



ADDENDUM NO. 2

Issue Date: January 24, 2020

Project Name: Transportation of Recyclables to St. Lucie Co.

Bid Number: 2020028

Bid Opening Date: February 07, 2020

This addendum is being released to answer questions received to date and to provide a 12 month summary of both single stream recyclables and corrugated cardboard materials.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

Attachments:

12 month summary of outgoing single stream recyclables.
12 month summary of outgoing old corrugated cardboard materials.

Questions and Answers

1. Does the County have a bulk density of their single stream recyclables? That is, does the County have an estimate on their tons per cubic yard of their typical single stream recyclables makeup? This can vary a great deal depending upon the recyclables stream and the constituents that are experienced by the County.
See attached 12-month summary of outgoing single stream recyclables.
2. Does the County have a bulk density of their typical corrugated cardboard stream? That is, does the County have an estimated tons per cubic card of the corrugated cardboard they receive?
See attached 12-month summary of outgoing old corrugated cardboard materials.
3. How will the material be loaded, what type of facility and equipment is used?
Our contractor utilizes two Volvo 110-H loaders. There is one with a long boom, which is used to load single stream recyclables from the ground into the walking floor trailers. The other has a standard boom, which uses a ramp to load the segregated old corrugated cardboard.
4. Is there an elevated loading surface?

The segregated old corrugated cardboard is typically loaded using a ramp.

What equipment is used to load the material trailers, is a wheeled loader used and a material handler packer or just one or the other?

5.

Our contractor utilized wheeled loaders only.

Is packing done by a wheeled loader or the material handler?

6. **The packing is done by the wheeled loaders only.**

Would the County consider adjusting the bid to a per load rate vs. a per ton price? The tons per load could vary a great deal depending upon the personality and process of the operator performing the loading. Some operators have a great deal of skill in packing and loading trailers, and can therefore increase the amount of tons per trailer, while others are new to the operation and can't add as many tons per trailer. This unknown puts a great deal of risk on the contractor as they attempt to estimate how many tons per trailer the County will achieve and how many tons per trailer the various operators at the County would achieve.

7.

No, all materials leaving the site are required to be weighed through our Scalehouse and the price to be paid will be per ton.

Will the County agree to a minimum tons per trailer, e.g. 11 tons per trailer, if the entire load was light, low bulk density corrallated cardboard, vs the assumed higher bulk density cardboard?

8.

No.

Will the County explain and define what "separated film" is? What type of recycling stream is this? Is this mixed plastics? Is separated film a unique and site specific material, due to a company or contributor in the County producing a unique recycling stream?

9.

Indian River County is one of nine counties in the State of Florida that is participating in the Wrap Recycling Action Program (WRAP) supported by the Florida Department of Environmental Protection (FDEP). The initiative aims to build greater public awareness and participation in plastic film packaging recycling at grocery stores and other retail locations, as well as reduce the amount of film packaging inappropriately placed in curbside recycling bins. Indian River County has setup WRAP collection at six (6) public locations and 32 private locations (not including grocery/department stores) that contribute to the Separated Film collected at our facility. For more information about the program, please visit <https://floridadep.gov/waste/waste-reduction/content/wrap-retail-plastic-film-takeback-partnership>

How many tons per load has the County experienced in the past for single stream recycling? What was the length or cubic dimensions of that trailer?

10. **Based on the attached report, for the period of January 1, 2019 through December 31, 2019, the average tons per load for single stream recycling was 12.24 tons. Specific dimensions are not available; however, the transport trailers are on average 100 cubic yards.**

How many tons per load has the County experienced in the past for corrallated cardboard recycling? What was the length or cubic dimensions of that trailer?

11. **Based on the attached report, for the period of January 1, 2019 through December 31, 2019, the average tons per load for single stream recycling was 7.55 tons. Specific dimensions are not available; however, the transport trailers are on average 100 cubic yards.**

How many tons per load has the County experienced in the past for separated film? What was the length or cubic dimensions of that trailer?

- 12. The separated Film is being bid on a per load basis and the assumption is that one load per month will be required to be transported. Please price accordingly based on using a 100 cubic yards transport trailer.**

Will the county agree to negotiate the pricing if a contractor's expectation of tons per load is not

- 13. realistically achieved by the County loading?
No.**

- 14. How long will the loading by the County personnel take? Will it not exceed XX minutes? (i.e. 45 mins or similar).**

Per our contractor, it typically take 20 to 25 minutes to load a 100 cubic yard trailer. Weather/maintenance issues may bring this to 40 to 45 minutes but that is only during special circumstances.

Why did the total tons drop in FY18/19 when compared to the previous 3 years? Was there a new program or process implemented?

- 15. A combination of wet materials and contaminated materials resulted in less material being shipped out in FY18/19.**

On page 13 of 22 is states that no guaranteed minimum is promised. Does that mean that there is no guarantee per year or per load? Can we put that the tonnage price is based on a minimum

- 16. tonnage per load?**

That is correct. Quantities on the bid form are estimated only, and no guaranteed minimum is promised. No, please use average tonnages provided in the attachment to base your bid price.

