

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

A number of clarifications to the presentation of data are being provided to support the Consolidated Municipal Hazardous or Special Waste (MHSW) Program Plan.

Errata # 1

Table 4.7 did not include totals for all columns. Table 4.7 has been revised to include column totals and to correct:

- the addition of the Estimated Available for Collection from 11,143 tonnes to 11,245 tonnes; and
- the calculation of the Estimated Collection Rate for:
 - Antifreeze from 10% to 5%;
 - Fertilizers from 506% to 500%; and
 - Pesticides from 171% to 169%.

Table 4.7: Phase 1 Material Collection as reported by Service Providers through the Material Tracking System (MTS) and Calculated Diversion Performance¹

Material Group	Total Sales into Ontario Market (Tonnes) Source: Stewards' Reports	Estimated Available for Collection ² (Tonnes) Source: Phase 1 assumptions	Reported Collected and Transported (Tonnes) ³ Source: MTS	Estimated Collection Rate ⁴	Reported Processed via MTS (Tonnes) ³ Source: MTS	Estimated Recycling Efficiency Rate ⁶	Estimated Recycling Performance Rate ⁷
Paints & Coatings ⁵	78,478	7,848	2,847	36%	3,401	43%	119%
Solvents	2,862	1,002	1,600	160%	1	0.1%	0%
Oil Filters	8,535	10,823	5,091	47%	2,235	21%	44%
Oil Containers ⁸	2,211	2,211	265	12%	253	11%	95%
Single-Use Dry Cell Batteries	5,231	5,231	246	5%	20	0.4%	8%
Antifreeze ⁸	13,578	12,692	690	5%	92	0.7%	13%
Pressurized Containers - Non-Refillable	440	440	113	26%	56	13%	50%
Pressurized Containers - Refillable	980	294	200	68%	173	59%	87%
Fertilizers	1,245	22	110	500%	0	0%	0%
Pesticides	194	49	83	169%	0	0%	0%
Total	113,754	40,612	11,245	28%	6,231	15%	55%

Table 4.7 Notes:

1. All data are for the period spanning July 2008 (program inception) until the end of March 2009.
2. The "available for collection" quantities were estimated using the assumptions used in the Phase 1 MHSW Program Plan for each material.
3. Waste Management Service Providers report via the Material Tracking System (MTS) administered by Stewardship Ontario. To date, the number of service providers (out of a total of 39 approved transporters and 30 approved processors) reporting for each quarter is: Q3 2008 - 30 transporters, 15 processors; Q4 2008 - 27 transporters, 15 processors; Q1 2009 - 25 transporters, 12 processors

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

4. The collection rate expresses the ratio of MHSW reported collected to that of MHSW estimated to be available for collection. Availability for collection was determined by utilizing steward reported sales into Ontario and applying the Phase I MHSW Program Plan assumptions governing availability for collection figures. Several possible explanations exist for the rates exceeding 100%: a) success of program P&E efforts has encouraged residents to return product stored over the course of several years; b) Phase I Plan assumptions underestimated the availability for collection of the materials; c) the ban on sale of some pesticides and province-wide communications efforts encouraging consumers to return unused materials to MHSW depots; (d) a combination of the above.
5. The recycling rate as a percentage of what is available for collection for paints and coatings exceeds the collection rate due to the fact that paint collected commercially has been reported online as processed, but has yet to be reported online as collected. It is anticipated that this situation will be corrected shortly.
6. The Recycling Efficiency Rate is measured as a percentage of the quantity of material available for collection and expresses the ratio of MHSW processed to that of MHSW assumed to be available for collection
7. The Recycling Performance Rate is measured as a percentage of the quantity of material collected and expresses the ratio of MHSW processed to that of MHSW collected.
8. As antifreeze containers are not handled separately from oil containers during end-of-life management, collected and diverted quantities of antifreeze containers are included under the category of oil containers despite the fact that sales of antifreeze containers are included under category the antifreeze.

Errata # 2

Table 7.1 Common Costs for Year 1 of the Consolidated MHSW Program Plan sets out common costs including the following Phase 1 deficit costs:

Deficit in SO Phase 1 Plan Development Cost Recovery for first 18 months	(\$40,500)
Deficit in WDO Phase 1 Plan Development Cost Recovery for first 18 months	(\$78,800)
Deficit in SO Phase 1 Start-Up Cost Recovery for first 18 months	\$562,800
Deficit in WDO Phase 1 Start-Up Cost Recovery for first 18 months	(\$85,200)

As Phase 1 deficit costs are excluded from the Total Common Costs column of Table 7.6, the Phase 1 deficit costs have been removed from Table 7.1. Phase 1 Cost Reallocation, formerly included in the deficit costs listed above, has been set out separately in the revised Table 7.1 under 5 Program Management item e).

