

SEPARATING GLASS FROM THE MIXED STREAM

Housatonic Resources Recovery Authority Jennifer Heaton-Jones, Executive Director CT DEEP SWAC January 28, 2020

History

- 2017 Oak Ridge suggested removing glass as a solution to address the HRRA's concern with increasing tip fees.
- 2018 Substitute House Bill No. 5360 Public Act No. 18-181 Sec. 12. (Passed in June. Effective Oct 1, 2018)
- The HRRA Director conducted several meetings and surveys to seek direction and presented it to the Full Authority who approved moving forward with the program.
- 2019 The HRRA started Phase I in March to collect glass separately from the mixed stream at the Bethel, Redding & Ridgefield transfer stations
- CT DEEP issued their official approval of the HRRA's Glass Pilot Participation Application to remove glass from the mixed stream at the curb and transfer stations.



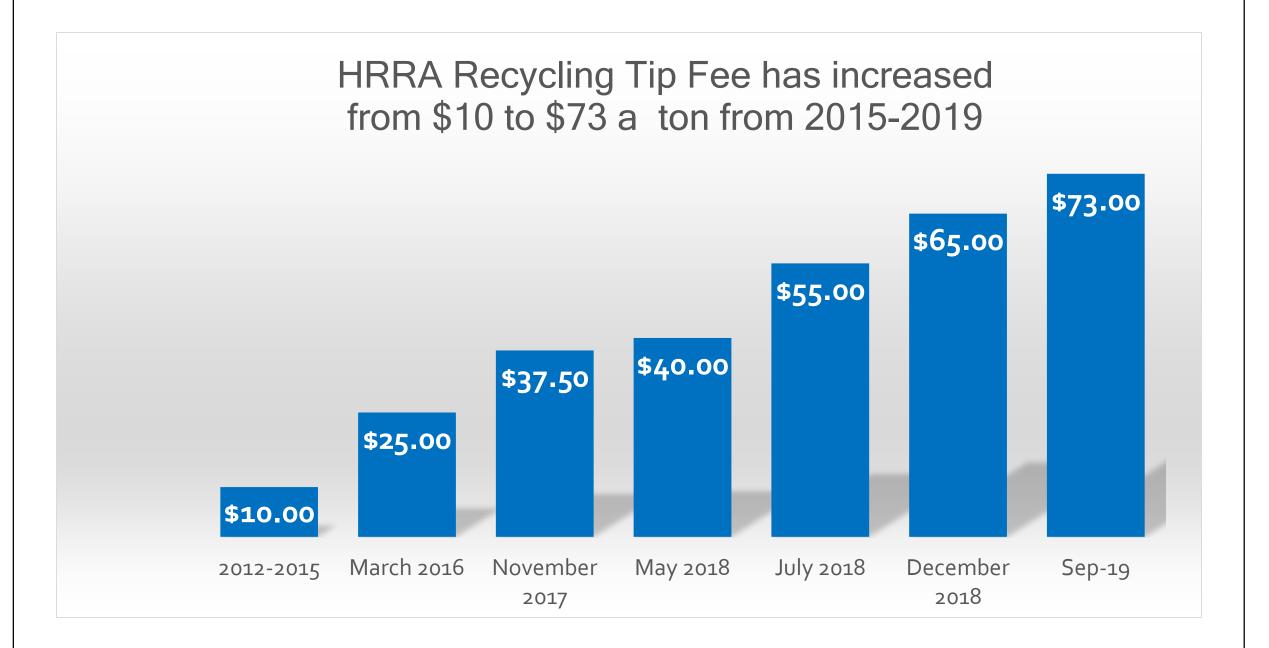






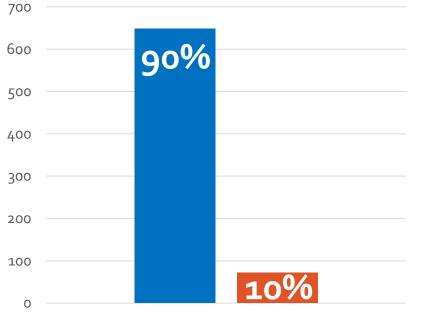


Separating Glass from the Mixed Stream... why?



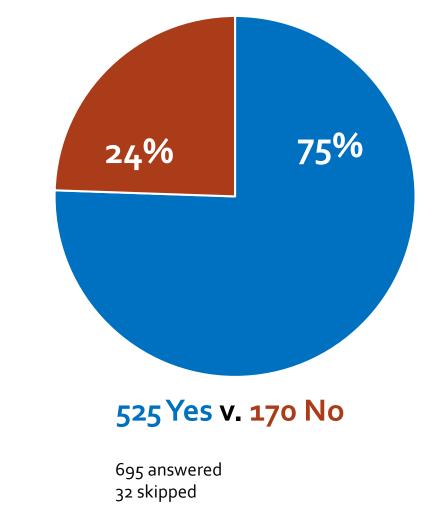
Public Survey November 2018

If you were asked to recycle glass separate from your mixed recycling bin, would you?



