



February 27, 2023

Alberta Environment and Protected Areas
Monitoring Branch
11th Floor Oxbridge Place
9820 106 ST
Edmonton, AB T5K 2J6

To Whom It May Concern;

Re: Clean Harbors Canada, Inc. 2023 Annual Waste Management Summary
Approval 10348-03-01

Enclosed is the 2023 Annual Waste Management Summary as required by Sections 4.6.30 and 4.6.31 of the above approval.

The summary is broken into two parts. The first part contains the summary of all waste received at the facility which was destined for recycle or disposal at facilities other than Clean Harbors Ryley and the waste which was received on-site but not yet shipped on December 31, 2023. The second part contains the summary of all waste received at Ryley which was landfilled at the site. This is further broken down into non-hazardous waste and hazardous waste landfilled.

Yours truly,
Clean Harbors Canada, Inc.

A handwritten signature in blue ink that reads "Stan Yuha". The signature is written in a cursive, flowing style.

Stan Yuha
General Manager

CLEAN HARBORS CANADA, INC.

ANNUAL WASTE MANAGEMENT SUMMARY

PART 1

WASTE SHIPPED - 2023

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WASTE ON-SITE – DECEMBER 31, 2023

Hazardous Recyclable or Waste Name	Uniform Waste Code				Quantity (kg/L)		Recycled Off-site	Disposal Off-site
	PIN	Class	Waste Code	Management Code	Hazardous (kg/L)	Non-hazardous (kg/L)		
Acid solutions, sludges and residues containing heavy metals	UN1479	5.1	H112	D9	658			Stablex Canada - Blainville, QC
Acid solutions, sludges and residues containing heavy metals	UN1755	8	H112	D10	2458			Clean Harbors - El Dorado, AK
Acid solutions, sludges and residues containing heavy metals	UN1760	8	H112	D10	611			Clean Harbors - Aragonite, UT
Acid solutions, sludges and residues containing heavy metals	UN1789	8	H112	D10	76			Clean Harbors - Aragonite, UT
Acid solutions, sludges and residues containing heavy metals	UN1830	8	H112	D10	1069			Clean Harbors - El Dorado, AK
Acid solutions, sludges and residues containing heavy metals	UN1832	8	H112	D10	78			Clean Harbors - El Dorado, AK
Acid solutions, sludges and residues containing heavy metals	UN3085	5.1	H112	D9	200			Stablex Canada - Blainville, QC
Acid solutions, sludges and residues containing heavy metals	UN3139	5.1	H112	D9	3217			Stablex Canada - Blainville, QC
Acid solutions, sludges and residues containing heavy metals	UN3264	8	H112	D10	1925			Clean Harbors - Aragonite, UT
Acid solutions, sludges and residues containing heavy metals	UN3264	8	H112	D9	1069			Stablex Canada - Blainville, QC
Acid solutions, sludges and residues containing heavy metals	UN3265	8	H112	D10	182			Clean Harbors - El Dorado, AK
Acid solutions, sludges and residues containing heavy metals	UN3266	8	H112	D9	3			Stablex Canada - Blainville, QC
Acid soln, sludge & residue with metals & non-metals	UN1760	8	H113	D10	4			Clean Harbors - El Dorado, AK
Acid soln, sludge & residue with metals & non-metals	UN1789	8	H113	D10	624			Clean Harbors - Aragonite, UT
Acid soln, sludge & residue with metals & non-metals	UN1830	8	H113	D9	223			Stablex Canada - Blainville, QC
Acid soln, sludge & residue with metals & non-metals	UN1832	8	H113	D10	2917			Clean Harbors - Aragonite, UT
Acid soln, sludge & residue with metals & non-metals	UN3093	8	H113	D10	65			Clean Harbors - Aragonite, UT
Acid soln, sludge & residue with metals & non-metals	UN3264	8	H113	D10	146			Clean Harbors - Aragonite, UT
Acid soln, sludge & residue with metals & non-metals	UN3264	8	H113	D10	193			Clean Harbors - El Dorado, AK
