Overall Military Waste

The composition data in this section is the combination of samples from two substreams:

1. The 32 hand sorted franchise military samples. These samples were either refuse or C&D materials originating at one of two military bases in San Diego: MCAS or 32nd Street (NAVSTA).

2. The 32 visually characterized military self-haul samples. These samples were either refuse or C&D materials originating at any military base that regularly hauls waste to Miramar Landfill.

Table 12. Included Substreams and Tons, Overall Military Waste

Included Substreams	Tons
Franchise Collected Military	21,480
Military Self-haul Small Vehicles	36
Military Self-haul Large Vehicles	501
Military Self-haul Extra Large Vehicles	2,960
Total Disposal in Substream	**24,977**

The substreams included in the overall military waste stream and their associated tonnages are shown in Table 12.

Key Findings

Three quarters (75%) of the overall military waste is recoverable, primarily Compostable/Potentially Compostable materials (33%), Recyclable materials (21%), and Potentially Recoverable materials (21%). **Construction & Demolition** (40%) and **Paper** (19%) are the most common material classes in the waste. This information is summarized in Figure 14 and Figure 15.

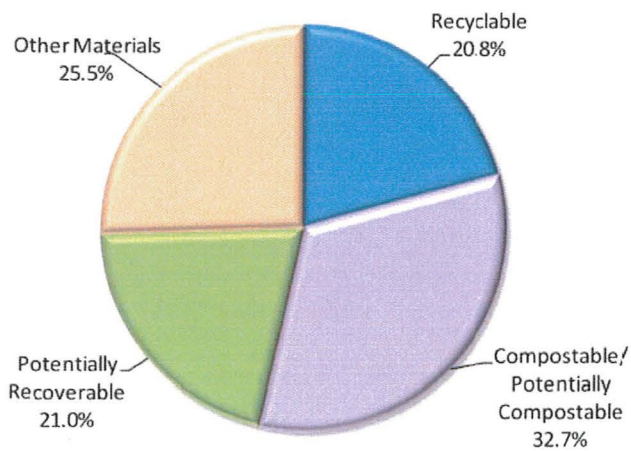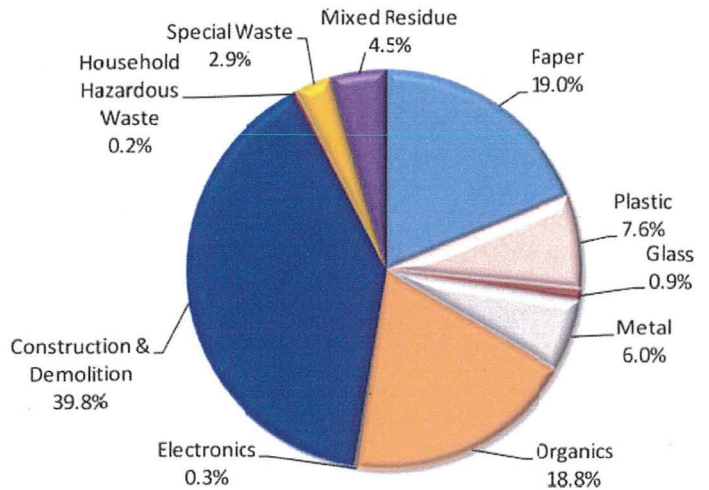Figure 14. Composition by Recoverability Group, Overall Military, 2012

