



1715 North Westshore Boulevard, Suite 875
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45799 no swift

June 17, 2010

Ms. Susan J. Pelz, P.E.
Solid Waste Section
Southwest District Office
Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Annual Site Life Estimates for West Pasco Class III Landfill, Pasco County, Florida
Permit No 26254-001-SO/T3, WACS No SWD/51/45920

Dear Ms. Pelz:

On behalf of Pasco County Florida, we are submitting the revised site life estimate for the subject landfill.

Please let me know if you have any questions.

Sincerely

Rajendra D. Valdy, Ph.D., P.E.
Environmental Engineer
Camp Dresser & McKee Inc.

cc: Mr. John Power, Pasco County (two copies)
Aamod Sonawane, CDM
John Ladner, CDM (email copy)

Dept. Of Environmental Protection
JUN 21 2010
Southwest District



Pasco County Utilities

West Pasco Class III Landfill Site Life Estimate

**14230 Hays Road
Spring Hill, Pasco County, Florida**

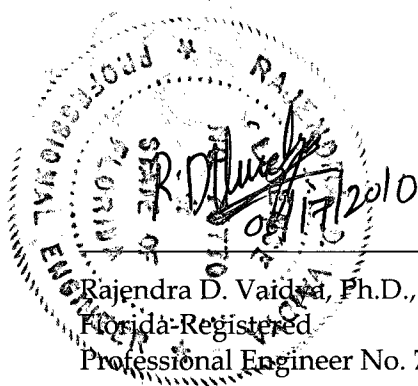
June 2010

Prepared for:

Pasco County Utilities
7530 Little Road
New Port Richey, FL 34654

Prepared by:

Camp Dresser & McKee Inc.
1715 North Westshore Blvd., Suite 875
Tampa, Florida 33607



Rajendra D. Vaidya, Ph.D., P.E.
Florida-Registered
Professional Engineer No. 70770

Dept. Of Environmental Protection
JUN 21 2010
Southwest District



CDM Calculation Form (Excel)
 Client: Pasco County
 Project: West Pasco Class III
 Detail: Landfill Site Life

Job # 6104-66358.SITE.LIFE

Calc By: RV

Date: 6/9/10

Checked By: JL

Date: 6/10/10

Landfill Capacity/Remaining Life Calculation

1.0 Purpose/Objective

Calculate the remaining life of West Pasco Class III Landfill

2.0 Procedure

- (a) Calculate the remaining capacity consistent with permitted build out, using County provided topographic survey.
- (b) Estimate remaining air-space from existing topographic survey and account for final cover
- (c) Estimate remaining site-life based on historical disposal rate in the landfill.

3.0 References/Data Sources

- (a) Topographical Survey of the landfill updated May 27, 2010 (attached)
- (b) Permitted buildout of landfill from Operations Permit Renewal (2007)

4.0 Assumptions and Limitations

- (a) Assume a steady disposal rate of 2538 tons/year which is the average landfilled tonnage from the recent data per Attachment-1. Air space from the top 3 feet of build out is deducted from available air-space as a provision for final cover.
- (b) Assume a density of 1000 lbs/C.Y for Class III waste
- (c) Assume a weekly cover of 6 inches for approximate 5 foot lifts. Weekly cover is approximately 0.5 ft/ 5 ft = 10 % by volume. Assume conservative cover volume of 20 % by volume of waste.
- (d) Permitted elevation is 75 NGVD at 4H:1V side slopes with 3 % slope from 75 ft NGVD to a top EL of 79.26 ft NGVD.
- (e) Base elevation = 55 feet NGVD for top of side berms and average of 47 feet NGVD for saw tooth bottom.

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 Southwest District

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5.0 Calculations

(a) Air space remaining for West Pasco Class III Landfill (from AutoCAD computations) = 276,033 C.Y

(b) Divide remaining volume by disposal rate

Assume density of C & D = 1,000 lbs/C.Y

Estimated Disposal rate = 2,538 tons/year

Estimated air space used = 5,076 C.Y/year

Assume 20 % volume for weekly cover = 1,015 C.Y/year

Total estimated air space used = 6,091 C.Y/year

Estimated remaining site life = 45.32 years

6.0 Conclusions/Results

The remaining life of West Pasco Class III is approximately 45 years from May 2010.