Acid soln, sludge & residue with metals & non-metals	UN3264	8	H113	D9	61			Stablex Canada - Blainville, QC
Other inorganic acid wastes	UN1789	8	H114	D10	140			Clean Harbors - El Dorado, AK
Other inorganic acid wastes	UN1832	8	H114	D10	410			Clean Harbors - Aragonite, UT
Other inorganic acid wastes	UN3098	5.1	H114	D10	410			Clean Harbors - El Dorado, AK
Other inorganic acid wastes	UN3264	8	H114	D10	192			Clean Harbors - Aragonite, UT
Other inorganic acid wastes	UN3266	8	H114	D10	5			Clean Harbors - Aragonite, UT
Alkaline solutions, sludges and residues containing heavy metals	UN1760	8	H121	D10	276			Clean Harbors - El Dorado, AK
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN1760	8	H122	D10	1706			Clean Harbors - Aragonite, UT
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN1760	8	H122	D10	1586			Clean Harbors - El Dorado, AK
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN1791	8	H122	D10	392			Clean Harbors - El Dorado, AK
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN1824	8	H122	D10	3310			Clean Harbors - Aragonite, UT
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN3266	8	H122	D10	910			Clean Harbors - Aragonite, UT
Alkaline solutions, sludges and reslues containing other metals and non-metals not containing cyanides	UN3266	8	H122	D10	180			Clean Harbors - El Dorado, AK
Waste containing sulphides	UN1131	3	H134	D10	28			Clean Harbors - El Dorado, AK
Waste containing sulphides	UN2811	6.1	H134	D10	137			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN1479	5.1	H135	D10	1328			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN1493	5.1	H135	D10	28			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN1498	5.1	H135	D10	211			Clean Harbors - Aragonite, UT
Wastes containing other reactive anions	UN1791	8	H135	D10	64			Clean Harbors - Aragonite, UT
Wastes containing other reactive anions	UN1791	8	H135	D10	1072			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN1942	5.1	H135	D10	169			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN1993	3	H135	D10	205			Clean Harbors - Corunna, ON
Wastes containing other reactive anions	UN3085	5.1	H135	D10	15			Clean Harbors - El Dorado, AK
Wastes containing other reactive anions	UN3093	8	H135	D10	104			Clean Harbors - Aragonite, UT
Wastes containing other reactive anions	UN3266	8	H135	D10	68			Clean Harbors - Aragonite, UT
Inorganic oxidizing sales used as heat exchange medium	UN1479	5.1	H137	D10	1476			Clean Harbors - El Dorado, AK
Inorganic oxidizing sales used as heat exchange medium	UN1942	5.1	H137	D10	1706			Clean Harbors - El Dorado, AK
Inorganic oxidizing sales used as heat exchange medium	UN3084	8	H137	D10	374			Clean Harbors - Aragonite, UT
Produced water and similar brines	UN3262	8	H138	D9	6052			Stablex Canada - Blainville, QC
Waste from the use of paints, pigments & coatings	NR	NR	H145	D10	230			Clean Harbors - Kimball, NE
Waste from the use of paints, pigments & coatings	NR	NR	H145	D5	5420			Clean Harbors - Corunna, ON (LB)
Waste from the use of paints, pigments & coatings	NR	NR	H145	R4	40		Raw Materials - Port Colborne, ON	
Waste from the use of paints, pigments & coatings	UN1210	3	H145	D10	1307			Clean Harbors - Aragonite, UT
Waste from the use of paints, pigments & coatings	UN1210	3	H145	D10	322			Clean Harbors - El Dorado, AK
Waste from the use of paints, pigments & coatings	UN1210	3	H145	D10	1004			Clean Harbors - Kimball, NE
Waste from the use of paints, pigments & coatings	UN1263	3	H145	D10	10457			Clean Harbors - Aragonite, UT
Waste from the use of paints, pigments & coatings	UN1263	3	H145	D10	4772			Clean Harbors - El Dorado, AK

