

# SUMMARY OF 2002 VERMONT HHW/CEG HAZARDOUS WASTE PROGRAM ACTIVITY

TOWN/DISTRICT	COLLECTION EVENTS	HH UNITS	PARTICIPANTS	BUSINESSES	REPEAT PARTICIPANTS	% REPEAT PARTICIPANTS	% TOTAL PROGRAM PARTICIPATION	PROGRAM COST	\$/PART	POUNDS OF WASTE	POUNDS OF WASTE PER PARTICIPANT	POUNDS OF MERCURY-ADDED PRODUCTS/DEBRIS	POUNDS OF ELEMENTAL MERCURY	LINEAR FEET OF FLUORESCENT LAMPS
1 Addison County SWMD	20	12706	1022	38	557	54.50	8.04	\$81,739.22	\$79.98	129949	123	280	0	30673
2 Bennington RPC <sup>1</sup>	2	6575	157	2	0	0.00	2.39	\$9,815.50	\$62.52	16380	103	200	0	0
3 Central Vermont SWMD	9	27751	288	12	167	57.99	1.04	\$28,417.00	\$98.67	16603	55	0.5	6.6	1919
4 Chittenden SWMD <sup>1</sup>	253	62358	10348	445	0	0.00	16.59	\$311,066.00	\$30.06	515773	48	678	0	193547
5 Greater UVSWMD(GUV) <sup>2</sup>	2	9462	183	0	127	69.40	1.93	\$12,872.00	\$70.34	46968	167	18	3	6900
6 SWAC/JMSC (Rutland)	4	6546	292	0	0	0.00	4.46	\$17,135.14	\$58.68	15438	53	1	2	1826
7 Lamoille RSWMD	6	12780	410	16	213	51.95	3.21	\$22,105.00	\$53.91	21045	49	0	41	2544
8 Londonderry Group <sup>3</sup>	2	2806	47	4	6	12.77	1.67	\$4,422.39	\$94.09	5640	111	40	0	1920
9 Mad River SWA	2	8111	449	51	274	61.02	5.54	\$27,007.00	\$60.15	21923	44	5	3.5	4384
10 NE Kingdom SWMD	93	12154	786	9	83	10.56	6.47	\$17,179.25	\$21.86	22760	29	20	65	9280
11 Northwest SWMD <sup>4</sup>	8	14805	524	14	0	0.00	3.54	\$22,309.63	\$42.58	31919	59	8	0	5692
12 Rutland County SWMD	176	22500	1132	30	0	0.00	5.03	\$99,039.28	\$87.49	38920	33	0	10	50000
13 S. Wind/Windham SWMD	3	20104	262	5	0	0.00	1.30	\$26,769.00	\$102.17	16000	60	0	20	2212
14 White River Alliance	2	4769	89	1	0	0.00	1.87	\$4,641.33	\$52.15	1592	18	0	0	6782
15 Windham SWMD	4	19468	216	13	52	24.07	1.11	\$25,337.50	\$117.30	27320	119	200	0	10000
16 Waste USA (NEK) <sup>5</sup>	2	10831	156	0	0	0.00	1.44	\$17,594.70	\$112.79	11000	71	0	0	831
17 Burke <sup>6</sup>	2	892	40	0	40	100.00	4.48	\$4,375.44	\$109.39	840	21	0	0	120
18 Corinth <sup>7</sup>	Included with GUV	728	6	0	0	0.00	0.82	\$549.67	\$91.61	Included with GUV	0	0	0	0
19 Fairfax	2	1249	60	0	40	66.67	4.80	\$2,573.00	\$42.88	2440	41	0	0	0
20 Georgia	2	1654	140	0	85	60.71	8.46	\$7,419.80	\$53.00	13120	94	2	2	1400
21 Hartford <sup>7</sup>	Included with GUV	5493	93	0	0	0.00	1.69	\$5,264.00	\$56.60	Included with GUV	0	0	0	0
22 Highgate/Franklin	2	2111	58	0	23	39.66	2.75	\$2,691.62	\$46.41	2640	33	0	0	120
23 Randolph, Braintree & Brookfield	2	3074	179	0	0	0.00	5.82	\$16,248.59	\$90.77	12920	72	0.5	0	2257
24 St. Albans Town	2	2257	70	0	35	50.00	3.10	\$10,255.00	\$146.50	13488	193	70	6	288
25 St. Johnsbury	2	3482	205	25	88	42.93	5.89	\$13,100.00	\$63.90	8632	38	15	8	3440
26 Salisbury	3	628	91	0	3	3.30	14.49	\$10,201.00	\$112.10	6177	68	200	0	264
27 Shaftsbury/Pownal	2	3137	688	12	0	0.00	21.93	\$13,761.00	\$20.00	18240	26	1	1	2364
28 Swanton	2	2689	144	3	105	72.92	5.36	\$5,143.54	\$35.72	5320	36	1	0	0
<b>TOTALS</b>	<b>609</b>	<b>281120</b>	<b>18135</b>	<b>680</b>	<b>1898</b>	<b>10.47</b>	<b>5.19</b>	<b>\$819,032.60</b>	<b>\$71.92</b>	<b>1023047</b>	<b>63</b>	<b>1740</b>	<b>168.1</b>	<b>338763</b>

<sup>1</sup> Includes Underhill.

