

Johnson, Sabrina O

From: Joshua L. Younce <Joshua.Younce@citrusbocc.com>
Sent: Monday, January 11, 2021 4:09 PM
To: Morgan, Steve; SWD_Waste
Cc: Henry C. Norris; Dan S. Sherlock; Troy Hays (thayes@jonesedmunds.com); Madden, Melissa; Black, Alexis
Subject: WACS ID 39859 2020 Site Life Calculations
Attachments: 2020 Site Life Calculations E-Signature.pdf; Site Life Calculations Cover Letter.pdf; 2020 Site Life Calculations.pdf

Dear Mr. Morgan:

Attached please find the 2019 – 2020 Site Life Calculations Report and supporting documentation prepared by the Citrus County Division of Engineering for the Citrus County Central Landfill.

If you should have any questions regarding this matter, please do not hesitate to contact me.

Regards,

Joshua Younce

Compliance Manager
Citrus County Solid Waste Management Division
230 W. Gulf to Lake Hwy.
Lecanto, FL. 34461
Office: (352) 527-7679
Joshua.Younce@citrusbocc.com



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS

DIVISION OF ENGINEERING

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Citrus Springs/Dunnellon/Inglis/Yankeetown area - Toll Free (352) 489-2120

TTY Telephone: (352) 527-0825 or (352) 527-5312

Engineer's Electronic Signature File

Permit Number: 21375-025-S0-01
Project Name: Citrus County Landfill Annual Airspace Report
Date of Transaction: 12/16/20

Professional Engineer: Mark E Schroder

Professional License Number: 67585

The following documents have been submitted to FDEP

1. **Title:** 2020_Site_Life_Calc_Report_e-sig
Description: Report, Calculations and Plans
SHA1 Key: d5d43e1fcfb4bed1b022ee0eb52276a368745b7b

Mark E. Schroder, P.E.
Florida License #67585



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CITRUS COUNTY CENTRAL LANDFILL

OCTOBER 2020 SITE LIFE CALCULATION ANNUAL REPORT

FDEP PERMIT NO.: 21375-025-S0-01

(Replaces Permit No.: 21375-018-SO-01)

WACS FACILITY ID NO.: 39859

PHASES 1/1A, 2 and 3

Located in S1/T19S/R18E, Citrus County, Florida

Prepared for:

Citrus County Department of Public Works

Solid Waste Management Division

Attn: Henry Norris, Director

230 W. Gulf-to-Lake Highway

Lecanto, FL 34461

(352) 527-7670

Prepared on December 16, 2020

This item has been electronically signed and sealed by Mark E Schroder, P.E. on December 16, 2020 using a SHA1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA1 authentication code must be verified on any electronic copies.

Mark E Schroder, P.E.
FL. License No. 67585

Citrus County's Department of Public Works - Division of Engineering has calculated the remaining site life for Phases 1/1A, 2 and 3 of the Citrus County Central Landfill based on the past twelve months of data. The remaining site life was estimated using population projections, projections of future waste receipts and topographic survey efforts performed by the Citrus County Survey Section and Dragonfly Aerosolutions. All topographic information is based on NAVD88 datum. The original design closure elevations were based on NGVD29 datum and have been converted to NAVD88 Datum for the purposes of this report

Phases 1/1A,2, and 3:

The airspace consumed from October 2019 to September 2020 was calculated by comparing the digitally generated surfaces from a Drone mounted RTK system performed in September 2019 and September 2020. The airspace consumed during the 2019-2020 time period was 121,421CY, as shown on sheet 1 of 3 in attachment A. Waste tonnage records supplied by Citrus County Solid Waste Management Division for the same period recorded 108,373 tons entering the landfill. This translates to an effective airspace consumption rate of 1,785 LB/CY or 1.12 CY/TN of waste disposed. The volume of the Cap was entered on the calculation as zero. For the calculations, the final closure surface has been lowered by two feet and the final 4' cap will be installed after 2' of settlement. Therefore the volume of the cap was entered into the calculations as 0CY assuming that the airspace will be available before placement.

The remaining life through build out of Phases 1/1A, 2 and 3 was estimated by multiplying the future projected quantities of waste by the current effective airspace consumption rate. Waste tonnage was assumed to increase each year at the same rate as the population. Population growth in Citrus County from 2019 to 2020 was a little less than last year. This year, population growth has been estimated using the "Medium" projections published in the University of Florida Bureau of Economic and Business Research (BEBR) population projections for Citrus County. The actual growth of the Citrus County population closely matched the Medium Growth rate published in Volume 53, Bulletin 186, January 2020 – Florida Population Studies. The projected waste tonnage for each year is multiplied by the effective airspace consumption rate to obtain the airspace volume consumed each year. This is then subtracted from the remaining airspace for each year until the available airspace is depleted. The calculations indicate that Phases 1/1A, 2, and 3 have approximately 1,346,288CY of available airspace as of the September 15, 2020 survey (Attachment #1, Sheet 2) and that this airspace could be completely utilized by April of 2030. This assumes that waste will continue to be added to the landfill at the current generation rates and effective density. For quick reference, the previous Site Life Calculation Report prepared on January 2, 2019 estimated this date to be November 2028 using BEBR Medium projection.

