



Baldwin County Solid Waste
15140 County Road 49
Summerdale, AL 36580
251-972-6878

MEMO

To: John Marino
From: Terri Graham 
Date: October 18, 2020
Subject: Cubic Yards in Lined Cell

We received 222,658.99 cubic yards of material that went into the lined cell for the period October 1, 2019 to September 30, 2020.

If you have any questions, please let me know.

Closure & Post Closure Liability Calculation Fund 510

FY20

Closure Cost 2020	7,184,340.62
Post Closure Cost 2019	6,044,280.00
Total 2019	<u>13,228,620.62</u>

2020 Increase by CPI (1.9%)	0.00
Already included in cost calculation by CDG per letter dated 07/16/20	<u>13,228,620.62</u>

Total Capacity = 12,137,439 cubic yards
 Revised per letter dated 08/19/15 from CDG Engineers
 & Associates, Inc.

2010 Capacity Used 223,568.71 cubic yards
 2011 Capacity Used 225,258.44 cubic yards
 2012 Capacity Used 216,405.80 cubic yards
 2013 Capacity Used 216,989.97 cubic yards
 2014 Capacity Used 215,473.90 cubic yards
 2015 Capacity Used 107,089.10 cubic yards
 from 12/14/14 to 09/30/15
 2016 Capacity Used 199,798.06 cubic yards
 2017 Capacity Used 184,160.31 cubic yards
 2018 Capacity Used 198,398.48 cubic yards
 2019 Capacity Used 206,715.50 cubic yards
 2020 Capacity Used 222,658.99 cubic yards

Formula:

$$\frac{\text{Estimated Total Current Cost X Cumulative Capacity Used}}{\text{Total Estimated Capacity}} - \text{Amount Previously Recognized} = \text{Amount to Record in FY}$$

Calculation:

$$\frac{\$13,228,620.62 \times (222,658.99 \text{ cubic yards} + 4,013,434.45 \text{ cubic yards})}{12,137,439 \text{ cubic yards}} - \$4,297,138.72 = \underline{\underline{\$319,788.54}}$$

See attached letters for supporting documentation of amounts used in the calculations.

Trial Balance Inquiry by BU - Trial Balance / Ledger Comparison

Query: **All Records**

Row Tools

Skip to Account * Select / Skip To

Ledger Type 1 *Budget Amount* Level Of Detail Period / Date

Ledger Type 2 *General Ledger* LT 1 Thru Date

Type/Subledger LT 2 Thru Date

Records 1 - 116

Customize Grid **YTD**

<input type="checkbox"/>	Account Description	Budget Amount Balance	General Ledger Balance	Variance Balance	% Variance	Account Number	Budget Amount Period Balance	General Ledger Period Balance	Variance Period Bal
<input type="checkbox"/>	Solid Waste								
<input type="checkbox"/>	Closure & Post-Closure		3,671,187.46-	3,671,187.46		510.26802			
<input type="checkbox"/>	Current Closure & Post-Closure		625,951.26-	625,951.26		510.26802.01			
<input type="checkbox"/>	Closure & Post-Closure		4,297,138.72-	4,297,138.72		510.26802			

Baldwin County Solid Waste Department	15140 County Road 49	
	Summerdale, AL 36580	
	P 251-972-6878	
Period:	10/1/2019 to 9/30/2020	
Facility:	BCC-MAGNOLIA, BCC- TRANSFER & BCC-COM	
Report:	Lined Subtitle D Cell	
Material	Description	Tons
L1	RESIDENTIAL	93,395.96
L1-TRS	RESIDENTIAL TRS	492.99
L1-ELBERTA	RESIDENTIAL	536.15
L10	ASBESTOS	20.13
L11	COMM E-WASTE	0.00
L1P	RESIDENTIAL GARBAGE PERMITTED	4.86
L2	COMMERCIAL	77,046.45
L2-TRS	COMMERCIAL TRS	9,338.31
L3	TREATED LUMBER	241.89
L4	INERT/GARBAGE MIX	441.18
L4-TRS	INERT/GARBAGE MIX TRS	98.58
L5	SPECIAL HANDLING	8,078.48
L5-TRS	SPECIAL HANDLING TRS	118.94
L6	CARRION	27.17
L6-TRS	CARRION TRS	4.30
L9	INBOUND FROM MCB	394.45
Grand Totals		190,239.84
Compaction Ratio 1,708.8 lbs/cy per CDG 1/20/2015		2,000.00
		1,708.80
		1.170411985
2020 Capacity Used		222,658.98
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Baldwin County Solid Waste Department
 15140 County Road 49
 Summerdale, AL 36580

Revised for CY Rate Change Effective 04/01/19

P 251-972-6878
 F 251 580-2582

Report: **Lined Subtitle D Cell**
 Period: 10/1/2019 to 9/30/2020
 Facility: BCC-MAGNOLIA
 Materials: L9,L7,L6-TRS,L6,L5-TRS,L5 -
 SAND,L5,L4-TRS,L4,L3-TRS,L3,L2-TRS,L2,L1P,L11,L10,L1-TRS,L1-ELBERTA,L1,L0