7.0 Comments

The remaining site life estimate is affected by a small change in the disposal rate since the overall disposal rate is low.

Attachment-1 Landfilled Tonnages for West
Pasco County Class III Landfill
(July 2008 to March 2010)

**PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY FROM COUNTY DATA**

Period	West Pasco Class III
Jul-08	207.94
Aug-08	195.97
Sep-08	179.29
Oct-08	146.57
Nov-08	170.27
Dec-08	156.73
Jan-09	182.17
Feb-09	289.76
Mar-09	266.94
Apr-09	184.91
May-09	252.66
Jun-09	213.07
Jul-09	164.35
Aug-09	229.14
Sep-09	239.52
Oct-09	202.31
Nov-09	154.06
Dec-09	160.23
Jan-10	150.37
Feb-10	330.30
Mar-10	364.71
Total landfilled (tons)	4,441.3
Average (tons/month)	211.5
Average (tons/year)	2,537.9

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUN 21 2010
SOUTHWEST DISTRICT
TAMPA

PASCO COUNTY UTILITIES - SOLID WASTE**TONNAGE SUMMARY - 2008**

Quarter Ending September 30, 2008

MATERIAL	West Pasco Class III Tonnage		
	JULY	AUGUST	SEPTEMBER
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	207.94	195.97	179.29
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	276.79	352.45	201.43
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	65.31	65.27	76.01
13 Waste Tires - Tires Chipped	0.00	158.32	0.00
Total Tonnage Weighted IN	550.04	772.01	456.73
LESS: Yard Trash Stored	(276.79)	(352.45)	(201.43)
Yard Trash Mulched	0.00	0.00	0.00
Yard Trash Mulched & Landscaping	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(65.31)	(216.14)	(76.01)
Waste Tires Moved to WTE	0.00	(7.45)	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	207.94	195.97	179.29

PASCO COUNTY UTILITIES - SOLID WASTE**TONNAGE SUMMARY - 2008**

Quarter Ending December 31, 2008

MATERIAL	West Pasco Class III Tonnage		
	OCTOBER	NOVEMBER	DECEMBER
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	146.57	170.27	156.73
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	160.50	237.49	109.93
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	49.67	47.16	115.43
13 Waste Tires - Tires Chipped	0.00	156.41	0.00
Total Tonnage Weighted IN	356.74	611.33	382.09
LESS: Yard Trash Stored	(160.50)	(237.49)	(109.93)
Yard Trash Mulched	0.00	0.00	0.00
Yard Trash Mulched & Landscaping	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(49.67)	(189.97)	(115.43)
Waste Tires Moved to WTE	0.00	(13.60)	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	146.57	170.27	156.73

PASCO COUNTY UTILITIES - SOLID WASTE**TONNAGE SUMMARY - 2008**

Quarter Ending March 31, 2009

MATERIAL	West Pasco Class III Tonnage		
	JANUARY	FEBRUARY	MARCH
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	182.17	289.76	266.94
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	108.84	165.92	231.67
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	54.61	40.98	61.32
13 Waste Tires - Tires Chipped	0.00	0.00	0.00
Total Tonnage Weighted IN	345.62	496.66	559.93
LESS: Yard Trash Stored	(108.84)	(165.92)	(231.67)
Yard Trash Mulched	0.00	312.50	0.00
Yard Trash Mulched & Landscaping	0.00	(312.50)	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(54.61)	(40.98)	(61.32)
Waste Tires Moved to WTE	0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	182.17	289.76	266.94

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY - 2008
Quarter Ending June 30, 2009