Phases 1/1A, 2, and 3

Landfill Side Slopes

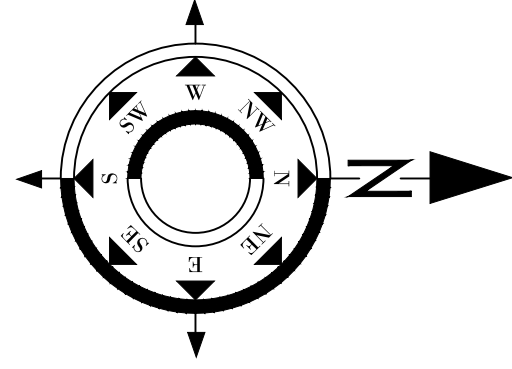
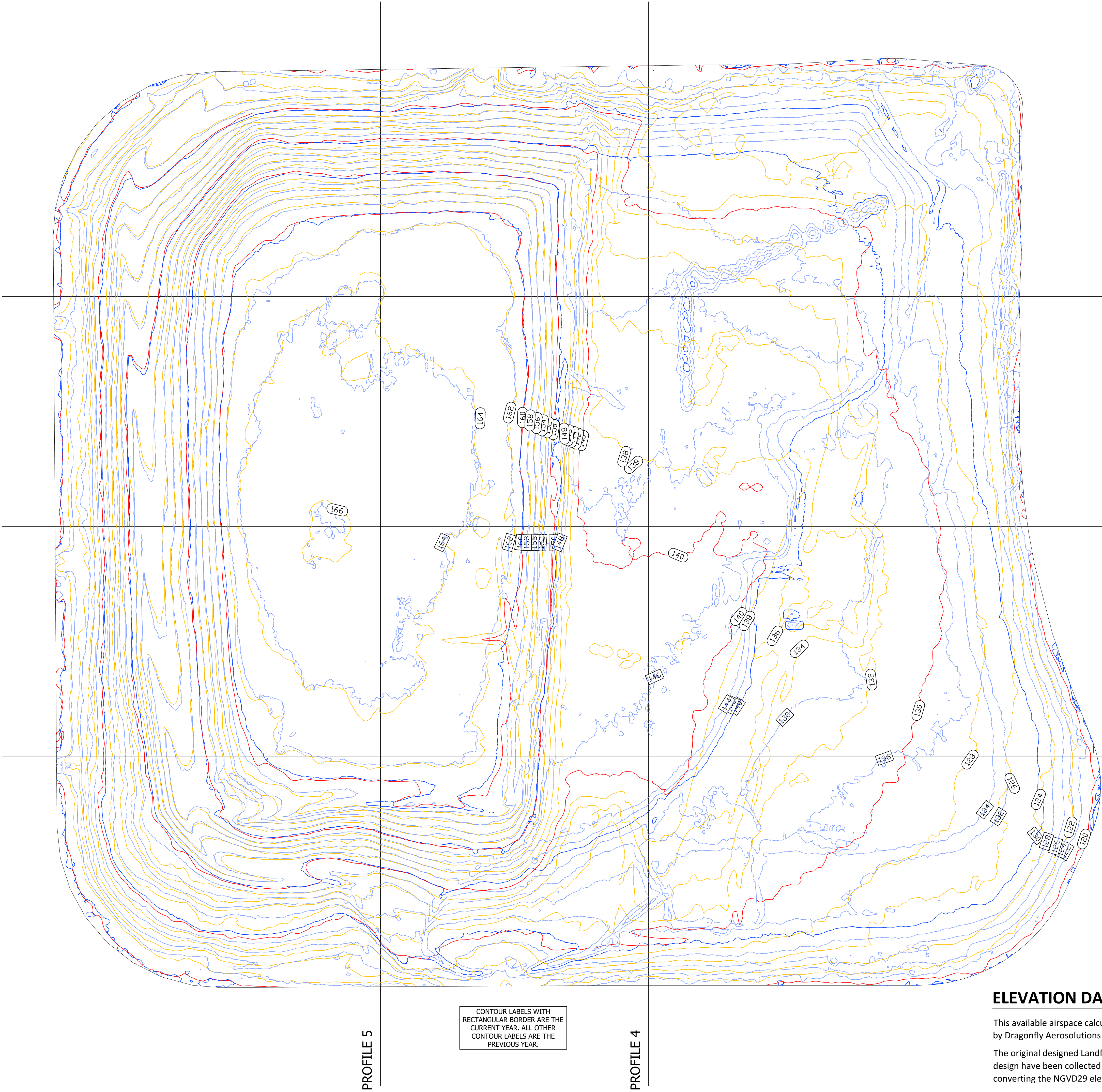
Specific Condition C.13.f of the site's FDEP Permit (Permit No. 21375-008-S0/01) requires that the disposal capacity and site life calculations submitted each year be accompanied by a survey indicating that the actual above grade side slopes are no greater than the design slopes and that the top elevation does not exceed the design elevation. As shown in the cross-sections provided on Sheets 3 & 4 of Attachment #1, the side slopes appear to be less than or equal to the design slopes, and the design top elevation of the landfill has not been attained.

ATTACHMENT 1

VOLUME CALCULATION DRAWINGS

(Refer to 24"x36" Drawings)

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PROFILE 1

PROFILE 2

PROFILE 3

LEGEND

- CURRENT YEAR MAJOR CONTOUR (10' INTERVAL) 09/15/2020 SURVEY
- CURRENT YEAR MINOR CONTOUR (2' INTERVAL) 09/15/2020 SURVEY
- PREVIOUS YEAR MAJOR CONTOUR (10' INTERVAL) 09/24/2019 SURVEY
- PREVIOUS YEAR MINOR CONTOUR (2' INTERVAL) 09/24/2019 SURVEY

SITE VOLUME TABLE

SITE	CITRUS COUNTY CENTRAL LANDFILL
SURFACE 1	RTK DRONE SURVEY - 09/24/2019
SURFACE 2	RTK DRONE SURVEY - 09/15/2020
2019-2020 CONSUMPTION	121,421 CU. YD. (Composite Method)

PROFILE VIEWS ARE ON SHEETS 3 & 4

ELEVATION DATUM NOTE

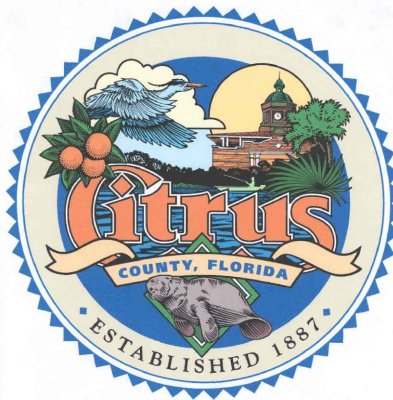
This available airspace calculations for this period are based on a comparison between aerial RTK Drone Surveys performed by Dragonfly Aerosolutions in 2019 & 2020.