Figure 15. Composition by Material Class, Overall Military, 2012
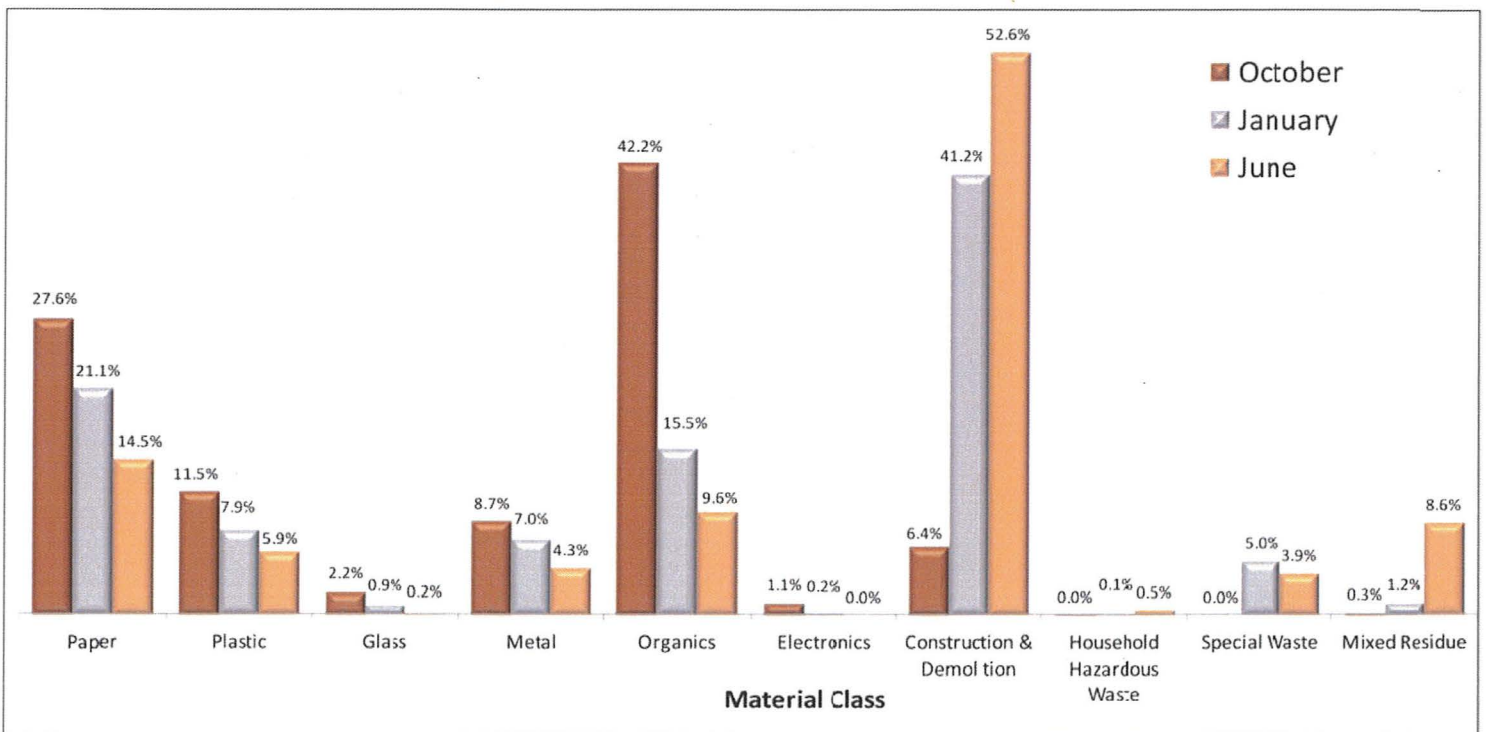
Clean pallets and crates (12%), *food* (11%), and *other wood waste* (9%) are the three most prevalent materials in the overall military waste. As shown in Table 13, together they represent approximately 32% of the waste.

**Table 13. Ten Most Prevalent Disposed Material Types,
Overall Military, 2012**

Material Type	Estimated Percent	Cumulative Percent	Estimated Tons
Clean Pallets and Crates	12.0%	12.0%	2,986
Food	10.9%	22.9%	2,728
Other Wood Waste	8.7%	31.6%	2,174
Clean Engineered Wood	7.9%	39.5%	1,979
Uncoated Corrugated Cardboard	6.4%	45.9%	1,601
Compostable/Soiled Paper	5.1%	51.0%	1,280
Mixed Residue	4.5%	55.5%	1,121
Rock, Soil and Fines	3.5%	59.0%	877
Textiles	3.4%	62.5%	858
Mixed Waste Paper	2.9%	65.4%	729
Subtotal	*65.4%*		*16,333*
All other material types	34.6%		8,644
Total	**100.0%**		**24,977**

As illustrated in Figure 16, the prevalence of the **Construction and Demolition** materials in the overall military waste increased each season. Most of the other material classes displayed a downward trend from October to June.

Figure 16. Seasonal Composition by Material Class, Overall Military, 2012

The detailed composition of the overall military waste is shown in Table 14.

