

Overview

Study of County-Administered Contract Districts for Collection of Residential Waste and Recyclables in Queen Anne's County

Presented to:

Queen Anne's County Board
of County Commissioners

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What are County – administered contract collection districts?

- Designated areas (including defined routes) in the County where residential waste and, potentially, residential recyclables would be collected at curbside by exclusive hauler(s)
 - Subject to competitive bid or proposal;
 - Pursuant to detailed specifications and standards;
 - Through contract for multiple years, typically 5 to 7; and
 - Under the administration, monitoring, and oversight of the County

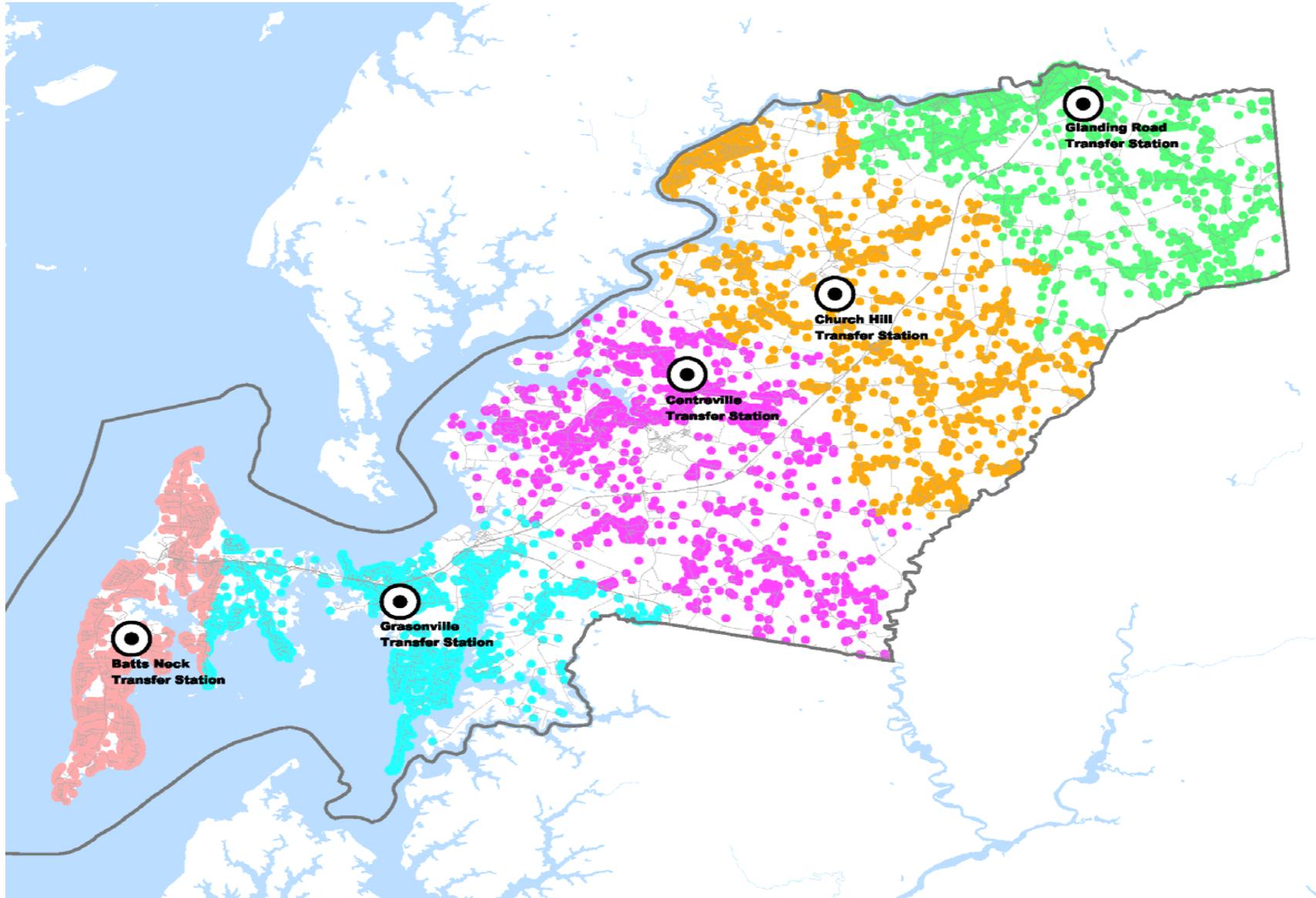
Why consider County-administered contract collection districts for residential waste/recyclables?

