

National Park Service Pacific West Region Green Janitorial Products & Practices

RECOMMENDED PRACTICES

INTRODUCTION:

The idea behind using most janitorial products is to make places *clean* – not caustic, corrosive, contaminated, and costly. Many cleaning products on the market contain hazardous chemicals, use unnecessary dyes and fragrances, and have cumulative negative effects on the environment and its inhabitants - that includes us.

To promote the safety of employees using cleaning products, other staff, the public, and the living systems around us, numerous parks and communities have reassessed their cleaning practices and products. These conversions have not only produced positive effects within the parks and the community, but they have also provided great examples for other parks and the public to follow.

By taking steps toward more environmentally responsible procurement, we can save money, help prevent pollution, and protect the health of our cleaning staff. This guide gives an introduction to the many things that can be done by parks and individuals to promote a cleaner, healthier environment – both indoors and outdoors. It is a summary of information from reliable sources on green procurement and janitorial practices. Such sources include Green Seal, the Janitorial Products Pollution Prevention Project (JP4), and DOI/NISH's *Greening the Janitorial Business* workshop binder. (For additional references, please see the list of sources and links at the end of this document) This Guide is a beginning source of information, one that can be built upon with more comprehensive documents, research, reading, and first-hand experience.

The practices recommended below provide ideas on how to contribute to the great strides being made in supporting the National Park Service mission. They are also in keeping with the following federal requirements:

Comprehensive Procurement Guidelines (CPG)

Through Section 6002 of the Resources Conservation and Recovery Act (RCRA) and EO 13101, the EPA was required to designate recycled-content products and to recommend practices for federal agencies to buy these products. Procuring agencies are required to purchase designated items with the highest recovered material content practicable.

Specifically, plastic trash bags must contain 10-100% post-consumer content, toilet paper must contain a minimum of 30% post-consumer content, and paper towels must contain 40-100% post-consumer content.

www.epa.gov/cpg

Executive Order 13101 Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition, 1998

Federal procurement officers are required to consider environmental factors in their purchasing and contracting, under the guidance of the EPA's Environmentally Preferable Purchasing (EPP) program.

www.epa.gov/opptintr/epp

Federal Acquisition Regulation (FAR), August 2000

Executive agencies are required by Section 23.703 of the FAR to consider environmental factors when purchasing products and services. Agencies must:

- maximize the use of environmentally preferable products and services
- maximize the use of energy-efficient products
- eliminate or reduce the generation of hazardous waste
- promote the use of non-hazardous and recovered materials
- realize lifecycle cost savings
- promote cost-effective waste reduction
- consider the use of biobased products

www.arnet.gov/far

Products and practices noted in this guide also receive support from the following regional guidance under PWR Directive PW-051 (PWR Environmentally Preferable Purchasing Policy):

Pacific West Region's 100+ Best Management Practices – Defining What a Green Park Looks Like

Recommends parks convert to green products and practices as one of the ten “low-hanging fruit” that has a significant impact on the environment. Parks should:

- conduct an inventory and review of all cleaning supplies
- replace hazardous, toxic products with safe, non-toxic products
- evaluate cleaning practices to use less product, and use antibacterial or disinfectant only where necessary
- buy unbleached toilet paper and paper towels with high post-consumer recycled content
- purchase plastic trash bags with high recycled content or purchase biodegradable cornstarch bags

www.inside.nps.gov – Regions – Pacific West – Programs – Facility Management – Offices & Functions - Green Maintenance

Environmental Purchasing in the National Park Service: A How-To Guide

This guide is referenced in PWR Directive PW-051 and serves as the Pacific West Region's Affirmative Procurement Plan and Green Procurement Plan as referenced under the Environmental Audit Program's Green Procurement Envirocheck Sheet. It provides parks with background information and procedural and operational information on how to purchase environmental products and services including janitorial products and practices such as:

- purchasing recycled content bathroom tissue, paper towels, and plastic trash bags
- using chlorine-free bathroom tissue and paper towels
- evaluating current practices to determine more efficient, effective practices
- reducing the overall number of products used and eliminating unnecessary products

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RECOMMENDATIONS:

