

# A Resource Guide for Environmentally Preferable Products



Environmentally Preferable Purchasing Program  
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# A Resource Guide for Environmentally Preferable Products

## Introduction

This Resource Guide provides a list of commercial products and the environmental attributes to consider when purchasing or specifying these products. This resource was developed to assist Alameda County businesses and public agencies purchase environmentally preferable products.

Environmental attributes of products may include the product's ability to be:

- reusable,
- less toxic,
- energy-efficient,
- water-conserving,
- remanufactured,
- rechargeable,
- recyclable or
- more durable.

Product attributes may also include:

- reduced packaging or
- a product made from bio-based or
- recycled materials.



Environmental issues surrounding products are complex and take time to learn, so this Resource Guide aims to simplify the process. It contains a list of over 100 environmentally preferable products by product category. It provides environmental standards and/or guidelines that can be incorporated into purchasing requirements. Additional resources are also provided.

Several U.S. and international organizations and agencies have developed highly acclaimed environmental guidelines and standards. For instance, the U.S. Environmental Protection Agency (EPA) has established Comprehensive Procurement Guidelines (CPG) that recommend minimum recycled content levels for dozens of products. The U.S. Department of Agriculture provides guidance on purchasing bio-based products. The EPA's ENERGY STAR program has more than 35 product categories, each with an ENERGY STAR label indicating these products use less

energy than competing products and reduce both energy costs and environmental impacts. Certification organizations, such as Green Seal (GS) and Scientific Certification Systems (SCS), provide third party certification for green marketing claims. Outside of the United States, there are several eco-labeling programs, including programs in Canada, Japan, Germany and Denmark.

Environmental standards and guidelines are a useful tool for purchasers. The U.S. EPA has used them to identify and increase their purchase of office supplies that are environmentally preferable. Federal agencies, such as the Department of Energy, NASA and the National Park Service, have successfully used environmental standards on purchases to meet laws requiring federal agencies to give preference to environmentally preferable products and services.

Organizations interested in incorporating environmental attributes into purchasing practices, as others have done, can use this resource to help get started. First, identify and prioritize a few products appropriate for your organization. Include the standards and/or specifications provided in this report in your purchasing language. In some cases, additional product resources are also provided.

For questions or assistance:

- **Local governments in Alameda County** can contact Debra Kaufman <[dkaufman@stopwaste.org](mailto:dkaufman@stopwaste.org)> or Rachel Balsley <[rbalsley@stopwaste.org](mailto:rbalsley@stopwaste.org)> for information about technical and financial environmental purchasing assistance. Also see [www.StopWaste.Org/EPP](http://www.StopWaste.Org/EPP)
- **Alameda County businesses** can contact Rachel Balsley <[rbalsley@stopwaste.org](mailto:rbalsley@stopwaste.org)> or Rory Bakke <[rbakke@stopwaste.org](mailto:rbakke@stopwaste.org)> for information about the StopWaste Partnership for technical assistance and funding. Also see [www.StopWaste.Org/Partnership](http://www.StopWaste.Org/Partnership)
- **Call toll-free** for assistance at (877) STOPWASTE (786-7927).

**This resource guide contains a list of over 100 environmentally preferable products by product category. See inside!**

**STOPWASTE.ORG**  
Reducing the Waste Stream for Alameda County

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<b>Paper Office Supplies – Cut and Continuous Paper</b>			
Copy paper	<p>EPA: Minimum 30% post-consumer content (the percent of the product containing materials once used by consumers and recycled into new products)</p> <p>Green Seal adds: And/or free of chlorine or any derivatives as a bleaching agent (such as paper labeled "PCF," processed chlorine-free)</p>	<p>U.S. Environmental Protection Agency (EPA)'s Comprehensive Procurement Guidelines (CPG), <a href="http://www.epa.gov/cpg/products.htm#paper">www.epa.gov/cpg/products.htm#paper</a></p> <p>Green Seal's Printing &amp; Writing Paper Standard, GS-07, <a href="http://www.greenseal.org/standards/gs-7standard.pdf">www.greenseal.org/standards/gs-7standard.pdf</a></p>	<p>StopWaste.Org's "Environmentally Preferable Paper Office Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a></p> <p>Green Seal's Choose Green Report, <a href="http://www.greenseal.org/recommendations/CGR=CopyPaper.pdf">www.greenseal.org/recommendations/CGR=CopyPaper.pdf</a></p>
Copy paper - Colored	Minimum 30% post-consumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products.htm#paper">www.epa.gov/cpg/products.htm#paper</a>	StopWaste.Org's "Environmentally Preferable Paper Office Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
<b>Paper Office Supplies - Printing and Writing Paper</b>			
Reprographic			Business paper such as bond, copy, mimeo, and duplicator.
Offset	<p>EPA: Minimum 30% postconsumer content;</p> <p>Green Seal adds: And/or free of chlorine or any derivatives as a bleaching agent (such as paper labeled "PCF," processed chlorine-free)</p>	<p>EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a></p> <p>Green Seal's Printing &amp; Writing Paper Standard, GS-07, <a href="http://www.greenseal.org/standards/gs-7standard.pdf">www.greenseal.org/standards/gs-7standard.pdf</a></p>	Used for book publishing, direct mail, technical documents, manuals.
Tablet			Office paper such as note pads, notebooks.
Forms bond			Bond type papers such as continuous, cash register, sales book, computer printout.
Envelopes, Wove			
Envelopes, Kraft, white and colored (including manila)	Minimum 10-20% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a>	
Envelopes, Kraft, unbleached	Minimum 10% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a>	
Cotton fiber	<p>EPA: Minimum 30% postconsumer content</p> <p>Green Seal adds: And/or free of chlorine or any derivatives as a bleaching agent (such as paper labeled "PCF," processed chlorine-free)</p>	<p>EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a></p> <p>Green Seal's Printing &amp; Writing Standard, GS-07, <a href="http://www.greenseal.org/standards/gs-7standard.pdf">www.greenseal.org/standards/gs-7standard.pdf</a></p>	High quality papers for stationery, invitations
Text and cover			Premium paper used for cover stock, books, and stationery and matching envelopes

<b>Product Category &amp; Products</b>	<b>Environmental Attributes to Consider When Purchasing</b>	<b>Green Standard/Guidelines</b>	<b>Notes/Further Information</b>
Supercalendered	Minimum 10% postconsumer content	EPA's CPG <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a>	Groundwood paper use for advertising and mail order inserts, catalogs and some magazines
Machine finished groundwood			Groundwood paper used in magazines and catalogs
Papeteries	Minimum 30% postconsumer		Used for invitations and greeting cards
Check safety	Minimum 10% postconsumer		Used in the manufacture of commercial and government checks
Coated	Minimum 10% postconsumer content	EPA's CPG <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a> Green Seal's Coated Paper Standard, GS-10, <a href="http://www.greenseal.org/standards/coatedprintingpaper.htm">www.greenseal.org/standards/coatedprintingpaper.htm</a>	Used for annual reports, posters, magazines
Carbonless	Minimum 30% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a> Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
File folders			Manila or colored
Dyed filing products	Used for multicolored hanging folders and wallet files		
Index and card stock	Used for index cards and postcards		
Pressboard	High -strength paperboard used in binders and report covers		
Tags and tickets	Used for toll and lottery tickets		
Self-stick notes	Minimum 30% postconsumer content		EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a>  Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>
<b>Paper Office Supplies - Miscellaneous Papers</b>			
Tray Liners	Minimum 50% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/printing.htm">www.epa.gov/cpg/products/printing.htm</a>	
Newsprint	20-85% postconsumer content		