- Increased population density, particularly Kent Island and Southwest portion of County; 210 subdivisions
- Strain on existing convenience centers
- Opportunity to lower costs to residents and reduce expense, extent, and use of convenience center system
- Improved customer service
- Means to increase recycling
- Reduced traffic, road wear, pollution and fuel consumption
- Secured use of Midshore Regional Landfill
- Improved management and oversight of residential waste collection by County

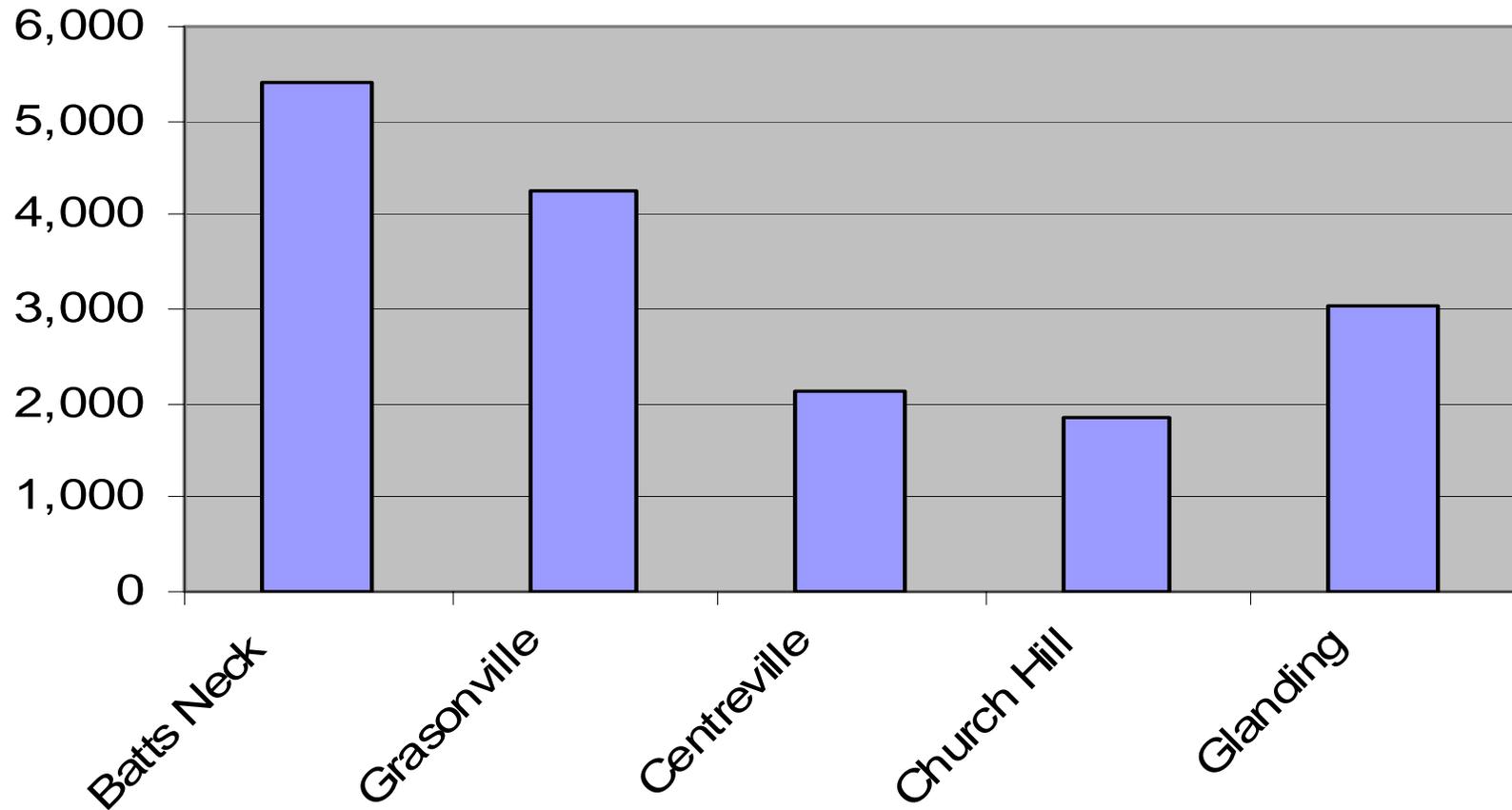
Existing Residential Collection System

- Five County Convenience Centers
 - Batts Neck
 - Grasonville
 - Centreville
 - Church Hill
 - Glanding Road
- Subscription Collection with Private Haulers in Unincorporated Area
- Eight Incorporated towns have “contract collection” through various private haulers
- Very limited curbside collection of residential recyclables in County – a few towns and subdivisions
- County is empowered to register refuse collectors, issue collection permits, inspect collection equipment, but currently does not

