



# 2016 ANNUAL REPORT



Submitted February 28, 2017



## South Bay Recycling, LLC

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February 27, 2017

Joe La Mariana  
Executive Director  
SBWMA/Rethink Waste  
610 Elm Street, Suite 202  
San Carlos, CA 94070

Dear Mr. La Mariana:

Enclosed is a copy of the South Bay Recycling's 2016 Annual Report. South Bay Recycling will send electronic copies to each jurisdiction.

In accordance with the requirements of our Operating Agreement, the undersigned hereby certifies, under penalty of perjury, that the report submitted herewith is true and correct to the best knowledge of the undersigned after reasonable inquiry.

If you should have any questions or require additional information, please call me at (650) 802-8355.

Sincerely,

*Dwight E Herring*

Dwight E Herring  
General Manager

cc: Hilary Gans  
Farouk Fakira

# **SOUTH BAY RECYCLING**

## **ANNUAL REPORT TO THE SBWMA**

**FOR YEAR  
2016**

**Submitted  
February 27, 2017**

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## 2016 ANNUAL REPORT

### DEFINITIONS

**Municipal Solid Waste (MSW)** – MSW delivered to the Shoreway Facility is delivered by the following sources: Recology of San Mateo County; Member Agency Vehicles; Public Self-Hauled; Maintenance Facilities from Recology of San Mateo County and South Bay Recycling; and, Contracted Non-Franchised Haulers.

**Bulky Item/Reusable/Recoverable Materials** – Recyclable materials recovered by Sorters from various waste streams. These items include, but are not limited to: electronic waste, cardboard, mixed rigid plastics, scrap metal, reusable furnishings, appliances, clothing, etc.

**Organics Materials** – Compostable materials such as food scraps, food-soiled paper fiber, wood and other plant materials collected Recology of San Mateo County from residential, commercial and multi-family complexes and delivered to the Shoreway Facility; and/or wood and other plant materials delivered to the Shoreway Facility by the public.

**Inert/C&D Materials** – Mixed Dirt, Cement, Rock, and other Construction and Demolition Debris delivered to the Shoreway Facility by the public.

**Recycling Materials** – Cardboard, Newspaper, Mixed Paper and Bottles and Cans collected by Recology of San Mateo County from residential, commercial and multi-family complexes and delivered to the Materials Recovery Facility for processing; and/or Recyclable materials delivered to the Public Recycling/Drop-Off Center by the public.



## 2016 ANNUAL REPORT OPERATIONS SUMMARY

Total municipal solid waste tonnage received:	223,733
Total bulky item, reusable, recoverable tonnage received:	1,442
Total organic tonnage received:	110,657
Total inert and C&D tonnage received:	43,846
Total recyclable tonnage received:	<u>98,171</u>
<b>Total tonnage received into Shoreway Facility:</b>	<b>477,850</b>
Total tonnage received into Transfer Station:	379,679
Total tonnage received into MRF:	98,171
Total tonnage disposed:	223,733
Total tonnage diverted:	254,117
<b>Overall Calculated Diversion Rate:</b>	<b>53%</b>
<b>Recyclables to Third-Party Processors</b>	
Green Waste Recovery	19,321
Newby Island	4,180
California Waste Solutions	<u>1,446</u>
<b>Total Recyclables to Third-Party Processors</b>	<b>24,947</b>



# OPERATING STATISTICS

Schedule 1  
Shoreway Facility Inbound Summary Report  
2016

	Q1	Q2	Q3	Q4	YTD
<b>FRANCHISED INBOUND TONS (RECOLOGY)</b>					
Municipal Solid Waste	45,425.19	44,688.55	45,381.43	45,362.66	180,857.83
Recyclables	18,954.35	18,174.31	18,179.44	19,531.80	74,839.90
Bulky Recyclables	61.50	106.52	155.50	144.17	467.69
Other Franchise Diversion from TS	11.11	9.81	8.65	9.93	39.50
Household Batteries	10.10	9.65	11.21	11.22	42.18
Green/Organics	25,939.80	26,245.49	24,491.16	26,994.72	103,671.17
Inerts/C&D	677.48	491.30	472.12	325.56	1,966.46
Subtotal - Disposed	45,425.19	44,688.55	45,381.43	45,362.66	180,857.83
Subtotal - Diverted	45,654.34	45,037.08	43,318.08	47,017.40	181,026.90
Subtotal - Diversion Percentage	<b>50%</b>	<b>50%</b>	<b>49%</b>	<b>51%</b>	<b>50%</b>
<b>OVERALL TOTAL</b>	<b>91,079.53</b>	<b>89,725.63</b>	<b>88,699.51</b>	<b>92,380.06</b>	<b>361,884.73</b>
<b>MEMBER AGENCY VEHICLES INBOUND TONS</b>					
Municipal Solid Waste	158.49	175.38	232.29	233.57	799.73
Recyclables	-	-	0.06	-	0.06
Green/Organics	103.36	68.53	94.44	80.01	346.34
Inerts/C&D	242.33	585.96	877.20	622.92	2,328.41
Tires	-	-	-	-	-
Subtotal - Disposed	158.49	175.38	232.29	233.57	799.73
Subtotal - Diverted	345.69	654.49	971.70	702.93	2,674.81
Subtotal - Diversion Percentage	<b>69%</b>	<b>79%</b>	<b>81%</b>	<b>75%</b>	<b>77%</b>
<b>OVERALL TOTAL</b>	<b>504.18</b>	<b>829.87</b>	<b>1,203.99</b>	<b>936.50</b>	<b>3,474.54</b>
<b>RECOLOGY MAINTENANCE BOX TONS</b>					
Municipal Solid Waste	96.09	102.64	118.45	77.37	394.55
Recyclables	10.16	8.19	8.97	5.79	33.11
Green/Organics	12.46	9.46	10.66	5.48	38.06
Inerts/C&D	-	-	-	-	-
Tires	0.21	-	-	-	0.21
Subtotal - Disposed	96.09	102.64	118.45	77.37	394.55
Subtotal - Diverted	22.83	17.65	19.63	11.27	71.38
Subtotal - Diversion Percentage	<b>19%</b>	<b>15%</b>	<b>14%</b>	<b>13%</b>	<b>15%</b>
<b>OVERALL TOTAL</b>	<b>118.92</b>	<b>120.29</b>	<b>138.08</b>	<b>88.64</b>	<b>465.93</b>
<b>SUBTOTAL: RECOLOGY FRANCHISE SUMMARY TOI</b>					
Municipal Solid Waste	45,679.77	44,966.57	45,732.17	45,673.60	182,052.11
Recyclables	19,026.01	18,289.02	18,343.97	19,681.76	75,340.76
Green/Organics	26,055.62	26,323.48	24,596.26	27,080.21	104,055.57
Inerts/C&D	919.81	1,077.26	1,349.32	948.48	4,294.87
Tires	0.21	-	-	-	-
Subtotal - Disposed	45,679.77	44,966.57	45,732.17	45,673.60	182,052.11
Subtotal - Diverted	46,001.44	45,689.76	44,289.55	47,710.45	183,691.20
Subtotal - Diversion Percentage	<b>50%</b>	<b>50%</b>	<b>49%</b>	<b>51%</b>	<b>50%</b>
<b>OVERALL TOTAL</b>	<b>91,681.21</b>	<b>90,656.33</b>	<b>90,021.72</b>	<b>93,384.05</b>	<b>365,743.31</b>
<b>SELF HAUL TONS</b>					
Municipal Solid Waste - Calculated	7,989.58	8,848.72	7,094.28	6,565.32	30,497.90
Recyclables to MRF	19.96	13.79	18.01	8.01	59.77
Self Haul Diversion	243.96	203.00	280.98	207.49	935.43
Green/Organics - Calculated	1,022.49	1,069.23	2,346.24	1,216.49	5,654.45
C&D - Calculated	5,415.55	6,446.42	7,575.64	6,574.08	26,011.69
Inerts	1,973.86	2,902.22	3,055.70	2,213.21	10,144.99
Subtotal - Disposed	7,989.58	8,848.72	7,094.28	6,565.32	30,497.90
Subtotal - Diverted	8,675.82	10,634.65	13,276.57	10,219.28	42,806.32
Subtotal - Diversion Percentage	<b>52%</b>	<b>55%</b>	<b>65%</b>	<b>61%</b>	<b>58%</b>
<b>OVERALL TOTAL</b>	<b>16,665.40</b>	<b>19,483.37</b>	<b>20,370.85</b>	<b>16,784.60</b>	<b>73,304.22</b>
<b>BUYBACK &amp; DROP-OFF TONS</b>					
Purchased CRV Recyclables	219.98	243.15	229.16	193.66	885.95
Purchased Cardboard	178.35	143.66	44.06	-	366.07
Drop-Off Materials	239.91	279.46	269.07	248.57	1,037.01
<b>OVERALL TOTAL</b>	<b>638.24</b>	<b>666.27</b>	<b>542.29</b>	<b>442.23</b>	<b>2,289.03</b>
<b>SOUTH BAY INTERNAL TONS</b>					
Solid Waste from Facility & Street Cleanup	2.46	8.65	13.02	2.09	26.22
Residual from Recyclables	2,929.10	3,014.90	2,287.67	-	8,231.67
SBR Shop Box	0.05	0.03	0.02	0.04	0.14
Green/Organics	-	-	-	-	-
Inerts/C&D	-	-	-	-	-
Subtotal - Disposed	<b>2,931.56</b>	<b>3,023.55</b>	<b>2,300.69</b>	<b>2.09</b>	<b>8,257.89</b>
Subtotal - Diverted	<b>0.05</b>	<b>0.03</b>	<b>0.02</b>	<b>0.04</b>	<b>0.14</b>
Subtotal - Diversion Percentage	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>2%</b>	<b>0%</b>
<b>OVERALL TOTAL</b>	<b>2,931.61</b>	<b>3,023.58</b>	<b>2,300.71</b>	<b>2.13</b>	<b>8,258.03</b>
<b>SUBTOTAL: SELF HAUL/BUYBACK SBR INTERNAL</b>					
Municipal Solid Waste	10,921.14	11,872.27	9,394.97	6,567.41	38,755.79
Recyclables	658.25	680.09	560.32	450.28	2,348.94
Green/Organics	1,022.49	1,069.23	2,346.24	1,216.49	5,654.45
Inerts/C&D	7,389.41	9,348.64	10,631.34	8,787.29	36,156.68
Subtotal - Disposed	<b>10,921.14</b>	<b>11,872.27</b>	<b>9,394.97</b>	<b>6,567.41</b>	<b>38,755.79</b>
Subtotal - Diverted	<b>9,070.15</b>	<b>11,097.96</b>	<b>13,537.90</b>	<b>10,454.06</b>	<b>44,160.07</b>
Subtotal - Diversion Percentage	<b>45%</b>	<b>48%</b>	<b>59%</b>	<b>61%</b>	<b>53%</b>
<b>OVERALL TOTAL</b>	<b>19,991.29</b>	<b>22,970.23</b>	<b>22,932.87</b>	<b>17,021.47</b>	<b>82,915.86</b>

Schedule 1  
 Shoreway Facility Inbound Summary Report  
 2016

	Q1	Q2	Q3	Q4	YTD
<b>NON-FRANCHISE TONS</b>					
Municipal Solid Waste	690.39	752.36	844.75	637.74	2,925.24
Third Party Non-Contracted Recyclables	19.76	23.79	19.56	11.80	74.91
Third Party Contracted Recyclables	7,502.77	7,241.91	5,536.66	125.50	20,406.84
Green/Organics	13.88	3.95	301.94	627.37	947.14
Inerts/C&D	1,056.17	955.66	622.63	760.28	3,394.74
Subtotal - Disposed	<b>690.39</b>	<b>752.36</b>	<b>844.75</b>	<b>637.74</b>	<b>2,925.24</b>
Subtotal - Diverted	<b>8,592.58</b>	<b>8,225.31</b>	<b>6,480.79</b>	<b>1,524.95</b>	<b>24,823.63</b>
Subtotal - Diversion Percentage	<b>86%</b>	<b>85%</b>	<b>79%</b>	<b>54%</b>	<b>81%</b>
<b>OVERALL TOTAL</b>	<b>9,282.97</b>	<b>8,977.67</b>	<b>7,325.54</b>	<b>2,162.69</b>	<b>27,748.87</b>
<b>OVERALL TOTAL FACILITY TONS</b>					
Municipal Solid Waste	57,291.30	57,591.20	55,971.89	52,878.75	223,733.14
Recyclables	27,206.80	26,234.81	24,460.51	20,269.34	98,171.46
Recycling TS (Bulky, Franchise, TS Diversion)	316.78	319.33	445.13	361.59	1,442.83
Green/Organics	27,091.99	27,396.66	27,244.44	28,924.07	110,657.16
Inerts/C&D	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
Subtotal - Disposed	<b>57,291.30</b>	<b>57,591.20</b>	<b>55,971.89</b>	<b>52,878.75</b>	<b>223,733.14</b>
Subtotal - Diverted	<b>63,980.96</b>	<b>65,332.36</b>	<b>64,753.37</b>	<b>60,051.05</b>	<b>254,117.74</b>
Subtotal - Diversion Percentage	<b>53%</b>	<b>53%</b>	<b>54%</b>	<b>53%</b>	<b>53%</b>
<b>OVERALL TOTAL</b>	<b>121,272.26</b>	<b>122,923.56</b>	<b>120,725.26</b>	<b>112,929.80</b>	<b>477,850.88</b>
<b>TRANSFER STATION &amp; MRF VOLUME SUMMARY</b>					
Total Transfer Station Volume	94,065.46	96,688.75	96,264.75	92,660.46	379,679.42
Total MRF Volume	27,206.80	26,234.81	24,460.51	20,269.34	98,171.46
<b>OVERALL TOTAL</b>	<b>121,272.26</b>	<b>122,923.56</b>	<b>120,725.26</b>	<b>112,929.80</b>	<b>477,850.88</b>