MATERIAL	West Pasco Class III Tonnage		
	APRIL	MAY	JUNE
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	184.91	252.66	213.07
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	212.02	248.03	170.94
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	63.46	57.70	66.91
13 Waste Tires - Tires Chipped	0.00	420.71	0.00
Total Tonnage Weighted IN	460.39	979.10	450.92
LESS: Yard Trash Stored	(212.02)	(248.03)	(170.94)
Yard Trash Mulched	0.00	530.75	0.00
Yard Trash Mulched & Landscaping	0.00	(105.72)	0.00
Yard Trash Mulched & to WTE	0.00	(425.03)	0.00
Waste Tires Stored/Removed	(63.46)	(156.65)	(66.91)
Waste Tires Moved to WTE	0.00	(321.76)	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	184.91	252.66	213.07

PASCO COUNTY UTILITIES - SOLID WASTE**TONNAGE SUMMARY - 2009**

Quarter Ending September 30, 2009

MATERIAL	West Pasco Class III Tonnage		
	JULY	AUGUST	SEPTEMBER
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	164.35	229.14	239.52
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	223.20	210.04	149.84
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	50.74	47.49	79.41
13 Waste Tires - Tires Chipped	0.00	0.00	228.66
Total Tonnage Weighted IN	438.29	486.67	697.43
LESS: Yard Trash Stored	(223.20)	(210.04)	(149.84)
Yard Trash Mulched	0.00	0.00	0.00
Yard Trash Mulched & Landscaping	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(50.74)	(47.49)	(308.07)
Waste Tires Moved to WTE	0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	164.35	229.14	239.52

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY - 2010 FY
Quarter Ending December 31, 2009

MATERIAL	West Pasco Class III Tonnage		
	OCTOBER	NOVEMBER	DECEMBER
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	202.31	154.06	160.23
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	184.09	134.63	105.61
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	49.24	55.92	55.53
13 Waste Tires - Tires Chipped	0.00	0.00	228.66
Total Tonnage Weighted IN	435.64	344.61	550.03
LESS: Yard Trash Stored	(184.09)	(134.63)	(105.61)
Yard Trash Mulched	0.00	0.00	0.00
Yard Trash Mulched & Landscaping	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(49.24)	(55.92)	(284.19)
Waste Tires Moved to WTE	0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	202.31	154.06	160.23

PASCO COUNTY UTILITIES - SOLID WASTE

TONNAGE SUMMARY - 2010 FY

Quarter Ending March 31, 2010

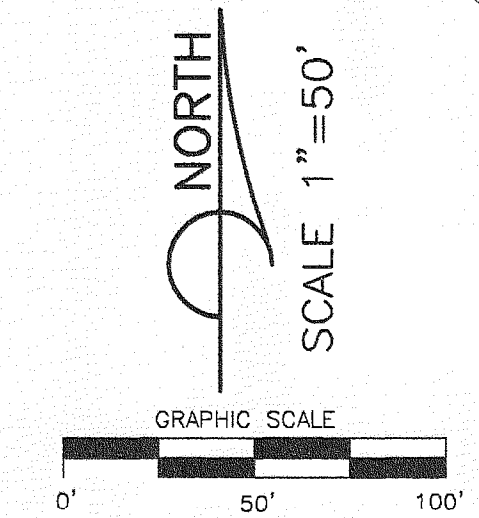
Dept. Of Environmental Protection
JUN 21 2010
Southwest DistrictWest Pasco Class III Tonnage

<u>MATERIAL</u>	<u>JANUARY</u>	<u>FEBRUARY</u>	<u>MARCH</u>
1 Household Waste	0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00
4 Incinerator By-Pass Waste	0.00	0.00	0.00
5 Construction & Demolition Debris	150.37	330.30	364.71
6 Treated Biomedical Waste	0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00
9 Yard Trash - IN	115.44	113.77	184.81
10 Sewage Sludge	0.00	0.00	0.00
11 Industrial Sludge	0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00
13 Waste Tires - IN	38.49	85.40	66.31
13 Waste Tires - Tires Chipped	0.00	192.09	80.79
Total Tonnage Weighted IN	304.30	721.56	696.62
LESS: Yard Trash Stored	(115.44)	(113.77)	(184.81)
Yard Trash Mulched	0.00	0.00	0.00
Yard Trash Mulched & Landscaping	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00
Waste Tires Stored/Removed	(38.49)	(277.49)	(126.08)
Waste Tires Moved to WTE	0.00	0.00	(21.02)
Tons Moved to WTE	0.00	0.00	0.00
Total Tonnage Landfilled	150.37	330.30	364.71

**Attachment-2 Topographic Survey for West
Pasco County Class III Landfill
(May 2010)**

SEC. 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST.