Projected Service Areas of Existing Convenience Centers/Transfer Stations



Combined Solid Waste and Rubble Intake at County Convenience Centers FY 2004 (Tons)



**Solid Waste and Rubble Received at County Convenience
Centers FY 2002 – FY 2004^[1] (Tons)**

<u>Convenience Centers</u>	<u>FY04 Solid Waste</u>	<u>Rubble</u>	<u>Total</u>	
Batts Neck	3,626	1,793	5,419	
Grasonville	2,953	1,294	4,247	
Centreville	1,557	571	2,128	
Church Hill	1,257	584	1,841	
Glanding	<u>2,220</u>	<u>826</u>	<u>3,046</u>	
Total All Centers	11,613	5,067	16,680	+19.9%

<u>Convenience Centers</u>	<u>FY03 Solid Waste</u>	<u>Rubble</u>	<u>Total</u>	
Batts Neck	3,198	1,094	4,292	
Grasonville	2,435	1,059	3,494	
Centreville	1,332	509	1,841	
Church Hill	1,157	482	1,639	
Glanding	<u>1,969</u>	<u>679</u>	<u>2,648</u>	
Total All Centers	10,090	3,823	13,913	+3%

<u>Convenience Centers</u>	<u>FY02 Solid Waste</u>	<u>Rubble</u>	<u>Total</u>	
Batts Neck	3,301	1,214	4,515	
Grasonville	2,171	953	3,124	
Centreville	1,236	514	1,750	
Church Hill	1,024	471	1,495	
Glanding	<u>1,807</u>	<u>783</u>	<u>2,590</u>	
Total All Centers	9,539	3,935	13,474	

^[1] Excludes solid waste and rubble from miscellaneous locations and community clean-ups, and waste from Hurricane Isabel.

Estimated Households Using County Convenience Centers in FY 2004

	Batts Neck	Grasonville	Centreville	Church Hill	Glanding
Solid Waste (Tons)	3,626	2,953	1,557	1,257	2,220
Households assigned by site	5,287	4,630	1,822	2,212	1,500
Projected households using site based on assumed generation of solid waste per household	2,789	2,272	1,198	967	1,708
Projected percentage of assigned households using site	52.8%	49.1%	65.8%	43.7%	113.9%

Convenience Centers Cost (FY 2004)¹

Site Expenditures	\$ 613,562
Transfer/Transportation Costs	549,349
Disposal Fees	<u>734,345</u>
	\$1,897,254

¹ Excludes administrative costs and costs related to recycle box truck collection/processing and Midshore Regional Recycling Program costs.

Reported Residential Subscription Waste Collection Charges for Selected Haulers

Hauler	Monthly Charge Per Household	Provides Residential Recyclables Collection	Annual Total Charge
BFI Waste Service Inc.	\$27.75 (with or without cart)	No	\$333.00
Waste Management of Maryland, Inc.	\$22.00 (with or without cart)	No	\$264.00
American Waste	\$20.00 (with or without cart)	No	\$240.00
Island Disposal	\$23.00 (with or without cart)	No	\$276.00

Collection in Incorporated Towns

- Residences served vary from 25 to 1,100
- Reported collection fees range from \$5.39/HH month to \$16.19/HH month
- Most charges in \$9.00 - \$10.00/HH/month range
- Costs are not comparable as:
 - Some towns don't include or report disposal cost in collection charge
 - Some towns don't designate/require disposal at Midshore Landfill
 - Some town contracts include town buildings and/or small commercial
 - Haulers are able to service other customers in vicinity
 - Data collection/monitoring by some towns is limited

Study estimates:

- 42% of single-family, town-homes, and mobile home households in unincorporated area receive regular subscription curbside collection
(6,517 households)
- 58% of such households self-haul to convenience centers
(8,934 households)

Estimated Average Annual Costs to Residents for Waste Collection Exclusive of Property Taxes

- Residents in Households Self-hauling to Convenience Centers

– Transport costs	\$189.54 ¹
– Purchase of tickets for convenience center use	<u>69.33²</u>
Total	\$258.87

- Residents in Households Receiving Curbside Subscription Collection from Private Haulers

– Subscription collection charge	\$288.00³
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¹ Assumes resident makes one trip/week @ average round-trip distance of 9 miles @ cost of \$.405/mile (U.S. Treasury Publication 15 mileage cost allowance, January 2005)

² Assumes average household uses 52 tickets/year at a price of \$1.33/ticket.