**Schedule 2  
Shoreway Facility Outbound Summary Report  
2016**

	Q1	Q2	Q3	Q4	YTD
<b>MUNICIPAL SOLID WASTE (MSW) - OUTBOUND TONS</b>					
Ox Mountain Solid Waste	57,198.01	57,454.00	55,852.46	52,878.75	223,383.22
Kettleman Hills LF (Glass Residue)	93.50	137.20	119.43	-	350.13
Other Landfill Solid Waste	-	-	-	-	-
<b>TOTAL MSW</b>	<b>57,291.51</b>	<b>57,591.20</b>	<b>55,971.89</b>	<b>52,878.75</b>	<b>223,733.35</b>
<b>INERT MATERIALS (C&amp;D / INERTS) - OUTBOUND TONS</b>					
Zanker Road C&D	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
Ox Mountain Inert Material	-	-	-	-	-
<b>TOTAL C&amp;D / INERTS</b>	<b>9,365.39</b>	<b>11,381.56</b>	<b>12,603.29</b>	<b>10,496.05</b>	<b>43,846.29</b>
<b>ORANICS / GREEN WASTE / FOOD WASTE - OUTBOUND TONS</b>					
Recology Grover Food	-	-	-	-	-
Recology Grover Green/Organics	11,164.64	11,959.99	15,797.37	21,248.74	60,170.74
Republic Newby Island Food	-	-	-	-	-
Republic Newby Island Green/Organics	14,998.42	14,196.54	10,404.40	6,967.27	46,566.63
Biofuel Systems Green Waste	396.82	1,240.13	1,042.67	708.06	3,387.68
Zanker Road Green Waste	532.11	-	-	-	532.11
Harvest Power Organics	-	-	-	-	-
<b>TOTAL ORGANICS / GREEN / FOOD WASTE</b>	<b>27,091.99</b>	<b>27,396.66</b>	<b>27,244.44</b>	<b>28,924.07</b>	<b>110,657.16</b>
<b>OTHER DIVERSION - OUTBOUND TONS</b>					
Scrap Metal	159.03	155.22	223.32	178.67	716.24
Refrigerators	31.70	42.24	52.90	45.47	172.31
Electronic Materials	98.89	97.06	113.51	81.26	390.72
Mattresses	19.48	20.79	45.81	47.37	133.45
Tires	7.47	4.02	9.59	8.82	29.90
Cardboard (outbound from Transfer to MRF)	12.70	6.48	9.48	6.75	35.41
Mixed Plastic (outbound from Transfer to MRF)	7.26	7.31	8.53	1.26	24.36
Carpet	-	-	-	-	-
Reusables	-	-	-	-	-
<b>TOTAL OTHER DIVERSION</b>	<b>336.53</b>	<b>333.12</b>	<b>463.14</b>	<b>369.60</b>	<b>1,502.39</b>
<b>MATERIALS RECOVERY FACILITY &amp; PUBLIC RECYCLING CENTER</b>					
Recyclable Fiber	16,656.05	15,789.32	12,051.40	-	44,496.77
Recyclable Containers	6,495.22	6,795.34	5,278.01	96.51	18,665.08
MRF Residual Third Party	1,525.06	1,636.95	1,256.47	-	4,418.48
MRF Residual Franchise	1,404.04	1,377.95	1,031.20	-	3,813.19
Drop-Off	78.34	113.86	81.14	82.76	356.10
<b>TOTAL MRF &amp; PUBLIC RECYCLING CENER</b>	<b>26,158.71</b>	<b>25,713.42</b>	<b>19,698.22</b>	<b>179.27</b>	<b>71,749.62</b>
<b>SHOREWAY FACILITY SUMMARY</b>					
Municipal Solid Waste	57,291.51	57,591.20	55,971.89	52,878.75	223,733.35
MRF Recyclables	26,158.71	25,713.42	19,698.22	179.27	71,749.62
MRF/PRC Inventory (+/-)	1,048.09	521.39	4,762.29	20,090.07	26,421.83
TS Recyclables	336.53	333.12	463.14	369.60	1,502.39
Green/Organics	27,091.99	27,396.66	27,244.44	28,924.07	110,657.16
Inerts/C&D	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
<b>OVERALL TOTAL</b>	<b>121,292.22</b>	<b>122,937.35</b>	<b>120,743.27</b>	<b>112,937.81</b>	<b>477,910.65</b>
<b>SHOREWAY FACILITY DIVERSION TOTAL</b>	<b>51.90%</b>	<b>52.73%</b>	<b>49.70%</b>	<b>35.39%</b>	<b>47.66%</b>
Total Transfer Station Outbound	94,085.42	96,702.54	96,282.76	92,668.47	379,739.19
Total MRF Outbound	27,206.80	26,234.81	24,460.51	20,269.34	98,171.46
<b>SHOREWAY FACILITY OUTBOUND TOTAL</b>	<b>121,292.22</b>	<b>122,937.35</b>	<b>120,743.27</b>	<b>112,937.81</b>	<b>477,910.65</b>

**Schedule 3  
Shoreway Facility Mass Balance Summary  
2016**

	Q1	Q2	Q3	Q4	YTD
<b>INBOUND TRANSFER STATION TONS</b>					
Total Inbound Franchise Transfer Tons	72,115.08	71,541.67	70,508.86	72,837.04	287,002.65
Total Inbound Member Agency Transfer Station Tons	504.18	829.87	1,203.93	936.50	3,474.48
Total Inbound Recology Maintenance Box Tons	108.76	112.10	129.11	82.85	432.82
Total Inbound SBR Maintenance Box Tons-Inert	-	-	-	-	-
Total Inbound SBR Maintenance Box Tons-Organics	-	-	-	-	-
Total Inbound SBR Maintenance Box Tons-MSW	2.46	8.65	13.02	2.09	26.22
Total Inbound South Bay MRF Residue	2,929.10	3,014.90	2,287.67	-	8,231.67
Total Inbound Self-Haul Inerts Tons	1,973.86	2,902.22	3,055.70	2,213.21	10,144.99
Total Inbound Third Party Tons	1,760.44	1,711.97	1,769.32	2,025.39	7,267.12
TOTAL INBOUND TRANSFER	79,393.88	80,121.39	78,967.61	78,097.08	316,579.96
TOTAL INBOUND CALCULATED SELF-HAUL	14,691.54	16,581.15	17,315.15	14,571.39	63,159.23
<b>TOTAL INBOUND TONS INCLUDING CALCULATED SELF HAUL</b>	<b>94,085.42</b>	<b>96,702.54</b>	<b>96,282.76</b>	<b>92,668.47</b>	<b>379,739.19</b>
<b>TOTAL INBOUND TRANSFER TONS LESS MRF RESIDUE</b>	<b>76,464.78</b>	<b>77,106.49</b>	<b>76,679.94</b>	<b>78,097.08</b>	<b>308,348.29</b>
<b>OUTBOUND TRANSFER STATION TONS</b>					
Outbound Solid Waste Tons	57,291.51	57,591.20	55,971.89	52,878.75	223,733.35
Outbound Green/Organic Tons	27,091.99	27,396.66	27,244.44	28,924.07	110,657.16
Outbound Inerts and C&D Tons	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
Outbound Transfer Diversion	263.92	216.79	298.99	215.50	995.20
Outbound Franchise Transfer Station Diversion	11.11	9.81	8.65	9.93	39.50
Outbound Bulky Item Collection Diversion	61.50	106.52	155.50	144.17	467.69
<b>TOTAL OUTBOUND SEC TRANSFER STATION TONS</b>	<b>94,085.42</b>	<b>96,702.54</b>	<b>96,282.76</b>	<b>92,668.47</b>	<b>379,739.19</b>
<b>TRANSFER STATION MASS BALANCE</b>	-	-	-	-	-
<b>INBOUND MRF / BUY-BACK TONS</b>					
Total Inbound Franchise MRF Tons	18,954.35	18,174.31	18,179.44	19,531.80	74,839.90
Total Inbound Member Agency Vehicles	-	-	0.06	-	0.06
Total Inbound Recology Maintenance Boxes	10.16	8.19	8.97	5.79	33.11
Total Inbound SBR Maintenance Recyclables	0.05	0.03	0.02	0.04	0.14
Total Inbound Transfer (OCC & Mixed Plastic) Tons	19.96	13.79	18.01	8.01	59.77
Total Inbound Non-Franchise Recyclable Material Tons	19.76	23.79	19.56	11.80	74.91
Total Inbound Contracted Single Stream Recyclables	7,502.77	7,241.91	5,536.66	125.50	20,406.84
Total Inbound Drop-Off Material Tons	224.14	236.91	257.41	212.72	931.18
Total Inbound Clean OCC <1000 lbs.	34.74	32.13	17.73	-	84.60
Total Inbound Clean OCC >1000 lbs.	143.61	111.53	26.33	-	281.47
Total Inbound Buyback Tons	143.56	243.15	229.17	193.66	809.54
TOTAL MRF/BUYBACK/DROP-OFF	27,053.10	26,085.74	24,293.36	20,089.32	97,521.52
TOTAL INBOUND MRF Inventory Variance - Calculated Tons	(934.19)	(509.52)	(4,714.57)	(19,910.05)	(26,068.32)
TOTAL INBOUND MRF / BUY-BACK TONS	26,118.91	25,576.22	19,578.79	179.27	71,453.19
<b>TOTAL INBOUND MRF/PRC TONS LESS TS OCC &amp; MIX PLASTIC &amp; CONTRACTED</b>	<b>19,530.37</b>	<b>18,830.04</b>	<b>18,738.69</b>	<b>19,955.81</b>	<b>77,054.91</b>
<b>OUTBOUND MRF / BUY-BACK TONS</b>					
Total Outbound MRF	23,151.27	22,584.66	17,329.41	96.51	63,161.85
Total Outbound Residual	2,889.30	2,877.70	2,168.24	-	7,935.24
Total Outbound Drop-Off Center Materials	78.34	113.86	81.14	82.76	356.10
<b>TOTAL OUTBOUND SEC MRF/BUYBACK STATION TONS</b>	<b>26,118.91</b>	<b>25,576.22</b>	<b>19,578.79</b>	<b>179.27</b>	<b>71,453.19</b>
<b>MRF &amp; BUY-BACK MASS BALANCE</b>	-	-	-	(0.00)	-
<b>OVERALL SEC MASS BALANCE</b>					
TOTAL SEC INBOUND TONS	120,204.33	122,278.76	115,861.55	92,847.74	451,192.38
TOTAL SEC OUTBOUND TONS	120,204.33	122,278.76	115,861.55	92,847.74	451,192.38
OVERALL MASS BALANCE	-	-	-	-	-

**Schedule 4**  
**Shoreway Facility Material Movement**  
**2016**

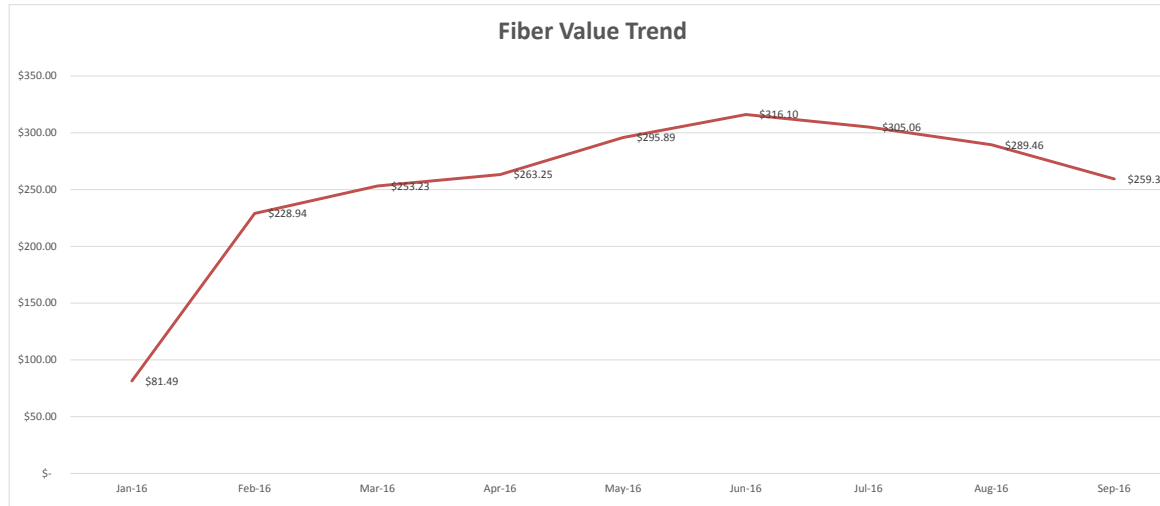
Material Movement	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>YTD</b>
Cardboard (From Transfer to MRF)	12.70	6.48	9.48	6.75	35.41
Mixed Plastic (From Transfer to MRF)	7.26	7.31	8.53	1.26	24.36
MRF Residual Third Party	1,525.06	1,636.95	1,256.47	-	4,418.48
MRF Residual Franchise	1,404.04	1,377.95	1,031.20	-	3,813.19
<b>Total Material Movement</b>	<b>2,949.06</b>	<b>3,028.69</b>	<b>2,305.68</b>	<b>8.01</b>	<b>8,291.44</b>