648 Yes v. 72 No

695 answered 32 skipped If your waste hauler did not provide the collection of glass pick-up, would you drive the glass to your local recycling center to recycle it?



Nov. 2018

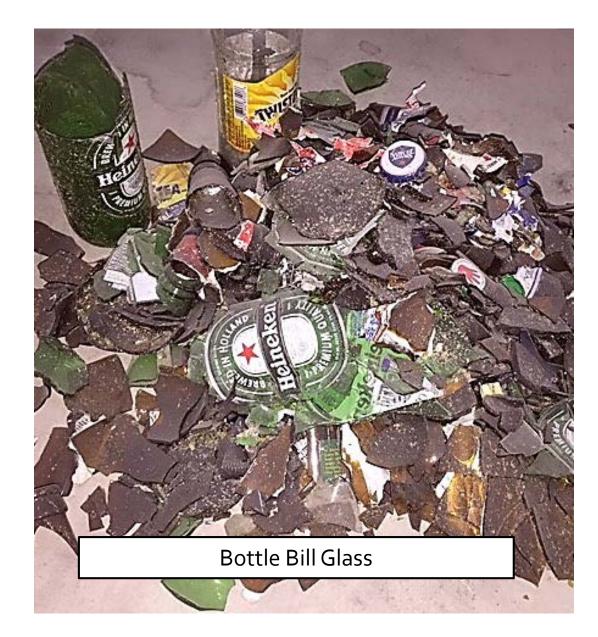




Not to be overlooked. Is the problem glass or the other contaminates? Or both...?



Glass dust and particles are everywhere





Phase 1

- **Collection Points**
- Bethel Transfer Station
- Redding Transfer
 Station
- Ridgefield Transfer Station

































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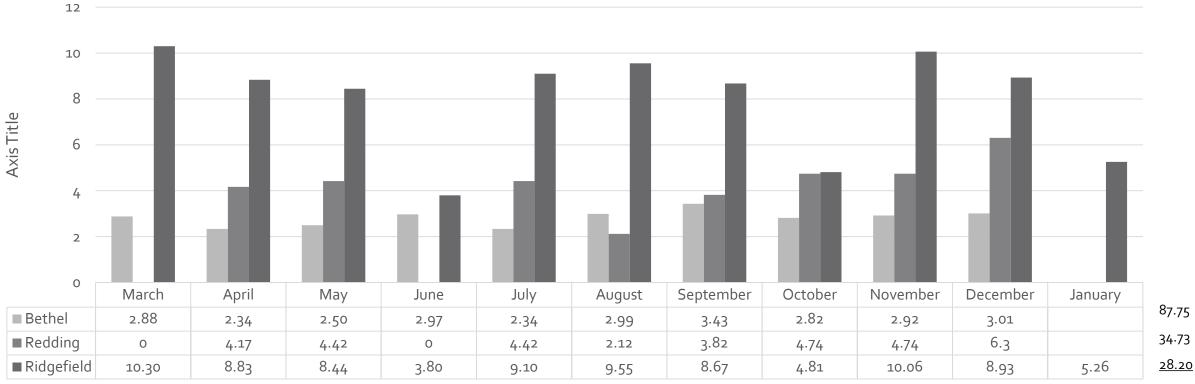


" Our Roots Are In Your Community"