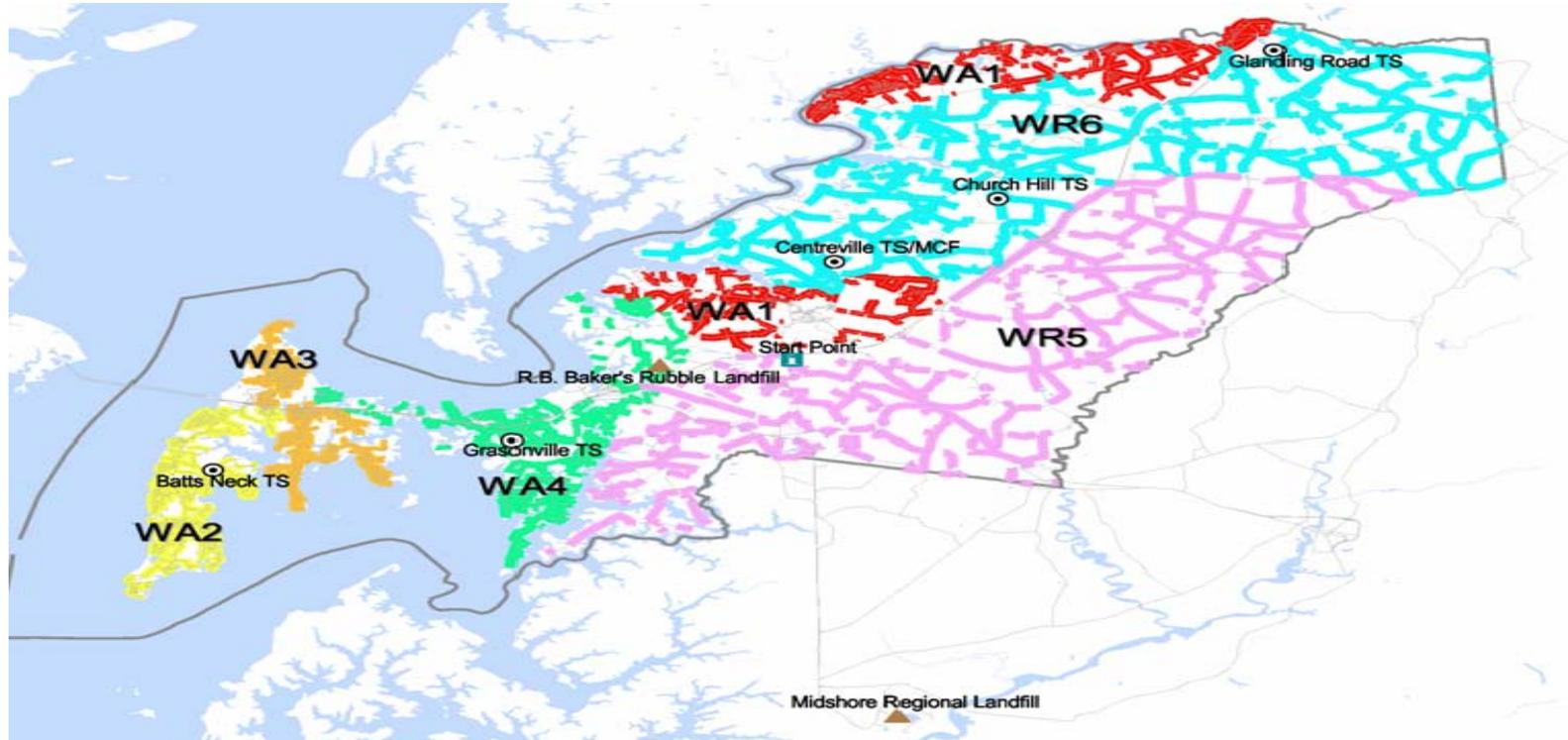
³ Assumes average monthly household subscription collection charge of \$24.00 (typical range is \$20.00/month to \$27.75/month)