- **Initiate park programs** that promote the analysis of current products and practices, involve and train the staff using cleaning products, and have full support and input from all levels of park personnel.
- **Obtain concession buy-in** early in the process so they can parallel implementation procedures with the park.
- **Set up a multi-disciplinary review committee** to examine new or additional products. Examine all aspects of new products (MSDS, cost, performance, meets all criteria, etc.) before approved for park-wide use.
- **Set strict criteria for product selection** (examples include the City of Santa Monica and Yellowstone NP).
- **Purchase cleaning products with the following characteristics (based on Green Seal standards):**
 - comes in concentrated form
 - non-aerosol cans
 - non-toxic ingredients (no carcinogens or hazardous wastes) and non-toxic to human health or aquatic life
 - packaged in recyclable/reusable container (minimal waste) designed to reduce exposure to the product
 - based on renewable resources such as biobased products, citrus, seed, vegetable, or pine oils, and are not petroleum based or petrochemical compounds
 - produces minimal or no irritation to skin, eyes, respiratory system
 - has low VOC levels (See the chart below on allowable VOC content of specific cleaning products – aim for lowest)
 - non-corrosive or non-flammable
 - has a pH level between 2.5 and 12, or as close to neutral (7) as possible
 - works optimally at room temperature
 - contains none of the hazardous chemicals on the JP4 website or the reference list in this guide (p5)
 - contains no ozone-depleting compounds
 - does not use unnecessary dyes and fragrances
 - rapidly biodegradable
- **Avoid aerosol cleaners and air fresheners.** Because of the way they are emitted in a fine mist, they are more rapidly ingested through inhalation and have much higher VOC levels than non-aerosol products.

Allowable VOC Content for Cleaning Products

(Taken from *Inform's* "Cleaning for Health: Products and Practices for a Safer Indoor Environment")

| Product Category | Federal Limit for VOC Dilution** | Green Seal Standard Limit | State of California Limit for VOC Dilution*** |
|--|----------------------------------|---------------------------|---|
| Air fresheners, Liquids/pump sprays | 70% | - | 18% |
| Air fresheners, Solids/gels | 3% | - | 3% |
| Bathroom and tile cleaners (non-aerosol) | 5% | 1% | 5% |
| Floor polishes/Waxes for flexible flooring materials | 7% | - | 7% |
| Floor polishes/Waxes for nonresilient flooring | 10% | - | 10% |
| Wood floor wax | 90% | - | 90% |
| General-purpose cleaners | 10% | 1% | 4% |
| Glass cleaners, non-aerosol | 8% | 3% | 4% |
| Oven cleaners, liquid | 5% | - | 5% |
| * Note that states or localities may have more stringent limits. This table refers to the VOC level allowed in the ready-to-use product. To calculate the VOC level from an MSDS for a concentrate, divide the VOC level on the MSDS by the recommended dilution factor. | | | |
| ** Code of Federal Regulations, 40 CFR Title 40, Chapter I, Part 59, "National Volatile Organic Compound Emission Standards for Consumer and Commercial Products." | | | |
| ***California Air Resources Board www.arb.ca.gov | | | |
| (-) signifies that no standard has been set or that no information is available on this type of product | | | |

- **For non-chemical products, look for recycled products with the following characteristics:**
 - do not use products that contain chlorine or other chemicals listed in the Emergency Preparedness and Community Right-to-Know Act; do not use (chlorine) bleach (for paper and tissue products)
 - avoid unnecessary dyes, inks, or fragrances
 - contain highest post-consumer recycled content possible (Use EPA's CPG recommended recovered content % as a guide)
 - promote waste reduction (such as coreless toilet paper, high efficiency hand dryers rather than paper towels, paper towel rolls rather than sheets, minimal packaging, etc.)

- **Reduce the total number of products purchased. Eliminate combined cleaner/disinfectant products, and use disinfectants *only when and where necessary*.** This includes:
 - knowing what organisms the park is really trying to reduce/disinfect against (Disinfectants are formulated to target certain organisms or combination of organisms. It is important to use the right product for the right place.)
 - knowing what surfaces do (or do not) need to be disinfected, and how often
 - cleaning surfaces thoroughly *before* disinfecting

(dirt carries 99% of the bacteria targeted by cleaning – remove the dirt, remove the bacteria.)

- using proper disinfectant mixing and cleaning procedures

(This includes leaving disinfectants in place for the correct amount of time before wiping surfaces clean.)