The original designed Landfill closure surface was calculated and published using NGVD29. Surveys since the original design have been collected in NAVD88. The closure surface has been adjusted -0.85' per NGS Vertcon transformation, converting the NGVD29 elevations to NAVD88 elevations for relative volume calculations.

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CITRUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CITRUS COUNTY
CENTRAL LANDFILL
2020
SITE LIFE CALCULATION
REPORT

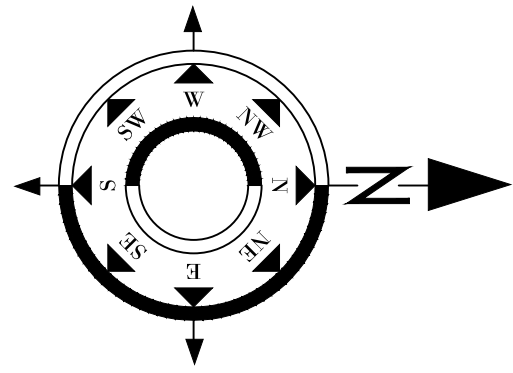
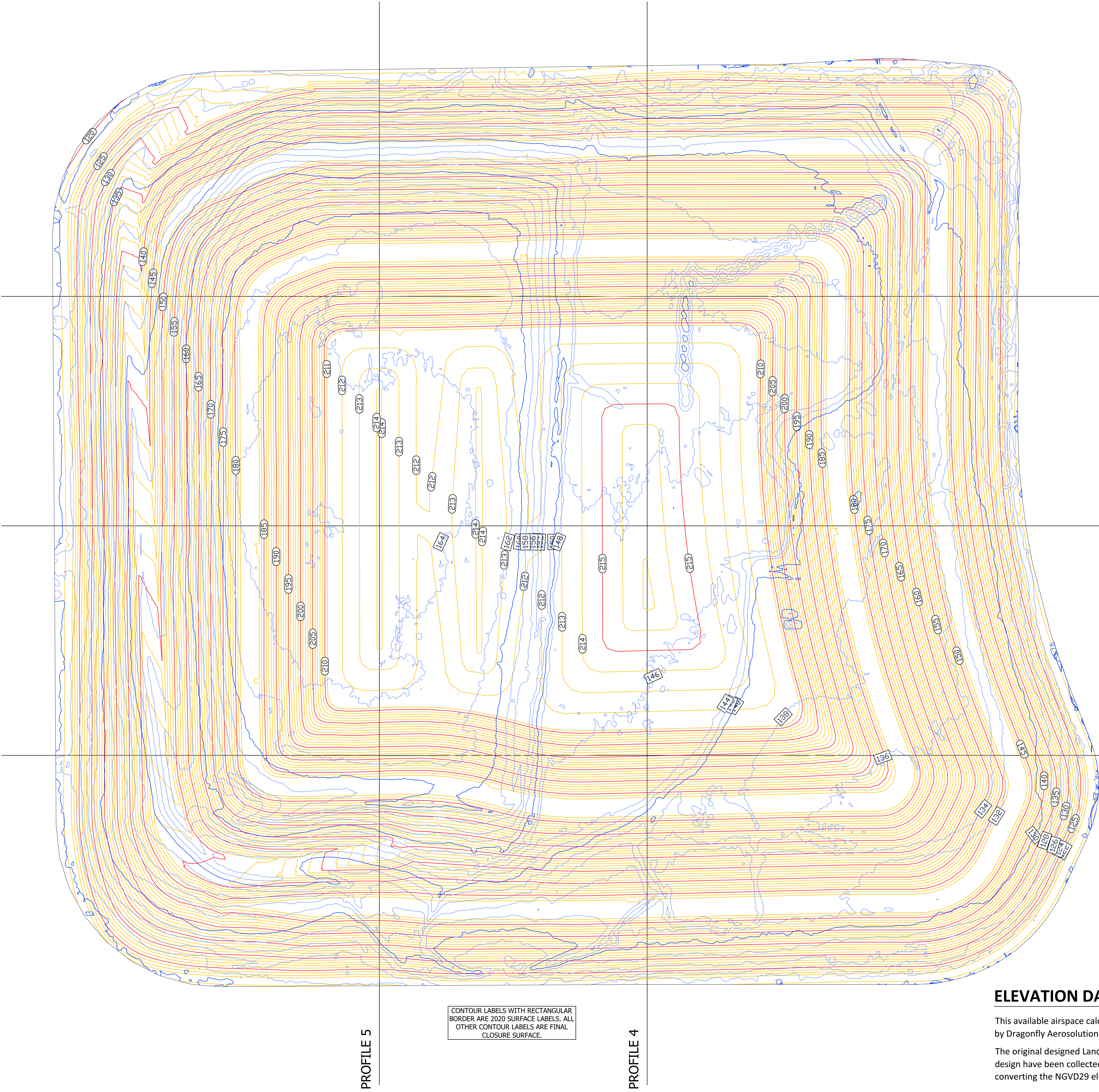


CITRUS COUNTY
CENTRAL LANDFILL
CONSUMPTION
ESTIMATE PLAN

MARK E. SCHRODER, P.E.
FL. LICENSE NO. 67585

SURVEY PROJECT NO.	SHEET NO.
XX	1
DATE: 11/24/2020	OF
SCALE: 1" = 60'	4

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PROFILE 1

PROFILE 2

PROFILE 3

PROFILE 5

PROFILE 4

CONTOUR LABELS WITH RECTANGULAR BORDER ARE 2020 SURFACE LABELS. ALL OTHER CONTOUR LABELS ARE FINAL CLOSURE SURFACE.