**Schedule 5  
Shoreway Facility Disposal Diversion Report  
2016**

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>YTD</b>
<b>RECOLOGY FRANCHISE SUMMARY TONS</b>					
Subtotal - Disposed	45,679.77	44,966.57	45,732.17	45,673.60	182,052.11
Subtotal - Diverted	46,001.44	45,689.76	44,289.55	47,710.45	183,691.20
Subtotal - Diversion Percentage	<b>50%</b>	<b>50%</b>	<b>49%</b>	<b>51%</b>	<b>50%</b>
<b>OVERALL TOTAL</b>	<b>91,681.21</b>	<b>90,656.33</b>	<b>90,021.72</b>	<b>93,384.05</b>	<b>365,743.31</b>
<b>SELF HAUL/BUYBACK SBR INTERNAL TONS</b>					
Subtotal - Disposed	10,921.14	11,872.27	9,394.97	6,567.41	38,755.79
Subtotal - Diverted	9,070.15	11,097.96	13,537.90	10,454.06	44,160.07
Subtotal - Diversion Percentage	<b>45%</b>	<b>48%</b>	<b>59%</b>	<b>61%</b>	<b>53%</b>
<b>OVERALL TOTAL</b>	<b>19,991.29</b>	<b>22,970.23</b>	<b>22,932.87</b>	<b>17,021.47</b>	<b>82,915.86</b>
<b>NON-FRANCHISE TONS</b>					
Subtotal - Disposed	690.39	752.36	844.75	637.74	2,925.24
Subtotal - Diverted	8,592.58	8,225.31	6,480.79	1,524.95	24,823.63
Subtotal - Diversion Percentage	<b>86%</b>	<b>85%</b>	<b>79%</b>	<b>54%</b>	<b>81%</b>
<b>OVERALL TOTAL</b>	<b>9,282.97</b>	<b>8,977.67</b>	<b>7,325.54</b>	<b>2,162.69</b>	<b>27,748.87</b>
<b>OVERALL TOTAL FACILITY TONS</b>					
Subtotal - Disposed	57,291.30	57,591.20	55,971.89	52,878.75	223,733.14
Subtotal - Diverted	63,980.96	65,332.36	64,753.37	60,051.05	254,117.74
Subtotal - Diversion Percentage	<b>53%</b>	<b>53%</b>	<b>54%</b>	<b>53%</b>	<b>53%</b>
<b>OVERALL TOTAL</b>	<b>121,272.26</b>	<b>122,923.56</b>	<b>120,725.26</b>	<b>112,929.80</b>	<b>477,850.88</b>

Schedule 6  
Commodity Value Trend and Market Report  
2016

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	YTD
<b>Scrap Value Per Ton</b>										
Fiber	\$ 77.29	\$ 83.09	\$ 88.43	\$ 97.39	\$ 100.41	\$ 104.35	\$ 111.08	\$ 128.53	\$ 110.69	
Plastics	\$ 81.49	\$ 228.94	\$ 253.23	\$ 263.25	\$ 295.89	\$ 316.10	\$ 305.06	\$ 289.46	\$ 259.32	
Aluminum	\$ 840.00	\$ 840.00	\$ 840.00	\$ 840.00	\$ 840.00	\$ 900.00	\$ 920.00	\$ 900.00	\$ 840.00	
Metal	\$ 35.18	\$ 37.29	\$ 41.72	\$ 62.22	\$ 102.35	\$ 65.82	\$ 66.51	\$ 68.09	\$ 75.23	
<b>Scrap Value Variance</b>										
Fiber	\$ (11.23)	\$ 5.81	\$ 5.34	\$ 8.96	\$ 3.02	\$ 3.94	\$ 6.73	\$ 17.45	\$ (17.84)	
Plastics	\$ (147.73)	\$ 147.45	\$ 24.29	\$ 10.02	\$ 32.64	\$ 20.21	\$ (11.04)	\$ (15.61)	\$ (30.14)	
Aluminum	\$ 20.00	\$ (0.00)	\$ 0.00	\$ -	\$ -	\$ 60.00	\$ 20.00	\$ (20.00)	\$ (60.00)	
Metal	\$ 5.18	\$ 2.11	\$ 4.43	\$ 20.50	\$ 40.13	\$ (36.53)	\$ 0.69	\$ 1.59	\$ 7.13	
<b>Percentage Increase/(Decrease)</b>										
Fiber	-15%	7%	6%	9%	3%	4%	6%	14%	-16%	
Plastics	-181%	64%	10%	4%	11%	6%	-4%	-5%	-12%	
Aluminum	2%	0%	0%	0%	0%	7%	2%	-2%	-7%	
Metal	15%	6%	11%	33%	39%	-56%	1%	2%	9%	
Total Revenue - Containers	\$ 297,828.41	\$ 344,526.94	\$ 316,015.95	\$ 311,162.19	\$ 344,327.79	\$ 320,596.32	\$ 303,037.50	\$ 325,278.51	\$ 63,300.49	\$ 2,727,406.70
Total Revenue - Fiber	\$ 362,381.16	\$ 349,180.13	\$ 419,673.74	\$ 403,335.43	\$ 446,852.61	\$ 485,892.34	\$ 462,771.01	\$ 598,104.85	\$ 103,071.68	\$ 3,631,262.95
<b>Total Revenue</b>	<b>\$ 660,209.56</b>	<b>\$ 693,707.07</b>	<b>\$ 735,689.69</b>	<b>\$ 714,497.62</b>	<b>\$ 791,180.40</b>	<b>\$ 806,488.66</b>	<b>\$ 765,808.51</b>	<b>\$ 923,383.35</b>	<b>\$ 166,372.17</b>	<b>\$ 6,358,669.65</b>
Total Tons - Containers	1,438.44	1,445.21	1,572.80	1,376.28	1,478.52	1,507.37	1,366.69	1,496.44	395.73	\$ 12,174.01
Total Tons - Fiber	4,654.58	4,260.43	4,707.95	4,163.85	4,516.49	4,710.14	4,149.22	4,650.95	904.55	\$ 36,718.15
<b>Total Tons</b>	<b>6,093.02</b>	<b>5,705.65</b>	<b>6,280.75</b>	<b>5,540.14</b>	<b>5,995.01</b>	<b>6,217.51</b>	<b>5,515.91</b>	<b>6,147.39</b>	<b>1,300.28</b>	<b>\$ 48,892.16</b>
Avg Rate/Ton - Containers	\$ 207.05	\$ 238.39	\$ 200.93	\$ 226.09	\$ 232.89	\$ 212.69	\$ 221.73	\$ 217.37	\$ 159.96	\$ 224.04
Avg Rate/Ton - Fiber	\$ 77.85	\$ 81.96	\$ 89.14	\$ 96.87	\$ 98.94	\$ 103.16	\$ 111.53	\$ 128.60	\$ 113.95	\$ 98.90
<b>Total Avg Rate/Ton</b>	<b>\$ 108.36</b>	<b>\$ 121.58</b>	<b>\$ 117.13</b>	<b>\$ 128.97</b>	<b>\$ 131.97</b>	<b>\$ 129.71</b>	<b>\$ 138.84</b>	<b>\$ 150.21</b>	<b>\$ 127.95</b>	<b>\$ 130.05</b>



Note: Due to the MRF fire, SBR did not process any fiber or non-fiber commodities in Q4. The SBWMA was compensated for these materials by third-party processors. Therefore, there is no data to report during the 4th quarter.

**Schedule 7  
Transportation Efficiency Report  
2016**

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>YTD</b>
<b>TOTAL MUNICIPAL SOLID WASTE (MSW)</b>					
TONS	57,198.01	57,454.00	55,852.46	52,878.75	223,383.22
LOADS	2,202.00	2,239.00	2,170.00	2,042.00	8,653.00
AVERAGE TONS/LOAD	25.98	25.66	25.74	25.90	25.82
Loads Saved / Month (est. 22 tons/Ld.)	397.91	372.55	368.75	361.58	1,500.78
<b>TOTAL C&amp;D AND INERTS</b>					
TONS	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
LOADS	454.00	558.00	614.00	523.00	2,149.00
AVERAGE TONS/LOAD	20.63	20.40	20.53	20.07	20.40
Loads Saved / Month (est. 19 tons/Ld.)	38.92	41.03	49.33	29.42	158.70
<b>TOTAL GREEN WASTE/ORGANICS</b>					
TONS	27,091.99	27,396.66	27,244.44	28,924.07	110,657.16
LOADS	1,118.00	1,116.00	1,107.00	1,184.00	4,525.00
AVERAGE TONS/LOAD	24.23	24.55	24.61	24.43	24.45
Loads Saved / Month (est. 20 T/Ld.)	236.60	253.83	255.22	262.20	1,007.86
<b>OVERALL TRUCK TRIP SAVINGS/MONTH COMPARED OVERAL TRUCK TRIP SAV/MTH COMPARED TO EST :</b>					
Miles Saved	733.89	728.14	732.34	709.10	2,903.47
Gallons of Fuels Saved	27,850.92	29,364.26	34,948.57	40,251.27	132,415.01
	6,962.73	7,341.07	8,737.14	10,062.82	33,103.75
Pounds of CO2 savings (22.2 lbs./gal of fuel)	154,572.59	162,971.65	193,964.55	223,394.54	734,903.33
Pounds of Carbon savings (6.12 lbs./gal of fuel)	42,611.90	44,927.32	53,471.31	61,584.44	202,594.97

Schedule 8  
 Member Agency Tonnage Report  
 2016

Member Agency/Type	Data Source	Q1 Net Tons Collected	Q2 Net Tons Collected	Q3 Net Tons Collected	Q4 Net Tons Collected	YTD Net Tons Collected
<b>1 ATHERTON</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	109.81	136.05	71.32	65.55	382.74
MRF Residue	SBR	29.61	29.19	-	-	58.80
Transfer Station & Other Recycling	SBR	1.95	-	-	-	1.95
Self-Haul Green Waste	SBR	9.90	14.17	26.87	25.35	76.29
Self-Haul Inert / C&D	SBR	149.50	144.46	95.66	138.89	528.51
<b>Subtotal - Disposed</b>		<b>139.42</b>	<b>165.24</b>	<b>71.32</b>	<b>65.55</b>	<b>441.54</b>
<b>Subtotal - Diverted</b>		<b>161.34</b>	<b>158.63</b>	<b>122.53</b>	<b>164.25</b>	<b>606.75</b>
<b>Overall Subtotal</b>		<b>300.77</b>	<b>323.87</b>	<b>193.85</b>	<b>229.80</b>	<b>1,048.29</b>
<b>2 BELMONT</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	109.96	124.77	170.52	170.69	575.94
Member Agency Recycling	SBR	-	-	0.06	-	0.06
Member Agency Organics	SBR	20.63	10.50	22.21	13.91	67.25
Member Agency Inert / C&D	SBR	160.46	267.12	346.17	310.82	1,084.57
<b>Subtotal - Disposed</b>		<b>109.96</b>	<b>124.77</b>	<b>170.52</b>	<b>170.69</b>	<b>575.94</b>
<b>Subtotal - Diverted</b>		<b>181.09</b>	<b>277.62</b>	<b>368.44</b>	<b>324.73</b>	<b>1,151.88</b>
<b>Overall Subtotal</b>		<b>291.05</b>	<b>402.39</b>	<b>538.96</b>	<b>495.42</b>	<b>1,727.82</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	507.23	603.31	436.05	455.60	2,002.18
MRF Residue	SBR	80.85	76.45	-	-	157.30
Transfer Station & Other Recycling	SBR	13.81	-	-	-	13.81
Self-Haul Green Waste	SBR	19.84	10.37	18.15	7.26	55.63
Self-Haul Inert / C&D	SBR	342.89	622.60	333.90	398.58	1,697.97
<b>Subtotal - Disposed</b>		<b>588.08</b>	<b>679.76</b>	<b>436.05</b>	<b>455.60</b>	<b>2,159.49</b>
<b>Subtotal - Diverted</b>		<b>376.53</b>	<b>632.97</b>	<b>352.05</b>	<b>405.85</b>	<b>1,767.41</b>
<b>Overall Subtotal</b>		<b>964.62</b>	<b>1,312.73</b>	<b>788.10</b>	<b>861.44</b>	<b>3,926.89</b>
<b>3 BURLINGAME</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	196.51	228.01	156.38	162.50	743.39
MRF Residue	SBR	149.30	154.30	-	-	303.60
Transfer Station & Other Recycling	SBR	4.28	-	-	-	4.28
Self-Haul Green Waste	SBR	9.38	6.93	8.97	8.29	33.57
Self-Haul Inert / C&D	SBR	224.40	184.51	245.70	265.68	920.29
<b>Subtotal - Disposed</b>		<b>345.81</b>	<b>382.30</b>	<b>156.38</b>	<b>162.50</b>	<b>1,046.98</b>
<b>Subtotal - Diverted</b>		<b>238.06</b>	<b>191.44</b>	<b>254.67</b>	<b>273.98</b>	<b>958.14</b>
<b>Overall Subtotal</b>		<b>583.87</b>	<b>573.74</b>	<b>411.04</b>	<b>436.47</b>	<b>2,005.12</b>