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<b>Paper Office Supplies - Commercial/Sanitary Industrial Tissue</b>			
Paper Towels	EPA: Minimum 40-60% postconsumer content; Green Seal adds: unbleached or processed chlorine free (PCF)	EPA's CPG, <a href="http://www.epa.gov/cpg/products/tissue.htm">www.epa.gov/cpg/products/tissue.htm</a> ;  Green Seal's Paper Towel Standard, GS-09, <a href="http://www.greenseal.org/standards/papertowels.htm">www.greenseal.org/standards/papertowels.htm</a>	Green Seal's Choose Green Report, <a href="http://www.greenseal.org/recommendations/CGR_tissuetowel.pdf">www.greenseal.org/recommendations/CGR_tissuetowel.pdf</a>
Toilet Tissue	EPA: Minimum 20-60% postconsumer content; Green Seal adds: unbleached or processed chlorine free (PCF)	EPA's CPG, <a href="http://www.epa.gov/cpg/products/tissue.htm">www.epa.gov/cpg/products/tissue.htm</a> ;  Green Seal's Tissue Paper Standard, GS-01, <a href="http://www.greenseal.org/standards/tissuepaper.htm">www.greenseal.org/standards/tissuepaper.htm</a>	StopWaste.Org's "Environmentally Preferable Janitorial Paper Supplies" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Facial Tissue	EPA: Minimum 10-15% postconsumer content; Green Seal adds: unbleached or processed chlorine-free (PCF)	EPA's CPG, <a href="http://www.epa.gov/cpg/products/tissue.htm">www.epa.gov/cpg/products/tissue.htm</a> ;  Green Seal's Tissue Paper Standard, GS-01, <a href="http://www.greenseal.org/standards/tissuepaper.htm">www.greenseal.org/standards/tissuepaper.htm</a>	Green Seal's Choose Green Report, <a href="http://www.greenseal.org/recommendations/CGR_tissuetowel.pdf">www.greenseal.org/recommendations/CGR_tissuetowel.pdf</a>  StopWaste.Org's "Environmentally Preferable Janitorial Paper Supplies" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Seat Covers	Minimum 40% postconsumer content	U.S. Department of Interior (DOI) specifications, <a href="http://www.epa.gov/epp/pubs/ppg/case/doicase.htm">www.epa.gov/epp/pubs/ppg/case/doicase.htm</a>	
Paper napkins	EPA: Minimum 30-60% postconsumer content; Green Seal: 40% postconsumer content or unbleached or processed chlorine-free (PCF)	EPA's CPG, <a href="http://www.epa.gov/cpg/products/tissue.htm">www.epa.gov/cpg/products/tissue.htm</a> ; Green Seal's Paper Towel Standard, GS-09, <a href="http://www.greenseal.org/standards/papertowels.htm">www.greenseal.org/standards/papertowels.htm</a>	StopWaste.Org's "Environmentally Preferable Janitorial Paper Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
General purpose industrial wipers	Minimum 40% postconsumer content	EPA's CPG <a href="http://www.epa.gov/cpg/products/tissue.htm">www.epa.gov/cpg/products/tissue.htm</a>	
<b>Paper Office Supplies - Paperboard and Packaging Products</b>			
Corrugated containers	<300psi: 25-50% postconsumer, 300psi: 25-30% postconsumer content	EPA's CPG <a href="http://www.epa.gov/cpg/products/paperbrd.htm">www.epa.gov/cpg/products/paperbrd.htm</a>	
Solid fiber boxes	40% postconsumer content		
Folding cartons	45-80% postconsumer content		
Industrial paperboard	45-100% postconsumer content		
Miscellaneous	75-100% postconsumer content		
Padded mailers	5-15% postconsumer content		
Carrierboard	10-15% postconsumer content		
Brown papers	5-20% postconsumer content		

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<b>Nonpaper Office Supplies</b>			
Inkjet and Toner Cartridges	<p>Green Seal: All remanufactured cartridges tested by manufacturer, parts removed from spent cartridges, recycled content in replacement parts;</p> <p>EPA recommends agencies procure remanufactured toner cartridges or new toner cartridges with recovered materials (includes both pre-consumer and post-consumer content).</p>	<p>Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a></p> <p>EPA's CPG for Toner Cartridges, <a href="http://www.epa.gov/cpg/products/toner.htm">www.epa.gov/cpg/products/toner.htm</a></p>	<p>StopWaste.Org's "Remanufactured Toner Cartridges in Alameda County" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a></p> <p>State of California CIWMB Standard for Printer and Toner Cartridges under development, <a href="http://www.ciwmb.ca.gov/EPP/Cartridges">www.ciwmb.ca.gov/EPP/Cartridges</a></p>
Ribbons (Printer)	Procure printer ribbons reinking or reloading services or procure reinked or reloaded printer ribbons	EPA's CPG, <a href="http://www.epa.gov/cpg/products/ribbons.htm">www.epa.gov/cpg/products/ribbons.htm</a>	
Diskettes, Floppy	Reuse old disks. A "full" or "unconditional" formatting erases all old data and makes the disk fully usable again; recycled floppy disks are available	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
CD's	Reuse for data storage only if they are rewritable. Scratched disks may be refinished. No need for plastic jewel cases when purchasing new ones.		
Plastic Desktop Accessories (desk organizers, sorters, trays, and memo, note and pencil holders)	<p>EPA: 25-80% postconsumer content;</p> <p>Consider alternatives to vinyl (PVC) products</p>	EPA's CPG, <a href="http://www.epa.gov/cpg/products/desktop.htm">www.epa.gov/cpg/products/desktop.htm</a>	Sustainable Hospitals: Reducing PVC in the Office, <a href="http://www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp">www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp</a>
Plastic Envelopes	Minimum 25% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/envelope.htm">www.epa.gov/cpg/products/envelope.htm</a>	
Binders, Solid Plastic	<p>HDPE: 90% postconsumer content, PE: 30-50% postconsumer content</p> <p>PET: 100% postconsumer content</p> <p>Misc. Plastics: 80% postconsumer content</p>	EPA's CPG, <a href="http://www.epa.gov/cpg/products/bindings.htm">www.epa.gov/cpg/products/bindings.htm</a>	