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
01/02/19				Total	8	0	0	0	86.96	86.96	0.00
				Average		0	0	0	10.87	10.87	0.00
01/03/19				Total	6	0	0	0	63.20	63.20	0.00
				Average		0	0	0	10.53	10.53	0.00
01/04/19				Total	9	0	0	0	106.42	106.42	0.00
				Average		0	0	0	11.82	11.82	0.00
01/05/19				Total	9	0	0	0	105.95	105.95	0.00
				Average		0	0	0	11.77	11.77	0.00
01/07/19				Total	6	0	0	0	74.09	74.09	0.00
				Average		0	0	0	12.35	12.35	0.00
01/08/19				Total	8	0	0	0	96.05	96.05	0.00
				Average		0	0	0	12.01	12.01	0.00
01/09/19				Total	9	0	0	0	109.35	109.35	0.00
				Average		0	0	0	12.15	12.15	0.00
01/10/19				Total	4	0	0	0	43.09	43.09	0.00
				Average		0	0	0	10.77	10.77	0.00
01/11/19				Total	3	0	0	0	32.05	32.05	0.00
				Average		0	0	0	10.68	10.68	0.00
01/14/19				Total	4	0	0	0	40.81	40.81	0.00
				Average		0	0	0	10.20	10.20	0.00
01/15/19				Total	5	0	0	0	51.62	51.62	0.00
				Average		0	0	0	10.32	10.32	0.00
01/16/19				Total	7	0	0	0	75.99	75.99	0.00
				Average		0	0	0	10.86	10.86	0.00
01/17/19				Total	7	0	0	0	82.09	82.09	0.00
				Average		0	0	0	11.73	11.73	0.00
01/18/19				Total	14	0	0	0	178.67	178.67	0.00
				Average		0	0	0	12.76	12.76	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
01/21/19		Total			6	0	0	0	66.49	66.49	0.00
		Average				0	0	0	11.08	11.08	0.00
01/22/19		Total			2	0	0	0	25.66	25.66	0.00
		Average				0	0	0	12.83	12.83	0.00
01/23/19		Total			10	0	0	0	119.27	119.27	0.00
		Average				0	0	0	11.93	11.93	0.00
01/24/19		Total			6	0	0	0	78.04	78.04	0.00
		Average				0	0	0	13.01	13.01	0.00
01/25/19		Total			7	0	0	0	91.42	91.42	0.00
		Average				0	0	0	13.06	13.06	0.00
01/28/19		Total			5	0	0	0	71.03	71.03	0.00
		Average				0	0	0	14.21	14.21	0.00
01/29/19		Total			6	0	0	0	91.14	91.14	0.00
		Average				0	0	0	15.19	15.19	0.00
01/30/19		Total			7	0	0	0	91.30	91.30	0.00
		Average				0	0	0	13.04	13.04	0.00
01/31/19		Total			7	0	0	0	90.21	90.21	0.00
		Average				0	0	0	12.89	12.89	0.00
02/01/19		Total			5	0	0	0	65.17	65.17	0.00
		Average				0	0	0	13.03	13.03	0.00
02/04/19		Total			3	0	0	0	38.84	38.84	0.00
		Average				0	0	0	12.95	12.95	0.00
02/05/19		Total			6	0	0	0	79.75	79.75	0.00
		Average				0	0	0	13.29	13.29	0.00
02/06/19		Total			6	0	0	0	74.19	74.19	0.00
		Average				0	0	0	12.37	12.37	0.00
02/07/19		Total			8	0	0	0	98.20	98.20	0.00

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Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	12.28	12.28	0.00
02/08/19				Total	6	0	0	0	81.64	81.64	0.00
				Average		0	0	0	13.61	13.61	0.00
02/11/19				Total	3	0	0	0	32.06	32.06	0.00
				Average		0	0	0	10.69	10.69	0.00
02/12/19				Total	4	0	0	0	52.00	52.00	0.00
				Average		0	0	0	13.00	13.00	0.00
02/13/19				Total	6	0	0	0	74.75	74.75	0.00
				Average		0	0	0	12.46	12.46	0.00
02/14/19				Total	5	0	0	0	61.30	61.30	0.00
				Average		0	0	0	12.26	12.26	0.00
02/15/19				Total	5	0	0	0	60.85	60.85	0.00
				Average		0	0	0	12.17	12.17	0.00
02/18/19				Total	10	0	0	0	117.34	117.34	0.00
				Average		0	0	0	11.73	11.73	0.00
02/19/19				Total	7	0	0	0	91.58	91.58	0.00
				Average		0	0	0	13.08	13.08	0.00
02/20/19				Total	3	0	0	0	35.00	35.00	0.00
				Average		0	0	0	11.67	11.67	0.00
02/21/19				Total	7	0	0	0	84.74	84.74	0.00
				Average		0	0	0	12.11	12.11	0.00
02/22/19				Total	7	0	0	0	77.09	77.09	0.00
				Average		0	0	0	11.01	11.01	0.00
02/25/19				Total	7	0	0	0	74.14	74.14	0.00
				Average		0	0	0	10.59	10.59	0.00
02/26/19				Total	7	0	0	0	89.66	89.66	0.00
				Average		0	0	0	12.81	12.81	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

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Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
02/27/19				Total	6	0	0	0	77.62	77.62	0.00
				Average		0	0	0	12.94	12.94	0.00
02/28/19				Total	7	0	0	0	93.22	93.22	0.00
				Average		0	0	0	13.32	13.32	0.00
03/01/19				Total	3	0	0	0	40.72	40.72	0.00
				Average		0	0	0	13.57	13.57	0.00
03/04/19				Total	7	0	0	0	85.55	85.55	0.00
				Average		0	0	0	12.22	12.22	0.00
03/05/19				Total	6	0	0	0	77.00	77.00	0.00
				Average		0	0	0	12.83	12.83	0.00
03/06/19				Total	3	0	0	0	38.14	38.14	0.00
				Average		0	0	0	12.71	12.71	0.00
03/07/19				Total	12	0	0	0	132.48	132.48	0.00
				Average		0	0	0	11.04	11.04	0.00
03/08/19				Total	5	0	0	0	57.32	57.32	0.00
				Average		0	0	0	11.46	11.46	0.00
03/11/19				Total	8	0	0	0	88.29	88.29	0.00
				Average		0	0	0	11.04	11.04	0.00
03/12/19				Total	8	0	0	0	103.55	103.55	0.00
				Average		0	0	0	12.94	12.94	0.00
03/13/19				Total	9	0	0	0	111.25	111.25	0.00
				Average		0	0	0	12.36	12.36	0.00
03/14/19				Total	6	0	0	0	72.50	72.50	0.00
				Average		0	0	0	12.08	12.08	0.00
03/15/19				Total	6	0	0	0	72.55	72.55	0.00
				Average		0	0	0	12.09	12.09	0.00
03/18/19				Total	4	0	0	0	46.20	46.20	0.00
				Average		0	0	0	11.55	11.55	0.00