- **Learn how to read and use Material Safety Data Sheets (MSDS)**, and know their limitations (they may not contain all ingredient information that companies consider proprietary information).
- **Be aware of misleading marketing (greenwashing).** Products like Simple Green claim to be biodegradable, but contain hazardous chemicals that have serious health risks. Claims of biodegradability and non-toxic ingredients are vague and easy to claim – be sure to verify a product's claims by reading the MSDS and looking for specific characteristics.
- **Eliminate the use of products containing chemicals hazardous to the environment and/or to the health of those using the products.** For an up-to-date listing and rating of hazardous chemicals, see the information provided by the Janitorial Products Pollution Prevention Project at www.westp2net.org/janitorial/tools/riskevaluation.htm.

The following is a beginning reference list hazardous chemicals to avoid, or chemicals considered severe pollutants:

- Acetone
- Ammonia
- Ammonia Hydroxide
- Ammonium Hydroxide
- Ammonia Salt of Nonylphenoxy Polyethanol
- Arsenic
- 2 – Butoxyethanol
- Butyl Cellosolve
- Cadmium
- *Caustic Soda
- Chlorine/Chlorine Bleach
- Chromium
- Diethylene Glycol Ether – environmental
- Dimethyl Carbbinol
- Dodecyl Benzene Sulfonate
- Ethanol
- Ethylene Diamine Tetraacetic Acid (EDTA)
- Ethoxylated Alcohols
- Glycol Ethers
- Hydrocarbon Solvent – environmental
- Hydrochloric Acid (Muriatic Acid)
- Isopropyl Alcohol
- Lead
- Mercury
- Mineral (Seal) Oils (Teratogen)
- Naphthalene
- Nickel
- Nitrioltriacetic Acid (NTA)
- Perchloroethylene
- Phenolic Compounds
- Phosphates and Derivatives
- Phosphoric Acid
- Polyethoxy Ethanol
- Polyethylene Glycol – environmental
- Polyoxyethylene Monoctylphenyl Ether
- Potassium Hydroxide
- Propane Napntha
- Selenium
- Sodium Dodecylbenzene Sulfonate
- Sodium Hydroxide*
- Sodium Hypochlorite/Hypochloric Acid
- Sodium Phosphate
- Sodium Sulfate
- Sodium Tripolyphosphate
- Sodium Xylene Sulfonate
- Synthetic Dye
- Synthetic Fragrance
- Terpene
- Tetrachloroethylene
- 1,1,1 Trichloroethane
- Toluene
- Xylene

- **Train and educate staff** on proper storage, mixing, and use of products. Learn efficient cleaning methods and don't assume knowledge of how to use new products. Emphasize safety, and that mixing products at higher concentrations is not more effective, just wasteful and potentially hazardous.
- **Provide mixing stations** in several locations to reduce product waste and encourage proper dilution. Consider an automatic dispensing and/or mixing system for accurate dilution and safe use.
- **Ensure proper disposal** of hazardous materials and their empty containers.
- **Follow and set good examples.** Provide public education signs so visitors are aware of the important things the National Park Service is doing.
- **Strive to involve gateway communities,** local governments, and private businesses in the expansion of your efforts wherever applicable. This may be easier than you think.
- **Continuously search for ways to improve** health, safety, effectiveness, and environmental responsibility. Monitor the progress of your program, address concerns, and make adjustments or updates.

LINKS & SOURCES:

The City of Santa Monica's Environmental Purchasing, A Case Study

www.epa.gov/opptintr/epp/pdfs/santa.pdf

California Proposition 65 – Annually publishes a list of chemicals known to the state to cause cancer or reproductive toxicity

www.oehha.ca.gov/prop65.html

EPA's Cleaning Product Attributes Ranking Tool

www.epa.gov/oppt/epp/cleaners/select

EPA Office of Pollution Prevention and Toxics

www.epa.gov/opptintr

Green Seal

www.greenseal.org

Greening the Janitorial Business, How to Select and Use Safe Janitorial Chemicals. Workshop binder, June 2001, San Francisco. Washington: GPO, 2001.

