

Johnson, Sabrina O

From: Timothy J. Treshler <ttreshler@pascocountyfl.net>
Sent: Tuesday, September 1, 2020 10:02 AM
To: Black, Alexis; SWD_Waste
Cc: Justin G. Roessler; John Power; Carrie S. Kimble; 'Jason Gorrie'
Subject: Pasco County - Class III - Remaining Capacity and Site Life 2019
Attachments: Pasco - 2019 Class III Remaining Life Estimate.pdf

Good morning,

Please see attached the Remaining Disposal Capacity and Site Life Calculations Report for reporting year 2019 for the West Pasco Class III Landfill (Permit No. 26254-003-SO/T3 & WACS#45799).

Regards,



Tim Treshler

Sr. Project Manager
Public Infrastructure - Solid Waste
Resource Recovery

Pasco County

P 727-857-2780 x2060

C 727-992-0032

14230 Hays Rd.,
Spring Hill, FL 34610

ttreshler@pascocountyfl.net

www.pascocountyfl.net

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Pasco County Utilities

Remaining Disposal Capacity and Site Life Calculations West Pasco Class III Landfill

Reporting Year 2019

April 2020



Prepared For:

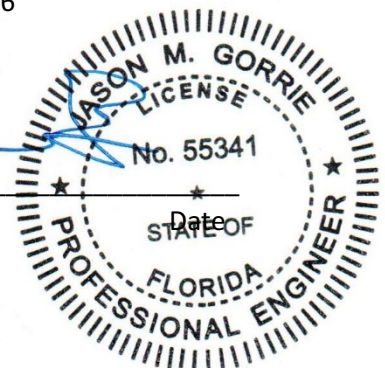
Pasco County Utilities

Prepared By:

Jason Gorrie, P.E.
JMG Engineering, Inc.
238 East Davis Blvd.
Suite 206
Tampa, Florida 33606



Signature



Purpose of Report

Rule 62-701.500(13)(c) of the Florida Administrative Code (FAC) requires landfill owners and operators to annually prepare an estimate of the remaining life and capacity (in cubic yards) of the existing, constructed landfill and an annual estimate of the life and capacity of other permitted areas not yet constructed. For the purposes of this report, the “existing, constructed landfill” is considered to be the currently active portions of the site designated as Class III (subcells 1, 2, 3, and 4 of 4). The Class I portions of the West Pasco Resource Recovery Facility Landfill are addressed in a separate Report.

Procedure

The currently permitted capacity of the Class III Landfill is considered to be 487,904 cubic yards. In order to estimate the current volume of waste in place in subcells 1, 2, 3, and 4 the Pasco County Engineering Services Department conducted a topographic survey of Class III landfill in March 2019. The topographic contours identified through the survey are included as **Attachment 1**.

Utilizing volumetric calculations from previous Remaining Useful Life Reports, it is concluded that approximately 7,000 cubic yards of airspace was consumed in Calendar Year 2019. Adding this value to the previously calculated volume of 221,000 cubic yards results in approximately 228,000 cubic yards of airspace consumed.

Given the permitted volumetric capacity of 487,904 cubic yards and subtracting the 228,000 cubic yards estimated to be currently in place, approximately 260,000 cubic yards of airspace remains available for disposal. Compacted construction and demolition debris waste has an approximate density of 1,200 pounds per cubic yard. Using the assumed density, the 260,000 remaining cubic yards can accommodate approximately 156,000 tons of construction and demolition debris.

As shown in Table 1, the Class III waste disposal rate has varied from year to year. However, because the tipping fee charged by Pasco County to use the Class III cells is considerably higher than that of nearby private Class III landfills, it is safe to assume that the annual waste placement rate will not differ significantly from approximately 4,000 tons/year (6,667 cubic yards/year). Using this as a future disposal rate along with an estimated 10% weekly cover rate (667 cubic yards/year) results in an estimated future airspace consumption rate of 7,333 cubic yards per year. Dividing the remaining airspace of 260,000 cubic yards by the estimated future consumption rate of 7,333 cubic yards per year results in **an estimated remaining life of 35 years**.