Study Examined Collection Districting Subject to Several Key Assumptions

Four Scenarios

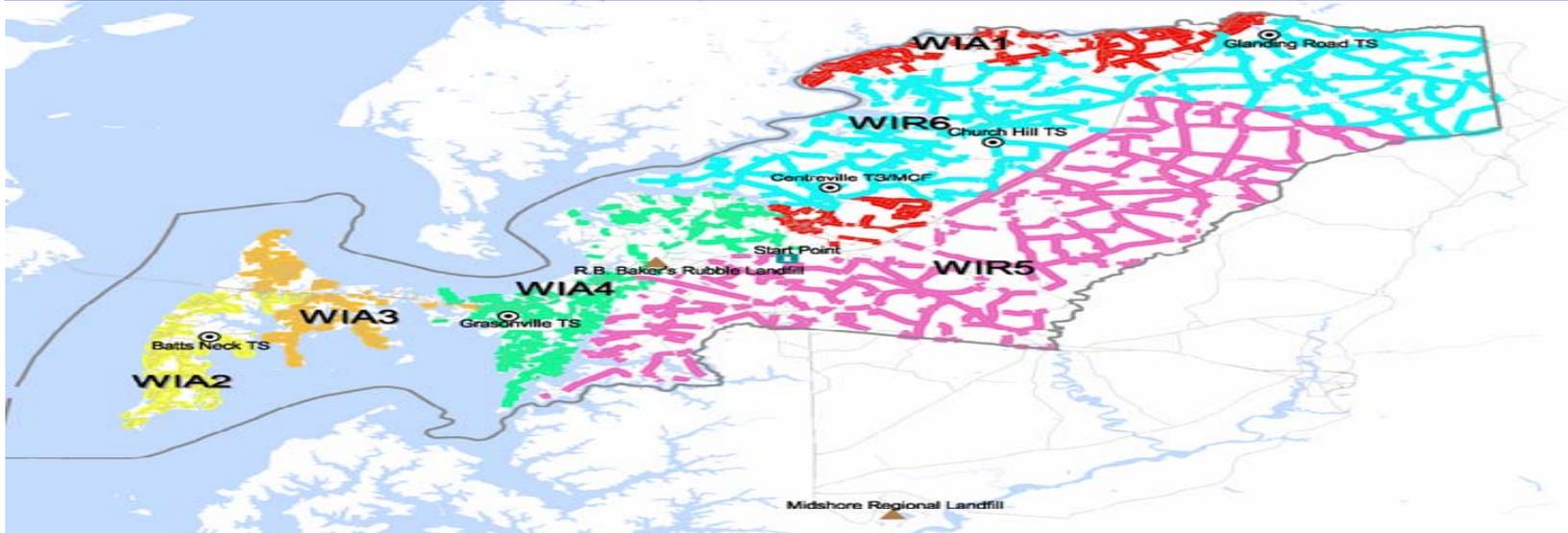
1. Curbside residential waste collection only in unincorporated area
2. Curbside residential waste collection in unincorporated area and incorporated towns
3. Curbside residential recyclables collection only in unincorporated area
4. Curbside residential recyclables collection in unincorporated area and incorporated towns

Potential Residential Waste Collection Districts Only in the Unincorporated Area



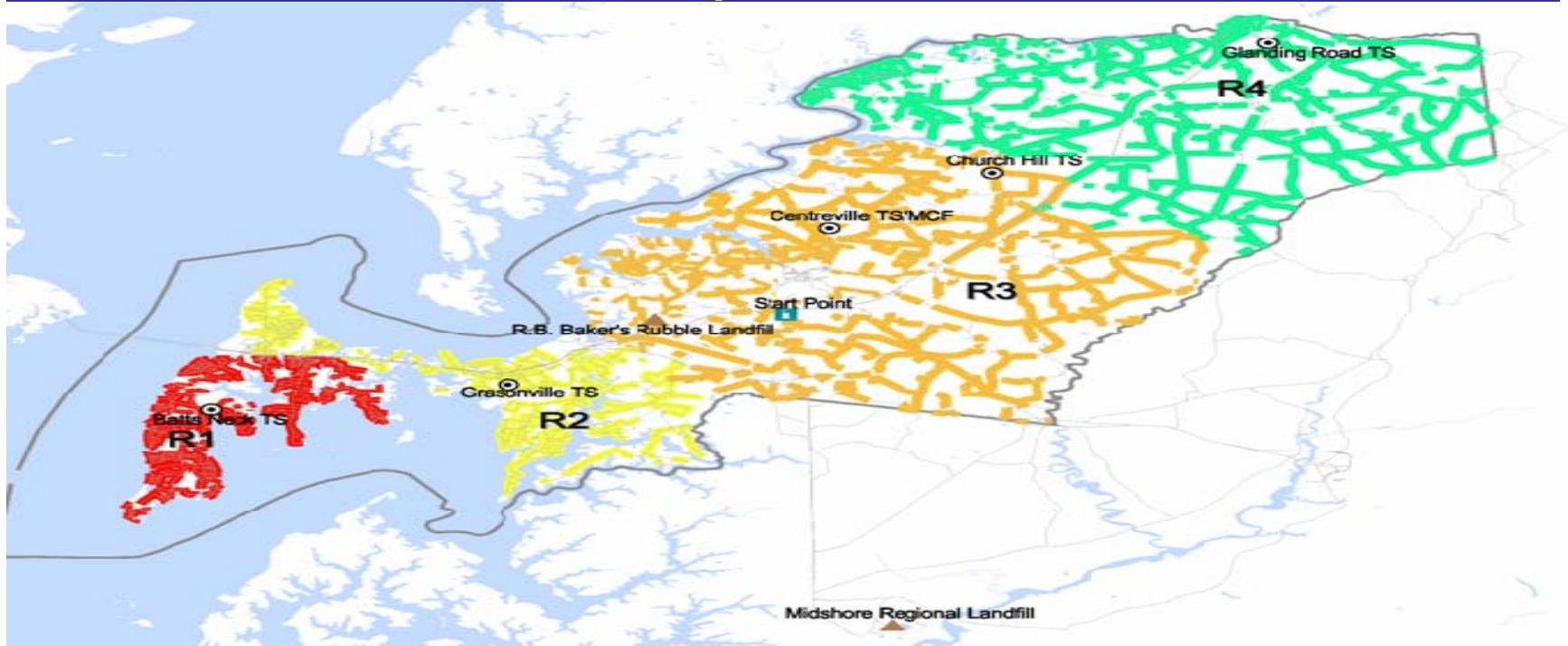
District	Hours Per Week	Tonnage	Households Per Week	Weekly Miles	Vehicle Type
WA1	48	58	2,584	981	Automated
WA2	49	71	3,170	923	Automated
WA3	44	71	3,138	830	Automated
WA4	50	78	3,459	917	Automated
WR5	48	36	1,586	982	Rear Load
WR6	49	34	1,514	1,076	Rear Load
Total	289	348	15,541	5,707	