LEGEND

- CURRENT MAJOR CONTOUR (10' INTERVAL) 09/15/2020 SURVEY
- CURRENT MINOR CONTOUR (2' INTERVAL) 09/15/2020 SURVEY
- DESIGN MAJOR CONTOUR (5' INTERVAL) FINAL CLOSURE
- DESIGN MINOR CONTOUR (1' INTERVAL) FINAL CLOSURE

PROFILE VIEWS ARE ON SHEETS 3 & 4

SITE VOLUME TABLE

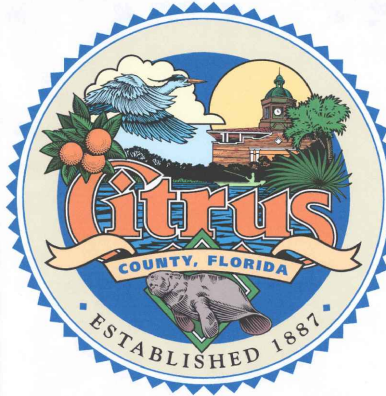
SITE	CITRUS COUNTY CENTRAL LANDFILL
SURFACE 1	FINAL CLOSURE DESIGN (Converted to NAVD88)
SURFACE 2	RTK DRONE SURVEY 09/15/2020
AVAILABLE AIRSPACE	1,346,288 CU. YD.
METHOD	COMPOSITE (CIVIL 3D)

ELEVATION DATUM NOTE

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The original designed Landfill closure surface was calculated and published using NGVD29. Surveys since the original design have been collected in NAVD88. The closure surface has been adjusted -0.85' per NGS Vertcon transformation, converting the NGVD29 elevations to NAVD88 elevations for relative volume calculations.

CITRUS COUNTY
CENTRAL LANDFILL
2020
SITE LIFE CALCULATION
REPORT

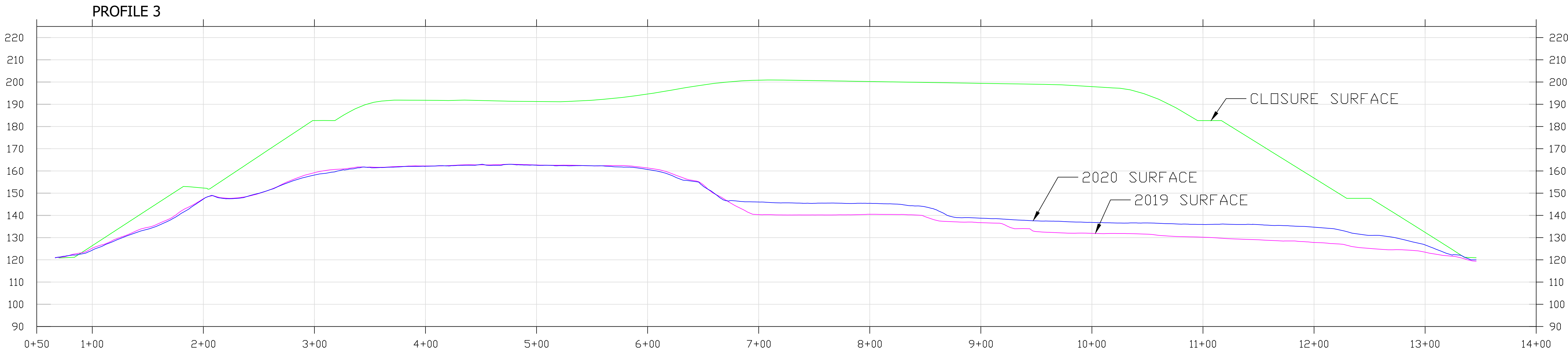
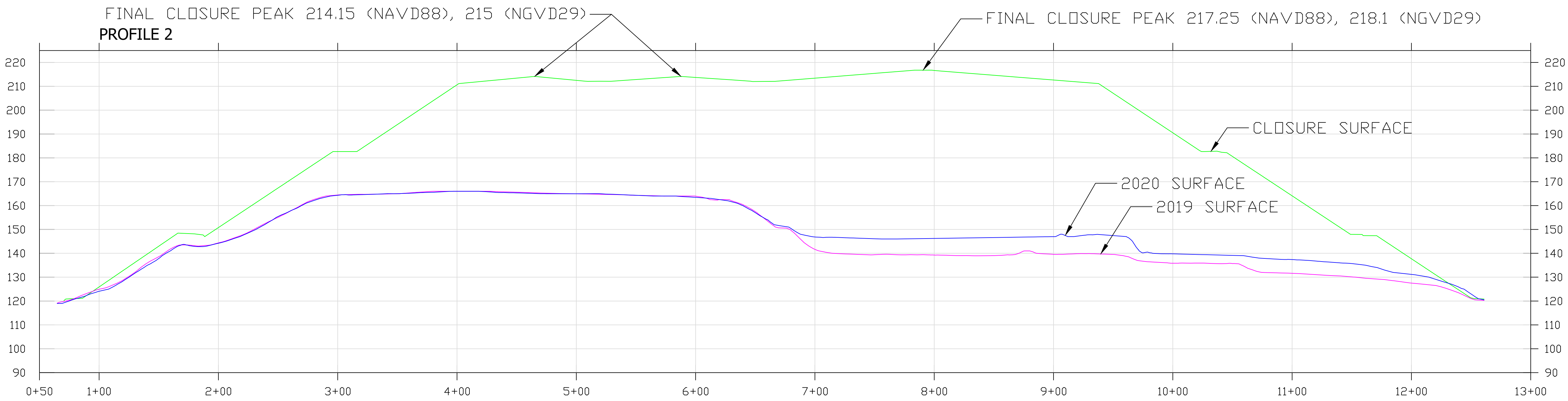
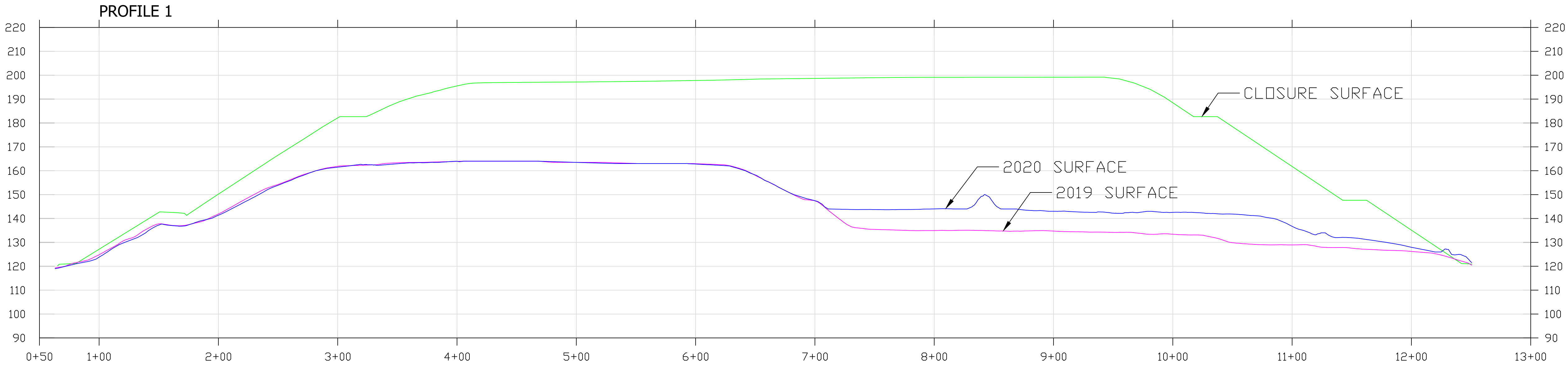