<sup>2</sup> Includes Upper Valley Lake Sunapee, Corinth, Fairlee, Hartford and some NH wastes.

<sup>3</sup> Includes the town of Mount Holly for 1 collection.

<sup>4</sup> Includes the towns of North Hero and Grand Isle

<sup>5</sup> Includes the following towns; Albany, Barton, Brownington, Burke, Charleston, Coventry, Glover, Greensboro, Irasburg, Jay, Lowell, Newport Town, Newport City, Sutton, Troy, and Westfield.

<sup>6</sup> Burke's first collection was held at the conventry landfill while their second HHW collection was held at the Burke Town Garage.

<sup>7</sup> Includes the towns of Arlington, Dorset, Manchester, Rupert, Sandgate, and Sunderland.

## SUMMARY

The following 2002 HHW/CEG Hazardous Waste Collection Data was tabulated from Solid Waste Districts, Alliances and Municipalities representing 95% of Vermont households. These statewide collections cost approximately \$819,000, served approximately 18,100 participants and collected approximately 511 tons of Hazardous waste, 168 pounds of mercury, 1740 pounds of mercury-added products/debris and 338,000 linear feet of fluorescent lamps. In comparison, 2001 saw 96% of Vermont Households represented, cost approximately \$564,000, served approximately 16300 participants and collected approximately 459 tons of Hazardous Waste, 161 pounds of mercury, 1674 pounds of mercury-added products/debris and 248,000 linear feet of fluorescent lamps. From the two collection years, 2002 and 2001, several conclusions can be drawn and are as follows:

1. Average statewide cost per participant in 2002 was approximately \$71.92. This is a substantial increase from 2001 when the average cost per participant was \$58.05. In addition, the total cost for statewide collections in 2002 was approximately \$254,000 more than 2001 (\$819,032.60 vs. \$564,595.04). This can be attributed to the rising cost of HHW/CEG collection and disposal, as well as the limited numbers of Hazardous Waste contractors available to provide these services. 2002 when compared to 2001 saw an increase in the hazardous waste collected (511 tons vs. 459 tons). As has been noted in past surveys, the larger, fixed year-round hazardous waste facilities tended to have the lowest cost per participant (\$21-\$87) versus seasonal or single day collection events (\$35-\$146).
2. 2002 Statewide participation saw an increase in the total number of participants (18,100 vs. 16,300) in comparison to 2001, and a slight decrease in the average statewide participation (5.19% vs. 5.51%). Of the participants for 2002, 680 were businesses and 1898 were repeat participants (repeat participants accounted for an average of 10% of the total 2002 participants). Fixed facilities, seasonal collections and some single-day collection events had higher than the state average participation rates (5.36%- 21.93%). There are several possible reasons for these higher participation rates that include; well established, advertised and received programs; increased awareness to household hazardous waste and; increased availability of household hazardous waste collection events.
3. The amount of waste collected per participant when compared with 2001 remained about the same (63 pounds vs. 67 pounds). Larger established programs (which have longer collection seasons) tend to have a lower waste generation per participant than single day collection events. Increased education, collection opportunities, convenience and availability may be some of the reasons for increased hazardous waste collection.
4. The number of collection events available statewide remained about the same in 2002 compared to 2001 (609 vs. 608).
5. Approximately 168 pounds of elemental mercury, 1740 pounds of mercury-added products/debris and 338,000 linear feet of fluorescent lamps was collected in 2002. In comparison, 2001 was approximately 161 pounds of mercury, 1674 pounds of mercury-added products/debris and 248,000 linear feet of fluorescent lamps collected. Increased mercury education and awareness programs implemented by many solid waste districts, municipalities and alliances, as well as state sponsored mercury education and awareness campaigns, may contribute to this trend of increasing mercury collections.

Household estimates were derived from the US Census Bureau: *Population, Housing Units, Area and Density: 2000*.

Conversion factors used were 8 pounds per gallon, 400 pounds per 55-gallon drum, Gaylord or pallet and .15 pounds per lineal foot of fluorescent lamps.

This information is a collection of Household Hazardous and Conditionally Exempt Generator (HHW/CEG) Waste surveys completed by various Solid Waste Districts, Alliances and Municipalities throughout the State Of Vermont. Every attempt has been made to provide accurate information on Vermont's Household Hazardous Waste and Conditionally Exempt Generator waste collections. Multi-entity collections and districts that provide collection services for other districts or municipalities have reported their collection numbers only (to help prevent any double counting). Any questions, suggestions or corrections, please feel free to contact , Thomas A. Benoit, Sr at (802) 241-3472 or e-mail at Tombe@dec.anr.state.vt.us.

**May 6, 2002**