Hazardous Recyclable or Waste Name	Uniform Waste Code				Quantity (kg/L)		Recycled Off-site	Disposal Off-site
	PIN	Class	Waste Code	Management Code	Hazardous (kg/L)	Non-hazardous (kg/L)		
Waste from the use of paints, pigments & coatings	UN1263	3	H145	D10	47102			Clean Harbors - Kimball, NE
Waste from the use of paints, pigments & coatings	UN1263	3	H145	D15	7394			Clean Harbors - Red Deer, AB
Waste from the use of paints, pigments & coatings	UN1950	2.1	H145	R4	37390		Clean Harbors - Red Deer, AB	
Waste from the use of paints, pigments & coatings	UN1992	3	H145	D10	423			Clean Harbors - Kimball, NE
Waste from the use of paints, pigments & coatings	UN3077	9	H145	D10	221			Clean Harbors - Aragonite, UT
Waste from the use of paints, pigments & coatings	UN3077	9	H145	D10	164			Clean Harbors - El Dorado, AK
Waste from the use of paints, pigments & coatings	UN3077	9	H145	D10	1472			Clean Harbors - Kimball, NE
Waste from the use of paints, pigments & coatings	UN3175	4.1	H145	D10	358			Clean Harbors - Aragonite, UT
Other specified inorganic sludges, slurries or solids	NR	NR	H146	D5	4380			Clean Harbors - Corunna, ON (LB)
Other specified inorganic sludges, slurries or solids	NR	NR	H146	D9	1432			Miller Environmental - St. Jean Baptiste, MB
Other specified inorganic sludges, slurries or solids	NR	NR	H146	R4	125		Raw Materials - Port Colborne, ON	
Other specified inorganic sludges, slurries or solids	UN1479	5.1	H146	D10	28			Clean Harbors - El Dorado, AK
Other specified inorganic sludges, slurries or solids	UN1760	8	H146	D10	2991			Clean Harbors - Aragonite, UT
Other specified inorganic sludges, slurries or solids	UN3077	9	H146	D10	372			Clean Harbors - Aragonite, UT
Other specified inorganic sludges, slurries or solids	UN3260	8	H146	D9	6606			Miller Environmental - St. Jean Baptiste, MB
Other specified inorganic sludges, slurries or solids	UN3264	8	H146	D9	1029			Miller Environmental - St. Jean Baptiste, MB
Other specified inorganic sludges, slurries or solids	UN3266	8	H146	D10	978			Clean Harbors - Aragonite, UT
Other specified inorganic sludges, slurries or solids	UN3506	8	H146	R4	53		Raw Materials - Port Colborne, ON	
Miscellaneous waste inorganic chemicals	NR	NR	H148	D10	689			Clean Harbors - Corunna, ON
Miscellaneous waste inorganic chemicals	NR	NR	H148	D15	21120			Clean Harbors - Delta, BC
Miscellaneous waste inorganic chemicals	UN1760	8	H148	D10	1808			Clean Harbors - El Dorado, AK
Miscellaneous waste inorganic chemicals	UN2809	8	H148	R4	63		Raw Materials - Port Colborne, ON	
Miscellaneous waste inorganic chemicals	UN3264	8	H148	R11	3202		Clean Harbors - Guelph, ON	
Miscellaneous waste inorganic chemicals	UN3264	8	H148	R4	3		Raw Materials - Port Colborne, ON	
Miscellaneous waste inorganic chemicals	UN3287	6.1	H148	D10	14			Clean Harbors - El Dorado, AK
Miscellaneous waste inorganic chemicals	UN3506	8	H148	R4	147		Raw Materials - Port Colborne, ON	
Batteries	UN2794	8	H151	R4	3774		Raw Materials - Port Colborne, ON	
Batteries	UN2795	8	H151	R4	2487		Raw Materials - Port Colborne, ON	
Batteries	UN2800	8	H151	R4	1604		Raw Materials - Port Colborne, ON	
Batteries	UN3028	8	H151	R4	4832		Raw Materials - Port Colborne, ON	
Batteries	UN3077	9	H151	R4	2		Raw Materials - Port Colborne, ON	
Batteries	UN3090	9	H151	R4	14		Aevitas - Edmonton, AB	
Batteries	UN3496	9	H151	R4	154		Raw Materials - Port Colborne, ON	
Spent catalysts	NR	NR	H153	R4	6233		Raw Materials - Port Colborne, ON	
Spent catalysts	UN3077	9	H153	R4	35		Raw Materials - Port Colborne, ON	
Spent catalysts	UN3190	4.2	H153	D10	564			Clean Harbors - Aragonite, UT
Aromatic solvents and residues	UN1263	3	H211	D10	1472			Clean Harbors - Aragonite, UT
Aromatic solvents and residues	UN1263	3	H211	D10	509			Clean Harbors - El Dorado, AK
Aromatic solvents and residues	UN1263	3	H211	D10	2164			Clean Harbors - Kimball, NE
Aromatic solvents and residues	UN1307	3	H211	D10	4473			Clean Harbors - Kimball, NE
Aromatic solvents and residues	UN1992	3	H211	D10	1493			Clean Harbors - Aragonite, UT
Aromatic solvents and residues	UN1992	3	H211	D10	134			Clean Harbors - El Dorado, AK
Aromatic solvents and residues	UN1992	3	H211	D10	1792			Clean Harbors - Kimball, NE
Aromatic solvents and residues	UN1993	3	H211	D10	9826			Clean Harbors - Aragonite, UT
Aromatic solvents and residues	UN1993	3	H211	D10	112			Clean Harbors - El Dorado, AK
Aliphatic solvents & residues	UN1193	3	H212	D10	2135			Clean Harbors - Kimball, NE
Aliphatic solvents & residues	UN1230	3	H212	D10	1000			Clean Harbors - Corunna, ON
Aliphatic solvents & residues	UN1268	3	H212	D10	809			Clean Harbors - Kimball, NE
Aliphatic solvents & residues	UN1993	3	H212	D10	630			Clean Harbors - Aragonite, UT
Aliphatic solvents & residues	UN1993	3	H212	D10	216			Clean Harbors - El Dorado, AK
Aliphatic solvents & residues	UN1993	3	H212	D10	196			Clean Harbors - Kimball, NE
Aliphatic solvents & residues	UN2924	3	H212	D10	1059			Clean Harbors - Aragonite, UT
Aliphatic solvents & residues	UN2924	3	H212	D10	37			Clean Harbors - El Dorado, AK
Aliphatic solvents & residues	UN3175	4.1	H212	D10	137			Clean Harbors - El Dorado, AK
Petroleum distillates	UN1307	3	H213	D10	31			Clean Harbors - Kimball, NE
Petroleum distillates	UN1993	3	H213	D10	1282			Clean Harbors - Aragonite, UT
Petroleum distillates	UN1993	3	H213	D10	113540			Clean Harbors - Corunna, ON
Petroleum distillates	UN1993	3	H213	D10	2364			Clean Harbors - Kimball, NE
Petroleum distillates	UN1993	3	H213	D15	163980			Clean Harbors - Delta, BC