NORTH	
MITERED	END SECTION
INV (1)	EL=42.97
INV (2)	EL=42.89
INV (3)	EL=42.95
INV (4)	EL=42.94
SOUTH	
MITERED	END SECTION
INV (1)	EL=43.46
INV (2)	EL=43.34
INV (3)	EL=43.36
INV (4)	EL=43.25



SEE PRIOR SURVEY DATED 6, JANUARY, 2010
FOR TOPOGRAPHY OF THIS AREA.

SEE PRIOR SURVEY DATED 6, JANUARY, 2010
FOR TOPOGRAPHY OF THIS AREA.

Dept. Of Environmental Protection
JUN 21 2010
Southwest District

LEGEND

SEC	SECTION
TWP	TOWNSHIP
RNG	RANGE
CDR	CORNER
NTS	NOT TO SCALE
FCM	FOUND CONCRETE MONUMENT
FIR	FOUND IRON ROD
PCED	PASCO COUNTY ENGINEERING DEPARTMENT
(M)	MEASURED
(C)	CALCULATED
(D)	DEED
⊗	X-CUT IN TOP OF TELEPHONE CAN
MH	MANHOLE
O	SET 1/2" IRON ROD PASCO COUNTY
LB	LICENSED BUSINESS
TBM	TEMPORARY BENCHMARK
EL	ELEVATION
⊙	MONITOR WELLS
H	GATE VALVE

NOTES

- 1) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY BE SUBJECT TO EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, AND OTHER MATTERS OF RECORD.
- 2) UNDERGROUND INSTALLATIONS OR IMPROVEMENTS, INCLUDING BUILDING FOUNDATIONS HAVE NOT BEEN LOCATED, EXCEPT AS SHOWN HEREIN.
- 3) THE PROPERTY SHOWN HEREIN IS SUBJECT TO THE RULES, REGULATIONS, ORDINANCES AND/OR JURISDICTIONS OF LOCAL, STATE AND/OR FEDERAL AGENCIES; THE REQUIREMENTS OF SAID RULES, REGULATIONS, ORDINANCES AND/OR JURISDICTIONS ARE NOT SHOWN HEREIN, UNLESS OTHERWISE STATED.
- 4) THIS SURVEY IS NOT COMPLETE WITHOUT THE SURVEY PERFORMED ON 6 JANUARY 2010.

DATE OF SURVEY: 6 JANUARY 2010
TYPE OF SURVEY: TOPOGRAPHIC
TOPOGRAPHY UPDATED 27 MAY 2010

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**JAMES W. KREYER, FLORIDA LICENSED
SURVEYOR AND MAPPER NO. 6237**
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED
SEAL OF THIS FLORIDA LICENSED SURVEYOR AND MAPPER

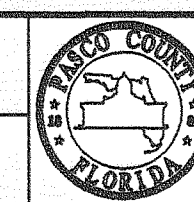
DRAWN BY	RFP
CHECKED BY	

PASCO COUNTY
ENGINEERING SERVICES
7530 LITTLE ROAD
NEW PORT RICHEY, FLORIDA 34654-5507

COORDINATE FILE	CLASS3.CRD
DRAWING FILE	CLASS32010.DWG

FIELD BOOK, PAGE(S)	XXX	XXX
Month XX, 200x		

S)	SCALE
	1" = 50'
	PROJECT NUMBER
	X9333.00



*WEST PASCO CLASS III LANDFILL
TOPOGRAPHIC SURVEY*

HEET	NO. SURVEY01:
1 OF 1	
DRAWING NUMBER	

Elevations are in
NAVD 1988 datum

Bench Marks

No. 1 Elevation = 54.07
Set Nail and Disc (PCED)

No. 2 Elevation = 48.68
Set 1/2 inch capped iron rod (Pasco County)