TABLE 1
Monthly Tonnage Summary for 2019

Month	West Pasco Class III (tons)
January	450
February	255
March	262
April	246
May	307
June	308
July	300
August	281
September	329
October	432
November	416
December	310
Total	3,896

Historical Tonnage Summary

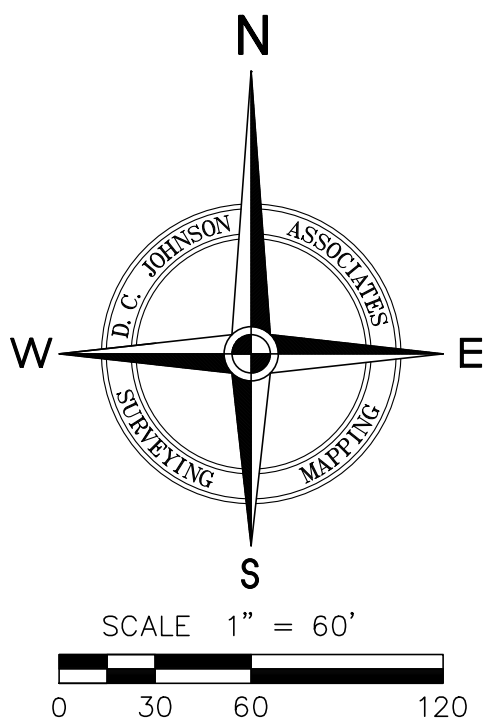
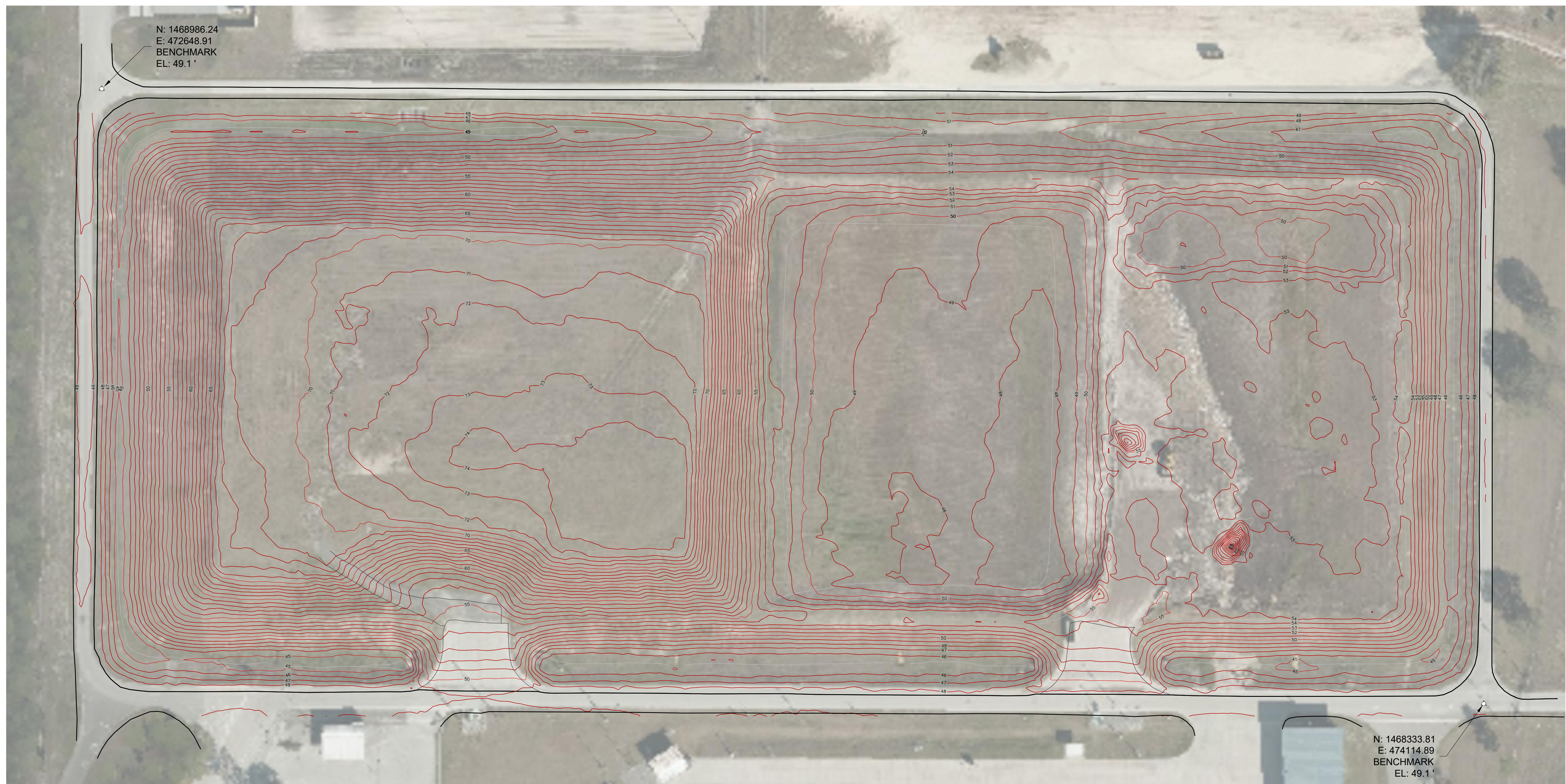
2012	2,822
2013	3,206
2014	4,433
2015	4,125
2016	3,094
2017	3,227
2018	3,114
2019	3,896