Schedule 8  
 Member Agency Tonnage Report  
 2016

Member Agency/Type	Data Source	Q1 Net Tons Collected	Q2 Net Tons Collected	Q3 Net Tons Collected	Q4 Net Tons Collected	YTD Net Tons Collected
<b>4 EAST PALO ALTO</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	137.79	144.27	124.10	120.83	526.99
MRF Residue	SBR	58.02	84.10	-	-	142.12
Transfer Station & Other Recycling	SBR	2.27	-	-	-	2.27
Self-Haul Green Waste	SBR	5.28	8.75	11.80	2.32	28.15
Self-Haul Inert / C&D	SBR	106.18	185.67	154.82	219.08	665.75
<b>Subtotal - Disposed</b>		<b>195.81</b>	<b>228.37</b>	<b>124.10</b>	<b>120.83</b>	<b>669.11</b>
<b>Subtotal - Diverted</b>		<b>113.74</b>	<b>194.42</b>	<b>166.62</b>	<b>221.40</b>	<b>696.17</b>
<b>Overall Subtotal</b>		<b>309.55</b>	<b>422.78</b>	<b>290.72</b>	<b>342.23</b>	<b>1,365.28</b>
<b>5 FOSTER CITY</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	1.39	2.20	1.80	1.51	6.90
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	35.44	7.74	20.31	40.72	104.21
Member Agency Inert / C&D	SBR	67.20	229.89	447.70	287.65	1,032.44
<b>Subtotal - Disposed</b>		<b>1.39</b>	<b>2.20</b>	<b>1.80</b>	<b>1.51</b>	<b>6.90</b>
<b>Subtotal - Diverted</b>		<b>102.64</b>	<b>237.63</b>	<b>468.01</b>	<b>328.37</b>	<b>1,136.65</b>
<b>Overall Subtotal</b>		<b>104.03</b>	<b>239.83</b>	<b>469.81</b>	<b>329.88</b>	<b>1,143.55</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	184.04	189.42	154.92	137.48	665.86
MRF Residue	SBR	75.81	39.29	-	-	115.11
Transfer Station & Other Recycling	SBR	5.41	-	-	-	5.41
Self-Haul Green Waste	SBR	5.96	4.80	5.70	6.51	22.98
Self-Haul Inert / C&D	SBR	142.54	284.75	199.86	259.20	886.35
<b>Subtotal - Disposed</b>		<b>259.86</b>	<b>228.72</b>	<b>154.92</b>	<b>137.48</b>	<b>780.97</b>
<b>Subtotal - Diverted</b>		<b>153.91</b>	<b>289.55</b>	<b>205.57</b>	<b>265.72</b>	<b>914.75</b>
<b>Overall Subtotal</b>		<b>413.77</b>	<b>518.27</b>	<b>360.48</b>	<b>403.19</b>	<b>1,695.71</b>
<b>6 HILLSBOROUGH</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	97.82	121.21	103.30	101.62	423.96
MRF Residue	SBR	81.46	151.58	-	-	233.03
Transfer Station & Other Recycling	SBR	0.79	-	-	-	0.79
Self-Haul Green Waste	SBR	16.05	10.03	15.89	14.04	56.00
Self-Haul Inert / C&D	SBR	270.41	563.89	373.13	388.67	1,596.10
<b>Subtotal - Disposed</b>		<b>179.28</b>	<b>272.79</b>	<b>103.30</b>	<b>101.62</b>	<b>656.99</b>
<b>Subtotal - Diverted</b>		<b>287.26</b>	<b>573.92</b>	<b>389.01</b>	<b>402.71</b>	<b>1,652.90</b>
<b>Overall Subtotal</b>		<b>466.54</b>	<b>846.71</b>	<b>492.31</b>	<b>504.33</b>	<b>2,309.89</b>

**Schedule 8**  
**Member Agency Tonnage Report**  
**2016**

	Data Source	Q1 Net Tons Collected	Q2 Net Tons Collected	Q3 Net Tons Collected	Q4 Net Tons Collected	YTD Net Tons Collected
<b>7 MENLO PARK</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	387.99	474.94	275.22	266.46	1,404.61
MRF Residue	SBR	189.45	257.87	-	-	447.32
Transfer Station & Other Recycling	SBR	6.69	-	-	-	6.69
Self-Haul Green Waste	SBR	200.68	228.97	352.05	253.42	1,035.12
Self-Haul Inert / C&D	SBR	743.08	1,554.06	1,521.36	1,666.63	5,485.13
<b>Subtotal - Disposed</b>		<b>577.44</b>	<b>732.81</b>	<b>275.22</b>	<b>266.46</b>	<b>1,851.93</b>
<b>Subtotal - Diverted</b>		<b>950.45</b>	<b>1,783.03</b>	<b>1,873.42</b>	<b>1,920.04</b>	<b>6,526.94</b>
<b>Overall Subtotal</b>		<b>1,527.89</b>	<b>2,515.84</b>	<b>2,148.64</b>	<b>2,186.50</b>	<b>8,378.87</b>
<b>8 NORTH FAIR OAKS</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	-	-	-	-	-
MRF Residue	SBR	32.22	87.82	99.54	-	219.58
Transfer Station & Other Recycling	SBR	-	-	-	-	-
Self-Haul Green Waste	SBR	-	-	-	-	-
Self-Haul Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		<b>32.22</b>	<b>87.82</b>	<b>99.54</b>	-	<b>219.58</b>
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		<b>32.22</b>	<b>87.82</b>	<b>99.54</b>	-	<b>219.58</b>
<b>9 REDWOOD CITY</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	7.28	1.37	2.90	0.74	12.29
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	23.47	46.75	27.19	25.38	122.79
Member Agency Inert / C&D	SBR	-	2.26	1.41	-	3.67
<b>Subtotal - Disposed</b>		<b>7.28</b>	<b>1.37</b>	<b>2.90</b>	<b>0.74</b>	<b>12.29</b>
<b>Subtotal - Diverted</b>		<b>23.47</b>	<b>49.01</b>	<b>28.60</b>	<b>25.38</b>	<b>126.46</b>
<b>Overall Subtotal</b>		<b>30.75</b>	<b>50.38</b>	<b>31.50</b>	<b>26.12</b>	<b>138.75</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	2,212.23	2,451.53	1,935.90	1,910.66	8,510.32
MRF Residue	SBR	212.08	118.47	-	-	330.55
Transfer Station & Other Recycling	SBR	54.36	-	-	-	54.36
Self-Haul Green Waste	SBR	309.87	324.87	471.02	315.72	1,421.47
Self-Haul Inert / C&D	SBR	1,734.07	1,745.86	1,448.24	1,377.17	6,305.35
<b>Subtotal - Disposed</b>		<b>2,424.31</b>	<b>2,570.00</b>	<b>1,935.90</b>	<b>1,910.66</b>	<b>8,840.87</b>
<b>Subtotal - Diverted</b>		<b>2,098.31</b>	<b>2,070.73</b>	<b>1,919.26</b>	<b>1,692.89</b>	<b>7,781.19</b>
<b>Overall Subtotal</b>		<b>4,522.62</b>	<b>4,640.73</b>	<b>3,855.16</b>	<b>3,603.55</b>	<b>16,622.06</b>

Schedule 8  
Member Agency Tonnage Report  
2016

	Data Source	Q1 Net Tons Collected	Q2 Net Tons Collected	Q3 Net Tons Collected	Q4 Net Tons Collected	YTD Net Tons Collected
<b>10 SAN CARLOS</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	10.12	-	3.36	4.50	17.98
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	23.82	3.23	24.73	-	51.78
Member Agency Inert / C&D	SBR	14.67	81.51	81.92	24.45	202.55
<b>Subtotal - Disposed</b>		<b>10.12</b>	<b>-</b>	<b>3.36</b>	<b>4.50</b>	<b>17.98</b>
<b>Subtotal - Diverted</b>		<b>38.49</b>	<b>84.74</b>	<b>106.65</b>	<b>24.45</b>	<b>254.33</b>
<b>Overall Subtotal</b>		<b>48.61</b>	<b>84.74</b>	<b>110.01</b>	<b>28.95</b>	<b>272.31</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	1,579.85	1,714.26	1,449.59	1,248.76	5,992.47
MRF Residue	SBR	190.56	309.18	-	-	499.74
Transfer Station & Other Recycling	SBR	30.36	-	-	-	30.36
Self-Haul Green Waste	SBR	45.23	0.91	1.79	2.25	50.17
Self-Haul Inert / C&D	SBR	903.22	4.46	8.23	5.16	921.08
<b>Subtotal - Disposed</b>		<b>1,770.42</b>	<b>2,023.44</b>	<b>1,449.59</b>	<b>1,248.76</b>	<b>6,492.21</b>
<b>Subtotal - Diverted</b>		<b>978.81</b>	<b>5.37</b>	<b>10.02</b>	<b>7.41</b>	<b>1,001.60</b>
<b>Overall Subtotal</b>		<b>2,749.22</b>	<b>2,028.80</b>	<b>1,459.61</b>	<b>1,256.17</b>	<b>7,493.81</b>
<b>11 SAN MATEO</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	29.74	47.04	53.71	37.00	167.49
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		<b>29.74</b>	<b>47.04</b>	<b>53.71</b>	<b>37.00</b>	<b>167.49</b>
<b>Subtotal - Diverted</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Overall Subtotal</b>		<b>29.74</b>	<b>47.04</b>	<b>53.71</b>	<b>37.00</b>	<b>167.49</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	1,768.38	1,889.46	1,594.59	1,410.28	6,662.72
MRF Residue	SBR	224.17	38.30	-	-	262.46
Transfer Station & Other Recycling	SBR	38.95	-	-	-	38.95
Self-Haul Green Waste	SBR	113.15	74.62	135.95	79.12	402.84
Self-Haul Inert / C&D	SBR	1,629.04	2,185.63	1,961.98	2,143.26	7,919.91
<b>Subtotal - Disposed</b>		<b>1,992.55</b>	<b>1,927.76</b>	<b>1,594.59</b>	<b>1,410.28</b>	<b>6,925.18</b>
<b>Subtotal - Diverted</b>		<b>1,781.14</b>	<b>2,260.25</b>	<b>2,097.93</b>	<b>2,222.39</b>	<b>8,361.70</b>
<b>Overall Subtotal</b>		<b>3,773.68</b>	<b>4,188.01</b>	<b>3,692.52</b>	<b>3,632.67</b>	<b>15,286.88</b>
<b>12 SAN MATEO COUNTY</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal - Diverted</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Overall Subtotal</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	39.14	128.13	135.74	36.70	339.70
MRF Residue	SBR	49.34	47.18	-	-	96.52
Transfer Station & Other Recycling	SBR	0.17	-	-	-	0.17
Self-Haul Green Waste	SBR	4.58	4.76	7.61	2.89	19.84
Self-Haul Inert / C&D	SBR	18.95	58.91	47.29	80.51	205.66
<b>Subtotal - Disposed</b>		<b>88.48</b>	<b>175.31</b>	<b>135.74</b>	<b>36.70</b>	<b>436.22</b>
<b>Subtotal - Diverted</b>		<b>23.71</b>	<b>63.67</b>	<b>54.91</b>	<b>83.39</b>	<b>225.68</b>
<b>Overall Subtotal</b>		<b>112.19</b>	<b>238.98</b>	<b>190.65</b>	<b>120.09</b>	<b>661.90</b>