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Binders, 3-ring, Plastic covered paperboard	Green Seal: Plastic: minimum 25% total recycled content, Paperboard: minimum 75% postconsumer content and bleached without elemental chlorine;  Consider polypropylene (PP, #5) or metal instead of vinyl (PVC, #3) covers	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	Sustainable Hospitals: Reducing PVC in the Office, <a href="http://www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp">www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp</a>
Binders, Paper covered paperboard	75% postconsumer content and bleached without elemental chlorine, preferably chlorine-free or unbleached	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
Binders, Cardboard	100% postconsumer content and chlorine-free	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a> EPA's CPG, <a href="http://www.epa.gov/cpg/products/bindings.htm">www.epa.gov/cpg/products/bindings.htm</a>	
Office Waste & Recycling Receptacles	Plastic: 20-100% postconsumer content  Steel: usually has recycled content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/office.htm">www.epa.gov/cpg/products/office.htm</a>	StopWaste.Org's "Environmentally Preferable Nonpaper Office Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Clipboards	Minimum 50% postconsumer content	Green's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
Pens and pencils	Choose refillable. If single-use, look for 50% postconsumer		
Paper Clips	Consider metal or plastic paper clips instead of vinyl (PVC) coated paper clips		
Report Covers	Consider polypropylene or pressboard covers instead of vinyl (PVC) covers		Sustainable Hospitals: Reducing PVC in the Office, <a href="http://www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp">http://www.sustainablehospitals.org/HTMLSrc/IP_factsheet_contents.html#epp</a>
Sheet Protectors	Consider polypropylene instead of vinyl (PVC) sheet covers		
Deskside Recycling Boxes	Corrugated paper: 25-50% postconsumer Solid fiber boxes: 40% postconsumer Industrial paperboard: 40-80% postconsumer	EPA's CPG, <a href="http://www.epa.gov/cpg/products/office.htm">www.epa.gov/cpg/products/office.htm</a>	

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Highlighters and markers	Water base, certified AP nontoxic ("approved product" by Arts and Creative Materials Institute, ACMI), conforming to ASTM D-4236. Choose refillable if available.  Dry erase or permanent markers: choose "low odor."	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
Batteries	Choose rechargeable (where applicable), longer lasting; request product take-back for rechargeable batteries bought.	INFORM, <a href="http://www.informinc.org/fact_CWPbattery.php">www.informinc.org/fact_CWPbattery.php</a>	
Correction fluid	Non-ozone depleting, water based, non-toxic	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	
Transparencies	Minimum 25% post-consumer content	Green Seal's Choose Green Report: Office Supplies, <a href="http://www.greenseal.org/recommendations/CGR_officesupplies.pdf">www.greenseal.org/recommendations/CGR_officesupplies.pdf</a>	Canada's Environmental Choice also has a standard, <a href="http://www.environmentalchoice.com">www.environmentalchoice.com</a>
<b>Office Equipment</b>			
Copiers	Duplex copying; ENERGY STAR; compatible with recycled content products (i.e., paper, remanufactured toner cartridges); uses an organic photoreceptor; does not emit ozone, dust, styrene in excess of stated amounts; no PBBs (or polybrominated biphenyls) or PBDEs (polybrominated diphenyl ethers); design for remanufacturing and reuse of parts; minimal packaging and/or packaging take-back; vendor takes back at end of life for reuse/recycling	EPA's "Green Copier Attributes," <a href="http://www.epa.gov/epp/pubs/copiers/copiers.htm">www.epa.gov/epp/pubs/copiers/copiers.htm</a> ; ENERGY STAR, <a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CP">www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CP</a>	State of California Department of General Services "Copier and Associated Services" Contract #1S-05-36-20 incorporates EPA's "green attributes" <a href="http://www.pd.dgs.ca.gov/StratSourcing/Specs/DigitalCopiers.htm">www.pd.dgs.ca.gov/StratSourcing/Specs/DigitalCopiers.htm</a> ;  City of Seattle vendor questionnaire, <a href="http://www.seattle.gov/environment/Documents/VendorQuestionnaire.pdf">www.seattle.gov/environment/Documents/VendorQuestionnaire.pdf</a>
Printers	Double-sided printing option; ENERGY STAR; compatible with recycled content products	ENERGY STAR, <a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=PR">www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=PR</a>	

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Computers	ENERGY STAR; require product take-back for reuse or environmentally safe recycling; minimize product packaging; mandate low levels of toxic materials; When available (estimated June 2006), computer products must meet one of three tiers of EPEAT (gold, silver, bronze). EPEAT (the Electronic Product Environmental Assessment Tool) contains 22 mandatory criteria and 33 optional criteria in 8 categories. To qualify for acceptance as an EPEAT product, products must conform to all mandatory criteria.	Principles for Purchasing EP Computers, Monitors & Peripherals (Center for a New American Dream, <a href="http://www.newdream.org">www.newdream.org</a> ); A Guide to EP Computer Purchasing (Northwest Product Stewardship Council); American National Standards Institute (ANSI) IEEE (P1680) expected to be final in Spring 2006, will contain EPEAT criteria, <a href="http://www.epeat.net">www.epeat.net</a>	Electronic Product Environmental Assessment Tool (EPEAT) to be finalized in 2006 to help purchasers evaluate computers on their environmental attributes, <a href="http://www.epeat.net">www.epeat.net</a> ; California officially adopted EPEAT as state's green purchasing criteria for electronics in June 2005, <a href="http://www.ciwm.ca.gov/agendas/mtgdocs/2005/06/00018637.doc">www.ciwm.ca.gov/agendas/mtgdocs/2005/06/00018637.doc</a> ; U.S. Dept of Interior IT Hardware RFP, <a href="http://www.blm.gov/natacq/IT/">www.blm.gov/natacq/IT/</a>
<b>Janitorial Cleaners and Products</b>			
All Purpose Cleaner Window Cleaner Bathroom Cleaner Cleaner/Degreasers	Meet or be certified as meeting Green Seal's Industrial and Institutional Cleaners Standard (GS-37)	Green Seal's Industrial and Institutional Cleaners Standard, GS-37, <a href="http://www.greenseal.org/standards/g37.pdf">www.greenseal.org/standards/g37.pdf</a>	
Hand soap, Liquid	Not antibacterial; product pH between 6 and 8.5	National consensus based criteria developed by a work group and first used in the Commonwealth of Massachusetts RFQ, <a href="http://www.mass.gov/epp/products/cleaning.htm">www.mass.gov/epp/products/cleaning.htm</a>	The Center for a New American Dream's work group defined what some are calling "the national consensus-based criteria," <a href="http://www.newdream.org/clean">www.newdream.org/clean</a> . They have a list of approved products on their website.
Furniture Polish	National consensus-based criteria, similar to Green Seal's GS-37 standard	The Center for a New American Dream's work group developed criteria that has been used in the City of Santa Monica's 2004 bid. For a copy of this bid, call Karl Bruskotter at 310-458-2255; visit <a href="http://www.newdream.org/clean">www.newdream.org/clean</a>	
Carpet Cleaner	Meet or be certified as meeting Green Seal's Industrial and Institutional Cleaners Standard (GS-37); Comply with California Code of Regulations for maximum allowable VOC content levels.	Green Seal's Industrial and Institutional Cleaners Standard, GS-37, <a href="http://www.greenseal.org/standards/g37.pdf">www.greenseal.org/standards/g37.pdf</a>	
Floor-Care Products: Finishes and Strippers	Meet or be certified as meeting Green Seal's Industrial and Institutional Floor-Care Products Standard (GS-40)	Green Seal's Industrial and Institutional Floor-Care Products Standard, GS-40, <a href="http://www.greenseal.org/standards/g40.pdf">www.greenseal.org/standards/g40.pdf</a>	Green Seal's Choose Green Report, <a href="http://www.greenseal.org/recommendations/CGR_floorcare.pdf">www.greenseal.org/recommendations/CGR_floorcare.pdf</a>