Attachments

Attachment 1: Topographical Contours

Attachment 2: 2019 Waste Placement Records

ATTACHMENT 1
Landfill Contours



SURVEYOR'S NOTES:

1. Use of this survey for purposes other than intended, without written verification, will be at the user's sole risk and without liability to the surveyor. Nothing herein shall be construed to give any rights or benefits to anyone other than those certified to. This survey meets the "Standards of Practice" set forth by the Florida Board of Land Surveyors in Chapter 5J-17 Florida Administrative Code.
2. This survey was prepared without an abstract of title; therefore the undersigned makes no guarantees or representations regarding information shown hereon pertaining to easements, rights-of-way, setback lines, agreements, reservations, or other similar matters.
3. No instruments of record reflecting easements, right-of-ways and/or ownership were furnished to the undersigned except as shown.
4. No underground installations, improvements or encroachments, have been located except those shown hereon.
5. Elevations shown hereon are based upon North American Vertical Datum of 1988 (NAVD88), National Geodetic Survey benchmark "C 675", located at Hays Road, published elevation = 46.47' (NAVD88).
6. Coordinates shown hereon are referenced to the Florida State Plane Coordinate System, FL-West projection.
7. Topographic Data shown hereon was surveyed via aerial L.I.D.A.R. scan provided by Bowman Consulting Services, project No. 030304-01-001



Andrew R. Getz
 This survey conforms to the "Standards of Practice" set forth by the Florida Board of Land Surveyors in Chapter 5J-17 Florida Administrative Code.
 Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper.

DATE OF FIELD SURVEY: 01/08/20

[illegible]

<p>PREPARED FOR</p> <p>Topographic Survey</p>			
<p>Pasco County Solid Waste Department</p>			
<p>Pasco Waste, Area 1</p>			
<p>PROJECT NO.: 2019-430A01BG00001</p>			
SEC: 25	TWP: 24 S	RNG: 17 E	COUNTY: Pasco

SCALE: 1" = 60'

SHEET NO: 1 of 3

ATTACHMENT 2
Waste Placement Records

Jason Gorrie

From: Timothy J. Treshler <ttreshler@pascocountyfl.net>
Sent: Monday, March 23, 2020 9:14 AM
To: Jason Gorrie
Subject: FW: Class III Waste Placement Records

Follow Up Flag: Flag for follow up
Flag Status: Completed

Jason – See below.

Thanks,
Tim

From: Joanne Chamberlain <jchamberlain@pascocountyfl.net>
Sent: Monday, March 23, 2020 9:07 AM
To: Timothy J. Treshler <ttreshler@pascocountyfl.net>
Cc: Cintia L. Richardson <crichardson@pascocountyfl.net>
Subject: RE: Class III Waste Placement Records

Tim, Here you go . . .

Class III			
	Month/Year	Class I waste	Class III Waste
	Jan-19	-	449.96
	Feb-19	-	254.79
	Mar-19	-	261.83
	Apr-19	-	246.26
	May-19	-	306.83
	Jun-19	-	307.96
	Jul-19	-	300.26
	Aug-19	-	281.06
	Sep-19	-	329.45
	Oct-19	-	432.32
	Nov-19	-	415.63
	Dec-19	-	309.95
	Total	-	3,896.30