CITRUS COUNTY
CENTRAL LANDFILL
REMAINING
AIRSPACE ESTIMATE
PLAN

MARK E. SCHRODER, P.E.
FL. LICENSE NO. 67585

SURVEY PROJECT NO.	SHEET NO.
XX	2
DATE:	11/24/2020
SCALE:	1" = 60'

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ELEVATION DATUM NOTE

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LEGEND

- FINAL CLOSURE (CONVERTED TO NAVD88)
- 09/24/2019 DRONE RTK SURVEY BY DRAGONFLY AEROSOLUTIONS, NAVD88
- 09/15/2020 DRONE RTK SURVEY BY DRAGONFLY AEROSOLUTIONS, NAVD88

PLAN VIEWS ARE ON SHEETS 1 AND 2

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DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CITRUS COUNTY
CENTRAL LANDFILL
2020
SITE LIFE CALCULATION
REPORT

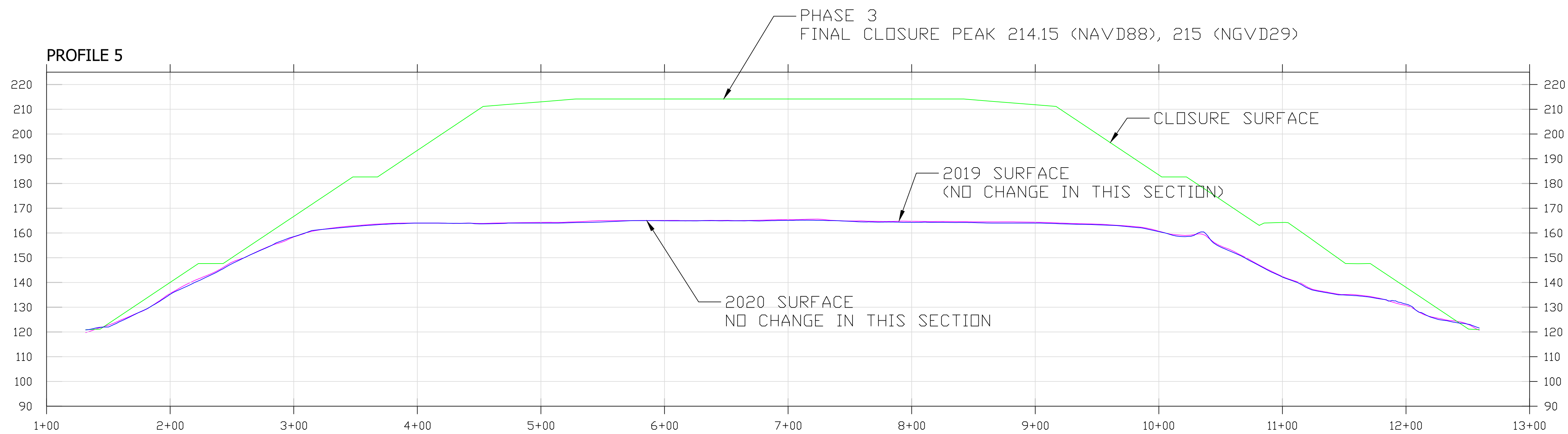
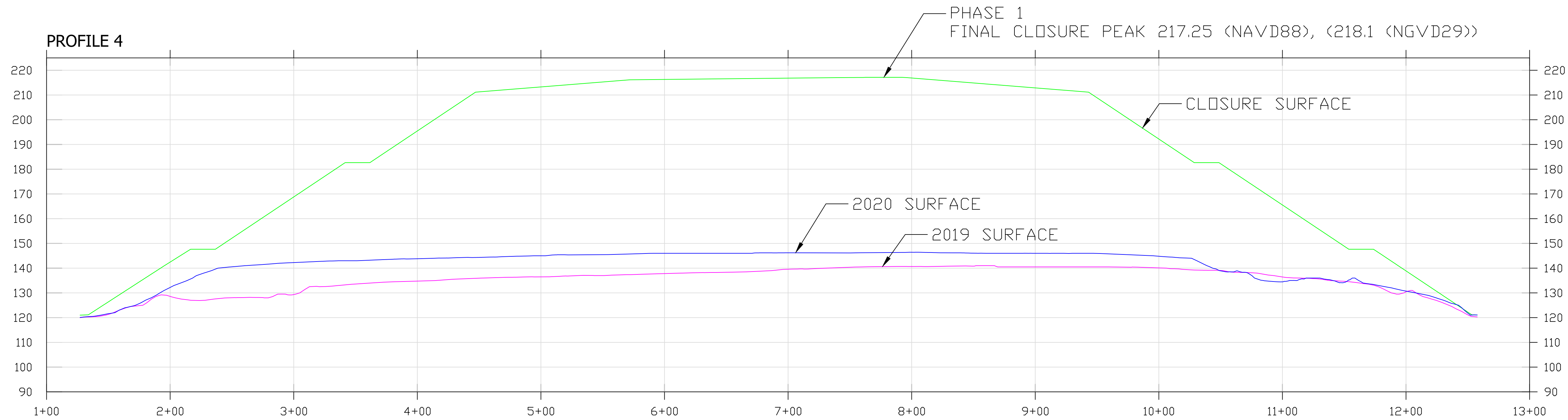