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Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
03/19/19		Total			6	0	0	0	88.62	88.62	0.00
		Average				0	0	0	14.77	14.77	0.00
03/20/19		Total			4	0	0	0	52.71	52.71	0.00
		Average				0	0	0	13.18	13.18	0.00
03/21/19		Total			5	0	0	0	68.10	68.10	0.00
		Average				0	0	0	13.62	13.62	0.00
03/22/19		Total			3	0	0	0	34.90	34.90	0.00
		Average				0	0	0	11.63	11.63	0.00
03/25/19		Total			6	0	0	0	73.68	73.68	0.00
		Average				0	0	0	12.28	12.28	0.00
03/26/19		Total			8	0	0	0	97.97	97.97	0.00
		Average				0	0	0	12.25	12.25	0.00
03/27/19		Total			8	0	0	0	105.59	105.59	0.00
		Average				0	0	0	13.20	13.20	0.00
03/28/19		Total			7	0	0	0	89.93	89.93	0.00
		Average				0	0	0	12.85	12.85	0.00
03/29/19		Total			8	0	0	0	102.61	102.61	0.00
		Average				0	0	0	12.83	12.83	0.00
04/01/19		Total			5	0	0	0	63.29	63.29	0.00
		Average				0	0	0	12.66	12.66	0.00
04/02/19		Total			5	0	0	0	69.77	69.77	0.00
		Average				0	0	0	13.95	13.95	0.00
04/03/19		Total			9	0	0	0	116.29	116.29	0.00
		Average				0	0	0	12.92	12.92	0.00
04/04/19		Total			4	0	0	0	45.07	45.07	0.00
		Average				0	0	0	11.27	11.27	0.00
04/05/19		Total			4	0	0	0	47.57	47.57	0.00

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Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
		Average				0	0	0	11.89	11.89	0.00
04/08/19		Total			5	0	0	0	61.33	61.33	0.00
		Average				0	0	0	12.27	12.27	0.00
04/09/19		Total			7	0	0	0	103.14	103.14	0.00
		Average				0	0	0	14.73	14.73	0.00
04/10/19		Total			3	0	0	0	34.52	34.52	0.00
		Average				0	0	0	11.51	11.51	0.00
04/11/19		Total			10	0	0	0	123.86	123.86	0.00
		Average				0	0	0	12.39	12.39	0.00
04/12/19		Total			9	0	0	0	110.47	110.47	0.00
		Average				0	0	0	12.27	12.27	0.00
04/15/19		Total			2	0	0	0	26.98	26.98	0.00
		Average				0	0	0	13.49	13.49	0.00
04/16/19		Total			6	0	0	0	79.87	79.87	0.00
		Average				0	0	0	13.31	13.31	0.00
04/17/19		Total			9	0	0	0	112.68	112.68	0.00
		Average				0	0	0	12.52	12.52	0.00
04/18/19		Total			7	0	0	0	86.34	86.34	0.00
		Average				0	0	0	12.33	12.33	0.00
04/19/19		Total			6	0	0	0	64.29	64.29	0.00
		Average				0	0	0	10.72	10.72	0.00
04/22/19		Total			3	0	0	0	32.75	32.75	0.00
		Average				0	0	0	10.92	10.92	0.00
04/23/19		Total			4	0	0	0	52.27	52.27	0.00
		Average				0	0	0	13.07	13.07	0.00
04/24/19		Total			7	0	0	0	79.79	79.79	0.00
		Average				0	0	0	11.40	11.40	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

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Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
04/25/19				Total	7	0	0	0	83.24	83.24	0.00
				Average		0	0	0	11.89	11.89	0.00
04/26/19				Total	3	0	0	0	36.84	36.84	0.00
				Average		0	0	0	12.28	12.28	0.00
04/29/19				Total	2	0	0	0	19.13	19.13	0.00
				Average		0	0	0	9.57	9.57	0.00
05/03/19				Total	2	0	0	0	23.23	23.23	0.00
				Average		0	0	0	11.62	11.62	0.00
05/06/19				Total	5	0	0	0	64.29	64.29	0.00
				Average		0	0	0	12.86	12.86	0.00
05/07/19				Total	5	0	0	0	68.76	68.76	0.00
				Average		0	0	0	13.75	13.75	0.00
05/08/19				Total	4	0	0	0	43.79	43.79	0.00
				Average		0	0	0	10.95	10.95	0.00
05/09/19				Total	4	0	0	0	55.76	55.76	0.00
				Average		0	0	0	13.94	13.94	0.00
05/10/19				Total	4	0	0	0	48.74	48.74	0.00
				Average		0	0	0	12.19	12.19	0.00
05/13/19				Total	7	0	0	0	98.86	98.86	0.00
				Average		0	0	0	14.12	14.12	0.00
05/14/19				Total	6	0	0	0	91.98	91.98	0.00
				Average		0	0	0	15.33	15.33	0.00
05/15/19				Total	3	0	0	0	42.35	42.35	0.00
				Average		0	0	0	14.12	14.12	0.00
05/16/19				Total	1	0	0	0	12.60	12.60	0.00
				Average		0	0	0	12.60	12.60	0.00
05/17/19				Total	5	0	0	0	67.98	67.98	0.00
				Average		0	0	0	13.60	13.60	0.00