Table 7.1: Common costs for Year 1 of the Consolidated MHSW Program Plan

Cost Category	Budget for Year 1
1. Plan Development	
a. SO Consolidated Plan Development	\$400,000
b. WDO Consolidated Plan Development	\$100,000
c. SO Phase 1 Plan Development Cost Recovery	\$276,000

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Cost Category	Budget for Year 1
2. Start-up	
a. SO Consolidated Start-Up	\$600,000
b. WDO Consolidated Start-Up	\$100,000
c. SO Phase 1 Start-Up Cost Recovery	\$750,500
3. Steward Registration & Compliance Management	\$792,000
4. Material & Supplier Management	
a. Field operations	\$2,753,000
b. Processor audits	\$150,000
c. Vendor standards	\$50,000
5. Program Management	
a. IFO Administration	\$1,402,200
b. Performance tracking systems	\$500,000
c. Material tracking systems	\$280,000
d. WDO Administration	\$650,000
e. Phase 1 Cost Reallocation	\$82,300
6. Shared Promotion and Education	\$3,500,000
Total	\$12,386,100

Errata # 3

As outlined in Section 7.3, the Consolidated MHSW Program Plan includes three types of contingency: Future sales, Amount of material available for collection, and Costs of managing waste.

In Table 7.6 of the July 30, 2009 Consolidated MHSW Program Plan, the column titled 'Contingency' sets out the contingency for two of these three types of contingency, Amount of material available for collection and Costs of managing waste, while the column titled 'Contingency on Sales' sets out the contingency for Future sales.

Table 7.5 includes contingency the 'Amount of material available for collection' plus 'Costs of managing waste' but excludes contingency on 'Future sales'.

Table 7.5 has been modified to include all three types of contingency in the value for the Year 1 budget.

Table 7.5: Year 1 Consolidated MHSW Program Plan Total Aggregated Costs

Cost Category	Budget for Year 1
Material Specific Costs	\$48,934,500
Common Costs	\$12,386,100
Deficit	\$6,713,700
Contingency	\$4,692,100
Total	\$72,726,400

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Errata # 4

Presentation of Table 7.4 has been modified to allow readers to track costs to Table 7.6 by presenting the costs for 'Phase 1 SO Plan Development and Start-up 18-month Fee Recovery' and 'Phase 1 Program Management Costs' in the following sub-categories.

- Re-allocation of Phase 1 costs;
- Deficit Recovery; and
- For Phase 1 SO Plan Development and Start-up costs only, also by Second Year of Amortized Costs.

A rounding error of \$200 in Table 7.4 has also been corrected.

Table 7.4: Phase 1 Cost Recovery by Material Category

Category	Sub-Category	Phase 1 SO Plan Development and Start-up Costs			Phase 1 Program Management Costs		Deficit in Phase 1 Direct Material Costs	Total
		Re-allocation of Phase 1 Costs	Second Year of Amortized Costs	Deficit Recovery	Re-allocation of Phase 1 Costs	Deficit Recovery		
		(A1)	(A2)	(A3)	(B1)	(B2)	(C)	
		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Aerosols		\$20,700	\$34,430	\$0	\$48,330	\$0	\$0	\$103,460
Antifreeze		(\$8,300)	\$35,750	\$25,200	(\$16,460)	\$29,000	\$0	\$65,190
Batteries - Consumer-Type Portable	Single-use	\$6,700	\$45,660	\$17,500	\$13,380	\$20,200	(\$181,700)	(\$78,260)
	Rechargeable	\$29,600	\$49,400	\$0	\$69,330	\$0	\$0	\$148,330
Batteries - Industrial Stationary and Non-Lead Acid Motive		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Category	Sub-Category	Phase 1 SO Plan Development and Start-up Costs			Phase 1 Program Management Costs		Deficit in Phase 1 Direct Material Costs	Total
		Re-allocation of Phase 1 Costs	Second Year of Amortized Costs	Deficit Recovery	Re-allocation of Phase 1 Costs	Deficit Recovery		
		(A1)	(A2)	(A3)	(B1)	(B2)	(C)	
		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Corrosives	Corrosives	\$14,400	\$23,950	\$0	\$33,620	\$0	\$0	\$71,970
	Irritants	\$4,200	\$7,000	\$0	\$9,820	\$0	\$0	\$21,020
Fertilizers	Containing banned pesticides	\$7,300	\$32,700	\$10,400	\$14,600	\$12,000	\$162,600	\$239,600
	Naturally-derived							
	Synthetically-derived							
Fire Extinguishers		\$6,000	\$9,970	\$0	\$14,000	\$0	\$0	\$29,970
Flammables and Solvents	Flammables	\$95,000	\$158,360	\$0	\$222,260	\$0	\$0	\$475,620
	Solvents	(\$27,200)	\$0	\$23,000	(\$54,020)	\$26,500	\$670,000	\$638,280
Fluorescents	User-removed	\$6,200	\$10,360	\$0	\$14,540	\$0	\$0	\$31,100
	WEEE-embedded	\$4,800	\$7,950	\$0	\$11,150	\$0	\$0	\$23,900
Leachates		\$5,700	\$9,560	\$0	\$13,410	\$0	\$0	\$28,670
Mercury devices	Measuring devices	\$1,400	\$2,350	\$0	\$3,300	\$0	\$0	\$7,050
	Mercury Switches - Automotive	\$4,100	\$6,800	\$0	\$9,500	\$0	\$0	\$20,400
	Mercury Switches - White Goods	\$1,800	\$2,950	\$0	\$4,140	\$0	\$0	\$8,890
	Other Mercury Switches	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Thermostats	\$2,800	\$4,610	\$0	\$6,470	\$0	\$0	\$13,880