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Disinfectant	Meet Green Seal's Industrial and Institutional Cleaners Standard, GS-37, except for biodegradability	National consensus based criteria developed by a work group and first used in the Commonwealth of Massachusetts' RFQ, <a href="http://www.mass.gov/epp/products/cleaning.htm">www.mass.gov/epp/products/cleaning.htm</a>	The Center for a New American Dream's work group defined what some are calling "the national consensus-based criteria," <a href="http://www.newdream.org/clean">www.newdream.org/clean</a> . They have a list of approved products on their website.
Plastic Trash Bags	Manufacturer must meet the recycled content manufacturing requirements by State of CA.	Manufacturing Guideline, State of CA Integrated Waste Management Board, Public Contract Code 42291-42297, <a href="http://www.ciwmb.ca.gov/Buyrecycled/TrashBags/">www.ciwmb.ca.gov/Buyrecycled/TrashBags/</a> EPA's CPG: 10-100% postconsumer content	StopWaste.Org's "Environmentally Preferable Nonpaper Office Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
<b>Food Service Products</b>			
Rigid or Hinged Containers	Select non-rigid packaging when suitable for your service needs; use packaging from a renewable resource; buy recycled and/or unbleached fiber content; use the minimum weight within food packaging type.	Green Seal's Food Service Packaging Standard, GS-35, <a href="http://www.greenseal.org/standards/food-servicepackages_parta.htm">www.greenseal.org/standards/food-servicepackages_parta.htm</a>	
Flexible Wraps	Select non-rigid packaging when suitable for your service needs; use packaging from a renewable resource; buy recycled and/or unbleached fiber content; use the minimum weight within food packaging type.	Green Seal's <i>Choose Green Report</i> on Rigid Quick Serve Food Packaging, <a href="http://www.greenseal.org/recommendations/CGR=FoodPack.pdf">www.greenseal.org/recommendations/CGR=FoodPack.pdf</a>	
Food Service Ware - Plates	Reusable, compostable or made from recycled fibers; if compostable, designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility. Meet ASTM D6400 or D6868.	Compostable guidelines from BPI World (Biodegradable Products Institute), <a href="http://www.bpiworld.org">www.bpiworld.org</a> ASTM D6400 "Specifications for Compostable Plastics" or ASTM D6868 "Specification for Biodegradable Plastic Coatings on Paper and other Compostable Substrates".	BPI created the "Compostable Logo" on products (passing ASTM 6400-99) that biodegrade and compost satisfactorily. Approved by the US Composting Council. <a href="http://www.bpiworld.org/BPI-Public/Program.html">www.bpiworld.org/BPI-Public/Program.html</a>
Food Service Ware - Cups, Cold	Reusable, compostable or made from recycled fibers; if compostable, designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility. Meet ASTM D6400 or D6868.	Compostable guidelines from BPI World (Biodegradable Products Institute), <a href="http://www.bpiworld.org">www.bpiworld.org</a> ASTM D6400 "Specifications for Compostable Plastics" or ASTM D6868 "Specification for Biodegradable Plastic Coatings on Paper and other Compostable Substrates".	BPI created the "Compostable Logo" on products (passing ASTM 6400-99) that biodegrade and compost satisfactorily. Approved by the US Composting Council. <a href="http://www.bpiworld.org/BPI-Public/Program.html">http://www.bpiworld.org/BPI-Public/Program.html</a>

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Food Service Ware - Cups, Hot	Ask contractor to provide a monetary savings incentive for any employee who uses their personal coffee mug. Provide for the purchase of reusable mugs for participation in the discount rate.		
Coffee Filters	Use unbleached or reusable filters.	Nordic Swan, <a href="http://www.svanen.nu/Eng/">www.svanen.nu/Eng/</a> ; Japan's EcoMark, <a href="http://www.ecomark.jp/english/">www.ecomark.jp/english/</a>	
Food Service Ware - Cutlery	Reusable or compostable; if compostable, designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility. Meet ASTM D6400 or D6868.	Compostable guidelines from BPI World (Biodegradable Products Institute), <a href="http://www.bpiworld.org">www.bpiworld.org</a> ASTM D6400 "Specifications for Compostable Plastics" or ASTM D6868 "Specification for Biodegradable Plastic Coatings on Paper and other Compostable Substrates".	
Bags, Compostable	Plant based resins preferred over petroleum feedstock; certified by BPI World.org; biodegrades according to ASTM D6400-99 timeline; no phthalates.	Compostable guidelines from BPI World (Biodegradable Products Institute), <a href="http://www.bpiworld.org">www.bpiworld.org</a> , ASTM D6400 "Specifications for Compostable Plastics"	ASTM D6400-99 is similar to Europe's standard, DIN CERTCO and Japan's BPS
<b>Building &amp; Facility Maintenance</b>			
<b>More products will be added to this section pending additional review.</b>			
Lighting Fixtures, Bulbs, Florescent Tubes	Replace with energy-efficient equipment when practicable; install lighting controls; use ENERGY STAR qualified. ENERGY STAR qualified lighting uses 2/3 less energy than traditional lighting products and lasts 6 to 10 times longer.	ENERGY STAR, <a href="http://www.energystar.gov/index.cfm?c=lighting.pr_lighting">www.energystar.gov/index.cfm?c=lighting.pr_lighting</a>	For a local materials database, visit Build It Green, <a href="http://www.build-green.org">www.build-green.org</a>
Toilets	Install High Efficiency Toilets (HETs) that flush a maximum of 1.3-gpf/4.8-1pf. Toilets should meet the latest recommendations of the Maximum Performance (MaP) Testing for toilet fixture performance.	The California Urban Water Conservation Council, <a href="http://www.cuwcc.org">www.cuwcc.org</a>	For more information on High Efficiency Toilets (HETs), visit <a href="http://www.cuwcc.org">www.cuwcc.org</a> . Updates to the MaP Testing of popular toilet models can be found at <a href="http://www.cuwcc.org/products_tech.lasso">www.cuwcc.org/products_tech.lasso</a>