GSA Advantage

www.gsaadvantage.gov

GSA Environmental Products & Services Guide

<http://pub.fss.gsa.gov/environ>

Inform – Cleaning for Health: Products and Practices for a Safer Indoor Environment

www.informinc.org

Janitorial Products Pollution Prevention Project

www.westp2net.org/Janitorial/jp4.htm

National Park Service Pacific West Region Green Janitorial Products & Practices

| PRODUCT GUIDE | | | | | | | |
|----------------------------|---|----------------|-------------------|-------------------------|-----------------|--|---|
| CATEGORY | PRODUCT NAME | VENDOR STOCK # | SOLD ON GSA? | UNIT | PRICE * | VENDOR | CERTIFIER/ RECOMMENDER |
| AIR FRESHENER | <i>Air Scense</i> low VOC, non-aerosol, lavender, lime, orange, or vanilla scent | AS-71007 | | 7 fl oz Bottle | \$5.99 | Citra-Solv, Inc. (203) 778-0881 | Fort Vancouver NHS |
| | <i>Air Freshener</i> natural ingredients, non-aerosol, low VOC, many scents available | AK-45 | | 4x1 Gallon Case | \$45.95 | Alfa Kleen (800) 676-0059 | Green Seal Rec. [†] |
| BATHROOM & TOILET CLEANERS | <i>Basin, Tub & Tile</i> all bathroom surfaces, biodegradable | N-7 | X | 4x1 Gallon Case | \$33.41 | Clean Environment Co (800) 266-2353 | Green Seal Rec. [†] , Yellowstone NP, JP4 [‡] , Mt. Rainier NP |
| | <i>Basin, Tub and Tile Cleaner</i> biodegradable, non-toxic, concentrated | NY4 | | 4x1 Gallon Case | \$18.00 per Gal | Naturally Yours (417) 889-3995 | Olympic NP, Yosemite Green Seal Rec. [†] , JP4 [‡] City of Santa Monica |
| | <i>Bath and Tile Cleaner</i> biodegradable | 1101-1 | | 4x1 Gallon Case | \$35.80 | Ecolink/The Leaf Project Products (800) 886-8240 | JP4 [‡] |
| | <i>Arsenal Green Select Bathroom Cleaner</i> non-toxic, non-flammable, no dyes or fragrances, biodegradable | HIL-0082922 | X | Case of 6 1/2 gal ea | \$52.26 | Hillyard Industries (800) 365-1555 | Green Seal Certified [†] |
| | <i>Bathroom & Shower Cleaner</i> biodegradable, non-toxic | AK-11 | | 4x1 Gallon Case | \$68.95 | Alfa Kleen (800) 676-0059 | Green Seal Rec. [†] |
| | <i>Clinging Toilet Bowl Cleaner</i> biodegradable, non-toxic, concentrated | NY7 | | 4x1 Gallon Case | \$21.00 per Gal | Naturally Yours (417) 889-3995 | Olympic NP, Yosemite Green Seal Rec. [†] , JP4 [‡] City of Santa Monica |
| | <i>Enviro-Care Washroom and Fixture Cleaner</i> biodegradable, non-hazardous | 12002027 | JWOD product X | 4x1 Gallon Case | \$19.18 per Gal | Rochester Midland (716) 336-2308 | JP4 [‡] , Cape Cod NS, Green Seal Certified [†] |
| | <i>Super Orange Cleaner</i> hard surfaces, floors, walls, biodegradable, concentrated | N-46 | X | 5 Gallon Pail | \$35.28 | Clean Environment Co (800) 266-2353 | Yellowstone NP Green Seal Rec. [†] |