Hazardous Recyclable or Waste Name	Uniform Waste Code				Quantity (kg/L)		Recycled Off-site	Disposal Off-site
	PIN	Class	Waste Code	Management Code	Hazardous (kg/L)	Non-hazardous (kg/L)		
Petroleum distillates	UN2810	6.1	H213	D10	88		Clean Harbors - Aragonite, UT	
Light fuels	UN1203	3	H221	D10	79		Clean Harbors - Kimball, NE	
Light fuels	UN2930	6.1	H221	D10	409		Clean Harbors - Aragonite, UT	
Other polymeric waste	UN3175	4.1	H233	D10	610		Clean Harbors - Aragonite, UT	
Other polymeric waste	UN3175	4.1	H233	D10	148		Clean Harbors - El Dorado, AK	
Halogenated solvents and residues	NR	NR	H241	D10	19439		Clean Harbors - Kimball, NE	
Halogenated solvents and residues	UN1992	3	H241	D10	214		Clean Harbors - Aragonite, UT	
Halogenated solvents and residues	UN1992	3	H241	D10	3023		Clean Harbors - Kimball, NE	
Halogenated solvents and residues	UN1992	3	H241	D15	2379		Clean Harbors - Delta, BC	
Halogenated solvents and residues	UN2810	6.1	H241	D10	50		Clean Harbors - El Dorado, AK	
Halogenated solvents and residues	UN2922	8	H241	D10	227		Clean Harbors - El Dorado, AK	
Halogenated solvents and residues	UN3082	9	H241	D10	2019		Clean Harbors - Aragonite, UT	
Polychlorinated biphenyls	UN2315	9	H243	D10	286		Veolia Waste Services - Swan Hills, AB	
Waste crankcase oils & lubricants	NR	NR	H252	D10	1000		Clean Harbors - Corunna, ON	
Waste crankcase oils & lubricants	UN1267	3	H252	D10	161		Clean Harbors - Kimball, NE	
Waste crankcase oils & lubricants	UN3082	9	H252	D10	2353		Clean Harbors - Kimball, NE	
Miscellaneous waste organic chemicals	NR	NR	H263	D15	173720		Clean Harbors - Delta, BC	
Miscellaneous waste organic chemicals	UN1307	3	H263	D10	125		Clean Harbors - Kimball, NE	
Miscellaneous waste organic chemicals	UN1325	4.1	H263	D10	5		Clean Harbors - Aragonite, UT	
Miscellaneous waste organic chemicals	UN1992	3	H263	D10	7		Clean Harbors - Aragonite, UT	
Miscellaneous waste organic chemicals	UN1992	3	H263	D10	364		Clean Harbors - El Dorado, AK	
Miscellaneous waste organic chemicals	UN1993	3	H263	D10	77		Clean Harbors - Kimball, NE	
Miscellaneous waste organic chemicals	UN2232	6.1	H263	D10	24		Clean Harbors - El Dorado, AK	
Miscellaneous waste organic chemicals	UN2363	3	H263	D10	114		Clean Harbors - El Dorado, AK	
Miscellaneous waste organic chemicals	UN2810	6.1	H263	D10	139		Clean Harbors - Aragonite, UT	
Miscellaneous waste organic chemicals	UN2810	6.1	H263	D10	8137		Clean Harbors - Kimball, NE	
Miscellaneous waste organic chemicals	UN2922	8	H263	D10	230		Clean Harbors - Aragonite, UT	
Miscellaneous waste organic chemicals	UN2924	3	H263	D10	216		Clean Harbors - Aragonite, UT	
Miscellaneous waste organic chemicals	UN3082	9	H263	D10	454		Clean Harbors - El Dorado, AK	
Miscellaneous waste organic chemicals	UN3267	8	H263	D10	454		Clean Harbors - El Dorado, AK	
Miscellaneous waste organic chemicals	UN3394	4.2	H263	D10	2569		Clean Harbors - La Porte, TX	
Graphic arts wastes	UN1133	3	H265	D15	14		Clean Harbors - Red Deer, AB	
Organic acids	UN2789	8	H267	D10	1010		Clean Harbors - El Dorado, AK	
Organic acids	UN2920	8	H267	D10	26		Clean Harbors - Aragonite, UT	
Organic acids	UN2920	8	H267	D10	22		Clean Harbors - El Dorado, AK	
Organic acids	UN2924	3	H267	D10	87		Clean Harbors - El Dorado, AK	
Organic acids	UN3287	6.1	H267	D10	15		Clean Harbors - El Dorado, AK	
Amines	UN1760	8	H268	D10	2153		Clean Harbors - Aragonite, UT	
Amines	UN2734	8	H268	D10	1646		Clean Harbors - Aragonite, UT	
Amines	UN2734	8	H268	D10	760		Clean Harbors - El Dorado, AK	
Amines	UN2735	8	H268	D10	1547		Clean Harbors - Aragonite, UT	
Amines	UN2735	8	H268	D10	114		Clean Harbors - El Dorado, AK	
Amines	UN2920	8	H268	D10	146		Clean Harbors - Aragonite, UT	
Amines	UN2922	8	H268	D10	20140		Clean Harbors - Corunna, ON	
Amines	UN2922	8	H268	D10	10		Clean Harbors - El Dorado, AK	
Organic non-halogenated pesticides & herbicide waste	UN2902	6.1	H269	D10	226		Clean Harbors - Aragonite, UT	
Other specified organic sludges, slurries and solids	NR	NR	H270	D3	11690		Sellers Oilfield - Calmar, AB	
Other specified organic sludges, slurries and solids	UN1993	3	H270	D10	78		Clean Harbors - Kimball, NE	
Other specified organic sludges, slurries and solids	UN3175	4.1	H270	D10	1262		Clean Harbors - Aragonite, UT	
Other specified organic sludges, slurries and solids	UN3175	4.1	H270	D10	840		Clean Harbors - El Dorado, AK	
Sorbent materials	UN3175	4.1	H274	D10	516		Clean Harbors - Aragonite, UT	
Contaminated debris & soil from spills, accidents & leaks	UN3077	9	H275	D10	2502		Clean Harbors - Aragonite, UT	
Contaminated debris & soil from spills, accidents & leaks	UN3175	4.1	H275	D10	33		Clean Harbors - Aragonite, UT	
Waste compressed gases, including cylinders	NR	2.1	H331	R4	200		Clean Harbors - Red Deer, AB	
Waste compressed gases, including cylinders	NR	2.1	H331	R4	2		Raw Materials - Port Colborne, ON	
Waste compressed gases, including cylinders	UN1002	2.2	H331	R4	40		Propane Busters - Calgary, AB	
Waste compressed gases, including cylinders	UN1011	2.1	H331	R13	10		Recycle Systems - Nisku, AB	
Waste compressed gases, including cylinders	UN1028	2.2	H331	R13	36		Recycle Systems - Nisku, AB	
Waste compressed gases, including cylinders	UN1044	2.2	H331	R4	4506		Propane Busters - Calgary, AB	
Waste compressed gases, including cylinders	UN1046	2.2	H331	R4	5		Propane Busters - Calgary, AB	
Waste compressed gases, including cylinders	UN1066	2.2	H331	R4	300		Propane Busters - Calgary, AB	