CITRUS COUNTY
CENTRAL LANDFILL
NORTH-SOUTH
PROFILES

MARK E. SCHRODER, P.E.
FL. LICENSE NO. 67585

SURVEY PROJECT NO.		SHEET NO.	
DATE:	XX	3	
	11/24/2020	OF	
SCALE:		4	
1" = 60'			

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ELEVATION DATUM NOTE

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LEGEND



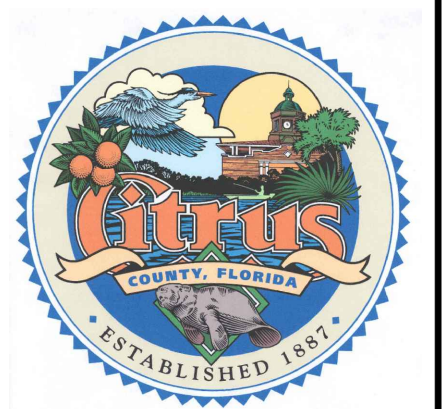
FINAL CLOSURE (CONVERTED TO NAVD88)
09/24/2019 DRONE RTK SURVEY BY DRAGONFLY AEROSOLUTIONS, NAVD88
09/15/2020 DRONE RTK SURVEY BY DRAGONFLY AEROSOLUTIONS, NAVD88

PLAN VIEWS ARE ON SHEETS 1 AND 2

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CITRUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CITRUS COUNTY
CENTRAL LANDFILL
2020
SITE LIFE CALCULATION
REPORT



CITRUS COUNTY
CENTRAL LANDFILL
EAST-WEST
PROFILES

MARK E. SCHRODER, P.E.
FL. LICENSE NO. 67585

SURVEY PROJECT NO.	SHEET NO.
XX	4
DATE: 11/24/2020	OF
SCALE: 1" = 60'	4

ATTACHMENT 2

SITE LIFE CALCULATIONS

**CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION
CENTRAL LANDFILL SITE LIFE CALCULATION
DECEMBER 2020 REPORT**

Objective: Calculate the 2020 remaining site life for Phases 1/1a, 2 & 3 using waste tonnage records from Citrus County and calculated waste generation projections.

Approach:

1. Calculate the available airspace as of the most recent survey.
2. Calculate the "Effective Density" using volume consumed between October 2019 through September 2020.
3. Use the effective density to calculate the remaining life of the available airspace.

Available Airspace Calculation:

Airspace available from Sep 2020 to Final Grade =	1,346,288	CY	(From Surveys)
Air volume consumed Oct 2019 through September 2020 =	121,421	CY	(Calculated)

Effective Density Calculation:

Waste Disposed of between 10/2019 through 09/2020 =	108,373	tons	(From Landfill Records)
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Effective Density=	<u>108,373</u>	<u>ton</u>	<u>2,000</u>	<u>lbs</u>	<u>1,785</u>	<u>lbs/CY</u>
	121,421	CY		ton		

Effective Airspace Consumption Rate=	<u>121,421</u>	<u>CY</u>	<u>1.12</u>	<u>CY/ton</u>
	108,373	ton		

Assuming the waste will be filled up to the final capacity and allowed to settle before placing the cover soil.

Cap Volume = 0 CY

Subtract Cap Volume from air volume (airspace available) to determine useable waste volume for site life calculation.

Remaining Volume= 1,346,288 CY - 0 CY = 1,346,288 CY

Site Life Calculation

The site life calculation is based on Citrus County waste tonnage records and population projections from the University of Florida Bureau of Business and Economic Research (BEER). The historic population growth trends have been in between the BEER Low and Medium estimates. This year population growth rate was just above the BEER Medium estimate growth rates. The Medium population projection was used for this year's estimate.

Report Year	FISCAL YEAR	TONNAGE	VOLUME CONSUMED (CY)	NET REMAINING AIRSPACE (CY)
2019	2018-2019	99,280	111,233	1,346,288
2020	2019-2020	108,373	121,421	1,224,867
2021	2020-2021	109,493	122,676	1,102,191
2022	2021-2022	110,612	123,930	978,261
2023	2022-2023	111,732	125,185	853,077
2024	2023-2024	112,852	126,439	726,638
2025	2024-2025	113,971	127,694	598,944
2026	2025-2026	114,915	128,750	470,194
2027	2026-2027	115,858	129,807	340,387
2028	2027-2028	116,801	130,863	209,524
2029	2028-2029	117,744	131,920	77,604
2030	2029-2030	118,687	132,977	-55,373
2031	2030-2031	119,456	133,838	-189,211
2032	2031-2032	120,225	134,700	-323,911
2033	2032-2033	120,994	135,562	-459,473
2034	2033-2034	121,763	136,423	-595,896
2035	2034-2035	122,532	137,285	-733,181
2036	2035-2036	123,141	137,968	-871,148
2037	2036-2037	123,751	138,650	-1,009,799
2038	2037-2038	124,360	139,333	-1,149,132
2039	2038-2039	124,970	140,016	-1,289,147