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Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
05/20/19		Total			4	0	0	0	42.01	42.01	0.00
		Average				0	0	0	10.50	10.50	0.00
05/21/19		Total			4	0	0	0	49.16	49.16	0.00
		Average				0	0	0	12.29	12.29	0.00
05/22/19		Total			4	0	0	0	40.08	40.08	0.00
		Average				0	0	0	10.02	10.02	0.00
05/23/19		Total			5	0	0	0	59.51	59.51	0.00
		Average				0	0	0	11.90	11.90	0.00
05/24/19		Total			3	0	0	0	38.58	38.58	0.00
		Average				0	0	0	12.86	12.86	0.00
05/28/19		Total			4	0	0	0	41.86	41.86	0.00
		Average				0	0	0	10.47	10.47	0.00
05/29/19		Total			4	0	0	0	41.97	41.97	0.00
		Average				0	0	0	10.49	10.49	0.00
05/30/19		Total			6	0	0	0	64.38	64.38	0.00
		Average				0	0	0	10.73	10.73	0.00
05/31/19		Total			4	0	0	0	47.97	47.97	0.00
		Average				0	0	0	11.99	11.99	0.00
06/03/19		Total			3	0	0	0	33.28	33.28	0.00
		Average				0	0	0	11.09	11.09	0.00
06/04/19		Total			5	0	0	0	62.93	62.93	0.00
		Average				0	0	0	12.59	12.59	0.00
06/05/19		Total			5	0	0	0	57.30	57.30	0.00
		Average				0	0	0	11.46	11.46	0.00
06/06/19		Total			5	0	0	0	50.87	50.87	0.00
		Average				0	0	0	10.17	10.17	0.00
06/07/19		Total			4	0	0	0	41.64	41.64	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	10.41	10.41	0.00
06/10/19				Total	3	0	0	0	29.68	29.68	0.00
				Average		0	0	0	9.89	9.89	0.00
06/11/19				Total	2	0	0	0	26.64	26.64	0.00
				Average		0	0	0	13.32	13.32	0.00
06/12/19				Total	4	0	0	0	43.82	43.82	0.00
				Average		0	0	0	10.96	10.96	0.00
06/13/19				Total	5	0	0	0	57.90	57.90	0.00
				Average		0	0	0	11.58	11.58	0.00
06/14/19				Total	3	0	0	0	35.70	35.70	0.00
				Average		0	0	0	11.90	11.90	0.00
06/17/19				Total	4	0	0	0	41.87	41.87	0.00
				Average		0	0	0	10.47	10.47	0.00
06/18/19				Total	6	0	0	0	75.75	75.75	0.00
				Average		0	0	0	12.63	12.63	0.00
06/19/19				Total	6	0	0	0	71.22	71.22	0.00
				Average		0	0	0	11.87	11.87	0.00
06/20/19				Total	5	0	0	0	60.24	60.24	0.00
				Average		0	0	0	12.05	12.05	0.00
06/21/19				Total	4	0	0	0	52.44	52.44	0.00
				Average		0	0	0	13.11	13.11	0.00
06/24/19				Total	1	0	0	0	8.59	8.59	0.00
				Average		0	0	0	8.59	8.59	0.00
06/25/19				Total	2	0	0	0	24.71	24.71	0.00
				Average		0	0	0	12.36	12.36	0.00
06/26/19				Total	2	0	0	0	25.17	25.17	0.00
				Average		0	0	0	12.59	12.59	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
07/01/19				Total	6	0	0	0	65.23	65.23	0.00
				Average		0	0	0	10.87	10.87	0.00
07/02/19				Total	4	0	0	0	53.81	53.81	0.00
				Average		0	0	0	13.45	13.45	0.00
07/03/19				Total	3	0	0	0	36.23	36.23	0.00
				Average		0	0	0	12.08	12.08	0.00
07/05/19				Total	5	0	0	0	52.62	52.62	0.00
				Average		0	0	0	10.52	10.52	0.00
07/06/19				Total	2	0	0	0	22.01	22.01	0.00
				Average		0	0	0	11.01	11.01	0.00
07/08/19				Total	7	0	0	0	85.29	85.29	0.00
				Average		0	0	0	12.18	12.18	0.00
07/09/19				Total	1	0	0	0	14.77	14.77	0.00
				Average		0	0	0	14.77	14.77	0.00
07/10/19				Total	3	0	0	0	36.42	36.42	0.00
				Average		0	0	0	12.14	12.14	0.00
07/11/19				Total	3	0	0	0	36.73	36.73	0.00
				Average		0	0	0	12.24	12.24	0.00
07/12/19				Total	2	0	0	0	23.35	23.35	0.00
				Average		0	0	0	11.68	11.68	0.00
07/15/19				Total	3	0	0	0	35.38	35.38	0.00
				Average		0	0	0	11.79	11.79	0.00
07/16/19				Total	4	0	0	0	20.80	20.80	0.00
				Average		0	0	0	5.20	5.20	0.00
07/17/19				Total	4	0	0	0	46.83	46.83	0.00
				Average		0	0	0	11.71	11.71	0.00
07/18/19				Total	4	0	0	0	44.48	44.48	0.00
				Average		0	0	0	11.12	11.12	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
07/19/19				Total	6	0	0	0	74.35	74.35	0.00
				Average		0	0	0	12.39	12.39	0.00
07/22/19				Total	3	0	0	0	31.77	31.77	0.00
				Average		0	0	0	10.59	10.59	0.00
07/23/19				Total	2	0	0	0	23.05	23.05	0.00
				Average		0	0	0	11.53	11.53	0.00
07/24/19				Total	4	0	0	0	43.11	43.11	0.00
				Average		0	0	0	10.78	10.78	0.00
07/25/19				Total	6	0	0	0	64.55	64.55	0.00
				Average		0	0	0	10.76	10.76	0.00
07/26/19				Total	4	0	0	0	48.71	48.71	0.00
				Average		0	0	0	12.18	12.18	0.00
07/29/19				Total	4	0	0	0	51.67	51.67	0.00
				Average		0	0	0	12.92	12.92	0.00
07/30/19				Total	4	0	0	0	57.54	57.54	0.00
				Average		0	0	0	14.39	14.39	0.00
07/31/19				Total	4	0	0	0	59.79	59.79	0.00
				Average		0	0	0	14.95	14.95	0.00
08/01/19				Total	4	0	0	0	51.77	51.77	0.00
				Average		0	0	0	12.94	12.94	0.00
08/02/19				Total	5	0	0	0	71.51	71.51	0.00
				Average		0	0	0	14.30	14.30	0.00
08/05/19				Total	3	0	0	0	45.63	45.63	0.00
				Average		0	0	0	15.21	15.21	0.00
08/06/19				Total	1	0	0	0	15.96	15.96	0.00
				Average		0	0	0	15.96	15.96	0.00
08/07/19				Total	4	0	0	0	52.53	52.53	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
		Average				0	0	0	13.13	13.13	0.00
08/08/19		Total			1	0	0	0	16.72	16.72	0.00
		Average				0	0	0	16.72	16.72	0.00
08/09/19		Total			6	0	0	0	102.63	102.63	0.00
		Average				0	0	0	17.11	17.11	0.00
08/12/19		Total			3	0	0	0	41.08	41.08	0.00
		Average				0	0	0	13.69	13.69	0.00
08/20/19		Total			6	0	0	0	65.59	65.59	0.00