Potential Residential Waste Collection Districts in the Unincorporated and Incorporated Areas



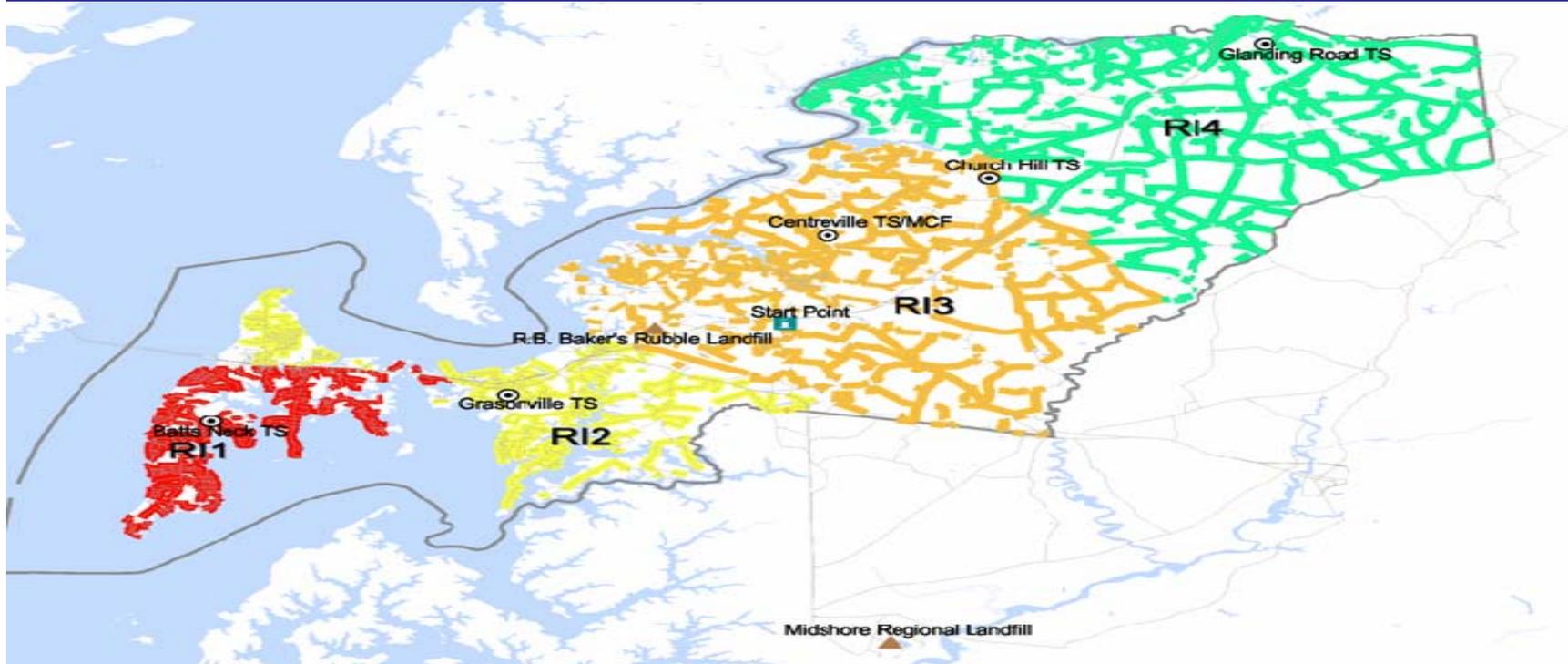
District	Hours Per Week	Tonnage	Households Per Week	Weekly Miles	Vehicle Type
WIA1	49	66	2,921	974	Automated
WIA2	52	78	3,486	990	Automated
WIA3	51	84	3,723	962	Automated
WIA4	52	74	3,287	960	Automated
WIR5	50	39	1,750	1,031	Rear Load
WIR6	50	41	1,805	1,066	Rear Load
Total	305	381	16,972	5,985	16