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Store On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Acid solutions, sludges and residues containing heavy metals	NR	NR	H112		1205		Clean Harbors, Ryley
Acid solutions, sludges and residues containing heavy metals	UN1789	8	H112		5		Clean Harbors, Ryley
Acid solutions, sludges and residues containing heavy metals	UN1830	8	H112		8896		Clean Harbors, Ryley
Acid soln, sludge & residue with metals & non-metals	UN1830	8	H113		1761		Clean Harbors, Ryley
Acid soln, sludge & residue with metals & non-metals	UN3264	8	H113		25		Clean Harbors, Ryley
Wastes containing other reactive anions	NR	NR	H135		205		Clean Harbors, Ryley
Wastes containing other reactive anions	UN1791	8	H135		60		Clean Harbors, Ryley
Inorganic oxidizing sales used as heat exchange medium	UN1479	5.1	H137		22253		Clean Harbors, Ryley
Residues from steel making	UN3262	8	H143		21530		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN1210	3	H145		140		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN1263	3	H145		933		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN1993	3	H145		410		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	NR	NR	H146		1771		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1469	5.1	H148		2061		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1755	8	H148		3		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1789	8	H148		5		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1942	5.1	H148		169		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN2809	8	H148		3		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN3290	6.1	H148		2456		Clean Harbors, Ryley
Batteries	UN2794	8	H151		502		Clean Harbors, Ryley
Batteries	UN2795	8	H151		8		Clean Harbors, Ryley
Batteries	UN3028	8	H151		679		Clean Harbors, Ryley
Spent catalysts	NR	NR	H153		18		Clean Harbors, Ryley
Spent catalysts	UN3190	4.2	H153		1025		Clean Harbors, Ryley
Aromatic solvents and residues	UN1263	3	H211		2792		Clean Harbors, Ryley
Aromatic solvents and residues	UN1993	3	H211		205		Clean Harbors, Ryley
Aliphatic solvents & residues	UN1993	3	H212		5945		Clean Harbors, Ryley
Petroleum distillates	NR	NR	H213		205		Clean Harbors, Ryley
Petroleum distillates	UN1993	3	H213		820		Clean Harbors, Ryley
Light fuels	NR	NR	H221		3600		Clean Harbors, Ryley
Light fuels	UN1202	3	H221		1615		Clean Harbors, Ryley
Light fuels	UN1993	3	H221		615		Clean Harbors, Ryley
Waste crankcase oils & lubricants	NR	NR	H252		410		Clean Harbors, Ryley
Detergents & soaps	NR	NR	H262		1205		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	NR	NR	H263		205		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN2920	8	H263		5		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN3082	9	H263		205		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN3267	8	H263		205		Clean Harbors, Ryley
Organic acids	UN1830	8	H267		61		Clean Harbors, Ryley
Other specified organic sludges, slurries and solids	UN3190	4.2	H270		868		Clean Harbors, Ryley
Waste compressed gases, including cylinders	UN1950	2.1	H331		57		Clean Harbors, Ryley
Wastes containing other reactive anions	Waste	NR	N135			326	Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	NR	NR	N145			205	Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	NR	NR	N146			414	Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	NR	NR	N148			9535	Clean Harbors, Ryley
Inert inorganic waste	NR	NR	N150			39444	Clean Harbors, Ryley
Empty packages, bags, containers	NR	NR	N152			4514	Clean Harbors, Ryley
Spent catalysts	NR	NR	N153			131	Clean Harbors, Ryley
Polymeric resins	NR	NR	N232			205	Clean Harbors, Ryley
Other polymeric waste	NR	NR	N233			1000	Clean Harbors, Ryley
Halogenated pesticides & herbicides	NR	NR	N241			130	Clean Harbors, Ryley
Waste crankcase oils & lubricants	NR	NR	N252			11918	Clean Harbors, Ryley