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Category	Sub-Category	Phase 1 SO Plan Development and Start-up Costs			Phase 1 Program Management Costs		Deficit in Phase 1 Direct Material Costs	Total
		Re-allocation of Phase 1 Costs	Second Year of Amortized Costs	Deficit Recovery	Re-allocation of Phase 1 Costs	Deficit Recovery		
		(A1)	(A2)	(A3)	(B1)	(B2)	(C)	
		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Oil Containers		(\$49,300)	\$49,440	\$67,000	(\$98,110)	\$77,000	\$0	\$46,030
Oil Filters		(\$136,700)	\$167,340	\$201,100	(\$272,030)	\$231,300	\$0	\$191,010
Paint & Coatings		(\$16,200)	\$269,350	\$150,800	(\$32,220)	\$173,400	\$4,610,500	\$5,155,630
Pesticides	Banned products			\$11,600		\$13,300	\$124,600	
	Non-banned products	(\$2,700)	\$18,300		(\$5,300)			\$159,800
Pharmaceuticals		\$17,800	\$29,660	\$0	\$41,620	\$0	\$0	\$89,080
Pressurized Containers	Non-Refillable	(\$6,800)	\$8,280	\$10,000	(\$13,560)	\$11,500	\$178,700	\$188,120
	Refillable	(\$2,200)	\$7,450	\$5,700	(\$4,420)	\$6,500	\$26,000	\$39,030
Reactives		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sharps and Syringes		\$20,900	\$34,880	\$0	\$48,950	\$0	\$0	\$104,730
Toxics		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total		\$0	\$1,026,500	\$522,300	\$82,300	\$600,700	\$5,590,700	\$7,822,500

Note: Re-allocation of Phase 1 Plan Development and Start-up Costs (A1), the Second Year of Amortized Costs for Phase 1 Plan Development and Start-up Costs (A2), and Re-allocation of Phase 1 Program Management Costs (B1) are included in the Total Common Costs column in Table 7.6. Deficit Recovery for Phase 1 Plan Development and Start-up Costs (A3), Deficit Recovery for Phase 1 Program Management Costs for Phase 1 Materials (B2) and Deficits in Phase 1 Direct Material Costs (C) total to the Deficit Recovery column in Table 7.6.

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Errata # 5

Table 7.7 under Consolidated Plan Fee Rate, the \$/Kg column is missing lines to differentiate rows for Batteries – Consumer-type Portable. Lines have been added in the rows excerpted from the Table 7.7 below for clarity.

Material Category	Sub-category	Fee Category	Total Cost (Including contingency on sales)(\$)	Supplied for Use	Consolidated Plan Fee Rate					
					\$/Unit	\$/Kg	\$/L	\$/steward	\$/location	
Batteries - Consumer-Type Portable	Single-use	Alkaline, Manganese (AlMn) - Single-Use, Alkaline (Al) - Rechargeable. Silver Oxide (Ag2O)	\$2,690,100	4,689,000 kg						
		Zinc Carbon (ZnC) and Zinc Air (ZnAir) - Single-Use		1,873,000 kg						
		Lithium Metal (Li) - Single-Use	\$129,200	177,000 kg						\$0.41
	Rechargeable	Lithium Ion (Li-Ion) and Lithium Polymer (Li Polymer) - Rechargeable	\$2,748,600	51,000 kg						
		Nickel-Metal Hydride (NiMH) - Rechargeable		271,000 kg						
		Nickel Cadmium (NiCd) - Rechargeable		1,430,000 kg						
		Small Sealed Lead Acid (SSLA / Pb) - Rechargeable	\$916,200	149,000 kg	\$1.57	\$6.15				