Potential Residential Recyclables Collection Districts Only in the Unincorporated Areas



District	Hours Per Week	Tonnage	Households Per Week	Weekly Miles	Vehicle Type
R1	50	15	4,835	837	Un-compacted, Dual Compartment
R2	51	15	4,902	870	Un-compacted, Dual Compartment
R3	48	8	2,713	937	Un-compacted, Dual Compartment
R4	50	9	3,001	1,000	Un-compacted, Dual Compartment
Total	200	46	15,451	3,643	17

Potential Residential Recyclables Collection Districts in the Unincorporated and Incorporated Areas



District	Hours Per Week	Tonnage	Households Per Week	Weekly Miles	Vehicle Type
RI1	52	15	5,007	889	Un-compacted, Dual Compartment
RI2	53	16	5,189	873	Un-compacted, Dual Compartment
RI3	51	10	3,369	944	Un-compacted, Dual Compartment
RI4	52	10	3,407	1,013	Un-compacted, Dual Compartment
Total	208	51	16,972	3,718	18

Average Collection and Disposal Costs per Household for the Potential Waste and Recyclables Collection Districts

	Vehicle Type	Monthly Cost	Annual Cost
Waste Collection Districts Only In the Unincorporated Areas	Automated	\$11.89	\$142.68
	Rear Load	\$18.81	\$225.70
	Combined (both)	\$13.28	\$159.34
Waste Collection Districts in The Unincorporated and Incorporated Areas	Automated	\$11.60	\$139.25
	Rear Load	\$17.19	\$206.27
	Combined (both)	\$12.77	\$153.28
Recyclables Collection Districts Only in the Unincorporated Areas	Un-compacted, Dual Compartment	\$ 4.46	\$ 53.48
Recyclables Collection Districts in the Unincorporated And Incorporated Areas	Un-compacted, Dual Compartment	\$ 4.09	\$ 49.12

Note: Does not include the County's costs for administering the program and the costs for recyclables consolidation and processing.

Additional Costs for County-Administered Contract Curbside Collection Districts

- County Administration Cost \$1.79-\$1.90/household/month (personnel, equipment, public education, supplies, services)
- Recyclable Materials Consolidation, Transport, Processing (exclusive of materials sales) approximately \$1.00/household/month

(If curbside recyclables collection is included)

Note: Certain capital and/or operating costs for recyclables consolidation and transport could be avoided or offset by County's sale of certain surplus equipment and/or use of existing equipment

Estimated Annual Savings to County by Implementing County-wide Curbside Residential Collection Districts¹

- Ability to close Batts Neck and Church Hill Convenience Centers

Annual Savings \$802,450

- Reduced Days and Employees at Three Remaining Convenience Centers

Annual Savings \$543,314

Total Annual Savings \$1,345,764

¹ Based on FY 2004 capital and operating costs. Future costs would vary due to waste intake, capital needs, and changes in price of labor, fuel, supplies, repairs, etc.

Estimated Cost Impact to Households (uniform household assessment)

- If collection districting for residential waste only in unincorporated area

1. Households that now regularly self-haul to convenience centers (Est. 8,934)

– Savings on trips to convenience centers	- \$189.54
– Savings on purchase of tickets	- \$ 69.33
– Estimated new annual assessment	+ \$180.84
– Net Annual cost to household	- \$ 78.03 (Savings)

2. Households that now regularly receive subscription collection (Est. 6,157)

– Savings on current collection costs	- \$288.00
– Estimated new annual assessment	+\$180.84
– Net annual cost to household	- \$107.16 (Savings)

Estimated Cost Impact to Households (with uniform household assessment)

