

Solid Waste Study

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PRESENTATION TO COMMISSION

BULLOCH COUNTY, GA
AUGUST 16, 2022



Tasks Completed to Date

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- Compiled & reviewed existing system information
- Site visit: interviewed staff, toured facilities and waste management drop-offs
- Estimated material generation
- Researched recycling markets
- Conducted cost of service analysis
- Analysis of alternative service provision
- Conducted working meetings with staff

Key Findings

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- High level of service offered
 - 21 sites to maintain and service is resource intensive
 - Most open 7 days per week, 12.5 hours/day
- Number of locations makes it challenging to manage and control the misbehaviors
 - Sites are unstaffed
 - Materials commonly placed outside and around containers
- Mutually beneficial program utilizing inmate labor
- Pay rate below average (benefit package good)
- Nice (new) sanitation operations headquarters

Quick County Comparison

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Community	Population	Households	Land in Sq.Mi.	# County Convenience Ctrs	Sq.Mi. per Site	Uninc. HH per Site
Bulloch County GA	82,442		672.81	21	32	
Unincorporated HH		19,501				929
Union County NC	238,267		631.52	6	105	
Unincorporated HH		26,194				4,366
Liberty County GA	65,256		489.80	7	70	
Unincorporated HH		6,461				923

Estimated Generation per HH

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Unincorporated Households	19,501
<u>Estimated Incorporated Households</u>	<u>15,000</u>
Total	34,501

Material Stream	Annual Tons	Tons/HH (Unincorporated Only)	Tons/HH (All HHs)
Bulk (MSW)	16,519	0.85	0.48
Inert (Yard Waste)	1,398	0.07	0.04
Tires	275	0.01	0.01
Metal	455	0.02	0.01
Total	18,647	0.96	0.54

Cost of Service Analysis

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Full Cost of Current Services

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Cost Center	Annual Revenue Need	Adjusted Annual Revenue Need*
Mgmt & Admin	\$524,036	
Collection	\$2,523,483	\$2,989,111
Convenience Centers	\$2,288,030	\$2,710,213
Container Rental Services	\$235,452	\$278,898
Facilities	\$131,256	\$155,475
MRF	\$131,256	\$155,475
Other	\$185,288	\$219,477
Total	\$3,364,063	\$3,364,063

**applies management & administration across services*

Preliminary Cost per Household

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Unincorporated Households (HH)	19,501
Estimated Incorporated Households	15,000
<i>Total Households</i>	<i>34,501</i>
Convenience Center Annual Cost	\$2,710,213
Annual Cost per Unincorporated HHs	\$138.98
Annual Cost per All HHs	\$78.55

Alternatives Considered (to Date)

