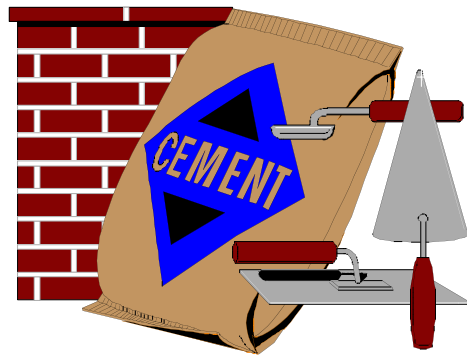


STORMWATER BEST MANAGEMENT PRACTICES (BMPs)



FRESH CONCRETE AND MORTAR APPLICATION

Masons and Bricklayers

Sidewalk Construction Crews

Patio Construction Workers

Construction Inspectors

Home Builders

Developers

Do-It-Yourselfers

OCEAN POLLUTION PREVENTION IT'S UP TO US!

Dana Point has two drainage systems—the sewers and the storm drains. The storm drain system was designed to prevent flooding by carrying excess rainwater away from city streets out to the ocean. For many years the system had no filters and served the *unintended* function of carrying urban pollution straight to the ocean. In July 2000, the City installed catch basin filters in all City owned basins, which intercept much of this pollution. The City also began once a-week street sweeping to further reduce sediments and other pollutants from entering the storm drain system.

This pamphlet tells you how to prevent ocean pollution from "stormwater" or "urban runoff".

Rainwater mixed with urban pollutants creates stormwater pollution. The pollutants include oil and other automotive fluids, paint and construction debris, yard clippings and pet wastes, pesticides, and litter.

Urban runoff pollution flows to the ocean through the storm drain system via unfiltered basins owned by Caltrans, Orange County and private systems such as those owned by Home Owner Associations (HOAs). In Dana Point, there are many miles of pipes that take water and debris straight to the ocean. Each day many gallons of polluted urban runoff enter the ocean untreated, leaving toxic chemicals in our surf and tons of trash on our beaches.

Urban runoff pollution contaminates the ocean, closes beaches, harms aquatic life, and increases the risk of inland flooding by clogging gutters and catch basins.

These Best Management Practices (BMPs) will ensure a clean ocean and city.

CONCRETE AND MORTAR APPLICATION PROBLEMS

Fresh concrete and mortar activities are frequent sources of urban runoff pollution. Materials and wastes blown or washed into a street, gutter, or storm drain have a direct impact on the ocean.

Sediment is the most common pollutant washed from worksites and creates multiple problems once it enters the ocean. Sediment clogs the gills of fish, blocks light transmission, and increases ocean water temperature—all of which harm sea life, disturbing the food chain upon which both fish and people depend.

Sediment also carries with it other worksite pollutants such as pesticides, cleaning solvents, cement wash, asphalt, and car fluids like motor oil, grease, and fuel. Thus, poorly maintained vehicles and heavy equipment leaking fuel and oil at the construction site also contributes to ocean pollution.

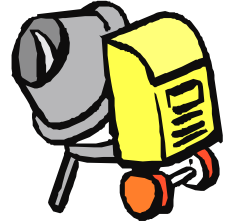


GENERAL BUSINESS PRACTICES

- ⦿ **Schedule projects for dry weather periods.**
- ⦿ **Keep materials out of the rain.** Store both dry and wet materials under cover, protected from rainfall and runoff. Also, protect dry materials from the wind.
- ⦿ **Secure open bags of cement** to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.

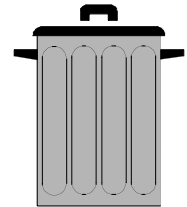
CLEANING UP

- ⦿ When cleaning up after driveway or sidewalk construction, **do not wash down the driveway or into the street or storm drain.**
- ⦿ **Wash out concrete mixers and equipment in designated washout areas.** Pick up concrete cuttings with a wet/dry vacuum.
- ⦿ **Recycle cement wash water** by pumping it back into cement mixers for reuse.
- ⦿ **Never dispose of cement washout** into driveways, streets, gutters, storm drains, or drainage ditches.



DURING CONSTRUCTION

- ⦿ **Place erosion controls** (i.e., berms or temporary vegetation) down-slope to capture runoff-carrying mortar or cement before it reaches the storm drain.
- ⦿ **Do not order or mix up more fresh concrete or cement that you will use.**
- ⦿ **Set up and operate small mixers on tarps or heavy drop cloths.**
- ⦿ **When breaking up paving (cement or asphalt) be sure to pick up all the pieces.** Recycle them at a crushing company. Use the referral numbers listed in this pamphlet.
- ⦿ **Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.**
- ⦿ **Never bury waste material.** Recycle or dispose of it as hazardous waste material. Contact the City of Dana Point Public Works Department (949) 248-3554.



HANDLING MATERIALS AND WASTES

- ⦿ **Practice Source Reduction.** Minimize waste when ordering materials. Order only the amounts needed to complete the job.
- ⦿ **Use recycled and recyclable materials** whenever possible.
- ⦿ **Recycle** broken asphalt, concrete, wood, and cleared vegetation. Nonrecyclable materials must be taken to an appropriate landfill or disposed of as hazardous waste. Call the number listed in this pamphlet.

RECYCLE

Use a crushing company to recycle cement, asphalt, and porcelain rather than taking them to a landfill. Refer to the Yellow Pages for a local recycler of these materials.



The City of Dana Point Public Works Department thanks you for doing your part in helping to prevent pollution and protect our environment.

This brochure is one of a series of pamphlets describing storm drain protection measures. Other pamphlets include:

Food Service Industry
General Construction and
Site Supervision
Roadwork and Paving
Heavy Equipment and
Earth-Moving Activities
Landscaping, Gardening, and
Pest Control
Home Repair and Remodeling
Painting
Automotive Maintenance and
Car Care

For more information about storm drain protection or additional brochures, call:

City of Dana Point
Department of Public Works
(949) 248-3554

Best Management Practices such as
can prevent pollut



, and disposing of materials properly
the storm drains.

DISPOSAL OPTIONS

Use a crushing company like those in the following list to recycle cement, asphalt, and porcelain rather than taking them to a landfill.

Ewles Materials

San Juan Capistrano
(949) 728-0436

Dan Copp Crushing Corp.

Irvine
(949) 777-6400

R.J. Noble

Orange
(714) 637-1550

SPILL RESPONSE AGENCIES

City of Dana Point

Department of Public Works
(949) 248-3584 or
OCPFRD at (949) 643-1594

RECYCLING AND HAZARDOUS WASTE DISPOSAL

County of Orange

Integrated Waste Management Department
(714) 834-6752 or
California Waste Mgmt. Board's Recycling Hotline at (800) 553-2962

TO REPORT ILLEGAL DUMPING

City of Dana Point

Department of Public Works
(949) 248-3584

TO REPORT A CLOGGED CATCH BASIN

City of Dana Point

Department of Public Works (949) 248-3554 or OCPFRD at (949) 643-1594