		Average				0	0	0	10.93	10.93	0.00
08/21/19		Total			10	0	0	0	121.26	121.26	0.00
		Average				0	0	0	12.13	12.13	0.00
08/22/19		Total			7	0	0	0	87.59	87.59	0.00
		Average				0	0	0	12.51	12.51	0.00
08/23/19		Total			5	0	0	0	61.65	61.65	0.00
		Average				0	0	0	12.33	12.33	0.00
08/26/19		Total			4	0	0	0	45.66	45.66	0.00
		Average				0	0	0	11.42	11.42	0.00
08/27/19		Total			9	0	0	0	104.32	104.32	0.00
		Average				0	0	0	11.59	11.59	0.00
08/28/19		Total			3	0	0	0	35.41	35.41	0.00
		Average				0	0	0	11.80	11.80	0.00
08/29/19		Total			4	0	0	0	51.08	51.08	0.00
		Average				0	0	0	12.77	12.77	0.00
09/13/19		Total			2	0	0	0	24.38	24.38	0.00
		Average				0	0	0	12.19	12.19	0.00
09/16/19		Total			5	0	0	0	58.61	58.61	0.00
		Average				0	0	0	11.72	11.72	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
09/17/19		Total			7	0	0	0	84.65	84.65	0.00
		Average				0	0	0	12.09	12.09	0.00
09/18/19		Total			8	0	0	0	83.64	83.64	0.00
		Average				0	0	0	10.46	10.46	0.00
09/19/19		Total			5	0	0	0	56.10	56.10	0.00
		Average				0	0	0	11.22	11.22	0.00
09/20/19		Total			3	0	0	0	39.68	39.68	0.00
		Average				0	0	0	13.23	13.23	0.00
09/23/19		Total			7	0	0	0	72.52	72.52	0.00
		Average				0	0	0	10.36	10.36	0.00
09/24/19		Total			5	0	0	0	53.91	53.91	0.00
		Average				0	0	0	10.78	10.78	0.00
09/25/19		Total			6	0	0	0	67.02	67.02	0.00
		Average				0	0	0	11.17	11.17	0.00
09/26/19		Total			6	0	0	0	69.81	69.81	0.00
		Average				0	0	0	11.64	11.64	0.00
09/27/19		Total			3	0	0	0	35.89	35.89	0.00
		Average				0	0	0	11.96	11.96	0.00
09/30/19		Total			7	0	0	0	76.08	76.08	0.00
		Average				0	0	0	10.87	10.87	0.00
10/01/19		Total			4	0	0	0	46.93	46.93	0.00
		Average				0	0	0	11.73	11.73	0.00
10/02/19		Total			6	0	0	0	67.75	67.75	0.00
		Average				0	0	0	11.29	11.29	0.00
10/03/19		Total			5	0	0	0	54.81	54.81	0.00
		Average				0	0	0	10.96	10.96	0.00
10/04/19		Total			5	0	0	0	55.19	55.19	0.00
		Average				0	0	0	11.04	11.04	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
10/07/19		Total			4	0	0	0	51.80	51.80	0.00
		Average				0	0	0	12.95	12.95	0.00
10/08/19		Total			7	0	0	0	88.19	88.19	0.00
		Average				0	0	0	12.60	12.60	0.00
10/09/19		Total			4	0	0	0	54.52	54.52	0.00
		Average				0	0	0	13.63	13.63	0.00
10/10/19		Total			5	0	0	0	67.34	67.34	0.00
		Average				0	0	0	13.47	13.47	0.00
10/11/19		Total			2	0	0	0	25.66	25.66	0.00
		Average				0	0	0	12.83	12.83	0.00
10/14/19		Total			1	0	0	0	13.95	13.95	0.00
		Average				0	0	0	13.95	13.95	0.00
10/15/19		Total			7	0	0	0	85.85	85.85	0.00
		Average				0	0	0	12.26	12.26	0.00
10/16/19		Total			8	0	0	0	98.77	98.77	0.00
		Average				0	0	0	12.35	12.35	0.00
10/17/19		Total			7	0	0	0	79.04	79.04	0.00
		Average				0	0	0	11.29	11.29	0.00
10/18/19		Total			4	0	0	0	48.13	48.13	0.00
		Average				0	0	0	12.03	12.03	0.00
10/21/19		Total			6	0	0	0	75.65	75.65	0.00
		Average				0	0	0	12.61	12.61	0.00
10/22/19		Total			5	0	0	0	60.06	60.06	0.00
		Average				0	0	0	12.01	12.01	0.00
10/23/19		Total			4	0	0	0	47.72	47.72	0.00
		Average				0	0	0	11.93	11.93	0.00
10/24/19		Total			6	0	0	0	73.24	73.24	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	12.21	12.21	0.00
10/25/19				Total	6	0	0	0	72.69	72.69	0.00
				Average		0	0	0	12.12	12.12	0.00
10/28/19				Total	5	0	0	0	65.50	65.50	0.00
				Average		0	0	0	13.10	13.10	0.00
10/29/19				Total	4	0	0	0	53.65	53.65	0.00
				Average		0	0	0	13.41	13.41	0.00
10/30/19				Total	5	0	0	0	64.59	64.59	0.00
				Average		0	0	0	12.92	12.92	0.00
10/31/19				Total	6	0	0	0	71.07	71.07	0.00
				Average		0	0	0	11.85	11.85	0.00
11/01/19				Total	6	0	0	0	69.10	69.10	0.00
				Average		0	0	0	11.52	11.52	0.00
11/04/19				Total	5	0	0	0	61.22	61.22	0.00
				Average		0	0	0	12.24	12.24	0.00
11/05/19				Total	6	0	0	0	75.51	75.51	0.00
				Average		0	0	0	12.59	12.59	0.00
11/06/19				Total	5	0	0	0	62.12	62.12	0.00
				Average		0	0	0	12.42	12.42	0.00
11/07/19				Total	6	0	0	0	69.94	69.94	0.00
				Average		0	0	0	11.66	11.66	0.00
11/08/19				Total	4	0	0	0	51.99	51.99	0.00
				Average		0	0	0	13.00	13.00	0.00
11/11/19				Total	5	0	0	0	63.74	63.74	0.00
				Average		0	0	0	12.75	12.75	0.00
11/12/19				Total	2	0	0	0	26.67	26.67	0.00
				Average		0	0	0	13.34	13.34	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
11/13/19		Total			6	0	0	0	72.89	72.89	0.00
		Average				0	0	0	12.15	12.15	0.00
11/14/19		Total			7	0	0	0	81.65	81.65	0.00
		Average				0	0	0	11.66	11.66	0.00
11/15/19		Total			8	0	0	0	95.69	95.69	0.00
		Average				0	0	0	11.96	11.96	0.00
11/18/19		Total			5	0	0	0	56.59	56.59	0.00
		Average				0	0	0	11.32	11.32	0.00
11/19/19		Total			5	0	0	0	60.50	60.50	0.00
		Average				0	0	0	12.10	12.10	0.00
11/20/19		Total			4	0	0	0	47.36	47.36	0.00
		Average				0	0	0	11.84	11.84	0.00
11/21/19		Total			7	0	0	0	89.81	89.81	0.00
		Average				0	0	0	12.83	12.83	0.00
11/22/19		Total			4	0	0	0	47.27	47.27	0.00
		Average				0	0	0	11.82	11.82	0.00
11/25/19		Total			10	0	0	0	111.05	111.05	0.00
		Average				0	0	0	11.11	11.11	0.00
11/26/19		Total			6	0	0	0	63.23	63.23	0.00