Schedule 8  
 Member Agency Tonnage Report  
 2016

	Data Source	Q1 Net Tons Collected	Q2 Net Tons Collected	Q3 Net Tons Collected	Q4 Net Tons Collected	YTD Net Tons Collected
<b>13 WEST BAY</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	-	-	-	-	-
Member Agency Recycling	SBR	-	-	-	-	-
Member Agency Organics	SBR	-	-	-	-	-
Member Agency Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		-	-	-	-	-
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		-	-	-	-	-
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	-	-	-	-	-
MRF Residue	SBR	14.81	-	-	-	14.81
Transfer Station & Other Recycling	SBR	-	-	-	-	-
Self-Haul Green Waste	SBR	-	-	-	-	-
Self-Haul Inert / C&D	SBR	-	-	-	-	-
<b>Subtotal - Disposed</b>		<b>14.81</b>	-	-	-	<b>14.81</b>
<b>Subtotal - Diverted</b>		-	-	-	-	-
<b>Overall Subtotal</b>		<b>14.81</b>	-	-	-	<b>14.81</b>
<b>TOTAL SBWMA</b>						
<b>Member Agency Vehicles</b>						
Member Agency Solid Waste	SBR	158.49	175.38	232.29	214.44	780.60
Member Agency Recycling	SBR	-	-	0.06	-	0.06
Member Agency Organics	SBR	103.36	68.22	94.44	80.01	346.03
Member Agency Inert / C&D	SBR	242.33	580.78	877.20	622.92	2,323.23
<b>Subtotal - Disposed</b>		<b>158.49</b>	<b>175.38</b>	<b>232.29</b>	<b>214.44</b>	<b>780.60</b>
<b>Subtotal - Diverted</b>		<b>345.69</b>	<b>649.00</b>	<b>971.70</b>	<b>702.93</b>	<b>2,669.32</b>
<b>Overall Subtotal</b>		<b>504.18</b>	<b>824.38</b>	<b>1,203.99</b>	<b>917.37</b>	<b>3,449.92</b>
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	7,220.79	8,080.59	6,437.11	5,916.44	27,654.93
MRF Residue	SBR	1,387.70	1,393.71	99.54	-	2,880.95
Transfer Station & Other Recycling	SBR	159.05	-	-	-	159.05
Self-Haul Green Waste	SBR	739.91	689.17	1,055.81	717.18	3,202.07
Self-Haul Inert / C&D	SBR	6,264.29	7,534.81	6,390.17	6,942.84	27,132.11
<b>Subtotal - Disposed</b>		<b>8,608.49</b>	<b>9,474.30</b>	<b>6,536.65</b>	<b>5,916.44</b>	<b>30,535.88</b>
<b>Subtotal - Diverted</b>		<b>7,163.25</b>	<b>8,223.99</b>	<b>7,445.98</b>	<b>7,660.01</b>	<b>30,493.23</b>
<b>Overall Subtotal</b>		<b>15,771.74</b>	<b>17,698.29</b>	<b>13,982.62</b>	<b>13,576.45</b>	<b>61,029.10</b>
<b>NON-SBWMA JURISDICTIONS</b>						
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	768.79	768.13	657.17	648.88	2,842.97
MRF Residue	SBR	948.69	-	-	-	948.69
Transfer Station & Other Recycling	SBR	73.32	130.29	195.79	146.54	545.94
Self-Haul Green Waste	SBR	282.58	380.06	1,290.43	499.31	2,452.38
Self-Haul Inert / C&D	SBR	1,125.12	1,813.82	4,241.17	1,844.45	9,024.57
<b>Subtotal - Disposed</b>		<b>1,717.47</b>	<b>768.13</b>	<b>657.17</b>	<b>648.88</b>	<b>3,791.66</b>
<b>Subtotal - Diverted</b>		<b>1,481.03</b>	<b>2,324.17</b>	<b>5,727.39</b>	<b>2,490.30</b>	<b>12,022.89</b>
<b>Overall Subtotal</b>		<b>3,198.50</b>	<b>3,092.29</b>	<b>6,384.57</b>	<b>3,139.18</b>	<b>15,814.55</b>
<b>Transfer Station Diversion Rate</b>		<b>46.30%</b>	<b>75.16%</b>	<b>89.71%</b>	<b>79.33%</b>	<b>76.02%</b>
<b>SEC SUMMARY</b>						
<b>Transfer Station &amp; Third Party</b>						
Self-Haul Solid Waste	SBR	7,989.58	8,848.72	7,094.28	6,565.32	30,497.90
MRF Residue	SBR	2,336.39	1,393.71	99.54	-	3,829.64
Transfer Station & Other Recycling	SBR	232.38	130.29	195.79	146.54	704.99
Self-Haul Green Waste	SBR	1,022.49	1,069.23	2,346.24	1,216.49	5,654.45
Self-Haul Inert / C&D	SBR	7,389.41	9,348.64	10,631.34	8,787.29	36,156.68
<b>Subtotal - Disposed</b>		<b>10,325.97</b>	<b>10,242.43</b>	<b>7,193.82</b>	<b>6,565.32</b>	<b>34,327.54</b>
<b>Subtotal - Diverted</b>		<b>8,644.28</b>	<b>10,548.15</b>	<b>13,173.37</b>	<b>10,150.32</b>	<b>42,516.11</b>
<b>Overall Subtotal</b>		<b>18,970.24</b>	<b>20,790.58</b>	<b>20,367.19</b>	<b>16,715.64</b>	<b>76,843.65</b>
<b>Transfer Station Diversion Rate</b>		<b>45.57%</b>	<b>50.74%</b>	<b>64.68%</b>	<b>60.72%</b>	<b>55.33%</b>
<b>OVERAL SEC SUMMARY</b>		<b>18,970.24</b>	<b>20,790.58</b>	<b>20,367.19</b>	<b>16,715.64</b>	<b>76,843.65</b>



## ABOUT SOUTH BAY RECYCLING

South Bay Recycling operates the Shoreway Facility Transfer Station, Materials Recovery Facility and Public Recycling Center under an Operating Agreement with the South Bayside Waste Management Authority (Rethink Waste).

South Bay Recycling, LLC, (SBR) is a joint venture between Recology Inc. (Recology) and Potential Industries Inc. (Potential Industries), both of which are experienced operators of mixed waste Material Recovery Facilities (MRFs), commingled residential and commercial recyclables MRFs, and transfer stations. This partnership brings together the strengths of Recology and Potential Industries to achieve Rethink Waste's vision of safe, efficient, and innovative waste reduction and recycling programs which are simple, smart and green!

Recology is an employee-owned company dedicated to building exceptional resource ecosystems that protect the environment and sustain communities. With approximately 40 operating subsidiaries, Recology provides collection, hauling, processing, composting, and disposal services to homes and businesses in the Western United States. Recology also manages municipal processes and services, including urban cleaning services, collection, sorting, transfer, recovery, and landfill management. Their commitment to positively impact communities and the environment is driven by their mission to serve communities, the environment, and their employee owners.

Potential Industries has evolved from a traditional buyback recycling center to embrace residential commingled processing, and secure additional markets through paper mill development. As such, Potential Industries is able to optimize recycling, maximize diversion, and guarantee the strongest markets for materials. Potential Industries was founded in Los Angeles as a privately held corporation in 1975. Potential is a full service diversified recycling company that operates four affiliated plants in Southern California. Suppliers of recyclable materials to Potential Industries include: municipalities, waste disposal companies, certified recycling centers, commercial and industrial accounts, and MRFs. The Company processes over 300,000 tons of recyclable material per year.

SBR's technologies and single stream processing methods allow for efficient sorting and recovery of recyclable materials to meet the demands of sustainable communities and State-mandated diversion goals.

## FACILITIES, EQUIPMENT AND PERSONNEL



The Shoreway Facility is open to the public and provides residents, businesses, contractors, municipalities, and individuals the ability to bring their trash, yard trimmings, organics, construction debris or recyclable materials for processing and transfer to permitted landfills, end users, and other processing centers for further separation and marketing of materials.

## FACILITIES

### Transfer Station



The public entering the Shoreway Facility are greeted by our State Certified Weigh Masters, who visually inspect and identify the contents, and take accurate volumetric measurements of each inbound load. The Weigh Master receives the appropriate payment for the transaction, which is recorded in SBRs state of the art scale software



system. Any loads which contain unacceptable materials are rejected and reported. SBR performs regular spot checks to ensure Weigh Masters are 1) Utilizing the appropriate methods to accurately measure the contents of a load; and 2) Inspecting loads for unacceptable materials.

Public and commercial customers are then directed to the Transfer Station where they are greeted by a Spotter. The Spotter is responsible for managing the flow of traffic into the tipping area, checking the customers weigh ticket, and directing them to the appropriate area for offloading of their materials. Inside the Transfer Station, Sorters who have been trained to identify and recover materials that can be recycled or reused, remove these materials from the various waste streams for further processing. Equipment Operators load materials into trailers, which are transported to the appropriate disposal site or processing facility.

In 2016, South Bay Recycling partnered with the Mattress Recycling Council, which was formed to operate recycling programs in states which have enacted mattress recycling laws. California's program is funded by a recycling fee that is collected when a mattress or box spring is sold. The fees pay for the transportation and recycling of the mattresses. SBR plans to enroll in this program in January 2017. Residents will be able to bring in as many as five mattresses per visit to the Shoreway Facility at no charge.

Recology collection vehicles with Member Agency collected materials enter the Shoreway Facility and stop on one of two in-ground automated scales. The driver enters their vehicle number, route number and type of waste into the Driver Automated Terminal (DAT). The scale software system reads and records the equipment's gross vehicle weight, subtracts the vehicle tare weight, which has been previously recorded and stored in the scale software system, and calculates and records the vehicle net weight. The driver receives a printout and exits the scale. Recyclable materials are delivered to the Materials Recovery Facility (MRF) and all other materials are delivered to the Transfer Station.

## **Compost Giveaway**



When customers who reside within the Rethink Waste service area approach the Scale House, they inform the Scale Attendant they would like free compost. The customer only needs to show proof of residency (e.g., utility bill, or identification card) and the Scale Attendant will direct them to the Transfer Station Self Haul area where residents are provided up to 2-3 cubic yard capacity empty paper bags and a shovel to fill their bag with the compost provided by the SBMWA. Customers may pick up free compost up to two visits per week, based on availability.

## Transfer Station Fire



On September 11, 2016, there was a fire in the public side of the Transfer Station. The fire activated the overhead sprinkler system, setting off the fire alarm. SBR was notified by on-site security within minutes after the alarm sounded. The Fire Department was on scene at the Shoreway Facility when SBR representatives arrived.

Due to the off hour, the fire started at night on a Sunday, the interior lights were turned off hampering fire fighters from entering the building to extinguish the blaze. SBR was able to activate the interior

lighting in the Transfer Station, and SBR Equipment Operators used Wheel Loaders to push the material outside of the building where fire fighters extinguished the blaze.

The damage was limited to a portion of the MRF residue conveyor, interior wall and some electrical wiring. There was no interruption to the operation, which opened to the public at its regular time of 6:00 a.m. the following day.

**Important note:** SBR had transported over 450 tons of loose unsorted recyclable materials from the self-haul side of the Transfer Station to an alternate processor in San Jose on Saturday, September 10<sup>th</sup>, just one day prior to the fire. This material had accumulated since the MRF fire incident, just 4 days prior, and the tipping area had reached capacity. Had SBR not moved the 450 tons of recyclable materials from the Transfer Station on Saturday, this fire could have been an extremely serious incident.

## Operating Hours

The Transfer Station is open to the public Monday through Friday from 6:00 a.m. to 6:00 p.m. and on Saturday and Sunday from 8:00 a.m. to 5:00 p.m.

### Acceptable Materials

Municipal Solid Waste  
Mixed C&D and Inert Materials  
Yard Trimmings  
Food Scraps

Refrigerators  
Appliances  
Mattress or Box Springs  
Sofas

Garage Doors  
Tires  
Scrap Metal

### Unacceptable Materials

Liquid wastes or sludge  
Car batteries  
Hot ashes  
Sealed containers

Animal waste  
Dead animals  
Oils and solvents  
Medical waste

Radioactive or Reactive  
Materials  
Any type of hazardous waste

## Material Recovery Facility

The Material Recovery Facility accepts residential and commercial single stream recyclables and source separated fiber. Through mechanical and manual processing, this material is separated by commodity type, baled and sold to market. The processing equipment is performing in a manner consistent with design parameters, and as a result, is achieving production and quality levels that meet or exceed goals.



Due to processing operation's ability to function at high levels of throughput, SBR has been add recyclable materials from third party generators outside of the SBWMA area. In 2014, SBR entered into a long-term agreement with Recology, Inc. to receive and process single stream recyclables collected outside the jurisdiction of the JPA. In 2016, this additional volume resulted in an additional \$279,970 of host fee revenue to the SBWMA.

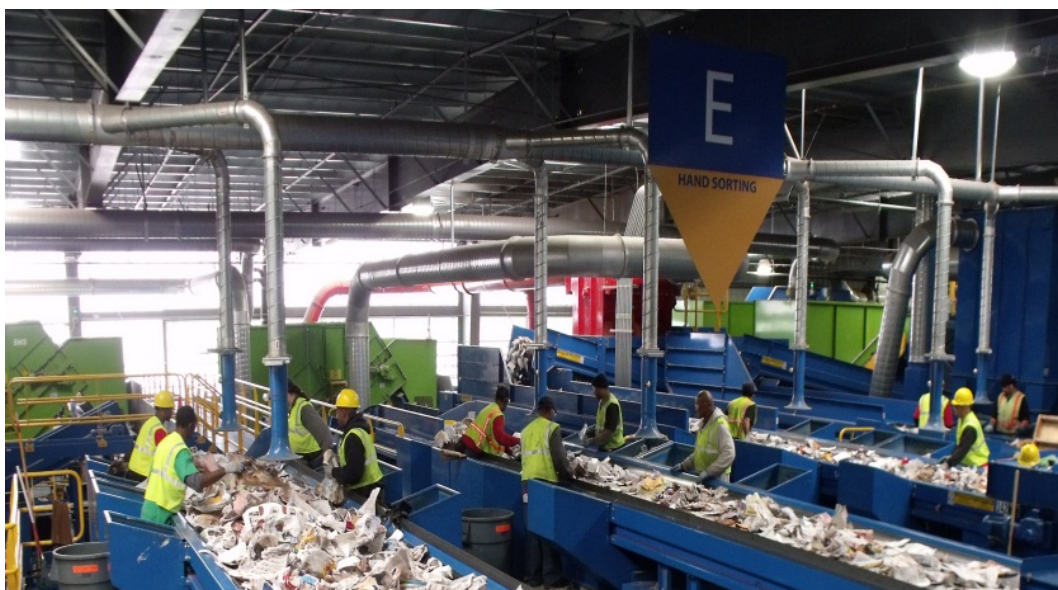
SBR has successfully applied its operational expertise, resulting in maximizing recovery of marketable materials. By judiciously utilizing equipment and labor, of the total commingled recyclables processed in 2016, SBR was able to achieve an overall total MRF recovery rate of 91.5% (8.50% of inbound recyclables left the facility as residue). This recovery rate is among the best in the industry. SBR continues to work with Recology of San Mateo County and the SBWMA to further improve recovery rates by reducing the contamination level of inbound commercial and residential commingled recyclable materials.