CONCLUSION: Estimated Phases 1/1A, 2 & 3 Fill Completion Date = April 2030

**CITRUS COUNTY CENTRAL LANDFILL
WASTE TONNAGE PROJECTION**

Year	*Population (BEBR Medium Estimate)	% Change in Population	Tons/Year
2015⁽¹⁾	141,501		82,992
2016 ⁽¹⁾	143,054	1.10%	88,186
2017 ⁽¹⁾	143,801	0.52%	91,890
2018 ⁽¹⁾	144,552	0.52%	97,064
2019 ⁽¹⁾	147,744	2.21%	99,280
2020 ⁽¹⁾	149,383	1.11%	108,373
2021	150,926	1.03%	109,493
2022	152,470	1.02%	110,612
2023	154,013	1.01%	111,732
2024	155,557	1.00%	112,852
2025	157,100	0.99%	113,971
2026	158,400	0.83%	114,915
2027	159,700	0.82%	115,858
2028	161,000	0.81%	116,801
2029	162,300	0.81%	117,744
2030	163,600	0.80%	118,687
2031	164,660	0.65%	119,456
2032	165,720	0.64%	120,225
2033	166,780	0.64%	120,994
2034	167,840	0.64%	121,763
2035	168,900	0.63%	122,532
2036	169,740	0.50%	123,141
2037	170,580	0.49%	123,751
2038	171,420	0.49%	124,360
2039	172,260	0.49%	124,970
2040	173,400	0.66%	125,797
2041	173,940	0.31%	126,188
2042	174,780	0.48%	126,798
2043	175,620	0.48%	127,407
2044	176,460	0.48%	128,017
2045	177,300	0.48%	125,564

*Population projection data for Citrus County originated from the University of Florida Bureau of Economic and Business Research (BEBR) Florida Population Studies (Volume 53, Bulletin 186, January 2020). A linear interpolation for yearly population increase was performed between the years in bold.

⁽¹⁾ Annual Population reported in the BEBR Bulletins for the year.

The "Tons/Year" amount is based on scale house data (monthly collection reports over the previous year) as supplied by the Waste Management Department.

Cut/Fill Report

Generated: 2020-11-25 11:12:10

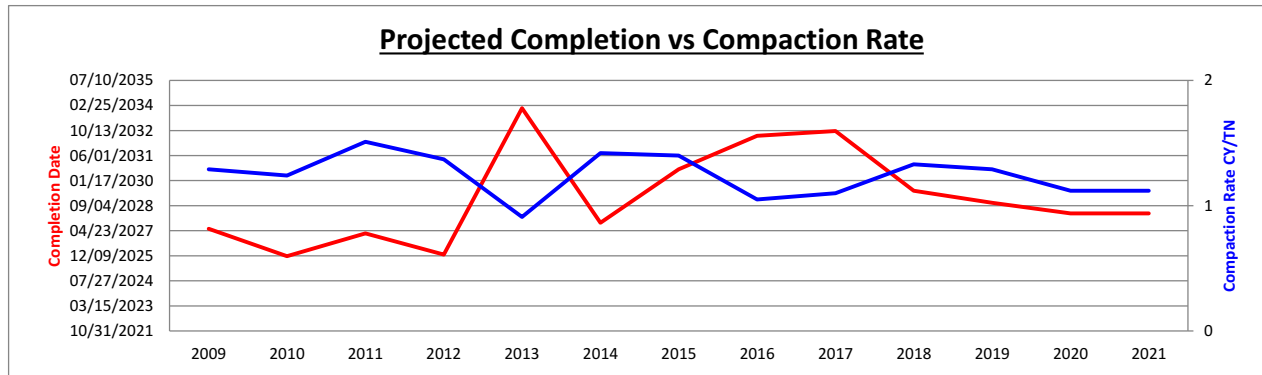
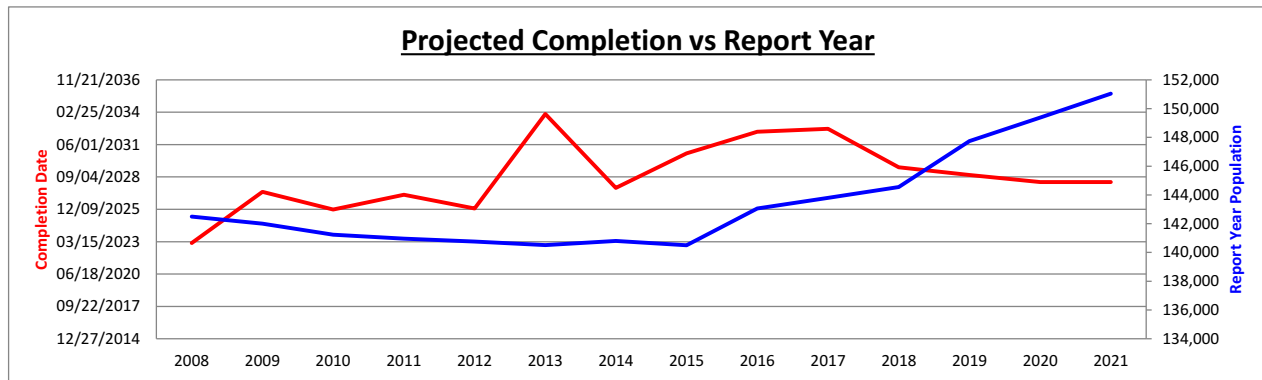
By user: schrodme

Drawing: \\V-FS01\Users\Shared\DPW\ENGIN\Project\2021\21-207 Landfill Airspace Calculations and Report\\V-FS01\Users\Shared\DPW\ENGIN\Project\2021\21-207 Landfill Airspace Calculations and Report\2020 Annual.dwg

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
2019 to 2020	full	1.000	1.000	1351080.65	8794.46	130214.99	121420.52<Fill>
2020 to Closure	full	1.000	1.000	1348324.90	3351.56	1349639.76	1346288.21<Fill>

Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	2699405.55	12146.02	1479854.75	1467708.73<Fill>