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Store On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Oily waste/waste oil from waste transfer/processing sites	NR	NR	N254			1025	Clean Harbors, Ryley
Detergents & soaps	NR	NR	N262			1615	Clean Harbors, Ryley
Miscellaneous waste organic chemicals	NR	NR	N263			38419	Clean Harbors, Ryley
Graphic arts wastes	NR	NR	N265			4000	Clean Harbors, Ryley
Activated carbon	NR	NR	N271			7770	Clean Harbors, Ryley
Glycol solutions	NR	NR	N273			8175	Clean Harbors, Ryley
Sorbent materials	NR	NR	N274			2500	Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	NR	NR	N275			7320	Clean Harbors, Ryley
				TOTAL		85141	138646

CLEAN HARBORS CANADA, INC.

ANNUAL WASTE MANAGEMENT SUMMARY

PART 2

NON-HAZARDOUS WASTE LANDFILLED

&

HAZARDOUS WASTE LANDFILLED

2023

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Disposed On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Acid soln, sludge & residues with metal & non-metal	NR	NR	N113	D5		21650	Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	NR	NR	N122	D5		33480	Clean Harbors, Ryley
Neutralized soln, sludges & residues & other metals	NR	NR	N132	D5		24350	Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	NR	NR	N138	D5		9122562	Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	NR	NR	N145	D5		153790	Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	NR	NR	N146	D5		4156787	Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN2212	9	N146	D5		125	Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN2590	9	N146	D5		279	Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	NR	NR	N148	D5		38831	Clean Harbors, Ryley
Inert inorganic waste	NR	NR	N150	D5		11799437	Clean Harbors, Ryley
Inert inorganic waste	UN2212	9	N150	D5		33770	Clean Harbors, Ryley
Inert inorganic waste	UN2590	9	N150	D5		72218	Clean Harbors, Ryley
Batteries	NR	NR	N151	D5		4596	Clean Harbors, Ryley
Empty packages, bags, containers	NR	NR	N152	D5		912227	Clean Harbors, Ryley
Spent catalysts	NR	NR	N153	D5		1163041	Clean Harbors, Ryley
Desiccants - Silica gel, activated alumina & molecular sieves	NR	NR	N154	D5		55510	Clean Harbors, Ryley
Petroleum distillates	NR	NR	N213	D5		410	Clean Harbors, Ryley
Polymeric resins	NR	NR	N232	D5		137566	Clean Harbors, Ryley
Other polymeric waste	NR	NR	N233	D5		143320	Clean Harbors, Ryley
Halogenated pesticides & herbicides	NR	NR	N242	D5		1900	Clean Harbors, Ryley
Waste oils/sludges (petroleum based)	NR	NR	N251	D5		3500	Clean Harbors, Ryley
Waste crankcase oils & lubricants	NR	NR	N252	D5		700042	Clean Harbors, Ryley
Oily water waste oil from waste transfer/processing sites	NR	NR	N254	D5		27580	Clean Harbors, Ryley
Water filters	NR	NR	N257	D5		48250	Clean Harbors, Ryley
Detergents & soaps	NR	NR	N262	D5		7325	Clean Harbors, Ryley
Miscellaneous waste organic chemicals	NR	NR	N263	D5		3864712	Clean Harbors, Ryley
Graphic arts wastes	NR	NR	N265	D5		6228	Clean Harbors, Ryley
Phenolic waste streams	NR	NR	N266	D5		72380	Clean Harbors, Ryley
Organic acids	NR	NR	N267	D5		47589	Clean Harbors, Ryley
Amines	NR	NR	N268	D5		314	Clean Harbors, Ryley
Other specified organic sludges, slurries and solids	NR	NR	N270	D5		2432012	Clean Harbors, Ryley
Activated carbon	NR	NR	N271	D5		13414440	Clean Harbors, Ryley
Drilling muds including fresh water gel bentonite, salt	NR	NR	N272	D5		10445	Clean Harbors, Ryley
Glycol solutions	NR	NR	N273	D5		7405	Clean Harbors, Ryley
Sorbent materials	NR	NR	N274	D5		595940	Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	NR	NR	N275	D5		15918580	Clean Harbors, Ryley
Sludges from oil & gas operations	NR	NR	N276	D5		240380	Clean Harbors, Ryley
Total Non-Hazardous Waste Landfilled (kg)						65272971	