## San Mateo County Vocational Rehabilitation Services

The County has several public programs whose purpose is to assist people in attaining their maximum potential within a work environment through counseling, work experience, education and vocational testing. One of the County programs currently being used by South Bay Recycling is the VRS program, which is a unique public/private partnership that strives to enhance people's self-esteem and dignity.

As requested by the SBWMA BOD, South Bay Recycling has utilized the services of San Mateo County, Vocational Rehabilitation Services (VRS) since the start of operations. VRS provides MRF Sort Labor (Clients) and Production Supervisors for sorting operations in the Materials Recovery Facility. VRS Clients have been trained to identify and remove non-recyclable materials from mix paper, old newspaper, cardboard, plastics, aluminum, and other targeted recyclable materials prior to being baled and shipped to market.



Throughout 2016 ongoing improvements in local economic conditions created significant additional challenges for VRS to meet its contractual obligations to provide SBR with the required amount of MRF Sort Laborers to achieve material quality goals.

Challenges to provide

MRF Sort Labor continued and in September SBR was notified by VRS that unless improvements in hourly wages for VRS Clients were increased significantly that VRS would be forced to provide SBR with 120 Day notice to terminate its Agreement with SBR. With the assistance of Joe La Mariana, Executive Director of the SBWMA, VRS and SBR were able to come to an Agreement that was acceptable to both parties. Though the Agreement called for a significant increase in costs, some paid for by SBWMA and some paid for by SBR, the SBWMA Board of Directors recognized the importance of the program to continue and approved an increase in hourly payments to VRS Clients which allowed the program to continue

## MRF Fire

On the evening of September 7, 2016, approximately seven (7) minutes after the second shift returned from their lunch break, a small fire started in the first news sort screen of the residential sorting line in the MRF. As paper fiber passed over the ignition source, material caught fire and continued to travel through the conveyance system, spreading the fire in rapid fashion to other mechanical separation equipment and fiber storage bunkers.



Shortly after the fire ignited, SBR personnel were made aware of the fire. SBRs MRF Operator immediately initiated a plant-wide emergency stop, and notified the Fire Department. SBR and VRS personnel trained in fire suppression rushed to extinguish the fire which had spread throughout the sort system.

SBR and VRS personnel made a valiant attempt to extinguish the fire; however, the acrid smoke became overwhelming and SBRs Supervisor initiated the call for an emergency evacuation of the facility. All SBR and VRS safely evacuated the MRF and met at the designated rally point. All SBR and VRS were accounted for and released from the site. No injuries were reported.

The Fire Department was on site approximately five minutes after being notified by SBR. Almost 100 firefighters provided a professional, well-coordinated 4-alarm emergency response to the incident, including over 25 trucks, engines and support vehicles. Fire crews from Burlingame, Belmont, San Mateo, Menlo Park, San Carlos, Foster City, Colma, Woodside, Cal Fire, and Central all provided critical support. PGE crews responded timely, and conducted emergency inspections to all electrical and gas connections in the building.



The Fire Department extinguished the fire around 2:30 AM. When it became safe to do so, members of the Fire Department escorted SBR management into the building to view the damage. The building interior and processing equipment suffered significant smoke and water damage. Thankfully, most of the fire damage was contained to the residential processing equipment and ceiling directly above the equipment.

Fire officials stated the fire was contained to this area due to the overhead sprinkler system and roof hatches that automatically open to vent heat out of

the building. The building exterior suffered moderate damage. No other buildings or facilities on the 16 acre Shoreway Environmental Facility were damaged, including the Transfer Station where franchise, member agency and public customers deliver garbage, organics, and construction and demolition materials.

After viewing the damage, SBR notified the SBWMA and third-party haulers that it was suspending the processing of recyclable materials delivered to the Shoreway Materials Recovery Facility. The morning following the fire, Iliana Rodriguez, Director of San Mateo County Human Services Administration, met with SBR, who made the decision to temporarily suspend the VRS program. VRS clients were reassigned to other employment opportunities until the facility is back on line.

## **Post-Fire Operations**

In an effort to determine the cause of the fire, SBWMA and SBR management teams met with Redwood City Fire Inspectors to review video of the incident and inspect the news sort screen where the fire started. After reviewing video and a thorough physical inspection by public and private fire investigators of the news sort screen, a definitive cause could not be determined; however, the consensus amongst the parties was the ignition source was likely a lithium-ion battery.



SBWMA and SBR worked in lock-step to ensure continuity of operations were achieved following the shutdown of the MRF. SBWMA contacted its Insurance Carrier who had an Adjuster on-site the afternoon following the fire. Hilary Gans, Facility Operations Contracts Manager working with the Insurance Carrier, developed a plan to begin repair and restoration of the MRF building and equipment. SBR provided uninterrupted material handling and transportation of unsorted commingled materials to alternate recycling processing facilities in the greater Bay Area. SBWMA staff monitored SBRs operations to ensure recyclable materials were responsibly

handled and that all material was properly recycled, and no materials were sent to landfills.

SBWMA staff worked in close coordination with SBR and Recology senior management team on all aspects of the MRF restoration and interim operations, and with its insurance claims team and their many partners; technical experts (structural engineers, fire investigators, City of San Carlos building officials; local solid waste regulatory officials); and remediation crews. Multiple teams of highly-specialized technical response workers were on site for the duration of the restoration operation.

SBR staff assisted with the facility restoration activities for several months, after which, restoration activities shifted to a variety of highly-specialized, professionally-certified contractors (i.e. electrical, fire suppression; construction; HVAC, lighting, custom processing equipment, glazing, metal work, etc.). SBR took advantage of the MRF shutdown to perform extensive maintenance and repairs on processing and stationary equipment.

After a thorough assessment of the damages and necessary repairs was completed the estimated target date for the MRF to resume full operations was six-months. However, due to SBWMAs and SBRs project leadership, and the highly skilled professionals performing the work, the MRF resumed operations on January 5, 2017 which was two months ahead of the original estimate.

## Public Recycling Center



As customers arrive at the Public Recycling Center, they are greeted by an Attendant who directs them to the appropriate area where they can return their California Redemption Value (CRV) containers for a refund or drop off various types of recyclables and/or reusable materials. Customers may choose from three options to account for their CRV containers in order to receive the redemption value; payment by weight, count, or Reverse Vending Machine (RVM).

### Weighing Containers

Customers may choose to have their CRV eligible containers weighed. The customer is asked to place their containers into a basket provided by South Bay Recycling. The Attendant transfers the containers into a second basket check where they inspect the contents and remove any non-CRV items or dispose of any liquid that may remain in the containers. The basket is placed on a certified scale where the contents are weighed. The customer receives a receipt which shows the net weight, material type and redemption value. The customer takes their receipt to the cashier for payment.

### Counting Containers

Customers may choose to have their containers counted. If requested to count containers, the Attendants may count up to fifty containers per customer per visit. The same inspection process is followed as stated above. The Attendant counts each container and provides the customer with a receipt which shows the container count, material type and redemption value. The customer takes their receipt to the cashier for payment.

South Bay Recycling also purchases segregated cardboard from customers who bring in more than 300 lbs. to the Public Recycling Center. Payments are subject to change based on prevailing market conditions. Materials received into the Public Recycling Center are processed and sold to various end users who convert the materials into new products, or reusable items.

### Reverse Vending Machines (RVM)

Customers may feed containers into automated RVMs which tabulate payments based on State approved technology to automatically detect the container type. During 2016 the RVMs continue to be under-utilized. Unlike other areas in California where RVMs are very popular, there seems to be a strong preference by the local residents to interact with SBR workers in the Public Recycling Center and conduct transactions by weight or count. As a result, SBR is working with the SBWMA staff to improve operations in 2017 by removing the RVMs and modifying the Public Recycling Center space usage and staffing levels to provide better service to customers.

## **Operating Hours**

The Public Recycling Center is open to the public Monday through Saturday from 8:30 a.m. to 4:00 p.m., and accepts the following items:

Cardboard	Used Motor Oil Filters	Household Batteries
Old Newsprint	Used Motor Oil	Sharps
Mixed Paper	Used Antifreeze	Pharmaceuticals
Glass Bottles	Latex Paint	Cooking Oil
Mixed Containers	Oil Based Paint	Small Appliances
Aluminum Cans	Electronics	Textiles
Plastic Containers	Fluorescent Lighting Tubes	

## EQUIPMENT



### Fleet

South Bay Recycling operators 22 tractor trailers for its transportation of materials from the transfer station to the off-site disposal and material recycling operations. The Kenworth trucks were purchased in 2010 and SBR continues to operate these same vehicles. Each 2010 EPA-compliant CAT engine employs the best available emissions control technology to reduce NOx and Particulate Matter.

SBRs trailers are custom designed, engineered and manufactured to minimize weight and maximize payload, resulting in less equipment on the road which reduces traffic congestion, resource consumption and CO2 emissions.

SBR continually assesses its operation and makes the necessary modifications to its equipment, in an effort to improve performance and increase efficiency. Since the start of operations, SBR has made the following improvements:

1. Outfitted three trailers with steel floors designed to transport construction and demolition debris resulting in reduced maintenance cost and equipment downtime; and
2. Installed on-board truck scales on all combination tractor/trailer equipment to reduce transportation time to disposal/processing destinations.

With the exception of construction debris and inert materials, our average payloads exceeded the aggressive targets that SBR identified in its bid documents, which many thought unattainable. Due to a significant change in the types of materials accepted by the C&D processor, payloads to Zanker Road have decreased from what SBR enjoyed prior to this change. Those changes are a reflection of material densities accepted by third party processors based on commercial terms between SBWMA and their third-party processor, and not SBRs ability to meet or exceed payload targets.

## Average Payloads by Material Type

<b>Solid Waste</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>TOTAL</b>
Tons	57,198.01	57,454.00	55,852.46	52,878.75	223,383.22
Loads	2,202.00	2,239.00	2,170.00	2,042.00	8,653.00
Avg. Tons/Load	25.98	25.66	25.74	25.90	25.82
<b>Organics</b>					
Tons	27,091.99	27,396.66	27,244.44	28,924.07	110,657.16
Loads	1,118.00	1,116.00	1,107.00	1,184.00	4,525.00
Avg. Tons/Load	24.23	24.55	24.61	24.43	24.45
<b>C&amp;D</b>					
Tons	9,365.39	11,381.56	12,603.29	10,496.05	43,846.29
Loads	454.00	558.00	614.00	523.00	2,149.00
Avg. Tons/Load	20.63	20.40	20.53	20.07	20.40

## Operating Equipment

South Bay Recycling currently operates five 2010 Volvo Wheel Loaders, one 2016 Caterpillar Wheel Loader, one diesel powered Man-Lift, one electric powered scissor lift, four electric powered fork trucks, and one diesel powered fork truck.

Since the start of operations, SBR has added the following equipment:

- 1 - Linde Electric Powered Forklift;
- 1 - Linde Diesel Powered Forklift;
- 1 – CAT 950M Wheel Loader;
- 1 – Peterbilt Tractor; and
- 1 – Travis End Dump Trailer

The Linde Forklifts produce zero emissions and have a battery life that allow for a full 12-hour operation before needing to be recharged.

## Equipment Maintenance

SBR performs preventative maintenance on all of its equipment to include, facilities, stationary equipment, processing equipment, and rolling stock. Some repairs are performed by equipment manufacturers or highly specialized equipment repair shops. Equipment is frequently inspected and analyzed to develop and incorporate processes and procedures that result in sustainable equipment performance. Some of the storage container/bins listed below are showing signs of wear, and will be replaced in 2017.