* Value adjusted by cut or fill factor other than 1.0



Report Year	BEBR Estimate Used	Completion Date	Report Year Population	Growth Rate	Compaction Rate	Basis for Population
2008	High	02/01/2023	142500			SWAG - No Data Available
2009	High	06/01/2027	142000	-0.35%	1.29	SWAG - No Data Available
2010	High	12/01/2025	141236	-0.54%	1.24	Census
2011	High	03/01/2027	140956	-0.20%	1.51	BEBR Estimated for Year
2012	High	01/01/2026	140761	-0.14%	1.37	BEBR Estimated for Year
2013	High	01/01/2034	140519	-0.17%	0.91	BEBR Estimated for Year
2014	High	10/01/2027	140798	0.20%	1.42	BEBR Estimated for Year
2015	Low	09/01/2030	140501	-0.21%	1.40	BEBR Estimated for Year
2016	Medium	07/01/2032	143054	1.82%	1.05	BEBR Estimated for Year
2017	Medium	10/01/2032	143801	0.52%	1.10	BEBR Estimated for Year
2018	Medium	07/01/2029	144552	0.52%	1.33	Linear Growth Estimate
2019	Medium	11/01/2028	147744	2.21%	1.29	BEBR Estimated for Year
2020	Medium	04/01/2028	149383	1.11%	1.12	BEBR Medium Estimated for 2020
2021	Medium	04/01/2028	151040	1.11%	1.12	Linear Growth Estimate

BEBR Estimate is future population growth as report in the Florida Population Studies Bulletin

Completion Date is based on constant BEBR estimated growth until completion and airspace consumption at the report year rate

Growth Rate is calculated from Report Year Population Estimate as Reported by BEBR

BEBR = Bureau of Economic and Business Research at the University of Florida

Projections of Florida Population by County, 2020–2045, with Estimates for 2019

County and State	Estimates April 1, 2019	Projections, April 1					
		2020	2025	2030	2035	2040	2045
ALACHUA	267,306						
Low		258,900	262,300	264,300	265,100	264,500	262,300
Medium		269,800	281,500	291,600	300,200	307,400	313,300
High		280,500	299,400	318,000	334,300	348,800	361,400
BAKER	28,249						
Low		27,100	27,500	27,700	27,700	27,600	27,300
Medium		28,500	29,900	31,100	32,000	32,900	33,600
High		29,900	32,400	34,900	37,300	39,700	41,900
BAY	167,283						
Low		168,500	173,300	176,400	178,400	179,400	179,700
Medium		175,300	185,700	193,700	200,300	206,000	210,900
High		182,500	198,500	213,700	228,000	241,000	253,800
BRADFORD	28,682						
Low		27,400	26,900	26,300	25,600	24,900	24,300
Medium		28,800	29,200	29,500	29,800	30,000	30,300
High		30,200	31,700	33,100	34,500	35,900	37,200
BREVARD	594,469						
Low		577,900	594,000	603,000	608,300	610,400	612,200
Medium		602,400	637,600	665,000	687,900	707,400	726,000
High		626,000	678,100	725,700	766,900	805,100	843,700
BROWARD	1,919,644						
Low		1,862,500	1,899,500	1,917,100	1,924,900	1,923,700	1,920,500
Medium		1,941,200	2,039,000	2,115,200	2,179,100	2,233,900	2,285,100
High		2,017,700	2,168,500	2,307,300	2,426,900	2,537,300	2,646,600
CALHOUN	14,067						
Low		14,100	14,200	14,100	13,900	13,800	13,600
Medium		14,900	15,400	15,800	16,200	16,500	16,800
High		15,600	16,700	17,800	18,800	19,800	20,800
CHARLOTTE	181,770						
Low		175,300	181,500	185,200	187,200	188,200	188,900
Medium		184,700	198,100	208,700	217,400	225,200	232,500
High		193,800	213,800	232,500	250,200	266,900	284,600
CITRUS	147,744						
Low		143,300	146,600	149,000	150,300	150,800	150,900
Medium		149,400	157,100	163,600	168,900	173,400	177,300
High		155,300	168,000	180,400	192,100	202,600	213,100
CLAY	215,246						
Low		210,100	220,600	229,300	235,200	239,300	242,400
Medium		219,000	236,800	252,500	265,000	275,600	285,100
High		227,600	251,800	276,000	296,600	315,700	334,100
COLLIER	376,706						
Low		365,000	385,500	400,300	410,800	416,600	420,100
Medium		384,600	421,200	451,700	477,200	498,400	517,400
High		403,400	451,600	497,500	538,500	575,500	611,300
COLUMBIA	70,492						
Low		67,700	68,600	69,200	69,300	69,100	68,700
Medium		70,500	73,500	76,000	78,000	79,700	81,200
High		73,300	78,600	83,800	88,600	92,900	97,100
DESOTO	36,065						
Low		34,900	35,000	34,800	34,500	34,100	33,500
Medium		36,300	37,500	38,300	38,900	39,500	39,900
High		37,800	40,100	42,200	44,100	45,700	47,400
DIXIE	16,610						
Low		15,900	15,500	15,100	14,600	14,200	13,700
Medium		16,700	16,900	17,000	17,100	17,100	17,100
High		17,500	18,300	19,000	19,700	20,300	21,000



Board of County Commissioners
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340, Lecanto, Florida 34460
Telephone: (352) 527-7670 FAX: (352) 527-7672
TDD Telephone 527-5303
email: landfillinfo@bocc.citrus.fl.us
Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

January 11, 2021

Mr. Steve Morgan
Manager, Air & Solid Waste Permitting
Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Citrus County Central Class I Landfill (FDEP Permit No. 21375-025-SO-01/026-SO-MM) Annual Site Life Calculation Transmittal for Phases 1/1A, 2 and 3

Dear Mr. Morgan:

Specific Condition # C.13.e. of the subject landfill operation permit requires that the annual landfill site life calculations be submitted no later than January 15th of each year. Enclosed please find the 2019-2020 Site Life Calculations Report and supporting documentation prepared by the Citrus County Division of Engineering.

If you should need additional information, please let me know.

Sincerely,

Henry C. Norris, Jr.
Director, Division of Solid Waste Management

CC: Randall Olney, P.E., Public Works Director