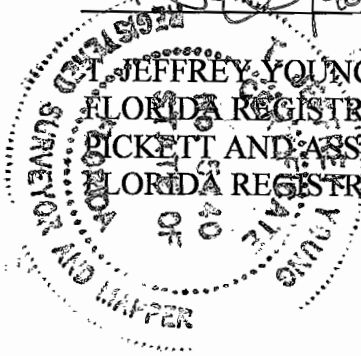
Limitations:

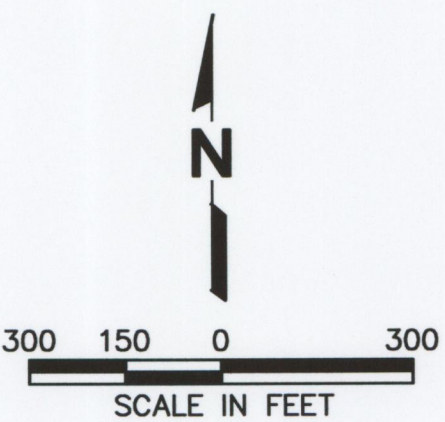
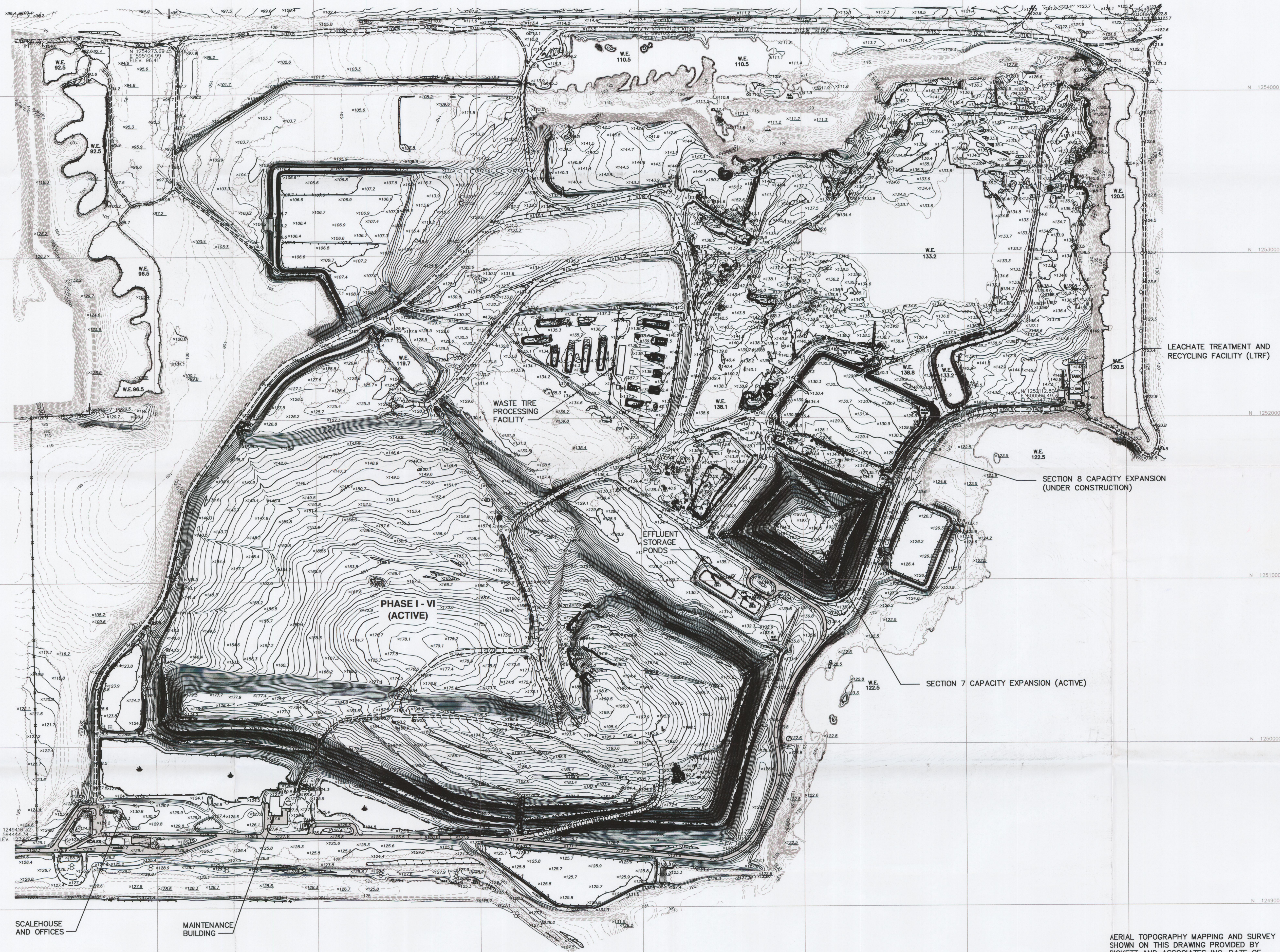
This mapping should be used for preliminary design work only and should not replace an actual field survey where the required accuracy is greater than the accuracy stated in this report. No responsibility is assumed for areas outside the contracted scope.

7/5/05

SURVEY DATE


JEFFREY YOUNG, PSM, CP
FLORIDA REGISTRATION NO. 5440
PICKETT AND ASSOCIATES, INC.
FLORIDA REGISTRATION NO. 364





RECEIVED
SEP 02 2005
DESIGNED BY: JHO
CHECKED BY: JHO

AERIAL TOPOGRAPHY MAPPING AND SURVEY
SHOWN ON THIS DRAWING PROVIDED BY
PICKETT AND ASSOCIATES INC. DATE OF
AERIAL PHOTOGRAPHY JULY 05, 2005

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619 PH (813) 821-0880 FAX NO. (813) 824-8757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00048892		HILLSBOROUGH COUNTY SOLID WASTE MANAGEMENT DEPARTMENT TAMPA, FLORIDA		DRAWING TITLE ANNUAL TOPOGRAPHY MAPPING AND SURVEY		BY	
CADD FILE: 000215SURVEY		DATE: AUGUST 2005		PROJECT TITLE SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA		REV	
SCALE: AS SHOWN		DRAWING NO. 1 of 1		DESCRIPTION		DATE	
						RAYMOND J. DEVER, P.E. CERTIFICATE NO. 43031	