		Average				0	0	0	10.54	10.54	0.00
11/27/19		Total			6	0	0	0	67.07	67.07	0.00
		Average				0	0	0	11.18	11.18	0.00
11/29/19		Total			1	0	0	0	11.68	11.68	0.00
		Average				0	0	0	11.68	11.68	0.00
11/30/19		Total			2	0	0	0	20.73	20.73	0.00
		Average				0	0	0	10.37	10.37	0.00
12/02/19		Total			6	0	0	0	74.37	74.37	0.00
		Average				0	0	0	12.40	12.40	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
12/03/19		Total			11	0	0	0	120.10	120.10	0.00
		Average				0	0	0	10.92	10.92	0.00
12/04/19		Total			11	0	0	0	133.66	133.66	0.00
		Average				0	0	0	12.15	12.15	0.00
12/05/19		Total			6	0	0	0	75.07	75.07	0.00
		Average				0	0	0	12.51	12.51	0.00
12/06/19		Total			6	0	0	0	70.27	70.27	0.00
		Average				0	0	0	11.71	11.71	0.00
12/09/19		Total			7	0	0	0	88.71	88.71	0.00
		Average				0	0	0	12.67	12.67	0.00
12/10/19		Total			5	0	0	0	59.83	59.83	0.00
		Average				0	0	0	11.97	11.97	0.00
12/11/19		Total			6	0	0	0	71.88	71.88	0.00
		Average				0	0	0	11.98	11.98	0.00
12/12/19		Total			6	0	0	0	81.08	81.08	0.00
		Average				0	0	0	13.51	13.51	0.00
12/13/19		Total			4	0	0	0	59.42	59.42	0.00
		Average				0	0	0	14.86	14.86	0.00
12/16/19		Total			6	0	0	0	97.46	97.46	0.00
		Average				0	0	0	16.24	16.24	0.00
12/17/19		Total			5	0	0	0	81.79	81.79	0.00
		Average				0	0	0	16.36	16.36	0.00
12/18/19		Total			3	0	0	0	41.61	41.61	0.00
		Average				0	0	0	13.87	13.87	0.00
12/19/19		Total			3	0	0	0	38.49	38.49	0.00
		Average				0	0	0	12.83	12.83	0.00
12/20/19		Total			11	0	0	0	137.97	137.97	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-SSR - O-SSR Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	12.54	12.54	0.00
12/23/19				Total	6	0	0	0	82.21	82.21	0.00
				Average		0	0	0	13.70	13.70	0.00
12/24/19				Total	7	0	0	0	99.18	99.18	0.00
				Average		0	0	0	14.17	14.17	0.00
12/26/19				Total	7	0	0	0	90.16	90.16	0.00
				Average		0	0	0	12.88	12.88	0.00
12/27/19				Total	6	0	0	0	73.94	73.94	0.00
				Average		0	0	0	12.32	12.32	0.00
12/30/19				Total	6	0	0	0	87.44	87.44	0.00
				Average		0	0	0	14.57	14.57	0.00
12/31/19				Total	4	0	0	0	45.69	45.69	0.00
				Average		0	0	0	11.42	11.42	0.00
				Report Total	1260	0	0	0	15422.21	15422.21	0.00
				Report Average		0	0	0	12.24	12.24	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials ~~O-RCC~~ - ~~O-RCC~~ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
01/05/19		Total			1	0	0	0	5.98	5.98	0.00
		Average				0	0	0	5.98	5.98	0.00
01/07/19		Total			1	0	0	0	5.17	5.17	0.00
		Average				0	0	0	5.17	5.17	0.00
01/10/19		Total			1	0	0	0	6.06	6.06	0.00
		Average				0	0	0	6.06	6.06	0.00
01/11/19		Total			2	0	0	0	10.89	10.89	0.00
		Average				0	0	0	5.45	5.45	0.00
01/15/19		Total			1	0	0	0	5.43	5.43	0.00
		Average				0	0	0	5.43	5.43	0.00
01/21/19		Total			1	0	0	0	7.62	7.62	0.00
		Average				0	0	0	7.62	7.62	0.00
01/22/19		Total			2	0	0	0	11.34	11.34	0.00
		Average				0	0	0	5.67	5.67	0.00
01/24/19		Total			2	0	0	0	17.01	17.01	0.00
		Average				0	0	0	8.51	8.51	0.00
02/01/19		Total			1	0	0	0	8.35	8.35	0.00
		Average				0	0	0	8.35	8.35	0.00
02/04/19		Total			1	0	0	0	8.27	8.27	0.00
		Average				0	0	0	8.27	8.27	0.00
02/05/19		Total			1	0	0	0	5.95	5.95	0.00
		Average				0	0	0	5.95	5.95	0.00
02/06/19		Total			1	0	0	0	9.09	9.09	0.00
		Average				0	0	0	9.09	9.09	0.00
02/11/19		Total			2	0	0	0	17.89	17.89	0.00
		Average				0	0	0	8.95	8.95	0.00
02/12/19		Total			1	0	0	0	5.58	5.58	0.00
		Average				0	0	0	5.58	5.58	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
02/19/19				Total	1	0	0	0	6.56	6.56	0.00
				Average		0	0	0	6.56	6.56	0.00
02/20/19				Total	1	0	0	0	8.46	8.46	0.00
				Average		0	0	0	8.46	8.46	0.00
02/26/19				Total	1	0	0	0	4.44	4.44	0.00
				Average		0	0	0	4.44	4.44	0.00
02/27/19				Total	1	0	0	0	6.28	6.28	0.00
				Average		0	0	0	6.28	6.28	0.00
02/28/19				Total	1	0	0	0	8.64	8.64	0.00
				Average		0	0	0	8.64	8.64	0.00
03/01/19				Total	1	0	0	0	8.38	8.38	0.00
				Average		0	0	0	8.38	8.38	0.00
03/06/19				Total	2	0	0	0	12.01	12.01	0.00
				Average		0	0	0	6.01	6.01	0.00
03/08/19				Total	1	0	0	0	6.66	6.66	0.00
				Average		0	0	0	6.66	6.66	0.00
03/11/19				Total	1	0	0	0	5.42	5.42	0.00
				Average		0	0	0	5.42	5.42	0.00
03/14/19				Total	1	0	0	0	6.59	6.59	0.00
				Average		0	0	0	6.59	6.59	0.00
03/15/19				Total	1	0	0	0	6.22	6.22	0.00
				Average		0	0	0	6.22	6.22	0.00
03/18/19				Total	1	0	0	0	6.56	6.56	0.00
				Average		0	0	0	6.56	6.56	0.00
03/19/19				Total	1	0	0	0	8.53	8.53	0.00
				Average		0	0	0	8.53	8.53	0.00
03/25/19				Total	1	0	0	0	6.31	6.31	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	6.31	6.31	0.00
03/27/19				Total	1	0	0	0	6.02	6.02	0.00
				Average		0	0	0	6.02	6.02	0.00
03/28/19				Total	1	0	0	0	9.17	9.17	0.00
				Average		0	0	0	9.17	9.17	0.00
04/01/19				Total	2	0	0	0	16.62	16.62	0.00
				Average		0	0	0	8.31	8.31	0.00
04/02/19				Total	1	0	0	0	6.78	6.78	0.00
				Average		0	0	0	6.78	6.78	0.00
04/08/19				Total	2	0	0	0	12.84	12.84	0.00
				Average		0	0	0	6.42	6.42	0.00
04/10/19				Total	1	0	0	0	5.59	5.59	0.00