Table 14. Detailed Waste Composition, Overall Military, 2012

Material	Estimated Percent	+/-	Estimated Tons	Material	Estimated Percent	+/-	Estimated Tons
Paper	**19.0%**		**4,748**	**Electronics**	**0.3%**		**81**
Uncoated Corrugated Cardboard	6.4%	3.0%	1,601	Brown Goods	0.0%	0.0%	0
Waxed Corrugated Cardboard	0.0%	0.0%	1	CRT	0.2%	0.4%	53
Paper Bags	0.3%	0.2%	80	Computer-Related Electronics	0.1%	0.1%	20
Newspaper	0.3%	0.2%	76	Other Consumer Electronics	0.0%	0.0%	8
White Ledger Paper	2.5%	1.5%	617	Video Display Devices (non-CRT devices)	0.0%	0.0%	0
Mixed Waste Paper	2.9%	0.8%	729				
Magazines	0.2%	0.1%	56	**Construction & Demolition**	**39.8%**		**9,936**
Phone Books and Directories	0.0%	0.0%	0	Concrete	0.3%	0.3%	65
Compostable/Soiled Paper	5.1%	2.5%	1,280	Asphalt Paving	2.9%	4.0%	725
Aseptic/Milk Containers	0.0%	0.0%	5	Asphalt Composition Shingles	0.0%	0.0%	4
Remainder/Composite Paper	1.2%	0.7%	303	Roofing Tar Paper/Felt	0.0%	0.0%	2
				Roofing Mastic	0.0%	0.0%	0
Plastic	**7.6%**		**1,889**	Built-Up Roofing	0.0%	0.0%	0
CRV HDPE Containers	0.0%	0.0%	9	Other Asphalt Roofing Material	0.0%	0.0%	5
Non-CRV HDPE Containers	0.3%	0.1%	66	Clean Dimensional Lumber	1.2%	1.3%	303
CRV PETE Containers	0.5%	0.2%	114	Clean Engineered Wood	7.9%	9.7%	1,979
Non-CRV PETE Containers	0.2%	0.1%	40	Clean Pallets and Crates	12.0%	6.0%	2,986
Compostable Biodegradable Plastic Containers	0.0%	0.0%	0	Other Wood Waste	8.7%	3.8%	2,174
Miscellaneous Plastic Containers	0.5%	0.2%	114	Clean Gypsum Board	0.1%	0.1%	23
Plastic Grocery and Merchandise Bags	0.2%	0.1%	51	Painted/Demolition Gypsum Board	0.3%	0.3%	64
Clean Film Plastic	0.4%	0.3%	107	Carpet & Carpet Padding	0.6%	0.6%	154
Dirty Film Plastic	2.1%	0.9%	519	Rock, Soil and Fines	3.5%	3.6%	877
Durable Plastic Items	1.7%	0.9%	412	Contaminated Soil, Street Sweepings, Drain Cleaning	1.1%	0.9%	275
Expanded Polystyrene	0.5%	0.3%	117	Remainder/Composite C&D	1.2%	1.3%	301
Remainder/Composite Plastic	1.4%	0.9%	340				
				Household Hazardous Waste	**0.2%**		**56**
Glass	**0.9%**		**224**	Oil-Based Paint	0.0%	0.0%	0
CRV Clear Glass Bottles	0.2%	0.1%	46	Water-Based Paint	0.0%	0.0%	0
Non-CRV Clear Glass Bottles and Containers	0.1%	0.0%	15	Vehicle and Equipment Fluids	0.0%	0.0%	1
CRV Brown Glass Bottles	0.1%	0.1%	30	Used Oil	0.0%	0.0%	0
Non-CRV Brown Glass Bottles and Containers	0.0%	0.0%	3	Lead-Acid Batteries	0.0%	0.0%	0
CRV Other Colored Glass Bottles	0.0%	0.0%	9	Household Batteries	0.0%	0.0%	3
Non-CRV other Colored Glass Bottles and Containers	0.1%	0.2%	29	Sharps	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	6	Pharmaceuticals	0.2%	0.3%	51
Remainder/Composite Glass	0.3%	0.3%	87	CFL, Fluorescent Tube and Other Mercury-Containing	0.0%	0.0%	0
				Remainder/Composite Household Hazardous	0.0%	0.0%	0
Metal	**6.0%**		**1,498**				
Tin/Steel Cans	0.2%	0.1%	39	**Special Waste**	**2.9%**		**736**
Major Appliances	0.4%	0.7%	105	Ash	0.0%	0.0%	0
Other Ferrous Metal	1.6%	1.6%	408	Sewage Solids	0.0%	0.0%	0
CRV Aluminum & Tin Cans	0.3%	0.2%	85	Industrial Sludge	0.0%	0.0%	0
Non-CRV Aluminum Cans	0.0%	0.0%	8	Treated Medical Waste	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Bulky Items	2.8%	2.6%	694
Other Non-Ferrous Metal	0.5%	0.5%	126	Tire	0.0%	0.0%	0
Remainder/Composite Metal	2.9%	2.7%	728	Remainder/Composite Special Waste	0.2%	0.3%	42
Organics	**18.8%**		**4,688**	**Mixed Residue**			**1,121**
Food	10.9%	4.9%	2,728	Mixed Residue	4.5%	4.3%	1,121
Palm, Succulent, Coral Tree	1.9%	1.7%	480				
Leaves and Grass	0.9%	0.9%	219	**Total**	**100.0%**		**24,977**
Prunings and Trimmings	0.5%	0.4%	126				
Branches and Stumps	0.2%	0.3%	46	Curbside Residential Recycling Processing Residuals			0
Agricultural Crop Residues	0.0%	0.0%	0	C&D Processing Residuals			0
Grass Sod	0.0%	0.0%	0				
Manures	0.0%	0.0%	0	**Total Including Residuals**			**24,977**
Diapers	0.1%	0.2%	32				
Textiles	3.4%	1.9%	858	**Sample Count**			**64**
Remainder/Composite Organics	0.8%	0.4%	199				

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.