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Clothes Washers	<p>Use ENERGY STAR qualified appliance. Most full-sized ENERGY STAR qualified washers use 18-25 gallons of water per load, compared to the 40 gallons used by a standard machine.</p> <p>Residential: Use ENERGY STAR, horizontal axis washers.</p>	<p>ENERGY STAR,  <a href="http://www.energystar.gov/index.cfm?c=clotheswasher.pr_clothes_washers">www.energystar.gov/index.cfm?c=clotheswasher.pr_clothes_washers</a>;            Consortium for Energy Efficiency, Inc.,  <a href="http://www.cee1.org/com/cwsh/cwsh-main.php3">www.cee1.org/com/cwsh/cwsh-main.php3</a></p>	<p>EBMUD's Commercial Washer Rebate Program,  <a href="http://www.ebmud.com/conserving_&amp;_recycling/non_residential/clotheswasher_rebate/default.htm">www.ebmud.com/conserving_&amp;_recycling/non_residential/clotheswasher_rebate/default.htm</a></p>
Dishwashers	<p>Use ENERGY STAR qualified appliances; dishwashers are at least 25% more energy efficient than minimum federal government standards</p>	<p>ENERGY STAR,  <a href="http://www.energystar.gov/index.cfm?c=dishwasher.pr_crit_dishwashers">www.energystar.gov/index.cfm?c=dishwasher.pr_crit_dishwashers</a></p>	
Refrigerators	<p>Use ENERGY STAR qualified appliances; refrigerators use at least 15% less energy than current federal government standards</p>	<p>ENERGY STAR,  <a href="http://www.energystar.gov/index.cfm?c=refrigerator.pr_refrigerators">www.energystar.gov/index.cfm?c=refrigerator.pr_refrigerators</a></p>	
Space heating and cooling systems, commercial applications only	<p>Use ENERGY STAR qualified systems</p>	<p>ENERGY STAR,  <a href="http://www.energystar.gov/index.cfm?c=heat_cooling.pr_hvac">www.energystar.gov/index.cfm?c=heat_cooling.pr_hvac</a></p>	<p>For a list of local product resources, visit Build It Green's Materials Database,  <a href="http://www.build-green.org/guide/">www.build-green.org/guide/</a></p>
Exit Signs	<p>Use ENERGY STAR qualified exit signs</p>	<p>ENERGY STAR,  <a href="http://www.energystar.gov/index.cfm?c=exit_signs.pr_exit_signs">www.energystar.gov/index.cfm?c=exit_signs.pr_exit_signs</a></p>	
<b>Office Furnishings</b>			
Office Furniture, Casework	<p>BIFMA: Limit of indoor air concentrations due to emissions from systems furniture should be &lt;.5 mg/m3 for TVOC and &lt;50 ppb for formaldehyde.</p> <p>EPA: Fabric, PET: 100% postconsumer content</p> <p>Plastic furniture component, HDPE: 70-75% postconsumer</p> <p>Remanufactured or refurbished: 25-75% postconsumer</p> <p>Particleboard/fiberboard: 80-100% total recovered materials, may include other cellulosic materials (wheat straw, paper, biogases) (Not recommending CCA-treated wood as recovered material in office furniture)</p>	<p>Business &amp; Institutional Furniture Manufacturer's Association (BIFMA)            Proposed Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating, X7.1-2005,  <a href="http://www.bifma.org/standards">www.bifma.org/standards</a></p> <p>EPA's CPG  <a href="http://www.epa.gov/cpg/products/furniture.htm">www.epa.gov/cpg/products/furniture.htm</a></p>	<p>State of California, Department of General Services specifications for Environmentally Preferable Modular Office Systems,  <a href="http://www.ciwmb.ca.gov/GreenBuilding/Specs/Furniture/">www.ciwmb.ca.gov/GreenBuilding/Specs/Furniture/</a></p> <p>Scientific Certification Systems,  <a href="http://www.scscertified.com/PDFS/manufacture_InoorAirQuality_SEC10_080504.pdf">www.scscertified.com/PDFS/manufacture_InoorAirQuality_SEC10_080504.pdf</a>,  <a href="http://www.scscertified.com/PDFS/manufacture_MaterialContent_EC11_011405.pdf">www.scscertified.com/PDFS/manufacture_MaterialContent_EC11_011405.pdf</a></p> <p>Build It Green Materials Database provides local resources for residents,  <a href="http://www.build-green.org/guide/">www.build-green.org/guide/</a></p>

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<b>Building Construction Products</b>			
<b>More products will be added to this section pending additional review.</b>			
Concrete, Cement	Use fly ash to replace a percentage of portland cement.	EPA's CPG, <a href="http://www.epa.gov/cpg/products/cement.htm">www.epa.gov/cpg/products/cement.htm</a>	
Carpeting - Commercial	<p>CRI: Meets CRI's Green Label or Green Label Plus programs.</p> <p>SCS: Conformance with SCS's EPP certification program for Environmentally Preferable Carpet.</p> <p>State of California: Achieve the "California Gold Sustainable Carpet Standard," to be finalized April, 2006.</p>	<p>The Carpet and Rug Institute (CRI) Green Label Plus Program, <a href="http://www.carpet-rug.org">www.carpet-rug.org</a>;</p> <p>Scientific Certification Systems Carpet Floor Coverings Assessment Criteria &amp; Reference Guide, <a href="http://www.scs-certified.com">www.scs-certified.com</a>;</p> <p>California Integrated Waste Management Board's "California Gold" criteria, <a href="http://www.ciwmb.ca.gov/EPP/TaskForce/Reports/Carpet3b.doc">www.ciwmb.ca.gov/EPP/TaskForce/Reports/Carpet3b.doc</a></p>	Draft American National Standard for Trial Use, NSF 140 Sustainable Carpet Assessment Standard, <a href="http://www.nsf.org">www.nsf.org</a>
Adhesives: Flooring, Construction and Wood/Tile/Other	Follow the South Coast Air Quality Management District Rule 1168 limiting volatile organic compounds (VOCs) for adhesive and sealant products to 50-100g/l, and the criteria by the Collaborative for High Performance Schools (CHPS) for testing VOCs in small chambers.	<p>South Coast Air Quality Management District, <a href="http://www.aqmd.gov/rules/reg/reg11/r1168.pdf">www.aqmd.gov/rules/reg/reg11/r1168.pdf</a>;</p> <p>CHPS, <a href="http://www.chps.net/manual/lem_overvw.htm">www.chps.net/manual/lem_overvw.htm</a></p>	
Patio Blocks (used in garden walkways and trails)	<p>Rubber: 90-100% postconsumer content</p> <p>Plastic: no postconsumer content listed</p>	EPA's CPG, <a href="http://www.epa.gov/cpg/products/floor.htm">www.epa.gov/cpg/products/floor.htm</a>	
Shower and Restroom Dividers/Partitions	<p>Plastic: 20-100% postconsumer</p> <p>Steel: usually contains postconsumer content</p>	EPA's CPG, <a href="http://www.epa.gov/cpg/products/shower.htm">www.epa.gov/cpg/products/shower.htm</a>	<p>Build It Green's Material Database for local residential resources, <a href="http://www.build-green.org/guide/">www.build-green.org/guide/</a>;</p> <p>BuildingGreen.com provides articles, vendor lists, and more, <a href="http://www.buildinggreen.com">www.buildinggreen.com</a></p>
Wood Products	Certified as sustainably harvested by a comprehensive, performance based certification system, such as the Forest Stewardship Council (FSC). Use of plant-based (non-wood) products.	Forest Stewardship Council certification, <a href="http://www.fscus.org">www.fscus.org</a>	