				Average		0	0	0	5.59	5.59	0.00
04/16/19				Total	2	0	0	0	11.06	11.06	0.00
				Average		0	0	0	5.53	5.53	0.00
04/18/19				Total	1	0	0	0	5.97	5.97	0.00
				Average		0	0	0	5.97	5.97	0.00
04/23/19				Total	1	0	0	0	7.57	7.57	0.00
				Average		0	0	0	7.57	7.57	0.00
04/24/19				Total	1	0	0	0	6.31	6.31	0.00
				Average		0	0	0	6.31	6.31	0.00
04/29/19				Total	1	0	0	0	5.30	5.30	0.00
				Average		0	0	0	5.30	5.30	0.00
04/30/19				Total	1	0	0	0	5.26	5.26	0.00
				Average		0	0	0	5.26	5.26	0.00
05/01/19				Total	1	0	0	0	6.40	6.40	0.00
				Average		0	0	0	6.40	6.40	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
05/02/19		Total			2	0	0	0	14.13	14.13	0.00
		Average				0	0	0	7.07	7.07	0.00
05/08/19		Total			1	0	0	0	11.31	11.31	0.00
		Average				0	0	0	11.31	11.31	0.00
05/09/19		Total			1	0	0	0	8.39	8.39	0.00
		Average				0	0	0	8.39	8.39	0.00
05/10/19		Total			1	0	0	0	7.30	7.30	0.00
		Average				0	0	0	7.30	7.30	0.00
05/15/19		Total			1	0	0	0	10.82	10.82	0.00
		Average				0	0	0	10.82	10.82	0.00
05/17/19		Total			1	0	0	0	6.41	6.41	0.00
		Average				0	0	0	6.41	6.41	0.00
05/20/19		Total			1	0	0	0	4.41	4.41	0.00
		Average				0	0	0	4.41	4.41	0.00
05/23/19		Total			1	0	0	0	6.81	6.81	0.00
		Average				0	0	0	6.81	6.81	0.00
05/28/19		Total			1	0	0	0	5.49	5.49	0.00
		Average				0	0	0	5.49	5.49	0.00
05/29/19		Total			1	0	0	0	5.48	5.48	0.00
		Average				0	0	0	5.48	5.48	0.00
06/03/19		Total			1	0	0	0	6.59	6.59	0.00
		Average				0	0	0	6.59	6.59	0.00
06/04/19		Total			1	0	0	0	6.20	6.20	0.00
		Average				0	0	0	6.20	6.20	0.00
06/05/19		Total			1	0	0	0	6.59	6.59	0.00
		Average				0	0	0	6.59	6.59	0.00
06/07/19		Total			2	0	0	0	6.44	6.44	0.00
		Average				0	0	0	3.22	3.22	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
06/11/19				Total	1	0	0	0	7.95	7.95	0.00
				Average		0	0	0	7.95	7.95	0.00
06/12/19				Total	1	0	0	0	7.84	7.84	0.00
				Average		0	0	0	7.84	7.84	0.00
06/14/19				Total	1	0	0	0	6.95	6.95	0.00
				Average		0	0	0	6.95	6.95	0.00
06/18/19				Total	1	0	0	0	7.10	7.10	0.00
				Average		0	0	0	7.10	7.10	0.00
06/21/19				Total	1	0	0	0	9.24	9.24	0.00
				Average		0	0	0	9.24	9.24	0.00
06/25/19				Total	1	0	0	0	6.54	6.54	0.00
				Average		0	0	0	6.54	6.54	0.00
06/28/19				Total	1	0	0	0	5.59	5.59	0.00
				Average		0	0	0	5.59	5.59	0.00
07/06/19				Total	1	0	0	0	8.42	8.42	0.00
				Average		0	0	0	8.42	8.42	0.00
07/08/19				Total	1	0	0	0	7.71	7.71	0.00
				Average		0	0	0	7.71	7.71	0.00
07/15/19				Total	1	0	0	0	9.01	9.01	0.00
				Average		0	0	0	9.01	9.01	0.00
07/18/19				Total	1	0	0	0	5.00	5.00	0.00
				Average		0	0	0	5.00	5.00	0.00
07/19/19				Total	1	0	0	0	6.18	6.18	0.00
				Average		0	0	0	6.18	6.18	0.00
07/22/19				Total	1	0	0	0	7.51	7.51	0.00
				Average		0	0	0	7.51	7.51	0.00
07/29/19				Total	1	0	0	0	10.81	10.81	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	0	0	10.81	10.81	0.00
08/01/19				Total	1	0	0	0	14.74	14.74	0.00
				Average		0	0	0	14.74	14.74	0.00
08/05/19				Total	1	0	0	0	18.73	18.73	0.00
				Average		0	0	0	18.73	18.73	0.00
08/12/19				Total	1	0	0	0	9.68	9.68	0.00
				Average		0	0	0	9.68	9.68	0.00
08/14/19				Total	1	0	0	0	8.90	8.90	0.00
				Average		0	0	0	8.90	8.90	0.00
08/22/19				Total	1	0	0	0	8.59	8.59	0.00
				Average		0	0	0	8.59	8.59	0.00
08/23/19				Total	1	0	0	0	9.60	9.60	0.00
				Average		0	0	0	9.60	9.60	0.00
08/26/19				Total	1	0	0	0	9.56	9.56	0.00
				Average		0	0	0	9.56	9.56	0.00
08/27/19				Total	1	0	0	0	9.82	9.82	0.00
				Average		0	0	0	9.82	9.82	0.00
08/28/19				Total	1	0	0	0	6.75	6.75	0.00
				Average		0	0	0	6.75	6.75	0.00
09/18/19				Total	1	0	0	0	8.99	8.99	0.00
				Average		0	0	0	8.99	8.99	0.00
09/20/19				Total	1	0	0	0	8.75	8.75	0.00
				Average		0	0	0	8.75	8.75	0.00
09/24/19				Total	1	0	0	0	8.13	8.13	0.00
				Average		0	0	0	8.13	8.13	0.00
09/27/19				Total	1	0	0	0	9.06	9.06	0.00
				Average		0	0	0	9.06	9.06	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
10/01/19		Total			1	0	0	0	8.08	8.08	0.00
		Average				0	0	0	8.08	8.08	0.00
10/02/19		Total			1	0	0	0	8.37	8.37	0.00
		Average				0	0	0	8.37	8.37	0.00
10/10/19		Total			1	0	0	0	11.96	11.96	0.00
		Average				0	0	0	11.96	11.96	0.00
10/17/19		Total			1	0	0	0	7.78	7.78	0.00
		Average				0	0	0	7.78	7.78	0.00
10/18/19		Total			2	0	0	0	17.53	17.53	0.00
		Average				0	0	0	8.77	8.77	0.00
10/21/19		Total			1	0	0	0	7.82	7.82	0.00
		Average				0	0	0	7.82	7.82	0.00
10/28/19		Total			1	0	0	0	8.93	8.93	0.00
		Average				0	0	0	8.93	8.93	0.00
11/01/19		Total			1	0	0	0	7.84	7.84	0.00
		Average				0	0	0	7.84	7.84	0.00
11/07/19		Total			1	0	0	0	10.45	10.45	0.00
		Average				0	0	0	10.45	10.45	0.00
11/11/19		Total			1	0	0	0	9.72	9.72	0.00
		Average				0	0	0	9.72	9.72	0.00
11/15/19		Total			1	0	0	0	8.95	8.95	0.00
		Average				0	0	0	8.95	8.95	0.00
11/18/19		Total			1	0	0	0	10.32	10.32	0.00
		Average				0	0	0	10.32	10.32	0.00
11/20/19		Total			1	0	0	0	7.91	7.91	0.00
		Average				0	0	0	7.91	7.91	0.00
11/21/19		Total			1	0	0	0	7.29	7.29	0.00
		Average				0	0	0	7.29	7.29	0.00

