

April 8, 2021

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

FROM: Daniel Wibisono, Staff *DCW*

STAFF REPORT
2021 SEMI WASTE CHARACTERIZATION STUDIES FOR ANTELOPE VALLEY
RECYCLING AND DISPOSAL FACILITY AND LANCASTER LANDFILL

As requested by the Facility and Plan Review Subcommittee at its February 18, 2021 meeting, below is the staff's reports on the Waste Characterization reports submitted by various landfills:

2021 Semi Annual Spring Waste Characterization for Antelope Valley Recycling and Disposal Facility, dated March 23, 2021. The Waste Characterization Study was conducted over a five-day period, from March 8 to March 12, 2021. For this period of study, the Landfill analyzed sample of the waste stream, which consisted of 198.2 tons out of the total incoming waste. Below are information on the top three materials from the collected sample:

- Organic materials composed of **65%** of the total collected sample. Compared to previous study period of Fall 2020, the percentage of organics was reported at **73%** (out of 217.5 tons).
- Plastics composed of **24%** of the total collected sample. Compared to Fall 2020, the percentage of plastics was reported at 23% (out of 217.5 tons).
- The remaining **11%** of the waste stream were composed of glass, metals and other wastes (including Household hazardous waste, inerts and tires and rubber). Waste compositions were reported at 3%, 5%, and 3%, respectively. Compared to Fall 2020, the percentages of the glass, metals and other wastes were reported at 1.8%, 1.5% and 1% respectively (out of 217.5 tons).

2021 Semi Annual Spring Lancaster Landfill waste characterization report, dated March 23, 2021. The waste characterization study was conducted during a five-day period, from March 8 to 12, 2021. For this period of study, the Landfill analyzed sample of the waste stream, which consisted of 138.77 tons out of the total incoming waste. Below are information on the top three materials from the collected sample:

- Organic materials composed of **37%** of the total collected sample for this study period. Compared to previous study period of Fall 2020, the percentage of organics was reported at 57% (out of 187.3 tons).

The Landfill Operator has reported that the landfill recently began to implement an onsite SB1383 organics diversion program. Organic materials coming to the Landfill were routed to Antelope Valley Landfill and then hauled to an organic processing facility (Kochergen Farms Composting) in the Central Coast of California.

- Plastics composed of **49%** of the total collected sample. Compared to Fall 2020, the percentage of plastics was reported at 18% (out of 187.3 tons). The operator attributed the increase due to COVID-19.
- Metals composed of **6%** of the total collected sample. Compared to Fall 2020, the percentage of plastics was reported at 12% (out of 187.3 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.

AVRDF Waste Characterization Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Spring 2021				
		Quantity (Load in Tons)				
		Residential	Commercial	Industrial	Total	%
Organics	Corrugated Container	2.574	0.955	0.4316	3.96	2.00
	Mixed Paper	6.972	15.255	13.7856	36.01	18.17
	Newspaper	0	0	0.2158	0.22	0.11
	High Grage Ledger	0	0	0	0.00	0.00
	Other Paper	3.756	4.858	15.035	23.65	11.93
	Leaves, Grass, Prunings	4.865	10.634	10.79	26.29	13.26
	Food Waste	11.486	15.411	0.18	27.08	13.66
	Wood Wastes	1.429	8.6925	0.7766	10.90	5.50
	Agricultural Crop Residues	0	0	0	0.00	0.00
	Manure	0	0	0	0.00	0.00
	Textile & Leather	0.1395	0.382	0	0.52	0.26
	Sewage Sludge	0	0	0	0.00	0.00
	Industrial Sludge	0	0	0	0.00	0.00
						64.89
Plastics	High-Density Polyethylene (HDPE)	0	0	0	0.00	0.00
	Polyethylene Terephthalte (PET)	0	0	0	0.00	0.00
	Film Plastics	5.237	14.0645	1.4316	20.73	10.46
	Other Plastics	5.564	0.955	20.634	27.15	13.70
						24.16
Glass	Refillable Beverage Glass	0.0465	0	0	0.05	0.02
	California Redemption Value Glass	0	0	0	0.00	0.00
	Other Recyclable Glass	1.22	3.78	0	5.00	2.52
	Other Non-Recyclable Glass	0	0	0.4316	0.43	0.22
						2.76
Metals	Aluminum Cans	0	0	6.307	6.31	3.18
	Bi-Metal Containers & Tin Cans	0.414	3.3	0	3.71	1.87
	Ferrous Metals	0.093	0	0.4316	0.52	0.26
	Non-Ferrous Metal Include Aluminum	0	0	0	0.00	0.00
	White Goods	0	0	0	0.00	0.00
						5.32
Other Waste	Inert Solids (concrete, brick, sand)	0	0.573	0	0.57	0.29
	Household Hazardous Waste (pounds)	0	0	0	0.00	0.00
	Tires & Rubber Products	0	0	5.098	5.10	2.57
						2.86
Special Waste	Ash	0	0	0	0.00	0.00
	Asbestos	0	0	0	0.00	0.00
	Auto Shredder Waste	0	0	0	0.00	0.00
	Auto Bodies	0	0	0	0.00	0.00
	Other Specific Waste	0	0	0	0.00	0.00
						0.00
Total		43.796	78.86	75.5484	198.2044	100