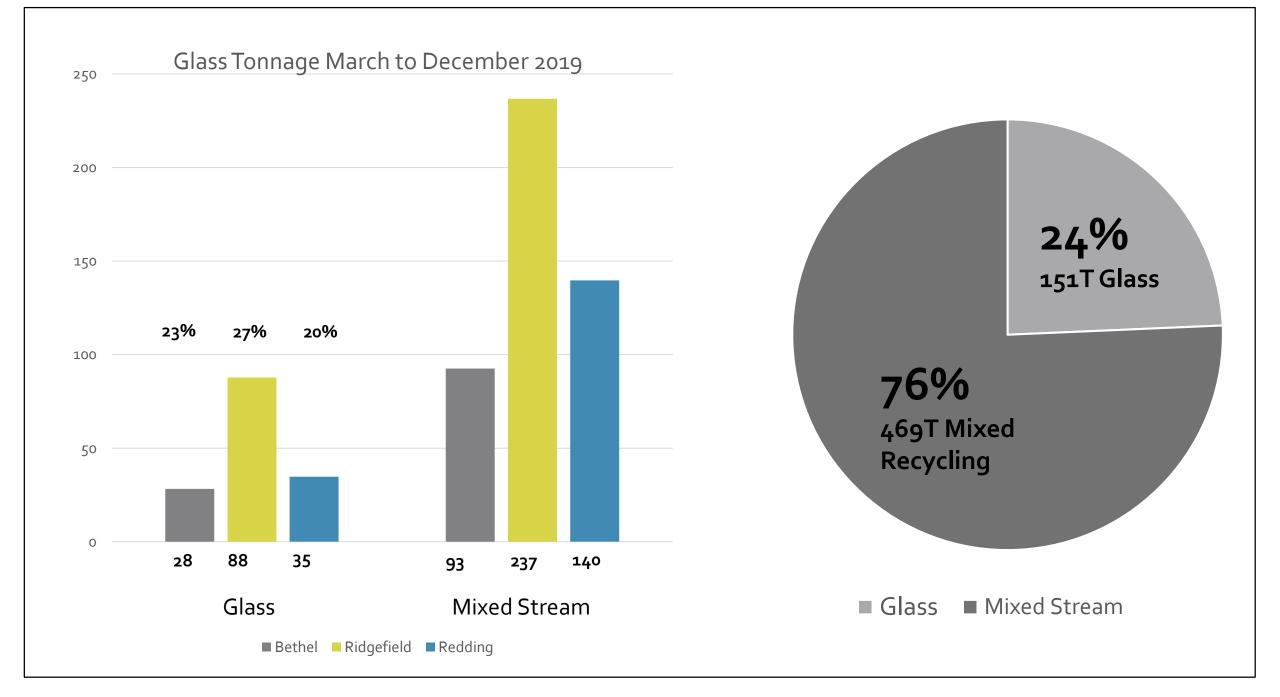
Town	Population
Bethel	18,584
Redding	9,158
Ridgefield	24,648

Glass drop-off data to date

Phase I – Transfer Station Drop-Off



150.68



				HRF	RA - Regio	nal Recyc	ling Mixed	d Recyclin	g Tonnage	e Trend				
		0007	0000								0010	2017	0010	0010
lan		2007 681	2008 746	2009 625	2010 771	2011 554	2012 729	2013 702	2014 944	2015 971	2016 986	2017 872	2018 983	2019
Jan Feb		534	630	625 566	616	537	656	566	944 756	759	888	705	983 954	700 529
Mar		692	675	500	742	558	715	652	869	901	1,045	769	1,112	579
Apr		697	604	606	727	518	693	600	995	988	997	768	1,089	634
May		738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181	732
Jun		709	637	832	607	640	790	647	1,010	1,059	887	875	1,163	630
Jul		681	660	823	543	616	745	975	1,043	1,070	864	808	1,176	717
Aug		755	609	753	562	721	811	980	975	979	1,037	937	1,202	666
Sep		638	639	763	563	708	691	998	1,050	1,016	888	986	1,023	578
Oct		746	639	742	540	656	684	956	1,043	949	832	920	645	620
Nov		791	640	804	569	715	737	868	915	1,025	895	861	754	578
Dec		775	837	866	653	801	677	982	1,180	1,229	995	901	681	751
Total Tons	s YTD	8,437	7,988	8,702	7,567	7,608	8,670	9,618	11,869	11,972	11,351	10,217	11,964	7,715
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0													implem	ented
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct N	lov [Dec	Octobe	r 2018

Possible Impact to hauler tip fees

10,312	Average CY of mixed tons over 4 years
\$73.00	Current tip fee for mixed tons
\$752,776	Annual cost to haulers to tip mix stream x \$73
2475	# of tons of glass in mixed stream (24%)
7837	Remaining mixed tons
\$470,219	Remaining mixed tons reduced to \$60
\$86,625	Source separated glass tons at \$35 tip fee
\$556,844	Total cost of mix and glass
\$195,932	Cost savings from glass removed from mixed stream

Additional impacts to be considered

- Wear & tear on equipment
- De-value of other material (paper, boxboard, cardboard)
- Lack of markets
- Contamination
- Space
- Worker safety
- Change in the carbon footprint of the glass. fewer number of times it is handled and processed.



NERC MRF GLASS SURVEY

WE ARE NOT ALONE, READ THE HEADLINES...

Recent article in Resource Recycling regarding Fairfax County, VA

January 25th article from New Jersey regarding Clifton, NJ



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Moving forward

- Waiting for Urban Mining to open (*summer*) 2020 before implementing a full regional program (curbside & all 9 transfer stations.)
- The HRRA will change registration requirements in 2020 to require that all haulers comply with the pilot program when it launches.
- The HRRA will give quarterly updates to CT DEEP to help them gain insight on the effectiveness and suitability of an alternative approach to glass collection.
- Educational material will be shared with CT DEEP.
- Including more glass bottles in the deposit law.
- Looking into additional alternatives for glass recycling to lower carbon footprint