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Material Analysis Report by Date

Inbound and outbound materials for the period 01/01/2019 - 12/31/2019

Summary Report for Sites: 0, 1, 2, 3

Accounts 0 - 999999 Customer Types - Z Materials O-RCC - O-RCC Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
11/25/19				Total	1	0	0	0	7.77	7.77	0.00
				Average		0	0	0	7.77	7.77	0.00
11/26/19				Total	1	0	0	0	6.94	6.94	0.00
				Average		0	0	0	6.94	6.94	0.00
11/27/19				Total	1	0	0	0	9.64	9.64	0.00
				Average		0	0	0	9.64	9.64	0.00
12/02/19				Total	1	0	0	0	5.00	5.00	0.00
				Average		0	0	0	5.00	5.00	0.00
12/05/19				Total	2	0	0	0	13.71	13.71	0.00
				Average		0	0	0	6.86	6.86	0.00
12/06/19				Total	1	0	0	0	6.89	6.89	0.00
				Average		0	0	0	6.89	6.89	0.00
12/10/19				Total	1	0	0	0	8.25	8.25	0.00
				Average		0	0	0	8.25	8.25	0.00
12/11/19				Total	1	0	0	0	7.00	7.00	0.00
				Average		0	0	0	7.00	7.00	0.00
12/17/19				Total	2	0	0	0	18.94	18.94	0.00
				Average		0	0	0	9.47	9.47	0.00
				Report Total	118	0	0	0	891.19	891.19	0.00
				Report Average		0	0	0	7.55	7.55	0.00