

Wargo, Emily

From: Wargo, Emily
Sent: Tuesday, April 19, 2022 9:59 AM
To: John Arnold
Cc: 'Lisa Baker'; 'AMoreno@angelosrm.com'; 'Glen Bleau'; Financial Assurance Working Group; Madden, Melissa; Mandalou, Taylor
Subject: RE: 2022 Cost Estimate Approval Letter - Enterprise Road Recycling and Disposal Waste Tire Facility (WACS ID: 87895)
Attachments: Enterprise Road Recycling and Disposal Waste Tire Facility Cost Estimate Update 2022 signed.pdf

Dear Mr. Arnold:

This letter is to acknowledge receipt of inflation-adjusted cost estimates, dated and received February 16, 2022, for closure of the Enterprise Road Recycling and Disposal Waste Tire Facility. The cost estimates received February 16, 2022 (total for closing \$109,944.20) are **APPROVED for 2022**. This estimate is for disposal of 1,407 tons of waste tires. The next annual update (revised or inflation-adjusted estimates) is due no later than **March 1, 2023**.

A copy of these estimates is forwarded, via this email, to the Solid Waste Financial Coordinator at Financial.Assurance.Working.Group@FloridaDEP.gov. Financial assurance documents can be sent to: Solid Waste Section, FDEP, 2600 Blair Stone Road MS 4548, Tallahassee, Florida 32399-2407. Please work with the coordinator directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C.

Further information about Solid Waste Financial Assurance can be found at the Department's website at: <https://floridadep.gov/waste/permitting-compliance-assistance/content/solid-waste-financial-assurance>

Thank you,



Emily Wargo
Engineering Specialist II
Florida Department of Environmental Protection
Southwest District
Emily.Wargo@FloridaDEP.gov
Office: 813-470-5942

PLEASE NOTE: Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.



Please consider the environment before printing this email.

From: John Arnold <john.phillip.arnold@gmail.com>
Sent: Wednesday, February 16, 2022 4:42 PM
To: SWD_Waste <SWD_Waste@dep.state.fl.us>; Financial Assurance Working Group <Financial.Assurance.Working.Group@dep.state.fl.us>
Cc: Morgan, Steve <Steve.Morgan@FloridaDEP.gov>; Madden, Melissa <Melissa.Madden@FloridaDEP.gov>; ljbaker23@outlook.com <lisa@locklearconsulting.com>; Agustin Moreno <AMoreno@angelosrm.com>; Glen Bleau <GBleau@angelosrm.com>

Subject: Re: Enterprise Road CLIII and Waste Tire Processing Facilities WACS 87895 2022 Financial Assurance Annual Cost Adjustment

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Revised Waste Tire Processing Area Estimate attached with 1.012 inflation factor adjustment

On Wed, Feb 16, 2022 at 3:14 PM John Arnold <john.phillip.arnold@gmail.com> wrote:

The annual financial assurance estimate (inflation factor) updates to the referenced facilities have been updated and are attached to this email. Please let me know if you have any questions.

Sincerely,

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John Arnold, P.E.

Ph. (813) 477-1719

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2022 ANNUAL UPDATE - INFLATION FACTOR (1.012)

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
WASTE TIRE PROCESSING FACILITY
DIMENSIONS, VOLUMES, CAPACITIES & CLOSURE COST ESTIMATE

Item Description	Pad 1 Whole Tire	Pad 2 Whole Tire	Pad 3 Whole Tire	Pad 5 Whole Tire	Pad 4 Processed Tires	Pad 6 Rims	Reference/Notes
Base Length, L (ft)	200	100	200	200	100	50	Input (Site Plan)
Base Width, W (ft)	50	50	50	50	50	50	Input (Site Plan)
Base Area, A1 = L * W (sf)	10000	5000	10000	10000	5000	2500	Calculation
Side Slope of Pile, S (horiz:vert)	1.5 : 1 for all pile slopes						Input (Site Plan)
Height, H (ft)	15	15	15	15	12	12	Input (Site Plan)
Top Length, b = L-(2*H*S) (ft)	155	55	155	155	64	14	Calculation
Top Width, a = W-(2*H*S) (ft)	5	5	5	5	14	14	Calculation
Top Area, A2 = a*b (sf)	775	275	775	775	896	196	Calculation
Volume, V (cf)	67794	32238	67794	67794	32050	13584	See Note 1
Volume, V (cy)	2511	1194	2511	2511	1187	513	See Note 2
Whole Tires Density (loosely packed, lb/cy)	200	200	200	200	N/A	N/A	See Note 3
Processed Tires Density (loosely packed, lb/cy)	N/A	N/A	N/A	N/A	900	450	See Note 4 & 5
Storage per Pad, S = V*Density (lb)	502181	238800	502181	502181	1068347	226400	Calculation
Storage per Pad, S (ton)	251.09	119.40	251.09	251.09	534.17	113.20	Calculation

Total Tires Whole (ton) 872.67 Sum of Storage per Pad, S (Pads 1,2,3,5)
 Total Tires Processed (ton) 534.17 Sum of Storage per Pad, S (Pad 4)
 Total All Tires (ton) 1406.84 Sum of Storage per Pad, S (Pads 1- 5)

Tire Processor Capacity, C (tons/hr) 11
 Workday, WD (hrs/day) 9
 Daily Tire Processor Capacity, C*WD (tons/day) 99

30 Day Tire Processing Capacity = 30*C*WD	2970	>=	1004
60 Day Tire Processing Capacity = 60*C*WD	5940	>=	1366

Rule 62-711.530(2)(a), F.A.C.; Whole Tire Storage Limit
 Rule 62-711.530(2)(a), F.A.C.; Whole and Processed Tire Storage Limit

Notes:

Volume, V = (H/3)*(A1 + A2 + v(A1 + A2)); Volume of Frustum of Rectangular Pyramid Equation
 1 cy = 27 cf

References: Scrap Tire Cleanup Guidebook, EPA-905-B-06-003, Sec. 3: Planning, pg 14 (20 lb/tire x 10 tires/cy)

References: Scrap Tire Cleanup Guidebook, EPA-905-B-06-003, Sec. 3: Planning, pg 14 (600 to 1,800 lb/cy. Used 900 lb/cy for calcs)

Rim density is assumed solely to provide a rough estimate of rim quantity for stockpile management process.

Rim capacity within the stockpile area will be limited to that area regardless of the actual rim density and is not a regulatory constraint per Rule 62-711, F.A.C.

Closure Item	Quantity (tons)	Unit Price (\$/ton)	Total Cost (\$)
Whole and Processed Tires	1406.84	\$74.00	\$104,106.51
Rims	N/A	N/A	\$0.00
Residual(s)/Class I Removal	16	\$49.00	\$784.00
Site Clean Up and Restoration	\$3,750.00	N/A	\$3,750.00
Total Cost			\$108,640.51

TOTAL COST = (\$108,640.51) * 1.012 = \$109,944.20
 BY: JOHN ARNOLD, ENGINEER
 DATE: 02/16/2022