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Disposed On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Acid solutions, sludges and residues containing heavy metals	UN1759	8	H112	D5	205		Clean Harbors, Ryley
Acid solutions, sludges and residues containing heavy metals	UN3244	8	H112	D5	114		Clean Harbors, Ryley
Acid solutions, sludges and residues containing heavy metals	UN3260	8	H112	D5	6640		Clean Harbors, Ryley
Other inorganic acid wastes	UN3260	8	H114	D5	330		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN1759	8	H122	D5	3538		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN1760	8	H122	D5	410		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN1823	8	H122	D5	200		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN3190	4.2	H122	D5	3690		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN3262	8	H122	D5	1200		Clean Harbors, Ryley
Alk. Soln sludge/residue - metals, non-metals, no cyanide	UN3266	8	H122	D5	6276		Clean Harbors, Ryley
Neutralized solutions, sludges, residues with heavy metals	NR	NR	H131	D5	480250		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	NR	NR	H138	D5	2824220		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	UN1759	8	H138	D5	250		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	UN3175	4.1	H138	D5	143980		Clean Harbors, Ryley
Residues from steel making	NR	NR	H143	D5	5273920		Clean Harbors, Ryley
Residues from steel making	UN3262	8	H143	D5	1004374		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	NR	NR	H145	D5	11524240		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN1210	3	H145	D5	410		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN1263	3	H145	D5	2290		Clean Harbors, Ryley
Waste from the use of paints, pigments & coatings	UN3175	4.1	H145	D5	298198		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	NR	NR	H146	D5	1347169		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN1759	8	H146	D5	11318		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN3077	9	H146	D5	38712		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN3260	8	H146	D5	3000		Clean Harbors, Ryley
Other specified inorganic sludges, slurries or solids	UN3262	8	H146	D5	1845		Clean Harbors, Ryley
Chemical fertilizer wastes	NR	NR	H147	D5	138355340		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	NR	NR	H148	D5	1387114		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1350	4.1	H148	D5	93014		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN1760	8	H148	D5	410		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN2693	8	H148	D5	1880		Clean Harbors, Ryley
Miscellaneous waste inorganic chemicals	UN3260	8	H148	D5	22580		Clean Harbors, Ryley
Inert inorganic waste	NR	NR	H150	D5	177735		Clean Harbors, Ryley
Inert inorganic waste	UN2212	9	H150	D5	4916		Clean Harbors, Ryley