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

Errata # 6

Appendix A - Municipal Hazardous or Special Materials Definitions of Schedule A: Rules for Stewards with Respect to Payment of Fees respecting MHSM of the Program Agreement between Waste Diversion Ontario and Stewardship Ontario set out in Volumen 1 Section 10 includes a definition of Pharmaceuticals and examples of exclusions. Part (f) of the definition references “paragraphs (h) and (j) of this definition”. This reference is unclear as the exclusions list uses an alphabetical order starting with (a). The exclusions list should have continued as paragraphs (h), (i) and (j). The corrected alphabetical order is shown below.

Pharmaceuticals	
Inclusions	Exclusions
<p>“pharmaceuticals” means all drugs, as defined in section 2 of the <i>Food and Drugs Act (Canada)</i>, without regard to paragraph (c) of that definition and “Natural Health Products”, as defined in section 1 of the <i>Natural Health Products Regulations(Canada)</i>, and, for greater certainty, includes:</p> <ul style="list-style-type: none"> (a) Drugs used or intended for use in both human and animals; (b) Prescription drugs as set out in Schedule F or the <i>Food and Drug Regulations (Canada)</i> (c) Biological drugs and radiopharmaceuticals as set out in Schedules C and D of the <i>Food and Drugs Act (Canada)</i>; (d) Controlled substances, as defined in section 2 to the <i>Controlled Drugs and Substances Act (Canada)</i> and controlled and restricted drugs as defined in Schedules G and J of the <i>Food and Drug Regulations (Canada)</i>; (e) Narcotics, as defined in section 2 to the 	<ul style="list-style-type: none"> (h)“Food”, as defined under section 2 of the <i>Food and Drugs Act(Canada)</i>, and non-prescription drug products in food format and Natural Health Products in food format, including probiotics sold in food format, that are primarily sold and marketed as a food; (i) Non-orally ingested non-prescription drugs and Natural Health Products including non-prescription topical creams but not those listed in paragraph (g) of this definition; and (j) Orally ingested non-prescription drug and Natural Health Product drops, lozenges and chewing gum, such as for coughs, sore throats or halitosis.

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

<p><i>Narcotic Control Regulations (Canada);</i> (f) Non-prescription orally ingested drugs and orally ingested Natural Health Products but not those listed in paragraphs (h) and (j) of this definition; and (g) Non-prescription topical antibiotic and anti-fungal creams</p>	
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Volume 2 Section 17.1 also provides the same definition of Pharmaceuticals including the reference to “paragraphs (h) and (j) of this definition”. In Section 17.1, the reference is unclear as the definition and exclusions are presented as a list of bullets. The definition and the exclusions should have been presented as a continuous alphabetical list as shown below.

Pharmaceuticals means all drugs, as defined in section 2 of the *Food and Drugs Act (Canada)*, without regard to paragraph (c) of that definition and “Natural Health Products”, as defined in section 1 of the *Natural Health Products Regulations (Canada)*, and, for greater certainty, includes:

- a) Drugs used or intended for use in both human and animals;
- b) Prescription drugs as set out in Schedule F or the *Food and Drug Regulations (Canada)*
- c) Biological drugs and radiopharmaceuticals as set out in Schedules C and D of the *Food and Drugs Act (Canada)*;
- d) Controlled substances, as defined in section 2 to the *Controlled Drugs and Substances Act (Canada)* and controlled and restricted drugs as defined in Schedules G and J of the *Food and Drug Regulations (Canada)*;
- e) Narcotics, as defined in section 2 to the *Narcotic Control Regulations (Canada)*;
- f) Non-prescription orally ingested drugs and orally ingested Natural Health Products but not those listed in paragraphs (h) and (j) of this definition; and
- g) Non-prescription topical antibiotic and anti-fungal creams,

But excludes:

- h) “Food”, as defined under section 2 of the *Food and Drugs Act(Canada)*, and non-prescription drug products in food format and Natural Health Products in food format, including probiotics sold in food format, that are primarily sold and marketed as a food;
- i) Non-orally ingested non-prescription drugs and Natural Health Products including non-prescription topical creams but not those listed in paragraph (g) of this definition; and

Consolidated Municipal Hazardous or Special Waste Program Plan Errata

- j) Orally ingested non-prescription drug and Natural Health Product drops, lozenges and chewing gum, such as for coughs, sore throats or halitosis.