| CATEGORY | PRODUCT NAME | VENDOR STOCK # | SOLD ON GSA? | UNIT | PRICE* | VENDOR | CERTIFIER/ RECOMMENDER |
|--------------------------|--|--------------------------|---------------------------|-----------------------|--------------------|---|---|
| DISINFECTANTS | <i>Botanical Disinfectant</i> no rinse or wipe, no chlorine, non-corrosive, flammable, or reactive | | | Gallon | \$39.99 | Benefect (800) 909-2813 | |
| | <i>Enviro-Care Neutral Disinfectant</i> floral/citrus fragrance | 12001227 | JWOD product X | 4x1 Gallon Case | \$16.42 per Gal | Rochester Midland (716) 336-2308 | Cape Cod NS Green Seal Certified [†] JP4 [†] |
| FLOOR & CARPET CLEANERS | <i>Cycle Emulsifier</i> for carpet extraction, non-toxic non-carcinogenic | C-23 | X | 4x1 Gallon Case | \$24.81 | Clean Environment Co (800) 266-2353 | Yellowstone NP Green Seal Rec. [†] |
| | <i>Cycle Finish</i> floor finish (wax), non-toxic, non-carcinogenic | C-12 | X | 5 Gallon Pail | \$57.88 | Clean Environment Co (800) 266-2353 | Yellowstone NP Green Seal Rec. [†] |
| | <i>Cycle Strip</i> floor finish stripper, non-toxic, non-carcinogenic, no heavy metals | C-8 | X | 5 Gallon Pail | \$34.18 | Clean Environment Co (800) 266-2353 | Fort Vancouver NHS, Yellowstone NP, Green Seal Rec. [†] |
| | <i>Carpet Spot Remover</i> odorless, non-flammable | AK-24R | | 4x1 Gallon Case | \$49.95 | Alfa Kleen (800) 676-0059 | Green Seal Rec. [†] |
| | <i>Ecomate-MPC Concentrate</i> biodegradable, non-toxic, no VOCs, no petroleum distillates | MPC-1 | X | 4x1 Gallon Case | \$59.44 | Sierra Technologies (800) 357-2892 | Green Seal Rec. [†] |
| | <i>H2Orange2 Carpet Complete</i> concentrated, water soluble, non-toxic | | | Half Gallon | \$24.00 | EnvirOx (800) 281-9604 | Green Seal Certified [†] |
| GENERAL PURPOSE CLEANERS | <i>9010 All Purpose Cleaner (Hurrisafe)</i> biodegradable, non-caustic | | 7930-01- 398-0891 X | 5 Gallon Pail | \$30.68 | PCI of America, Hurrisafe Products (800) 222-1455 | Green Seal Rec. [†] |
| | <i>All Purpose Cleaner</i> biodegradable, non-toxic, concentrated | NY2 | | 4x1 Gallon Case | \$21.00 per Gal | Naturally Yours (417) 889-3995 | Olympic NP, Yosemite Green Seal Rec. [†] , JP4 [†] City of Santa Monica |
| | <i>All Purpose Cleaner</i> biodegradable, highly concentrated | N-1 | X | 5 Gallon Pail | \$27.01 | Clean Environment Co (800) 266-2353 | Green Seal Rec. [†] , JP4 [†] Presidio, Channel Islands, Joshua Tree |
| | <i>All Purpose Concentrate</i> neutral pH, no skin irritation, no VOCs, solvent-free | MPC | | Gallon | \$23.00 | Benefect (800) 909-2813 | |
| | <i>Magic 555 All Purpose Cleaner</i> biodegradable, non-toxic, water-based, non-hazardous | 7930- 01-477- 1788 | X | 5 Gallon Pail | \$49.83 | P&D Creative (301) 797-3503 | Green Seal Rec. [†] |