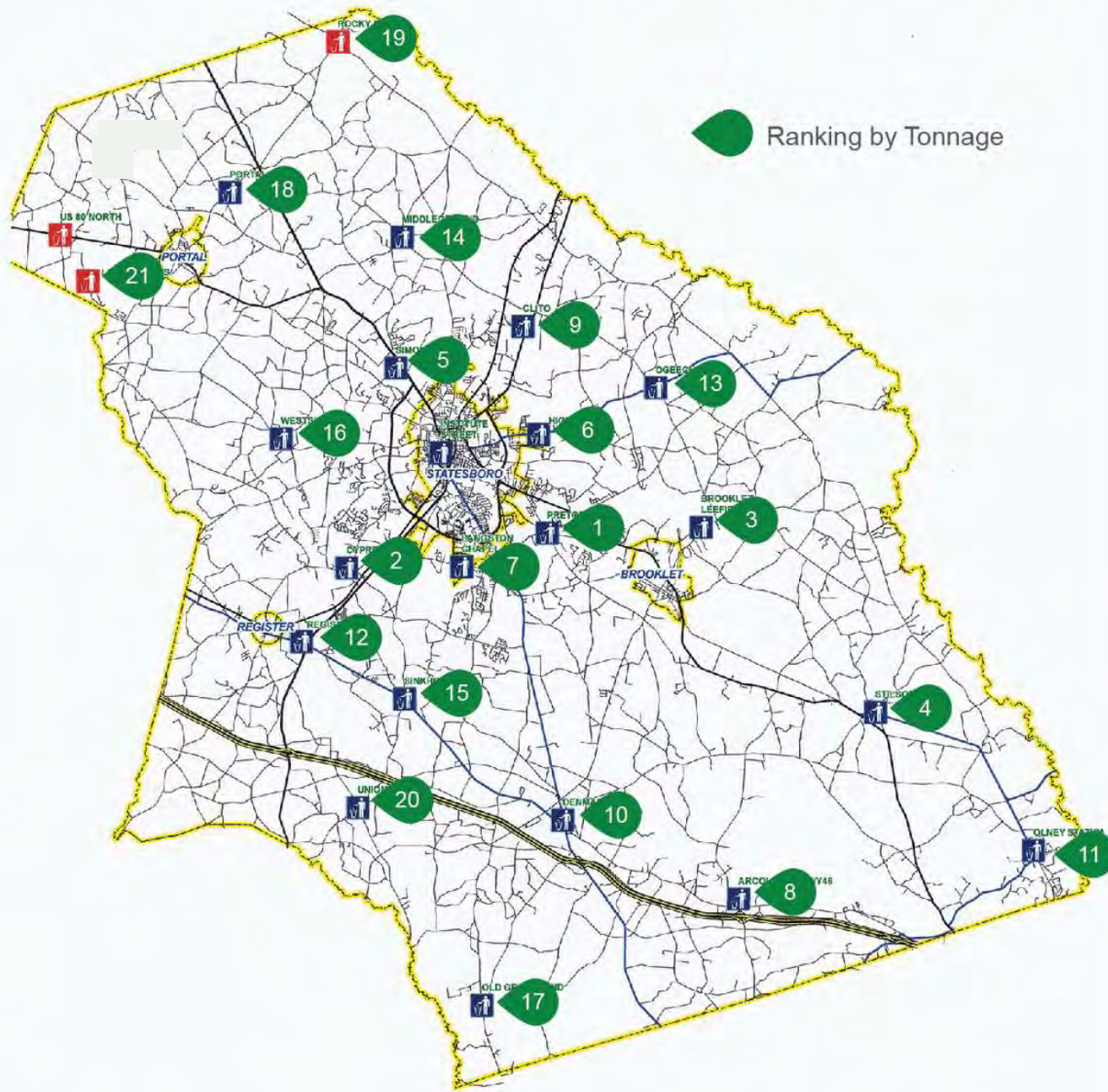
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- Consolidate convenience centers and leave unstaffed
- Re-open MRF and Statesboro recycling site
- Consolidate and staff sites & offer recycling at the consolidated sites

