

April 14, 2022

TO: Members of the Facility & Plan Review Subcommittee
Los Angeles County Solid Waste Management Committee/
Integrated Waste Management Task Force

FROM: Ramon Herman, Staff (RH)

STAFF REPORT

2022 SEMI WASTE CHARACTERIZATION STUDIES FOR VARIOUS LANDFILLS

As requested by the Facility and Plan Review Subcommittee, below is the staff's report on the Waste Characterization submitted by the respective landfill facilities:

2022 Semi Annual Spring Waste Characterization for Antelope Valley Recycling and Disposal Facility dated March 14, 2022. The Waste Characterization Study was conducted during a six-day period, on the week of March 7th. For this period of study, the Landfill sampled approximately 235 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of **74%** of the total collected sample for this study period. Compared to previous study period of Fall 2021, the percentage of organics was reported at **69%** (*out of 228 tons*)
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **3%** of the total collected sample. Compared to Fall 2021, the percentage of these wastes was reported at **2%** (*out of 228 tons*).
- Plastics composed of **16%** of the total collected sample. Compared to Fall 2021, the percentage of plastics was reported at **27%** (*out of 228 tons*).

2022 Semi Annual Spring Waste Characterization for Lancaster Landfill & Recycling Facility dated March 21, 2022. The Waste Characterization Study was conducted during a six-day period, on the week of March 7th. For this period of study, the Landfill sampled approximately 128 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of **56%** of the total collected sample for this study period. Compared to previous study period of Fall 2021, the percentage of organics was reported at **24%** (*out of 155 tons*)
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **8%** of the total collected sample. Compared to Fall 2021, the percentage of these wastes was reported at **22%** (*out of 155 tons*).
- Plastics composed of **34%** of the total collected sample. Compared to Fall 2021, the percentage of plastics was reported at **49%** (*out of 155 tons*).

NOTE: By design, the Waste Characterization study only provide a "snap-shot" of the composition of the waste stream during the study period. As such, it may not accurately depict of the overall waste stream composition for the respective facility.

Antelope Valley Recycling and Disposal Facility Report based on SB 1383 Definition ¹							
Waste Type	Waste Materials	Spring 2022					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	1.7	0.8	8.8	0.0	11.3	4.80
	Mixed Paper	4.3	9.2	8.3	0.0	21.7	9.24
	Newspaper	1.0	2.8	0.0	0.0	3.9	1.65
	High Grade Ledger	0.0	0.0	0.0	0.0	0.0	0.00
	Other Paper	3.5	1.9	6.4	0.0	11.8	5.03
	Leaves, Grass, Prunings	8.4	2.1	31.9	0.0	42.4	18.01
	Food Waste	7.1	9.5	7.4	0.0	24.0	10.19
	Wood Wastes	6.2	1.4	43.7	0.0	51.2	21.78
	Agricultural Crop Residues	0	0	4.16	0	4.2	0.19
	Manure	0.0	0.0	0.0	0.0	0.0	2.62
	Textile & Leather	0.0	0.0	4.2	0.0	4.2	0.93
	Sewage Sludge	0	0	0	0	0.0	0.00
	Industrial Sludge	0	0	0	0	0.0	0.00
						74.44	
Plastics	High-Density Polyethylene (HDPE)	0.0	0.0	0.0	0.0	0.0	0.00
	Polyethylene Terephthalate (PET)	0.5	0.0	0.0	0.0	0.5	0.22
	Film Plastics	7.8	0.0	0.5	0.0	8.3	3.53
	Other Plastics	6.3	9.2	14.1	0.0	29.7	12.61
						16.36	
Glass	Refillable Beverage Glass	1.2	0.0	0.0	0.0	1.2	0.49
	California Redemption Value Glass	0.0	0.0	0.0	0.0	0.0	0.00
	Other Recyclable Glass	0.5	0.6	0.4	0.0	1.5	0.64
	Other Non-Recyclable Glass	0.5	0.0	1.7	0.0	2.3	0.96
						2.09	
Metals	Aluminum Cans	1.8	0.9	3.9	0.0	6.6	2.81
	Bi-Metal Containers & Tin Cans	0.0	1.3	0.0	0.0	1.3	0.54
	Ferrous Metals	0.2	0.0	1.5	0.0	1.7	0.71
	Non-Ferrous Metal Include Aluminum	0.0	0.0	0.0	0.0	0.0	0.00
	White Goods	0.0	0.0	0.0	0.0	0.0	0.00
						4.05	
Other Waste	Inert Solids (concrete, brick, sand)	1.1	0.0	3.2	0.0	4.3	1.81
	Household Hazardous Waste (pounds)	0.0	0.5	0.0	0.0	0.5	0.23
	Tires & Rubber Products	0.0	1.4	1.5	0.0	2.8	1.20
						3.24	
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0	0	0	0	0	0.00
	Other Specific Waste	0	0	0	0	0	0.00
						0.00	
Total		52.2	41.5	141.6	0.0	235.3	100