| CATEGORY | PRODUCT NAME | VENDOR STOCK # | SOLD ON GSA? | UNIT | PRICE* | VENDOR | CERTIFIER/ RECOMMENDER |
|------------------------------------|---|----------------------|----------------------|-----------------------------|--------------------|--|---|
| GENERAL PURPOSE CLEANERS CONTINUED | <i>Citra-Solv Cleaner/Degreaser</i> biodegradable | CS-10018 | | 32 oz. | \$14.27 | Citra-Solv, Inc. (203) 778-0881 | Fort Vancouver NHS |
| | <i>Cleaner Degreaser</i> biodegradable, non-toxic, concentrated | NY3 | | 4x1 Gallon Case | \$21.00 per Gal | Naturally Yours (417) 889-3995 | Olympic NP, Yosemite Green Seal Rec. [†] , JP4 [†] City of Santa Monica |
| | <i>All Purpose Spray</i> regular or citrus, heavy duty industrial also available | AK-13 | | 5 Gallon Pail | \$34.97 | Alfa Kleen (800) 676-0059 | Green Seal Rec. [†] |
| | <i>All Purpose Cleaner/Degreaser</i> highly concentrated, biodegradable, non-toxic, chlorine-free | | | 1 Gallon | \$11.90 | Bi-O-Kleen (800) 477-0188 | Chlorine Free Products Assoc., Mt Rainier NP |
| | <i>Focus Multi-Purpose Cleaner</i> biodegradable, paste | 7930-01- 380-8531 | X | 24 16 oz Bottles | \$54.00 | American Cleaning Solutions, Inc. (866) 883-3562 | Green Seal Certified [†] |
| | <i>Enviro-Care All Purpose</i> biodegradable, non-toxic, pH 7.0, "Tough Job" cleaner also available | 11822027 | JWOD product X | 4x1 Gallon Case | \$8.84 per Gal | Rochester Midland (716) 336-2308 | Cape Cod NS Green Seal Certified [†] JP4 [†] |
| | <i>Arsenal Green Select Degreaser</i> non-toxic, biodegradable no dyes or fragrances | HIL- 0082822 | X | Case of 6 1/2 gal ea | \$43.14 | Hillyard Industries (800) 365-1555 | Green Seal Certified [†] |
| | <i>H2Orange2 117 Concentrate</i> low-VOC, pH 7.61, non-toxic, can be diluted for multi-purpose applications | 117 | | 1 Gallon | \$32.00 | EnvirOx (800) 281-9604 | Green Seal Certified [†] |
| | <i>Heavy Duty Degrease (Cycle Degrease, C-2, for shop and equipment applications)</i> | N14 | X | 4x1 Gallon Case | \$27.68 | Clean Environment Co (800) 266-2353 | JP4 [†] , Yellowstone Green Seal Rec. [†] |
| | <i>All Purpose Organic Cleaner</i> Super-concentrated, biodegradable, non-toxic, no nitrates, no phosphates | | | 4x1 Gallon Case | \$36.80 per Gal | Cleaning Pro (631) 643-1882 | Cape Cod NS |
| | <i>Free & Clear All Purpose Cleaner</i> non-toxic, no fumes, solvent-free, heavy duty, | | | 12 Pk of 32 oz bottle | \$35.66 | Seventh Generation (802) 658-3773 | Green Seal Rec. [†] |
| | <i>Sun-Brite</i> cleaner/degreaser, biodegradable, highly concentrated | | | 1 Gallon Bucket | \$65.00 | Sun-Brite (800) 458-5636 | |
| | <i>ECO 2000</i> Zero VOC, non-toxic, biodegradable, non-petroleum based | | | 5 Gallon Pail | \$140.00 | KC Products (800) 927-9442 | Green Seal Rec. [†] |

| CATEGORY | PRODUCT NAME | VENDOR STOCK # | SOLD ON GSA? | UNIT | PRICE* | VENDOR | CERTIFIER/ RECOMMENDER |
|------------------------|--|----------------------|----------------------|----------------------------|--------------------|--|---|
| GLASS CLEANERS | <i>Enviro-Care Glass Cleaner</i> biodegradable, non-toxic, non-hazardous | 12001027 | JWOD product X | 4x1 Gallon Case | \$5.42 per Gal | Rochester Midland (716) 336-2308 | Cape Cod NS Green Seal Certified [†] |
| | <i>Glass and Hard Surface Cleaner</i> biodegradable | 1099-1 | | 4x1 Gallon Case | \$27.80 | Ecolink/The Leaf Project Products (800) 886-8240 | JP4 [†] |
| | <i>Glass Cleaner</i> ammonia free, odorless, non-toxic, non-corrosive, concentrated | | | 16 oz Bottle | \$3.50 | Bi-O-Kleen (800) 477-0188 | Chlorine Free Products Assoc., Mt Rainier NP |
| | <i>Glass and Window Cleaner</i> biodegradable | NY6 | | 4x1 Gallon Case | \$15.00 per Gal | Naturally Yours (417) 889-3995 | Olympic NP, Yosemite Green Seal Rec. [†] , JP4 [†] City of Santa Monica |
| | <i>Arsenal Green Select Glass Cleaner</i> non-toxic, non-flammable, no dyes or fumes | HIL- 0082922 | X | Case of 6 1/2 gal ea | \$55.62 | Hillyard Industries (800) 365-1555 | Green Seal Certified [†] |
| | <i>Natural Glass and Window Cleaner</i> biodegradable, highly concentrated | N-13 | X | 4x1 Gallon Case | \$24.15 | Clean Environment Co (800) 266-2353 | JP4 [†] , Yellowstone Green Seal Rec. [†] |
| POLISHES & PROTECTANTS | <i>Furniture Protector & Polish</i> for hard surfaces, not raw wood, water based, high sheen | N-11 | X | 4x1 Gallon Case | \$51.16 | Clean Environment Co (800) 266-2353 | JP4 [†] , Yellowstone Green Seal Rec. [†] |
| | <i>Natural Furniture Polish & Wood Replenisher</i> | | X | 8 oz Bottle | \$4.64 | Citra-Solv, Inc. (203) 778-0881 | |
| PAPER TOWELS | <i>Multi-Fold Recyc. Paper Towels</i> CPG ITEM: 40-60% pc, 40-100% re 40% pc, dispenser use; 9 1/4" wide | 8540-00- 291-0389 | X | Box 4400 EA | \$21.84 | GSA Advantage or Environmental Products Guide | Fort Vancouver NHS |
| | <i>800' Roll Paper Towel, Natural</i> CPG ITEM: 40-60% pc, 40-100% re 90% pc, unbleached, 7.75" wide | 8-04FJ 236-001 | | Case 6 Rolls | \$45.00 | Real Earth Environmental Co. (310) 457-6331 | Green Seal Rec. [†] |
| | <i>Natural Paper Towels</i> CPG ITEM: 40-60% pc, 40-100% re 90% pc, unbleached, 180 sheets | | | 15 Rolls | \$36.95 | Seventh Generation (800) 456-1191 | Chlorine Free Products Assoc. |
| | <i>350' Roll Towels, Natural</i> CPG ITEM: 40-60% pc, 40-100% re non perforated, 80% pc, chlorine free | #651 | | 12 Rolls | \$19.95 | Green Line Paper (800) 641-1117 | |
| PLASTIC BAGS | <i>59 Gal. Recycled Plastic Bag</i> CPG ITEM: 10-100% pc 25% pc, heavy duty | 8105-01- 221-3239 | X | Box 200 EA | \$23.44 | GSA Advantage or Environmental Products Guide | Fort Vancouver NHS |