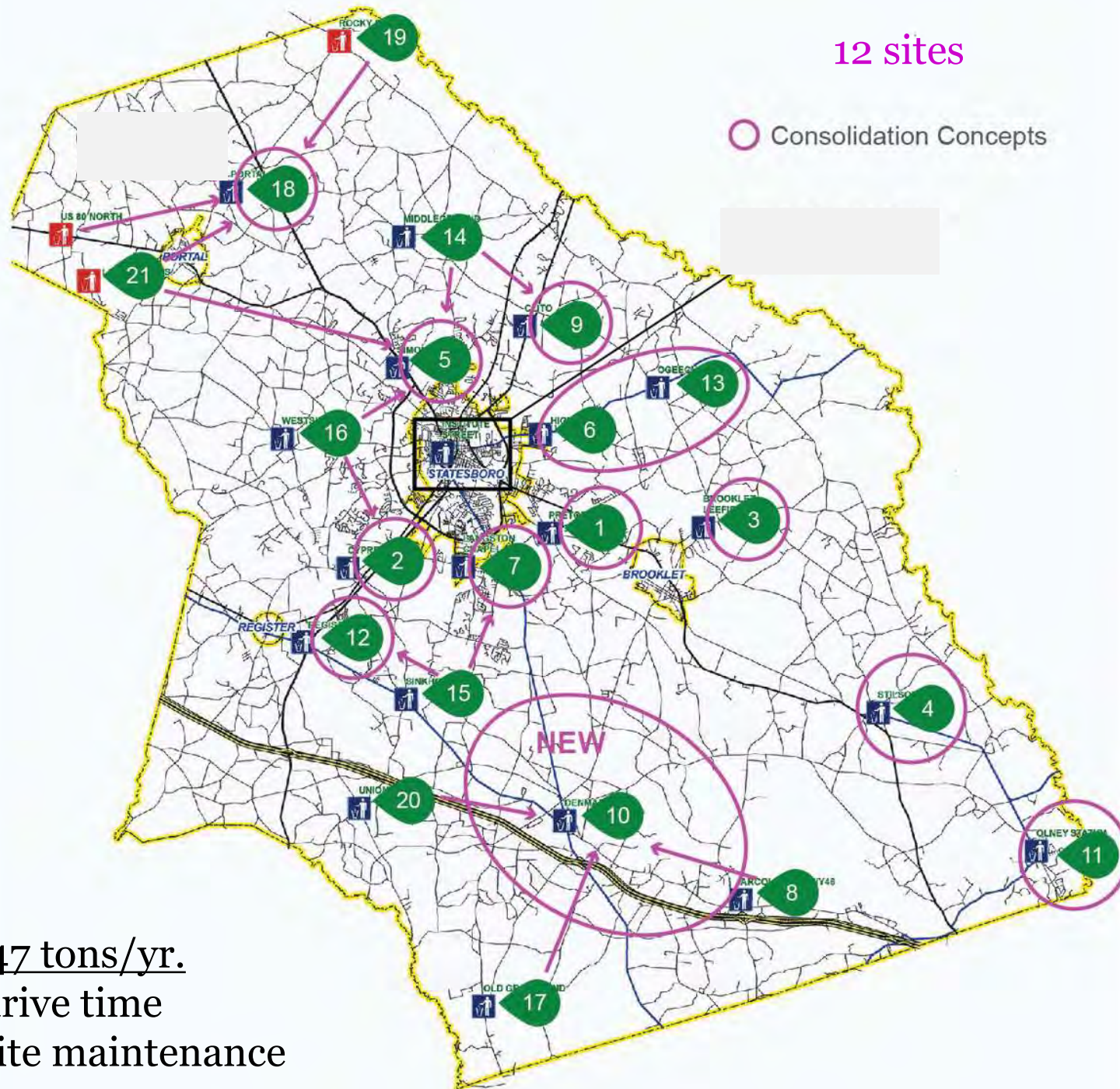
Collection Center Consolidation

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ALTERNATIVE # 1



Rank by Tons	Site	Total Tons
1	6 Points / Pretoria	1,964
2	Cypress Lake	1,824
3	Leefield	1,308
4	Stilson	1,237
5	Simons Road	1,189
6	Hwy 24	1,088
7	Langston Chapel	1,033
8	Arcola / 46	995
9	Clito	974
10	Denmark	932
11	Olney Station	929
12	Pine Inn	811
13	Ogeechee	782
14	Middleground	754
15	Sinkhole	581
16	Westside	559
17	Old Groveland	432
18	Portal 80 West	418
19	Rocky Ford	363
20	Union Church	357
21	Lake Collins	116
Total		18,647



Total 18,647 tons/yr.
 -reduced drive time
 -reduced site maintenance

Consolidation Fiscal Impact

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- Approximately 1% annual cost savings
< \$50,000 annual expense reduction
- Additional savings for maintaining fewer sites
- Capital investment required for new regional site in region of current Denmark site

Further Considerations

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- Reduce hours of operation based on industry standards
- Sites are still unstaffed under this alternative
- Recycling is not included in this alternative