- If collection districting for residential waste and recyclables in unincorporated area
 1. Households that now regularly self-haul to convenience centers (Est. 8,934)

– Savings on trips to convenience centers	- \$189.54
– Savings on purchase of tickets	- \$ 69.33
– Estimated new annual assessment	+\$246.60
– Net annual cost to household	- \$ 12.27
	(Savings)
 2. Households that now regularly receive subscription collection (Est. 6,517)

– Savings on current collection costs	- \$288.00
– Estimated new annual assessment	+\$246.60
– Net annual cost to household	- \$ 41.40
	(Savings)

Comparison of Scenarios

#		Current	Scenario 1 Waste Only Collection	Scenario 2 Waste & Recyclables Collection
1	Household (HH) Waste at Convenience Centers (tons)	11,613	0	0
2	Household waste from Curbside Collection (tons)	8,472	18,183	18,183
3	Recyclables from Curbside Collection (tons)	Limited	Limited	2,410
4	HH Serviced Curbside	6,517	15,451	15,451
5	HH Using Convenience Center for household waste	8,934	0	0
6	Convenience Center Sites Open	5	3	3
7	Annual Cost of Convenience Center Sites	\$1.9 million	\$509,000	\$509,000
8	Cost for Program Set-up		\$316,723	\$358,723
9	Annual Cost for Program Administration		\$269,239	\$279,499
10	Monthly Cost per HH for Program Set-up & Administration		\$1.79	\$1.90
11	Annual HH Assessment for Curbside Collection & Program Administration	NA	\$180.84	\$246.60

Challenges to Implementing Collection Districting

- Resistance to “change”
- Opposition from certain residents and haulers
- Implementation costs
- Administrative and enforcement burden and costs
- Expanded and sustaining public education needs
- Potential for increased littering and illegal dumping – need for greater County monitoring
- Requirement for new recyclables management facilities, services, and business arrangements

Partial List of Issues that Would Need to be Addressed in Planning Collection Districts

- Extent of districting and services included
- Schedule for districting
- Number of districts any one hauler could have
- Hauler responsibilities vs. County responsibilities
- Requirement for office or fleet depot in County for contracted hauler(s)
- Routing within districts
- Length of contracts
- Changes to and closure of certain convenience centers

Partial List of Issues that Would Need to be Addressed in Planning Collection Districts (Continued)

- Form of procurement (RFP or IFB) and specifications
- Content, timing, and responsibilities for public education needs
- New or amended ordinances
- Disposition of existing residential collection contracts
- Uniform vs. differential assessment
- Modified ticket fees for use of convenience centers after districting

Major Tasks for Transition and Program Implementation

1. Form Implementation Team
2. Develop Action Plan and Schedule
3. Obtain County Commissioners' Approval of Plan and Direction
4. Design a Public Education Campaign
5. Design Collection Districts and Routes
6. Develop Program Administration and Ordinance(s)
7. Conduct the Public Education Campaign
8. Prepare Procurement Solicitations and Draft Contract(s)
9. Conduct Procurement and Award Contracts
10. Implement all Administrative and Legislative Needs
11. Begin Operations, Monitoring the System and Adjusting any Program Elements as Needed

Conclusions

- The system of convenience centers is becoming strained and costly; collection districting for residential waste (and possibly recyclables) would be a progressive shift
- County-administered contract collection districts are estimated to reduce the price of curbside collection of residential waste by approximately 38% versus current subscription charges
- Curbside collection districts would yield the County a savings in operating convenience centers and the roll-off transport system
- Implementation of County-administered contracts for curbside collection will be a major challenge for the County and will meet with certain opposition
- Inclusion of curbside residential recyclables collection would add costs to the program but contribute to an increased recycling rate in the County

Recommendations

- Obtain input from stakeholders (residents, haulers, others)
- Decide whether or not to move forward with:
 - Countywide districting program of residential waste collection only
 - Countywide districting program of residential waste and recyclables collection
 - Phased program or pilot of residential waste only or residential waste and recyclables districting initially in the high density areas
 - Maintain the existing system of convenience centers with certain improvements
- If the County's decision is to move forward with collection districts in any form, it needs to mobilize an "implementation task force" and prepare a detailed "Action Plan" keyed to the specific alternative(s) to be implemented

Recommendations (Continued)

- The Action Plan would set forth:
 - Public education campaign
 - Collection districts and routing needs
 - Program administration and billing system needs
 - Legislative needs and changes
 - Program needs for new facilities and services
 - Procurement document needs and contracting requirements
 - Overall schedule and other pre-launch needs
- Pre-launch and implementation activities would be guided by the Action Plan following County Commissioners' approval

QUESTIONS?