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Modular Threshold Ramps	Rubber: 100% postconsumer content  Aluminum: 10% total recovered content  Steel: usually contains recycled content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/ramps.htm">www.epa.gov/cpg/products/ramps.htm</a>	Modular threshold ramps are used to modify door thresholds and other small rises to remove barriers, particularly in regards to access by people with disabilities.
<b>Parks and Recreation Products</b>			
Park Benches	Plastic: 90-100% postconsumer content  Plastic composite: 50-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/pk-bench.htm">www.epa.gov/cpg/products/pk-bench.htm</a>	StopWaste.Org's "Recycled Content Park and Recreation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Plastic Fencing (for specified uses)	60-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/fencing.htm">www.epa.gov/cpg/products/fencing.htm</a>	
Playground Equipment	Plastic: 90-100% postconsumer content  Plastic composite: 50-75% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/plgrndeq.htm">www.epa.gov/cpg/products/plgrndeq.htm</a>	StopWaste.Org's "Recycled Content Park and Recreation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Playground Surfaces	Plastic or rubber: 90-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/playgrnd.htm">www.epa.gov/cpg/products/playgrnd.htm</a>	
Running Tracks	Plastic or rubber: 90-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/running.htm">www.epa.gov/cpg/products/running.htm</a>	
Signage, Sign Posts/Supports	Plastic: 80-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/signage.htm">www.epa.gov/cpg/products/signage.htm</a>	
<b>Exterior Site Work, Landscaping</b>			
Compost (soil amendments)	EPA's CPG: Contract language should not exclude or discourage the use of compost. Consider specifications from the State of Maine or the US Composting Council.  Bay Friendly: Preference for regionally generated plant debris and/or food waste; use compost made from yard trimmings, leaves, grass clippings, and/or food wastes	EPA's CPG, <a href="http://www.epa.gov/cpg/products/compost.htm">www.epa.gov/cpg/products/compost.htm</a> ; Refer to US Composting Council's Standard Testing Assurance (STA) Program, <a href="http://compostingcouncil.org/section.cfm?id=39">http://compostingcouncil.org/section.cfm?id=39</a> and Organic Materials Resource Institute (OMRI) Certification, <a href="http://www.omri.org">www.omri.org</a> . Sources available at <a href="http://www.BayFriendly.org">www.BayFriendly.org</a>	The U.S. Department of Transportation's "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects 1996" specifies compost as one of the materials suitable for use in roadside revegetation projects associated with road construction. These standards do not preclude the use of compost made from yard trimmings, leaves, grass clippings, and/or food waste.  US Composting Council, <a href="http://tmecc.org/tmecc/index.html">http://tmecc.org/tmecc/index.html</a>

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Mulch (soil amendments)	Preference for regionally generated plant debris and/or food waste		Bay Friendly Landscaping Guidelines, <a href="http://www.BayFriendly.org">www.BayFriendly.org</a>
Concrete	Limit impervious surfaces in the landscape wherever practicable, such as using permeable asphalt or pavers for walkways, patios and driveways;  Use concrete with postconsumer content (such as flyash, slag)	Alameda County Clean Water Program, <a href="http://www.cleanwaterprogram.org/businesses_developers.htm">www.cleanwaterprogram.org/businesses_developers.htm</a> ; EPA's CPG, <a href="http://www.epa.gov/cpg/products/cement.htm">www.epa.gov/cpg/products/cement.htm</a>	Bay Friendly Landscaping Guidelines, <a href="http://www.BayFriendly.org">www.BayFriendly.org</a>
Waste or Recycling Receptacles	Plastic: 20-100% postconsumer; Paper-corrugated: 25-50% postconsumer; Paper-solid fiber: 40%; Paper-industrial paperboard: 40-80% postconsumer	EPA's CPG, <a href="http://www.epa.gov/cpg/products/office.htm">www.epa.gov/cpg/products/office.htm</a>	StopWaste.Org's "Recycled Content Park and Recreation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Plastic Lumber Landscaping Timbers and Posts	HDPE: 25-100% postconsumer content  Mixed plastics/sawdust: 50% postconsumer HDPE/fiberglass: 75% postconsumer  Other mixed resins: 50-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/timbers.htm">www.epa.gov/cpg/products/timbers.htm</a>	
Lawn and Garden Edging	Plastic and/or rubber: 30-100% postconsumer	EPA's CPG, <a href="http://www.epa.gov/cpg/products/edging.htm">www.epa.gov/cpg/products/edging.htm</a>	
Garden and Soaker Hoses	EPA: Garden hose: rubber and/or plastic: 60-65% postconsumer  EPA: Soaker hose: rubber and/or plastic: 60-70% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/garden.htm">www.epa.gov/cpg/products/garden.htm</a> ; Green Seal's Watering Hose Standard, GS-01, has additional requirements than EPA, <a href="http://www.greenseal.org/standards/wateringhoses.htm">www.greenseal.org/standards/wateringhoses.htm</a>	
Bike Racks	Steel: usually contains recycled content  HDPE: 100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/bikes.htm">www.epa.gov/cpg/products/bikes.htm</a>	
Pesticides	Use organic pest management or Integrated Pest Management; use least toxic pest control as last resort		Directory of Least Toxic Pest Control Products, or other publications, Bio-Integral Resource Center, <a href="http://www.birc.org">www.birc.org</a> or UC Davis <a href="http://www.ipm.ucdavis.edu">www.ipm.ucdavis.edu</a>