| CATEGORY | PRODUCT NAME | VENDOR STOCK # | SOLD ON GSA? | UNIT | PRICE* | VENDOR | CERTIFIER/ RECOMMENDER |
|--|--|---|------------------|-----------------------|--------------|--|---|
| PLASTIC BAGS CONTINUED | <i>33 Gal. Recycled Plastic Bag</i> CPG ITEM: 10-100% pc 100% re (30% pc), brown | 8105-01-386-2323 | X | Case 100 EA | \$24.36 | National Industries for the Blind (JWOD) (877) 438-5963 | Fort Vancouver NHS |
| | <i>33 Gallon Clear Trash Bag</i> CPG ITEM: 10-100% pc 80% re, 20% pc | 333915C | | Case 150 EA | \$24.00 | Dyna Pak (800) 759-3962 | |
| | <i>30 Gallon Trash Bag</i> CPG ITEM: 10-100% pc 100% re, 30-60% pc, | 21RN 1230X2 | | 240 Bags/ Case | \$19.08 | GreenCo Products (800) 326-2897 | |
| | <i>Biodegradable Trash Bags</i> CPG ITEM: 10-100% pc compostable, 20 Gal, 20/roll | B20010 | X | Box 200 Bags | \$56.00 | Biocorp, Inc. (310) 491-3465 | |
| | TOILET TISSUE | <i>Toilet Tissue</i> CPG ITEM: 20-60% pc, 20-100% re 30% pc | 8540-00-530-3770 | X | Box 96 EA | \$47.53 | National Industries for the Blind (JWOD) (877) 438-5963 |
| <i>Toilet Paper</i> CPG ITEM: 20-60% pc, 20-100% re 30% pc, 4500', unbleached | | 8540-01-359-0764 | X | Box 96 EA | \$88.18 | GSA Advantage or Environmental Products Guide | |
| <i>Ovation Toilet Tissue</i> CPG ITEM: 20-60% pc, 20-100% re 500 sheets, 25% pc, chlorine free | | #618 | | 96 Rolls | \$45.95 | Green Line Paper (800) 641-1117 | |
| <i>Bathroom Tissue</i> CPG ITEM: 20-60% pc, 20-100% re 80% pc, 1000 sheets, chlorine free | | | | 48 rolls | \$47.50 | Seventh Generation (800) 456-1191 | Chlorine Free Products Assoc. |
| OTHER | <i>Graffiti Remover</i> non-toxic, non-carcinogenic, non-mutagenic | C-54 | X | 4x1 Gallon Case | \$77.43 | Clean Environment Co (800) 266-2353 | JP4 [‡] , Yellowstone Green Seal Rec. [†] |
| | <i>SoySolv Graffiti Remover</i> Soy-based, removes paints, inks, permanent marker, residues | 708-010-001 | | 32 oz. Bottle | \$7.50 | SoySolv (800) 231-4274 | |
| | <i>Hand Soap</i> biodegradable | N-12 | X | 4x1 Gallon Case | \$31.00 | Clean Environment Co (800) 266-2353 | Yellowstone NP Green Seal Rec. [†] |
| | <i>Pure Castile Soap</i> liquid hand soap, vanilla scent, eucalyptus, peppermint | SL63032 | | 32 fl oz | \$8.45 | Citra-Solv, Inc. (203) 778-0881 | Fort Vancouver NHS |