Below is a listing of the equipment operated and maintained by South Bay Recycling:

<b>Equipment Description</b>	<b>Quantity</b>	<b>Comments</b>
Roll-Off Vehicles	1	2010 Xpeditor
Semi-Tractors	23	22 2010 Kenworth Tractors 1 2015 Peterbilt Tractor
Trailers	23	10 Tippers 11 Walking Floors 2 End Dumps
Wheel Loaders	7	2 Volvo L110 Wheel Loaders 3 Volvo L60 Wheel Loaders 1 CAT 950M Wheel Loader 1 CAT Excavator
Fork Trucks	5	4 Linde Electric Fork Trucks 1 Linde Diesel Fork Truck
Pickup Truck	1	Ford F-150
Man-Lift/Telescope Boom Lift	2	1 Telescoping Boom Lift 1 Scissor Lift
Roll-Off Containers	18	12 50 cubic yard debris boxes 6 20 cubic yard debris boxes
Storage Containers/Bins	50	11 8 cubic yard bins 18 6 cubic yard bins 2 4 cubic yard bins 2 3 cubic yard bins 2 1.5 cubic yard bins 2 3 cubic yard tilt hoppers 4 6 cubic yard tilt hoppers 4 40' sea containers 4 Universal waste containers 2 50 cubic yard enclosed containers
Platform Scales	2	Main Entrance

## PERSONNEL

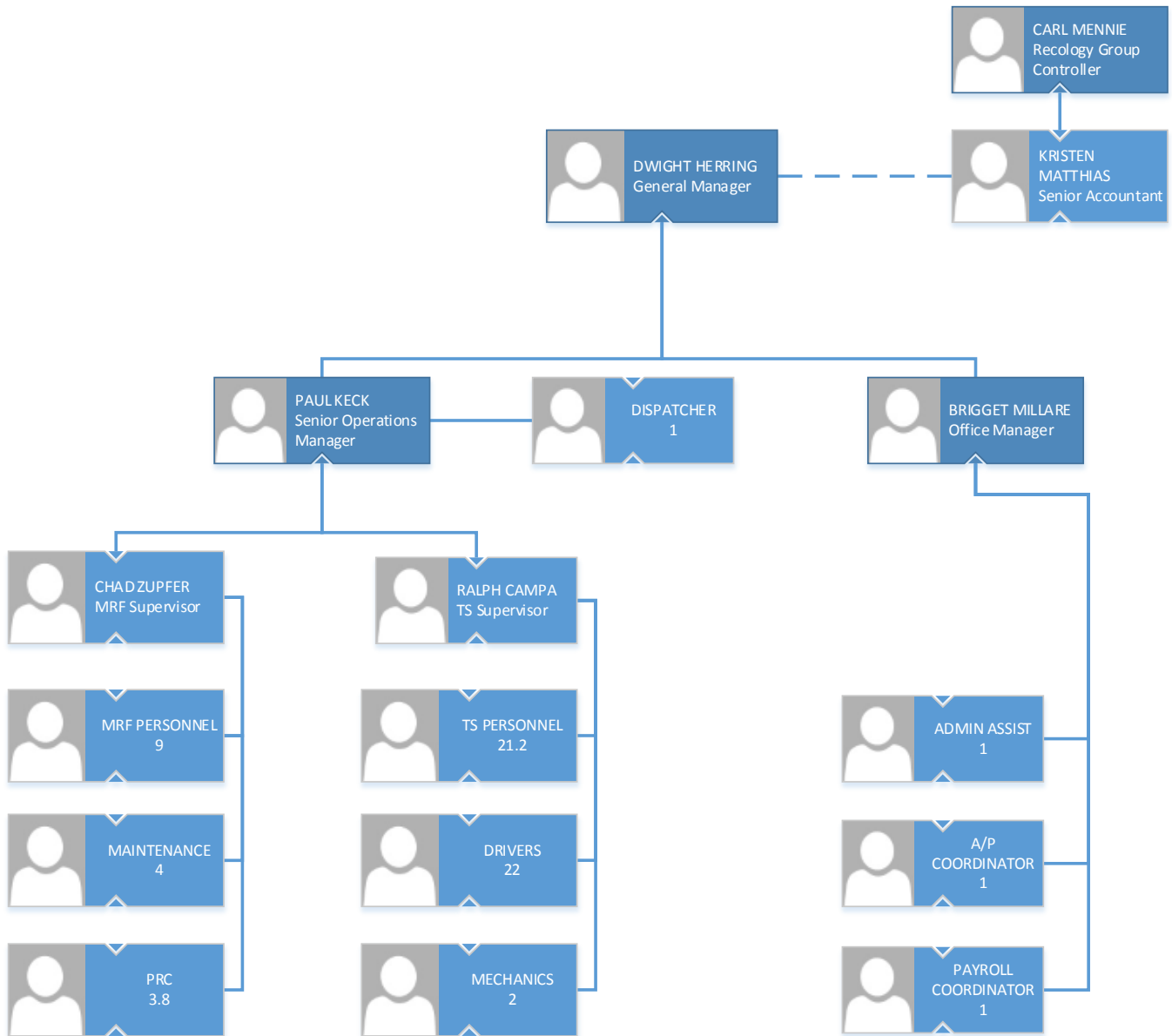
Our Greatest Asset is...

# Our People



# SOUTH BAY RECYCLING

## 2016 ORGANIZATIONAL CHART



## **Staffing**

South Bay Recycling employs a total staff of 75 personnel. SBR personnel are made up of the following:

<b><u>Department</u></b>	<b><u>FTE</u></b>
Management Staff	5.0
Administrative Staff	4.0
Drivers	22.0
Maintenance Staff	6.0
Equipment Operators	14.4
Scale Attendants	2.6
PRC Attendants	3.8
TS & MRF Floor Operators	<u>16.4</u>
<b>Total Personnel</b>	<b>74.2</b>

All hourly employees are members of Teamsters Local Union No. 350 and are assigned to one of three Collective Bargaining Units, based on their job classification:

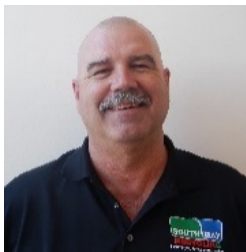
- Facility Operations Unit;
- Semi Drivers Unit; or
- Clerical Unit.

## **SBR Management Team**



### **Dwight Herring, General Manager**

Dwight Herring has served as General Manager since November 2011. From February 2011 to that date, Mr. Herring served as Site Manager. Mr. Herring has over 25 years' experience in the waste and recycling industry.



### **Paul Keck, Senior Operations Manager**

Paul Keck has served as Senior Operations Manager since December 2016. From August 2014 to that date, Mr. Keck served as the Materials Recovery Facility Manager. Mr. Keck has over 36 years' experience in the waste and recycling industry.



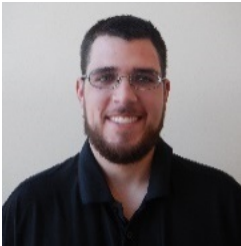
**Brigget Millare, Office Manager**

Brigget Millare has served as Office Manager since June 2015. Mrs. Millare has over 18 years' experience in accounting and office administration operations. Mrs. Millare holds a M.B.A. in Business Administration.



**Ralph Campa, Operations Supervisor**

Ralph Campa has served as Transfer Station Supervisor since August 2015. Mr. Campa has over 26 years' experience in the waste and recycling industry.



**Chad Zupfer, Operations Supervisor**

Chad Zupfer has served as Materials Recovery Facility Supervisor from September 2012 to December 2016.

## MATERIAL MARKETING SUMMARY



From January 1, 2016 through September 7, 2016, South Bay Recycling operated the Materials Recovery Facility equipment and processed normal grades of recyclable materials as follows:

- |   |                           |
|---|---------------------------|
| Old News Paper (ONP)                            | Mixed Film Plastic (MFP)  |
| Mixed Paper (MP)                                | Mixed Rigid Plastic (MRP) |
| Old Corrugated Containers (OCC)                 | Tin Cans                  |
| HDPE Color Plastic (HDPEc)                      | Aluminum Cans             |
| HDPE Natural Plastic (HDPEn)                    | 3 Mix Glass               |
| Plastic #3-#7 (or #5 PP based on market demand) | Scrap Metal               |

SBR transports mixed and clean glass to Strategic Materials in Fairfield, California. All other materials are sold freight on board (FOB) San Carlos with the buyer making arrangements and paying for transportation.

From September 8, 2016 through December 31, 2016, commingled recyclables delivered to the Shoreway were directed to the Transfer Station where the materials were loaded into third-party trailers and transported to one of three off-site Material Recovery Facilities for processing. The processing arrangements were made by SBWMA, with SBR playing a supporting role.

As required under the terms of the Operating Agreement, SBR compiles monthly data for monitoring the prices that OCC, Mix, and ONP is sold for, and compares them to the Fiber Commodity Price Assurance Average Index Value. The chart below provides a calculation showing the Quarterly Index value compared to the average sale price for each grade of fiber from the MRF, the Price Assurance Index, and the Premium per ton for each grade. SBR’s expertise in material marketing has provided the SBWMA with a premium value for the recovered fiber during the period of January 1 through September 7, 2016 of **\$52,748.79** (see chart below).

2016	Cardboard	News	Mix Paper	TOTAL
Avg. Index Value	\$121.73	\$93.43	\$83.47	
Avg. Price Sold	\$122.75	\$94.44	\$84.96	
Difference (+/-)	\$1.02	\$1.01	\$1.49	
Tons	15,236.97	13,312.51	15,947.29	44,496.77
<b>Premium Value</b>	<b>\$15,541.70</b>	<b>\$13,445.63</b>	<b>\$23,761.46</b>	<b>\$52,748.79</b>

## **Selecting Buyers**

SBR only conducts business with established brokerage firms that are in good financial standing, and have a good reputation in the industry. A financial background check is conducted on all potential brokers interested in purchasing processed commodities. Brokerage firms who prove to be financially responsible, and have a long-standing reputation to conduct business in an ethical manner, are invited to physically inspect post-processed recyclables to assess material quality. Brokers who are interested in submitting bids to purchase non-fiber commodities are provided the company's Commodity Sales & Shipment Procedure Policy. Brokers are required to periodically reevaluate non-fiber commodities as changes in material composition can impact quality.

## **Material Bidding and Monthly Revenue**

Each month, SBR sends a bid cover sheet to all approved brokers. Brokers submit their pricing for each non-fiber commodity they are interested in purchasing. Bids are reviewed and awarded based on best pricing.

Revenue from commodities consists of two components; scrap value and California Refund Value (CRV). In 2016 the average value of commodities sold was 51% scrap value and 49% CRV value.

The scrap value consists of two primary types of materials, fiber and containers. Fibers include Old Corrugated Containers (OCC, aka cardboard), Old News Papers (ONP), and Mixed Paper (MP). Containers include glass, aluminum, plastics and metal. In 2016 the scrap value from fiber (OCC, ONP & MP) made up 86% of total commodity revenue with the balance coming from containers.

The CRV value is determined by CalRecycle in Sacramento. The CRV program in California has strong bi-partisan support and is well established throughout the State. Over the past several years the program has seen increases in participation rates which have reduced the amount of unclaimed pre-paid deposits (which CalRecycle uses to pay for program operating costs). As such there are budgetary constraints on several "non-core" aspects of the CRV program, such as grants, market development, and community service programs. However, most of the revenue that Member Agencies receive for CRV materials consists of the "core" payments for refund, processing, and administrative payments, and these components remain strong and solvent.

Historical average per ton scrap values for fiber:

<b><u>Year</u></b>	<b><u>Value</u></b>
2012	\$128
2013	\$125
2014	\$115
2015	\$93
2016	\$99

In 2016 SBR continued to send fiber to export markets in Asia, primarily China, because the export market is larger and pays better prices than the domestic market.

## **Fiber Commodity Moisture Monitoring**

The moisture testing protocol and test results were submitted to and approved by the Authority in 2011. If excess moisture is present, then SBR will compile the required information and make a recommendation to the SBWMA so they can conduct an investigation to arrive at a determination based on the following information:

- Daily rainfall records in the local area
- Moisture measured in inbound loose material
- Average bale weights for OCC, ONP, Mix Paper
- Moisture measured in sorted/processed materials

## OUTLOOK FOR SALE OF RECYCLABLE MATERIALS



There are two components to the value of recyclable commodities; scrap value and CRV value. The scrap value indicates the dollar amount that end users or intermediate processors are willing to pay for a specific commodity. The CRV value indicates the total dollar amount that CalRecycle establishes for beverage containers that are included in the CRV program.

The overall scrap value outlook for 2017 is unstable. Recyclable materials are commodities, and as such they are subject to local, regional, and international forces of supply and demand.

Approximately 60% of the recyclable materials recovered in the MRF are fiber: Cardboard (OCC), Old Newspaper (ONP), and Mixed Paper. Demand for all fiber grades jumped in Q4 2016 as both domestic and export paper mills were scrambling for material. In early 2017 the supply of materials has been constrained due to unusual amounts of rain which have reduced the amount of dry marketable materials available in the market. As a result, fiber prices in Q1 2017 are nearing historic high levels, it is likely that there will be corrections, perhaps serious ones, later in the year.

The scrap values for other recyclable commodities are expected to fluctuate in ranges consistent with the past years. SBR finds no reason to think that 2017 levels for non-fiber scrap pricing will be materially different than the recent past. In 2016 the end user destination for MRF 3 Mix Glass changed from Hayward to Fairfield CA, and as such the additional transportation costs has resulted in a slight decrease in the value of MRF 3-Mix Glass.

CRV values are subject to funding received by CalRecycle, budgetary actions at the State level, changes to refund & processing payments, and regulatory changes which are sometimes driven by special interest groups. Although CalRecycle continues to report a “structural deficit”, there is no plan at this time for a proportional reduction in payments to be implemented in 2017.