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Fertilizers	Use naturally-derived fertilizers or slow-release (as opposed to quick-release) synthetic fertilizers as a last resort.		For a list of organically certified products, refer to Organic Materials Resource Institute (OMRI), <a href="http://www.omri.org">www.omri.org</a>
Plants	Select plants that minimize waste; give preference to native or draught tolerant plants; avoid invasive plants.		<p>"Plants and Landscapes for Summer Dry Climates," <a href="http://www.ebmud.com/conserving_&amp;_recycling/plant_book/default.htm">www.ebmud.com/conserving_&amp;_recycling/plant_book/default.htm</a>;</p> <p>California Native Plants Society (CNPS), <a href="http://www.cnps.org">www.cnps.org</a>; or search for native plants nurseries at the California Native Plant Link Exchange, <a href="http://www.cnplx.info/index.html">www.cnplx.info/index.html</a>;</p> <p>Bay Friendly Landscaping Guidelines, <a href="http://www.BayFriendly.org">www.BayFriendly.org</a></p>
<b>Vehicle &amp; Automotive Maintenance</b>			
Tires	Procure retreading services for used tire casings; procure tires from both vendors of tires and of retreads	EPA's CPG, <a href="http://www.epa.gov/cpg/products/retread.htm">www.epa.gov/cpg/products/retread.htm</a>	
Lubricating Oils: Motor Oils Hydraulic Fluids Gear Oils	The State of CA requires local agencies to purchase re-refined motor oil certified by the API for use in vehicles and equipment, as appropriate for use; EPA recommends the highest content level of re-refined oil but no lower than 25%.	EPA's CPG, <a href="http://www.epa.gov/cpg/products/lubricat.htm">www.epa.gov/cpg/products/lubricat.htm</a> California Contract Code, Sec 10409, <a href="http://www.ciwmb.ca.gov/UsedOil/Rerefined/Procurement/Code.htm">www.ciwmb.ca.gov/UsedOil/Rerefined/Procurement/Code.htm</a>	The State of California has contracts available for re-refined motor oil and hydraulic fluid.
Engine Coolants/Antifreeze	EPA recommends: (1) for motor pool or vehicle maintenance facility to establish a program for reclamation and reuse or a service contract; (2) request reclaimed antifreeze when serviced, or purchase reclaimed engine coolant when making direct purchases, and (3) purchase antifreeze containing only one base chemical (typically ethylene glycol or propylene glycol) to prevent commingling of incompatible coolants.	EPA's CPG, <a href="http://www.epa.gov/cpg/products/engine.htm">www.epa.gov/cpg/products/engine.htm</a>	

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Vehicles	Incorporate specifications for reducing hazardous substances found in vehicle parts--mercury, lead and PVC (vinyl)--as well as specifications pertaining to fuel economy.	California Air Resources Board Air Quality and Emissions Standards, <a href="http://www.arb.ca.gov/html/ae&amp;m.htm">www.arb.ca.gov/html/ae&amp;m.htm</a> ; and the Federal EPA's Highway Diesel Fuel Sulfur regulations, <a href="http://www.epa.gov/otaq/regs/fuels/diesel/diesel.htm">www.epa.gov/otaq/regs/fuels/diesel/diesel.htm</a> , and any other applicable air pollution control laws.  INFORM's Specifications for Cleaner Vehicles, <a href="http://www.informinc.org/fs_P3vehicles2.pdf">www.informinc.org/fs_P3vehicles2.pdf</a> or see INFORM's Factsheet, <a href="http://www.informinc.org/fact_P3vehicles.php">www.informinc.org/fact_P3vehicles.php</a>	Automotive fuel economy, <a href="http://www.fueleconomy.gov/feg/feg2000.htm">www.fueleconomy.gov/feg/feg2000.htm</a> ;  Green Seal's Fleet Vehicle Maintenance Standard, GC-10, <a href="http://www.greenseal.org/standards/fleetvehicle/maint.htm">www.greenseal.org/standards/fleetvehicle/maint.htm</a> ;  EPA's Green Vehicle Guide, <a href="http://www.epa.gov/greenvehicles/">www.epa.gov/greenvehicles/</a>
Vehicular Parts	Use rebuilt (or remanufactured) vehicular parts in passenger, medium and heavy-duty equipment or establish a program for used vehicular parts		Follow FTC's "Guide for Rebuilt, Reconditioned and Other Use Automotive Parts," <a href="http://www.ftc.gov/os/2002/03/16cfr20.pdf#search=FTC%20Guide%20for%20rebuilt%20automotive%20parts">www.ftc.gov/os/2002/03/16cfr20.pdf#search=FTC%20Guide%20for%20rebuilt%20automotive%20parts</a>
Vehicle Fuels	Alternative fuels that are less polluting include methanol, compressed natural gas (CNG), liquefied natural gas (LNG), electricity, biodiesel, ethanol and propane.	EPA encourages the use of alternative fuels, <a href="http://www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm">www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm</a>	State of California Alternative Fueled Vehicles Contract, <a href="http://www.pd.dgs.ca.gov/contracts/vehicles.htm">www.pd.dgs.ca.gov/contracts/vehicles.htm</a>
Parts Cleaning Solvents	Cleaning Solution: Only aqueous detergents or non-chlorinated solvents are used in a liquid-based cleaning system. Comply with the latest Bay Area Air Quality Management District VOC level requirements.	Green Seal's Standard for Vehicle Maintenance, GC-10, <a href="http://www.greenseal.org/standards/fleetvehicle/maint.htm">www.greenseal.org/standards/fleetvehicle/maint.htm</a> ; Bay Area Air Quality Management District, <a href="http://www.baaqmd.gov">www.baaqmd.gov</a>	California Air Resources Board Heavy Duty Engine Standards as currently proposed to be contained in CCR Title 13, Section 2020 et seq, <a href="http://www.arb.ca.gov/diesel/mobile.htm">www.arb.ca.gov/diesel/mobile.htm</a> ; and the Federal EPA's Highway Diesel Fuel Sulfur regulations, <a href="http://www.epa.gov/otaq/diesel.htm">www.epa.gov/otaq/diesel.htm</a> and any other applicable air pollution control laws.  Solvent Alternatives Guide, <a href="http://clean.rti.org/">http://clean.rti.org/</a>
Brake Cleaning Solvents	Cleaning Solution: Only aqueous detergents or non-chlorinated solvents are used in a liquid-based cleaning system. Comply with the latest Bay Area Air Quality Management District VOC level requirements	Green Seal's Standard for Vehicle Maintenance, GC-10, <a href="http://www.greenseal.org/standards/fleetvehicle/maint.htm">www.greenseal.org/standards/fleetvehicle/maint.htm</a> ; Bay Area Air Quality Management District, <a href="http://www.baaqmd.gov">www.baaqmd.gov</a>	Solvent Alternatives Guide, <a href="http://clean.rti.org/">http://clean.rti.org/</a>