Reopen MRF and Statesboro Recycling Site

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ALTERNATIVE # 2

Resume Material Recovery Facility/Recycling Center Operations Analysis

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- Estimated Recycling Tonnage ~ 550 residential tons
- Staffed collection site(s) serviced by County trucks
 - Statesboro Recycling site staff– one 40 hr. FTE - \$39,109
 - Possible unmanned drop-off at entry to TS/MRF
- MRF Staffing and Operation Expenses

Cost Center	FTE	Cost
Full-Time Supervisor/Foreman*	1	\$66,496
Part-Time Recycling Site Attendant	0.5	\$24,554
Sorters (Inmate Labor)	4.0	\$0
Utilities/Supplies		\$40,000
Total	5.5	\$131,051

**.5 considered for MRF ops, .5 considered for area recycling professional tasks*

Reopen MRF and Statesboro Recycling Site Fiscal Impacts

Fiscal Impacts of Consolidated Sites, Re-Opened MRF, and Re-Opened Statesboro Site

Current Full Cost of Convenience Centers	\$2,710,213
Current Full Cost of MRF	\$155,475
Total Current Full Cost of CCs and MRF	\$2,865,688
New Full Cost of Convenience Centers	\$2,668,244
New Full Cost of MRF	\$333,194
Total New Full Cost	\$3,001,439
Estimated Increase Percent	4.7%
Estimate Increase Total	\$136,000

Recent Recycling Market Analysis

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- Market began rebounding in early 2021
- Brokers regained interest in securing materials



Fiber Materials

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Metal Cans



Plastic Recyclables

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Glass Jars and Bottles

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Outlets for Material

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- Several brokers spoken to, interested in various materials
 - Grief Recycling
 - KW Plastics
 - Sonoco
 - Transtech
 - WestRock
- Local entrepreneur – Boro Recycling
 - Process using all household plastics and glass to make landscape aggregate and other materials

Staff Consolidated Sites & Add Recycling Containers

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ALTERNATIVE #3

Description

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- Consolidate the centers as in the first alternative
- Open MRF and Statesboro Recycling site as in the second alternative
- Staff the consolidated sites for limited hours (assumes 40 hours/week x 13 site attendants @\$39,109 ea.)
- Add a recycling container(s) at each of the consolidated sites

Staff Consolidated Sites & Add Recycling Containers Fiscal Impacts

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Fiscal Impacts of Consolidated Sites, Re-Opened MRF, Re-Opened Statesboro Site, and Recycling at All Sites

Current Full Cost of Convenience Centers	\$2,710,213
Current Full Cost of MRF	\$155,475
Total Current Full Cost of CCs and MRF	\$2,865,688
New Full Cost of Convenience Centers	\$3,169,745
New Full Cost of MRF	\$326,178
Total New Full Cost	\$3,495,923
Estimated Increase Percent	22.0%
Estimate Increase Total	\$630,000

System Funding Consideration

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Sanitation Services in Bulloch County

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Municipality	Households	Refuse	Recycling	Yard Waste	Bulk
Statesboro	14,206	1x/wk	None	1x/wk	On-Call
Brooklet	663	1x/wk	None	1x/wk	None
Portal	274	1x/wk	None	None	None
Register	68	N/A	N/A	N/A	N/A
Unincorporated County	19,501	None	None	None	None
Total	34,712				

Conceptual Assessment Structure

Municipality	Households	Baseline		Scenario 3	
		Annual Assessment	Annual Revenue	Annual Assessment	Annual Revenue
Statesboro	14,206	\$13.14	\$186,737	\$21.74	\$308,813
Brooklet	663	\$13.14	\$8,715	\$21.74	\$14,412
Portal	274	\$27.49	\$7,532	\$38.75	\$10,618
Register	68	\$136.07	\$9,252	\$161.58	\$10,988
Unincorporated County	19,501	\$136.07	\$2,653,452	\$161.58	\$3,151,092
Total	34,712		\$2,865,688		\$3,495,923

Discussion Points

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- Curbside Polycart Collection (contracted or County)
 - Bulloch County unpaved roads and heavy collection trucks
- Labor costs
 - Low pay scale
 - Inmate labor vs. privatizing → large cost savings
- Next steps

Questions

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