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Disposed On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Inert inorganic waste	UN2291	6.1	H150	D5	2630		Clean Harbors, Ryley
Inert inorganic waste	UN2590	9	H150	D5	13129		Clean Harbors, Ryley
Inert inorganic waste	UN3175	4.1	H150	D5	3580		Clean Harbors, Ryley
Empty packages, bags, containers	NR	NR	H152	D5	4138		Clean Harbors, Ryley
Empty packages, bags, containers	UN3509	9	H152	D5	15250		Clean Harbors, Ryley
Spent catalysts	NR	NR	H153	D5	931598		Clean Harbors, Ryley
Spent catalysts	UN3077	9	H153	D5	1250		Clean Harbors, Ryley
Spent catalysts	UN3175	4.1	H153	D5	32190		Clean Harbors, Ryley
Spent catalysts	UN3190	4.2	H153	D5	1384744		Clean Harbors, Ryley
Spent catalysts	UN3260	8	H153	D5	22597		Clean Harbors, Ryley
Spent catalysts	UN3262	8	H153	D5	7140		Clean Harbors, Ryley
Desiccants - Silica gel, activated alumina & molecular sieves	NR	NR	H154	D5	1068180		Clean Harbors, Ryley
Desiccants - Silica gel, activated alumina & molecular sieves	UN3175	4.1	H154	D5	21810		Clean Harbors, Ryley
Aromatic solvents and residues	NR	NR	H211	D5	18630		Clean Harbors, Ryley
Petroleum distillates	NR	NR	H213	D5	205		Clean Harbors, Ryley
Petroleum distillates	UN1362	4.2	H213	D5	400		Clean Harbors, Ryley
Petroleum distillates	UN1993	3	H213	D5	5		Clean Harbors, Ryley
Polymeric resins	NR	NR	H232	D5	205		Clean Harbors, Ryley
Polymeric resins	UN1759	8	H232	D5	58750		Clean Harbors, Ryley
Polymeric resins	UN2925	4.1	H232	D5	24320		Clean Harbors, Ryley
Other polymeric waste	UN3082	9	H233	D5	228		Clean Harbors, Ryley
Halogenated solvents and residues	NR	NR	H241	D5	810068		Clean Harbors, Ryley
Halogenated pesticides & herbicides	NR	NR	H242	D5	5820		Clean Harbors, Ryley
Polychlorinated biphenyls (PCB)	UN2315	9	H243	D5	286		Clean Harbors, Ryley
Waste oils/sludges (petroleum based)	NR	NR	H251	D5	4555577		Clean Harbors, Ryley
Waste oils/sludges (petroleum based)	UN3175	4.1	H251	D5	2003850		Clean Harbors, Ryley
Waste crankcase oils & lubricants	NR	NR	H252	D5	2618		Clean Harbors, Ryley
Emulsified oils	NR	NR	H253	D5	2255		Clean Harbors, Ryley
Filters from oils & gas processing	NR	NR	H256	D5	17870		Clean Harbors, Ryley
Filters from oils & gas processing	UN3190	4.2	H256	D5	101410		Clean Harbors, Ryley
Filters from oils & gas processing	UN3200	4.2	H256	D5	20540		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	NR	NR	H263	D5	4920		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN1654	6.1	H263	D5	480		Clean Harbors, Ryley

Hazardous Recycle or Waste Name	Uniform Waste Code				Quantity (kg/L)		Disposed On-site
	PIN	Class	Waste Code	Management Code	Hazardous	Non-hazardous	
Miscellaneous waste organic chemicals	UN1993	3	H263	D5	4000		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN2212	9	H263	D5	3		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN2735	8	H263	D5	228		Clean Harbors, Ryley
Miscellaneous waste organic chemicals	UN3175	4.1	H263	D5	4198		Clean Harbors, Ryley
Organic acids	UN1759	8	H267	D5	20		Clean Harbors, Ryley
Organic acids	UN3265	8	H267	D5	15		Clean Harbors, Ryley
Amines	UN3082	9	H268	D5	2650		Clean Harbors, Ryley
Amines	UN3088	4.2	H268	D5	4422		Clean Harbors, Ryley
Amines	UN3267	8	H268	D5	35		Clean Harbors, Ryley
Other specified organic sludges, slurries and solids	NR	NR	H270	D5	9189651		Clean Harbors, Ryley
Other specified organic sludges, slurries and solids	UN1759	8	H270	D5	82190		Clean Harbors, Ryley
Other specified organic sludges, slurries and solids	UN3175	4.1	H270	D5	18620770		Clean Harbors, Ryley
Activated carbon	NR	NR	H271	D5	26788		Clean Harbors, Ryley
Activated carbon	UN1325	4.1	H271	D5	21940		Clean Harbors, Ryley
Activated carbon	UN1362	4.2	H271	D5	71818		Clean Harbors, Ryley
Activated carbon	UN3088	4.2	H271	D5	4490		Clean Harbors, Ryley
Activated carbon	UN3175	4.1	H271	D5	2800		Clean Harbors, Ryley
Activated carbon	UN3190	4.2	H271	D5	4560		Clean Harbors, Ryley
Sorbent materials	NR	NR	H274	D5	80167		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	NR	NR	H275	D5	9229143		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	UN3175	4.1	H275	D5	914745		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	UN3244	8	H275	D5	10195		Clean Harbors, Ryley
Contaminated debris & soil from spills, accidents & leaks	UN3260	8	H275	D5	180		Clean Harbors, Ryley
Waste compressed gases, including cylinders	UN1950	2.1	H331	D5	635		Clean Harbors, Ryley
Total Hazardous Waste Landfilled (kg)					212432084		