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<b>Roads &amp; Transportation</b>			
Signs	Plastic sign, post: 80-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/signage.htm">www.epa.gov/cpg/products/signage.htm</a>	StopWaste.Org's "Environmentally Preferable Transportation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Parking Stops	Plastic or Rubber: 100% postconsumer content; Concrete	EPA's CPG, <a href="http://www.epa.gov/cpg/products/parking.htm">www.epa.gov/cpg/products/parking.htm</a>	
Traffic Cones	Plastic (PVC, LDPE): 50-100% total recycled content; Crumb rubber: 50-100% total recycled content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/cones.htm">www.epa.gov/cpg/products/cones.htm</a> (If available, non-PVC plastic suggested)	
Traffic Barricades	Plastic: 80-100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/barricds.htm">www.epa.gov/cpg/products/barricds.htm</a>	
Delineators	Plastic: 25-95% postconsumer content Rubber base: 100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/channel.htm">www.epa.gov/cpg/products/channel.htm</a>	StopWaste.Org's "Environmentally Preferable Transportation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Flexible Delineators	Plastic: 25-80% postconsumer content		StopWaste.Org's "Environmentally Preferable Transportation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>
Channelizers	Plastic: 25-95% postconsumer content Rubber base: 100% postconsumer content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/channel.htm">www.epa.gov/cpg/products/channel.htm</a>	
Traffic Paint	Water-based, lead free, chromate free, limit of 125 g/L of VOC's, comply with state air quality laws; all ready-borne, rapid dry paint (white, yellow, red, green, black), when dry, shall not contain any hazardous materials.	South Coast Air Quality Management District Rule 1113 limits VOC's to 125 g/L; Hazardous waste regulations in the California Code of Regulations Title 22, Div 4, Section 6621.20	StopWaste.Org's "Environmentally Preferable Transportation Products" Fact Sheet, <a href="http://www.StopWaste.Org/EPP">www.StopWaste.Org/EPP</a>  INFORM's Public Works & Vehicle Maintenance Fact Sheet, <a href="http://www.informinc.org/fspubworks.pdf">www.informinc.org/fspubworks.pdf</a>  Department of Defense Parking Lot Project, <a href="http://www.epa.gov/opptintr/epp/pubs/dodfct.pdf">www.epa.gov/opptintr/epp/pubs/dodfct.pdf</a>
Traffic Lights	Use ENERGY STAR qualified lights.	ENERGY STAR, <a href="http://www.energystar.gov/index.cfm?c=traffic_traffic_signals">www.energystar.gov/index.cfm?c=traffic_traffic_signals</a>	Traffic signals that have earned the ENERGY STAR use high efficiency light emitting diode (LED) technology.
Asphalt Concrete	Use recycled, reusable, reground or rubberized asphalt concrete, when practicable; Caltrans allows 50% in standard provisions but up to 100% recycled concrete aggregate by weight of the total aggregate by special provision.	For rubberized asphalt, refer to Caltran's SSP's, Section 20, <a href="http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/99_04-SSPs/Sec_10/22-42/">www.dot.ca.gov/hq/esc/oe/specifications/SSPs/99_04-SSPs/Sec_10/22-42/</a> then scroll down to Sec 39-750.	Rubberized Asphalt Technology Center, <a href="http://www.rubberizedasphalt.org">www.rubberizedasphalt.org</a> ;  StopWaste.Org's Green Building Guidelines encourage displacing 30%-50% of cement with flyash, <a href="http://www.BuildGreenNow.org">www.BuildGreenNow.org</a>

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Aggregate Base	The amount of reclaimed material shall not exceed 50% of the total volume of the aggregate used; reclaimed glass may be used.	Caltran's allows up to 50% reclaimed materials in aggregate base Class 2 and 3, and in aggregate subbase Class 1, Class 2, Class 3, and Class 4, as specified in the Standard Specifications, July, 2002.	
Aggregate Subbase	The amount of reclaimed material shall not exceed 50% of the total volume of the aggregate used.	<a href="http://www.dot.ca.gov/hq/esc/oe/specifications/std_specs/2002_StdSpecs/2002StdSpecs.pdf">www.dot.ca.gov/hq/esc/oe/specifications/std_specs/2002_StdSpecs/2002StdSpecs.pdf</a>  For aggregate base and aggregate subbase using more than 50% reclaimed materials, refer to Caltran's Standard Special Provisions.	
Portland Cement Concrete	Use recycled, reusable or reground when practicable; porous concrete may be an option.		
Sidewalks	Concrete: Recycled content Rubber: 95-100% postconsumer content	State Public Contract Code (12209, 22150) that state and local agencies shall purchase tire-derived products, when fitness and quality are equal.	
Flowable Fill	Use with coal fly ash and/or ferrous foundry sands for backfill and other fill applications	EPA's CPG, <a href="http://www.epa.gov/cpg/products/flow-fil.htm">www.epa.gov/cpg/products/flow-fil.htm</a>	
Railroad grade crossing surfaces	Concrete: 10-15% coal fly ash total content Rubber: 85-95% tire rubber total content Wood: 90-97% wood or composite postconsumer content Plastic: 85-95% plastic or composite postconsumer content Steel: usually contains recycled content	EPA's CPG, <a href="http://www.epa.gov/cpg/products/rail.htm">www.epa.gov/cpg/products/rail.htm</a>	
<b>Miscellaneous Products</b>			
Awards and plaques	Glass: 75-100% postconsumer; Paper: 40-100% postconsumer; Plastic & plastic wood composite: 50-100% postconsumer	EPA's CPG, <a href="http://www.epa.gov/cpg/products/awards.htm">www.epa.gov/cpg/products/awards.htm</a>	

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Industrial drums	Plastic (HDPE): 30-100% postconsumer; Fiber: 100% postconsumer; Steel typically contains recycled content.	EPA CPG, <a href="http://www.epa.gov/cpg/products/drums.htm">www.epa.gov/cpg/products/drums.htm</a>	An industrial drum is a cylindrical container used for shipping and storing liquid or solid materials. According to the Plastic Drum Institute (PDI), between 12 and 15 million plastic drums are manufactured annually. Most drums are used to ship chemical and petroleum products.
Mats	Rubber: 75-100% postconsumer; Plastic: 10-100% postconsumer; Rubber/Plastic compostite: 100% postconsumer	EPA CPG, <a href="http://www.epa.gov/cpg/products/mats.htm">www.epa.gov/cpg/products/mats.htm</a>	Mats are temporary or semipermanent protective floor coverings used for numerous applications including protecting carpet from wear and tear or providing traction on stairs or slippery floors.
Pallets	Wood: 95-100% postconsumer; Plastic lumber: 100% postconsumer; Plastic thermoformed: 25-50% postconsumer	EPA CPG, <a href="http://www.epa.gov/cpg/products/pallets.htm">www.epa.gov/cpg/products/pallets.htm</a>	Pallets are rigid platforms made of wood, plastic, or paperboard used for shipping a variety of products including food, paper, and military supplies.
Sorbents	Paper: 90-100% postconsumer; Textiles: 95-100% postconsumer; Plastics, Wood and Other Organics or Multimaterials: 25-100% preconsumer recycled content	EPA CPG, <a href="http://www.epa.gov/cpg/products/sorbents.htm">www.epa.gov/cpg/products/sorbents.htm</a>	Absorbents and adsorbents (referred to as "sorbents") are used in environmental, industrial, agricultural, medical, and scientific applications to retain liquids and gases. Absorbents incorporate substances throughout the body of the absorbing material, while adsorbents gather substances over the surface of the material.

**Disclaimer**

The information in this Resource Guide is provided as a public service for public agency and business purchasers who are interested in buying environmentally preferable products. In all available cases, third party standards have been used to provide product guidelines and information, but have not been independently verified by StopWaste.Org. Examples of acceptable third parties include, but are not limited to: the U.S. Environmental Protection Agency, the State of California and other public entities; Green Seal; Forest Stewardship Council; Energy Star; Scientific Certification Systems; and the U.S. Green Building Council.

Listing in this Resource Guide is not a substitute for the exercise of sound judgment in particular circumstances and is not intended as a recommendation or endorsement for particular products or processes by StopWaste.Org. StopWaste.Org is the Alameda County Waste Management Authority and Source Reduction and Recycling Board operating as one public agency.

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