# ENVIRONMENTAL HEALTH & SAFETY COMPLIANCE

## CREATING A CULTURE OF SAFETY

A safety culture exists within an organization when each individual employee, regardless of their position, assumes an active role in error prevention and that role is supported by the organization.



At SBR, we recognize that an ideal safety culture is the ‘engine’ that drives the system towards the goal of sustaining the maximum resistance towards its operational hazards. This goal is achieved irrespective of the organization's leader or current commercial concerns. What drives our safety program is a constant level of respect for anything that may bypass organizational safety systems. In other words, we are constantly looking for what can go wrong. It is very dangerous to think that an organization is safe because no information is saying otherwise. The culture we are creating requires safety management to be aware of the numerous factors that have an impact on the safety systems (i.e. human, technical, organizational, and environmental). SBRs safety culture is reflected and promoted by the following four factors:

- Senior management commitment to safety;
- Shared care and concern for hazards and a solicitude for their impacts on people;
- Realistic and flexible norms and rules about hazards; and
- Continual reflection upon practice through monitoring.

### **Preventative Measures**

SBR makes every effort to ensure it is in full compliance of the General Operating Standards and Services required under the Operating Agreement. SBRs approach is preventative versus reactive. To this regard, management works collaboratively with its employees, the SBWMA and other regulatory agencies to develop and implement preventative measures that will reduce the risk of injury to our employees and the public we serve.

Since the start of operations, SBR and the SBWMA identified the need to install an additional fire suppression systems, including those inside each of the fiber storage bunkers located in the Materials Recovery Facility (MRF). Over the years’ improvements were made to enhance the fire protection capabilities.



To ensure the operation is in compliance with Cal-OSHA standards, SBR contacted Cal-OSHA's Consulting Division and requested a post-operating review of the operation and its safe workplace practices program. Prior to startup of MRF operations, a representative of Cal-OSHA conducted a comprehensive inspection of the MRF and Transfer Station operations, and reviewed its safety programs, policies, procedures, and training regimen. As a result, Cal-OSHA identified areas of concern and made recommendations to its established programs. SBR has since corrected all areas of concern and have updated its safety program to include the recommended changes and trained staff and employees on the updated procedures.

## 2016 Incidents & Injures

Shown in the table below are the OSHA recordable incidents that occurred during 2016

<b>Date of Occurrence</b>	<b>Job Classification</b>	<b>Where Event Occurred</b>	<b>Description of Event</b>
7/8/2016	Mechanic	Truck Shop	Left finger contusion
7/6/2016	Sorter	Transfer Station	Strained right shoulder
9/8/2016	A/P Coordinator	Administrative Office	Smoke Inhalation
9/26/2016	Driver	Recology BVON	Wood log fell on leg
10/6/2016	MRF Operator	MRF	Dust in left eye
10/6/2016	Sorter	Transfer Station	Abdominal wall strain
11/19/2016	Sorter	Outside of Break Room	Slipped and fell, breaking arm

Shown in the table below are other incidents that occurred during 2016

<b>Date of Occurrence</b>	<b>Where Event Occurred</b>	<b>Description of Event</b>	<b>Disposition of Event</b>
02/08/16	Materials Recovery Facility (MRF)	As third-Party hauler was emptying a trailer, material ignited, causing a hot load.	Fire extinguished by SBR personnel. Contaminated material transferred to Transfer Station. Ignition source was lithium-ion battery.
03/30/16	Materials Recovery Facility (MRF)	Propane canister was crushed in the HRB baler, causing an explosion which ignited some stored baled material.	Baled materials were moved outside of the building, broken open and extinguished.
04/14/16	Materials Recovery Facility (MRF)	As curbside recyclables were being pushed, Operator noticed smoke coming from the material.	Smoking material was moved out of the building and extinguished. Ignition source was not identified.
07/07/16	Materials Recovery Facility (MRF)	Propane canister was crushed in the HRB baler, causing a small fire in the baler chamber and one bale of material.	Baled materials were moved outside of the building, broken open and extinguished. SBR cleared the HRB hopper of all materials and extinguished any remnants.
08/08/16	Materials Recovery Facility (MRF)	Propane canister was crushed in the HRB baler, causing a small fire in the baler chamber and one bale of material.	Baled materials were moved outside of the building, broken open and extinguished. SBR cleared the HRB hopper of all materials and extinguished any remnants.

<b>Date of Occurrence</b>	<b>Where Event Occurred</b>	<b>Description of Event</b>	<b>Disposition of Event</b>
09/07/16	Materials Recovery Facility (MRF)	Fire started in first news sort screen, igniting material which was conveyed to other areas of the processing equipment, causing significant damage. Please see "MRF Fire" in this report for further details	Fire Department responded and MRF was evacuated. Cause unknown, likely a lithium-ion battery.
09/11/16	Public Side of the Transfer Station	MSW in the Self-Haul side of the Transfer Station ignited, causing a moderate fire. Please see "Transfer Station Fire" in this Report for further details.	Fire Department responded. Cause unknown, likely chemical reaction.

Enhanced fire suppression was installed in the MRF between September and December 2016 which included five hose reels at strategic locations to access critical processing equipment, and sixty-five fire extinguishers were replaced with upgraded 10lb. foam cartridge fire extinguishers in strategic areas throughout the Facility. SBWMA and SBR are exploring other enhanced fire suppression systems such as, automatic foam suppression systems directly installed in mechanical processing equipment, and 24/7 monitoring systems that utilize Forward Looking Infra-Red (FLIR) technology to detect heat before materials ignite. Recology is committed to continue educating its customers on the types of materials that are acceptable to be placed in their waste, recycling and organics containers.

Other General Operating Standards and Services in place include, but are not limited to:

**Litter Control**

SBR has dedicated employees' who are assigned to collect and properly dispose of any litter or debris that may be on or adjacent to Shoreway Road between Ralston and Holly. These employees are also responsible for collecting and removing any debris found throughout the property at the Shoreway Facility. SBR has contracted with a commercial sweeping company who is required to sweep all areas within the Shoreway Facility and on Shoreway Road between Ralston and Holly twice per day.

**Vector Control**

SBR conducts its operations in such a manner as to ensure that conditions are unfavorable for production of rodents, insects and seagulls. To this regard, SBR ensures that all solid waste, organics and construction and demolition debris that enters the Transfer Station is loaded and transported to the disposal site or processing facilities within 48 hours of receipt. Since the start of operations, SBR has contracted with a vendor to provide pest control services throughout the buildings at the Shoreway Facility. SBR has also installed effective bird control measures which have significantly reduced the number of seagulls and crows present at the facility.

In late 2015, SBR was notified by OSHA of a complaint that rodents were noticed in the Transfer Station Break Room. SBR took immediate action to have the rodents removed and put measures into place to ensure rodents would not return.

## **Odor, Dust and Noise Control**

Odor, noise and dust are always a concern when operating a Transfer Station, Materials Recovery Facility and Transportation operation. Dust and odor control systems have been installed and are in good working condition at the Transfer Station and Materials Recovery Facility.

## **Regulatory Compliance**

SBRs management team conducts monthly facility and equipment inspections to ensure the facility and equipment are in good working condition and are in compliance with DOT and OSHA regulations, and facility Operating Permits. Any deficiencies or areas of concern are documented and corrected prior to the next inspection. SBR utilizes EEAP (Safety Consultant) to conduct quarterly, comprehensive facility inspections, reviews their findings with the General Manager and submits their report to the Company's Corporate Safety Manager.

San Mateo County Local Enforcement Agency (LEA) conducts monthly inspections to ensure the facility is operating in compliance with the Solid Waste Facilities Permit. SBR received no Notices to Correct (NOC) or Notices of Violation (NOV) from the LEA in 2016.

## **Employee Training**

SBRs management team conducts safety meetings each month with its employees. The training topics are listed below.

Bloodborne Pathogens	Fire Prevention & Suppression
Confined Space Entry	Hazard Communication
Driver Qualification and Inspection	Hearing Conservation
Emergency Response	Lock Out/Tag Out
Employee Observation	Personal Protective Equipment
Ergonomics	Seat Belt Use
Fall Protection	Spill Prevention Control & Containment

# SELF-HAUL DIVERSION

## Overview

SBR is required to divert a minimum of 30,000 tons per year of the total tons received from the public into the Shoreway Facility. Of the 82,915 tons received from the public, SBR diverted 38,505 tons, not including organics/yard trimmings, resulting in a 46% diversion rate. With the inclusion of organics/yard trimmings, SBR diverted 44,160 tons, resulting in a total diversion rate of 53%.



SBR will continue to collaborate with the SBWMA to improve diversion, including from the inbound franchise tons, in particular as it relates to the Mixed Waste Processing project which is currently in the evaluation stage.

## Sorting Operations

Self-haul customers who enter the transfer station are directed by Spotters to the appropriate tipping area. Once the customer has completed unloading their material, Sorters identify recyclable and/or reusable materials and recover these items for further processing. Sorters also remove contaminants from the organics such as plastic bags, flower pots, and other unacceptable materials. Equipment Operators support the sorting staff by separating loads and removing heavy items for diversion.

## Self-Haul Customer Incentives

SBR collaborated with the SBWMA to establish an incentive fee structure for clean inert and wood materials. Customers receive a reduced rate of 20-25% to encourage additional volumes of these types of materials.

## Recovered Materials

SBR Sorters are trained to identify and recover recyclable materials from the various waste streams. SBR has designated areas where recovered recyclable materials are stored until they can be processed or sold. In some cases, the material is set aside as a specific grade, and in other cases materials are culled or pulled from mixed materials. These materials include:



Appliances  
Refrigerators  
Tires  
Electronics

Cardboard  
Scrap Metal  
Clean Wood  
Mixed Rigid Plastic

Mattresses  
Sofas  
Garage doors

## FUTURE OPTIONS UNDER CONSIDERATION

SBR is intent on identifying opportunities to expand the diversion efforts at the Shoreway Facility. Our plan is to work directly with the SBWMA staff on the use of mechanical technologies and appropriate staffing levels to expand recycling efforts. Throughout 2017 SBR will work cooperatively with SBWMA and Recology to identify materials in the Transfer Station that can be recycled or diverted for beneficial use. Space constraints are the biggest obstacle, both in the Transfer Station and the MRF. SBR continues to participate in the Long-Range Planning process, which includes, evaluating markets that will bring new opportunities to enhance diversion.

### **Mixed Waste Processing**

SBR will continue to work with SBWMA and/or their consultants to identify materials from certain collection routes that could be sorted in the Transfer Station. Sampling and testing will take place, and based on the results, SBR will work directly with the SBWMA to evaluate mechanical sorting/screening opportunities in the Transfer Station.

The greatest opportunity seems to be recovering energy from high moisture organics and food waste culled from MSW. Overall, the materials in the Transfer Station seem best suited for energy recovery or composting due to the high moisture content. Much of the fiber in the Transfer Station is cross contaminated from MSW and moisture and as such are not acceptable for traditional paper fiber recycling, but there is a possibility that beverage containers, metals and some rigid plastics could be recovered in the Transfer Station.

### **Clean Wood Recovery**

SBWMA has requested SBR to participate in a Clean Wood Recovery and Diversion Pilot Program. SBR will manually and mechanically recover clean wood and divert this material from Zanker Road to a bio fuels processor, where this material can be converted to bio fuel at a lesser cost to the SBWMA. Residential customers who segregate clean wood from other materials they are bringing into the Shoreway Facility, will be able to tip this material at no charge.

### **Carpet Recovery & Recycling**

SBR plans to engage with Carpet America Recovery Effort (CARE), which serves as the stewardship organization administering the California Carpet Stewardship Program. Under this program, SBR recovers carpet from various waste streams which are loaded into a trailer. CARE transports the material to a State Certified Carpet Recycler for further processing.

## CIVIC ENGAGEMENT

South Bay Recycling recognizes that our business is unique; touching nearly every resident and business in the communities we serve. Ours is truly a public-private partnership. We also recognize the importance of community involvement, from civic and charitable endeavors to business and government participation.

South Bay Recycling has developed a Civic Engagement Plan with the intent for this to become as much a part of our culture as providing world-class service to our customers. We want to continue and be a visible and valued organization focused on making a real impact on what's most important for those communities we serve.

### **Earth Day**

SBR participated in the Earth Day Event hosted by the SBWMA at the Shoreway Facility. SBR employees manned a booth where attendees were provided educational materials and information on the importance of recycling.



A bale of crushed aluminum cans was placed adjacent to SBRs booth and visitors were given the opportunity to estimate the number of bottles in the bale.

The person coming closest to the correct number was awarded a motorized scooter.



### **America Recycles Day**

SBR participated in America Recycles Day, hosted by the SBWMA at the Shoreway Facility. SBR employees manned a booth where visitors were provided educational information on the importance of recycling.

A bale of crushed plastic bottles was placed adjacent to SBRs booth and visitors were given the opportunity to estimate the number of bottles in the bale.



The person coming closest to the correct number was awarded a 10-speed Road Touring Bicycle.

## **Relay for Life**

South Bay Recycling was proud to have been able to participate in the American Cancer Society's Relay for Life, which is their signature fundraising event. Relay is staffed and coordinated by volunteers in more than 5,200 communities and 20 countries. Volunteers give of their time and effort because they believe it's time to take action against cancer. Relay is a team fundraising event where team members take turns walking around a track or designated path.