<u>Material</u>	<u>Description</u>	<u>Tons</u>	<u>Net Amount</u>	<u>Tickets</u>
L1	RESIDENTIAL	82,077.42	\$2,415,740.22	10,581
L1-ELBERTA	RESIDENTIAL	536.15	\$15,548.35	56
L10	ASBESTOS	20.13	\$785.85	9
L11	COMM E-WASTE	0.00	\$450.00	3
L1P	RESIDENTIAL GARBAGE PERM	1.56	\$179.00	50
L2	COMMERCIAL	76,864.41	\$2,459,612.72	9,556
L3	TREATED LUMBER	241.89	\$4,133.30	168
L4	INERT/GARBAGE MIX	441.18	\$17,206.02	164
L5	SPECIAL HANDLING	8,078.48	\$315,060.72	490
L6	CARRION	25.42	\$1,067.04	98
L9	INBOUND FROM MCB	394.45	\$0.00	30
Grand Totals		168,681.08	\$5,399,073.37	21,205



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Report: **Lined Subtitle D Cell**
Period: 10/1/2019 to 9/30/2020
Facility: BCC-TRANSFER
Materials: L9,L7,L6-TRS,L6,L5-TRS,L5 -
SAND,L5,L4-TRS,L4,L3-TRS,L3,L2-TRS,L2,L1P,L1,L10,L1-TRS,L1-ELBERTA,L1,L0

<u>Material</u>	<u>Description</u>	<u>Tons</u>	<u>Net Amount</u>	<u>Tickets</u>
L1	RESIDENTIAL	11,076.86	\$321,481.59	1,759
L1-TRS	RESIDENTIAL TRS	492.99	\$14,296.71	55
L1P	RESIDENTIAL GARBAGE PERM	3.30	\$294.52	82
L2	COMMERCIAL	182.04	\$5,848.72	191
L2-TRS	COMMERCIAL TRS	9,338.31	\$438,903.08	1,276
L4	INERT/GARBAGE MIX	0.53	\$20.67	1
L4-TRS	INERT/GARBAGE MIX TRS	98.58	\$5,323.32	24
L5-TRS	SPECIAL HANDLING TRS	118.94	\$6,422.76	29
L6	CARRION	1.75	\$103.74	21
L6-TRS	CARRION TRS	4.30	\$232.20	4
Grand Totals		21,317.59	\$815,262.63	3,442



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Report: **Lined Subtitle D Cell**
Period: 10/1/2019 to 9/30/2020
Facility: BCC-COM
Materials: L9,L7,L6-TRS,L6,L5-TRS,L5,L4-TRS,L4,L3,L2-TRS,L1P,L11,L10,L1-TRS,L1-ELBERTA,L1

<u>Material</u>	<u>Description</u>	<u>Tons</u>	<u>Net Amount</u>	<u>Tickets</u>
L1	RESIDENTIAL	241.69	\$0.00	94
Grand Totals		241.69	\$0.00	94



Engineering. Environmental. Answers.

1840 East Three Notch Street
Andalusia, AL 36421
Post Office Box 278
Andalusia, AL 36420
Tel (334) 222-9431
Fax (334) 222-4018

www.cdge.com

August 6, 2020

Mrs. Terri Graham, Dev. and Environmental Director
Magnolia Sanitary Landfill
Baldwin County Commission
15140 County Road 49
Summerdale, AL 36580

**Re: 2019 - 2020 Capacity Report
Magnolia Landfill**

Mrs. Graham,

CDG has evaluated the gross capacity consumed within the MSW disposal area of the Magnolia Sanitary Landfill. In determining the gross airspace consumed, CDG compared the survey performed on July 17, 2019 to the survey from July 14, 2020 for Cells 1 through 8. The airspace consumed during the period above was found to be 209,332 CY for a total airspace consumed to date of **4,267,703 CY**.

Per the Financial Assurance Report Update October 2000, prepared by ESA, Inc., the total gross capacity of the Magnolia Sanitary Landfill is reported as **12,137,439 CY**. The remaining airspace available as of July 14, 2020 for the permitted MSW disposal area is **7,869,736 CY**.

A comparative analysis of the gross capacity consumed as of July 14, 2020 with the gross capacity reported by ESA in 2000, approximately 35.2% of the total gross capacity of the permitted disposal area has been consumed.

If you have any questions concerning the method of calculation or results, please feel free to call.

Sincerely,
CDG Engineers & Associates, Inc.

Laura Kate Young
Project Engineer

R. Daniel Wells, P.E.
Principal Engineer

ALBERTVILLE
ANDALUSIA
AUBURN
DOTHAN
GADSDEN
HOOVER
HUNTSVILLE

Magnolia LF_201407.dwg



Number	Minimum Elevation	Maximum Elevation	Area	Color
1	0.00	2.00	74224.38	Brown
2	2.00	5.00	49524.64	Red
3	5.00	10.00	80571.28	Yellow
4	10.00	15.00	75188.62	Light Green
5	15.00	20.00	134178.67	Dark Green
6	20.00	27.67	59224.98	Grey

CDG
Engineering & Environmental Services
ANDALUSIA, AL
AUBURN, AL
HOOPER, AL
DOTHAN, AL
HUNTSVILLE, AL

1840 EAST THREE NOTCH ST.
ANDALUSIA, AL 36421
P.O. BOX 275 (95420)
AUBURN, AL
PH: (256) 222-9631

**MAGNOLIA LANDFILL
ANNUAL AIRSPACE ANALYSIS**

SCALE:	AS SHOWN
DATE:	08/04/2020
REVISED:	
PROJECT NO:	
SHEET NO:	C-101

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