Percent Difference of The Total Waste Stream		
Antelope Valley Recycling and Disposal Facility	Fall '21	Spring '22
Organics	69.01	74.44
Plastics	27.54	16.36
Glass	0.45	2.09
Metals	1.21	4.05
Other Waste	1.88	3.24
Special Waste	0	0.00

Lancaster Landfill & Recycling Center Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Spring 2022					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	5.3	15.6	1.5	0.0	22.5	17.47
	Mixed Paper	2.6	0.2	0.0	0.0	2.8	2.18
	Newspaper	2.8	0.1	0.0	0.0	2.9	2.26
	High Grade Ledger	0.0	0.0	0.0	0.0	0.0	0.00
	Other Paper	5.5	1.4	0.3	0.0	7.2	5.59
	Leaves, Grass, Prunings	5.5	0.3	0.0	0.0	5.9	4.60
	Food Waste	2.1	0.7	0.0	0.0	2.9	2.22
	Wood Wastes	1.0	8.1	16.0	0.0	25.2	19.55
	Agricultural Crop Residues	0	0	0	0.0	0.0	0.00
	Manure	0.0	0.0	0.0	0.0	0.0	0.00
	Textile & Leather	0.7	2.2	0.3	0.0	3.2	2.49
	Sewage Sludge	0	0	0	0.0	0.0	0.00
	Industrial Sludge	0	0	0	0.0	0.0	0.00
							56.36
Plastics	High-Density Polyethylene (HDPE)	0.1	0.1	0.0	0.0	0.2	0.16
	Polyethylene Terephthalate (PET)	0.1	0.2	0.0	0.0	0.3	0.24
	Film Plastics	0.7	3.2	2.5	0.0	6.4	4.98
	Other Plastics	22.9	12.3	1.2	0.0	36.4	28.29
							33.67
Glass	Refillable Beverage Glass	0.2	0.0	0.0	0.0	0.2	0.17
	California Redemption Value Glass	0.0	0.0	0.0	0.0	0.0	0.02
	Other Recyclable Glass	0.0	0.0	0.0	0.0	0.0	0.15
	Other Non-Recyclable Glass	0.0	0.0	0.0	0.0	0.0	0.15
							0.49
Metals	Aluminum Cans	0.3	0.2	0.0	0.0	0.5	0.39
	Bi-Metal Containers & Tin Cans	0.0	0.3	0.4	0.0	0.7	0.54
	Ferrous Metals	0.0	0.0	0.0	0.0	0.0	0.01
	Non-Ferrous Metal Include Aluminum	0.3	0.0	0.0	0.0	0.4	0.28
	White Goods	0.0	0.0	0.0	0.0	0.0	0.00
							1.22
Other Waste	Inert Solids (concrete, brick, sand)	0.0	0.0	10.8	0.0	10.9	8.44
	Household Hazardous Waste (pounds)	0.0	0.0	0.0	0.0	0.0	0.00
	Tires & Rubber Products	0.0	0.0	0.0	0.0	0.0	0.00
							8.44
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0	0	0.039	0	0.039	0.00
	Other Specific Waste	0	0	0.078	0	0.078	0.00
							0.00
Total		50.2	45.0	33.5	0.0	128.7	100

Percent Difference of The Total Waste Stream		
Lancaster Landfill & Recycling Center	Fall '21	Spring '22
Organics	23.29	56.36
Plastics	49.98	33.67
Glass	0.39	0.49
Metals	3.97	1.22
Other Waste	22.02	8.44
Special Waste	0	0.00

Supplemental Information

Staff categorized the different landfills waste characterization from the operator's report based on CalRecycle's definition of organic waste. ¹According to Calrecycle (SB-1383), the definition of organic waste is any solid wastes containing material originated from living organisms and their metabolic waste products, including but not limited to food, green material, landscape and pruning waste, organic textiles and carpets, lumber, wood, paper products, printing and writing paper, manure, biosolids, digestate, and sludges. (Source: Proposed Short-lived Climate Pollutants (SLCP): Organic Waste Reductions Regulations)