pc = post consumer content re = recovered content

Vendor information is given so they may be contacted directly for further product inquiry (recommended). Products listed as available through GSA may be purchased either through GSA Advantage or directly through the vendor with GSA pricing. This list is not comprehensive - vendors often carry a variety of products, quantities, sizes, and units.

*Prices were current as of August 2006. **Prices are listed only as general guidelines.** Some products are highly concentrated; they may appear more expensive, but mix into larger quantities. Vendors may have government discounts, quantity discounts, or free samples that are not noted in this document. **It is best to call the vendor directly** to get accurate information particular to each park's needs.

†Green Seal Certified products have been certified by the third-party organization and meet the Green Seal Standards. Green Seal Recommended Products have not been certified to meet those standards, but were recognized by Green Seal in their Choose Green Report to meet those standards before certifications began. www.greenseal.org

‡Noted on the Environmentally Preferable Janitorial Products Vendor and Product List, compiled by the Janitorial Products Pollution Prevention Commission. www.westp2net.org/Janitorial/jp4.htm

Vendors for Hawaii:

GSA Advantage
 (877) 472-3777 Customer Service
 (800) 525-8027 Call-in Orders
 (800) 856-7057 Fax Orders
 Product availability and pricing same as mainland.
 Shipping costs may vary if an "origin" order, shipped
 by vendor.

Rochester Midland
 Authorized Distributor
Lamers Enterprises Inc.
 251 Puuhale Road
 Honolulu, HI 96819
 (808) 845-9365 Phone
 (808) 845-5592 Fax
 Contact Wesley Nakamura
 Reference Gerry Allgeier from Rochester Midland's
 Northwest Customer Service Center



August 2006

Vendor Websites:

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| <p>Alfa Kleen www.alfakleen.com</p> <p>American Cleaning Solutions www.cleaning-solutions.com</p> <p>Benefect www.benefect.com</p> <p>Biocorp, Inc. www.biocorpna.com</p> <p>Bi-O-Kleen www.bi-o-kleen.com</p> <p>Citra-Solv, Inc. www.citra-solv.com</p> <p>The Clean Environment Co. www.cleanenvironmentco.com</p> <p>Cleaning Pro www.cleaningpro.com</p> <p>DynaPak Corporation www.dynapak.com</p> <p>Ecolink www.leafproject.com</p> <p>EnviroSmart Products www.espesp.com</p> <p>EnvirOx www.h2orange2.com</p> <p>GreenCo Products, Inc. www.greencoproducts.com</p> <p>Green Line Paper www.greenlinepaper.com</p> | <p>GSA Advantage www.gsadvantage.gov</p> <p>Hillyard Industries www.hillyard.com</p> <p>Javits-Wagner-O'Day (NIB) www.jwod.com</p> <p>KC Products www.kcproductsinc.com</p> <p>Naturally Yours www.naturallyyoursclean.com</p> <p>P&D Creative www.pdcreativeinc.com</p> <p>PCI of America, Hurrifsafe www.hurrifsafe.com</p> <p>Quick 'N Brite, Inc. www.quicknbrite.com</p> <p>Real Earth Environmental Co. www.treeco.com</p> <p>Rochester Midland www.greenerparks.com</p> <p>Sierra Technologies www.sierratis.com</p> <p>Seventh Generation www.seventhgeneration.com</p> <p>SoySolv www.soysolv.com</p> <p>Sun-Brite www.sunbrite.biz</p> |
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