Percent Difference of The Total Waste Stream		
AVRDF	Fall '20	Spring '21
Organics	73.03	64.89
Plastics	22.79	24.16
Glass	1.79	2.76
Metals	1.39	5.32
Other Waste	1.00	2.86
Special Waste	0.00	0.00

Lancaster Waste Characterization Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Spring 2021				
		Quantity (Load in Tons)				
		Residential	Commercial	Industrial	Total	%
Organics	Corrugated Container	1.1279	4.2807	6.562	11.97	8.63
	Mixed Paper	2.3196	1.8007	3.0876	7.21	5.19
	Newspaper	0	0.1838	6.625	6.81	4.91
	High Grage Ledger	0	0	0	0.00	0.00
	Other Paper	2.8474	2	0.101	4.95	3.57
	Leaves, Grass, Prunings	1.2202	0.0919	0.0494	1.36	0.98
	Food Waste	3.4504	0.8073	0	4.26	3.07
	Wood Wastes	1.1007	6.0199	0.1636	7.28	5.25
	Agricultural Crop Residues	0	0	0	0.00	0.00
	Manure	0	0	0	0.00	0.00
	Textile & Leather	1.8124	0.7837	4.5732	7.17	5.17
	Sewage Sludge	0	0	0	0.00	0.00
	Industrial Sludge	0	0	0	0.00	0.00
						36.76
Plastics	High-Density Polyethylene (HDPE)	2.4368	0.0919	2.1795	4.71	3.39
	Polyethylene Terephthalte (PET)	1.3398	0.5775	0	1.92	1.38
	Film Plastics	0	0.607	1.2883	1.90	1.37
	Other Plastics	35.634	20.7367	2.9792	59.35	42.77
						48.91
Glass	Refillable Beverage Glass	0.333	0.4856	0	0.82	0.59
	California Redemption Value Glass	0.7678	0	1.453	2.22	1.60
	Other Recyclable Glass	0	0.2428	0	0.24	0.17
	Other Non-Recyclable Glass	0.76	0	0	0.76	0.55
						2.91
Metals	Aluminum Cans	0.2083	0.2674	0.7265	1.20	0.87
	Bi-Metal Containers & Tin Cans	1.0266	0.6989	0	1.73	1.24
	Ferrous Metals	0	0	0	0.00	0.00
	Non-Ferrous Metal Include Aluminum	0.3539	0	1.5953	1.95	1.40
	White Goods	0.3158	0.4806	2.8397	3.64	2.62
						6.13
Other Waste	Inert Solids (concrete, brick, sand)	0.279	2.2428	1.0784	3.60	2.59
	Household Hazardous Waste (pounds)	0.0086	0.1	0	0.11	0.08
	Tires & Rubber Products	0	0	3.6325	3.63	2.62
						5.29
Special Waste	Ash	0	0	0	0.00	0.00
	Asbestos	0	0	0	0.00	0.00
	Auto Shredder Waste	0	0	0	0.00	0.00
	Auto Bodies	0	0	0	0.00	0.00
	Other Specific Waste	0	0	0	0.00	0.00
						0.00
	Total	57.3422	42.4992	38.9342	138.7756	100

Percent Difference of The Total Waste Stream		
Lancaster Landfill	Fall '20	Spring '21
Organics	56.62	36.76
Plastics	18.31	48.91
Glass	6.20	2.91
Metals	12.80	6.13
Other Waste	6.07	5.29
Special Waste	0.00	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)