

Appendix D

Illicit Discharge Controls



May 21, 2013

Att: Business Owner
Business Name
Address
City, ST ZIP

PUBLIC
WORKS

SUBJECT: *(Information Only)* City of Bend Carpet Cleaning Waste Disposal BMPs

Dear Business Owner,

575 NE 15TH STREET
PO BOX 431
BEND, OR 97701
[541] 317-3000 TEL
[541] 389-2245 FAX
BENDOREGON.GOV

The City of Bend would like to take this opportunity to inform you of an ongoing problem you may not be aware of that could negatively impact your business and local water quality. The City of Bend has noticed in the last few years a disturbing trend of improper disposal of carpet cleaning rinse waters into City owned catch basins.

It is a violation of City, state, and federal regulations to dump, or allow to be dumped, any waste onto a street, parking lot, sidewalk or storm drain. The City would like to team with you, as a business owner, to help solve this problem. This letter is being sent for educational purposes only to all businesses that may provide a carpet cleaning service, not because we have noticed any problems at your specific business.

JIM CLINTON
Mayor

JODIE BARRAM
Mayor Pro Tem

VICTOR CHUDOWSKY
City Councilor

DOUG KNIGHT
City Councilor

SALLY RUSSELL
City Councilor

MARK CAPELL
City Councilor

SCOTT RAMSAY
City Councilor

ERIC KING
City Manager

PAUL RHEAULT
Public Works Director

We wanted to take this opportunity to proactively provide some educational material to help reduce this problem. For the good of your business, and for the good of the water quality that we all drink, we ask that you partner with us in getting the word out to follow the best management practices (BMPs) outlined in the enclosed brochure. We hope that you find these best management practices helpful. If you have any questions or comments regarding the attached educational material or would like additional copies please do not hesitate to call David Buchanan, Stormwater Program Analyst at 541-317-3000.

For more information on local regulations and additional guidance, please see our website at www.bendoregon.gov/stormwater. Thank you for your continued help and support in keeping our water resources clean.

Best regards,

Wendy Edde
Stormwater Program Manager
City of Bend, Public Works Utilities Division
Enc: "Carpet & Upholstery Waste Disposal Best Management Practices"

Discharging Carpet Waste Water To A Storm Drain Is Illegal

Carpet cleaning is widely practiced in homes and commercial premises to prolong the life of carpets and to ensure that living and working areas are clean and sanitary.

Carpet cleaning activities generate wastewater. It is the responsibility of the carpet cleaning service to properly manage and dispose of this by-product.

Wastewater is attributed to the location where it is generated. If the wastewater is not being



collected and hauled offsite for proper disposal, the carpet cleaner must arrange with the customer to dispose of the wastewater at the cleaning location.

Untreated wastewater may kill plants. Do not use carpet wastewater for landscape irrigation or otherwise dump on the ground. The wastewater disposal requirements discussed in this brochure also apply to cleaning products that are labeled "non-toxic" and/or "biodegradable."

Smart Carpet Cleaning Tips

Check with your clients: when booking the job. Is this location on sewer or septic system? If the location has a septic system, plan on storing the wastewater in a collection tank and transport to an authorized sewage discharge point to avoid damage to the septic system.

Assess the site: Before starting the job, do a quick check of the location of stormwater drains and ensure that they are protected from any runoff or spills.

Vacuum before cleaning: This minimizes the amount of debris in the wastewater.

Follow instructions: Always use the recommended type and quantity of chemicals (including water-based, biodegradable, and low-phosphate products, where available) according to the manufacturer's instructions.

Filter all wastewater: before discharging into the sewer system, since fibers and other debris in the wastewater can clog pipes.

Dispose of wastewater properly: (See Proper Disposal Methods for more details).

The City of Bend would like to thank the Oregon DEQ, State of Washing Department of Ecology and Pima County Department of Environmental Quality for the original concept and best management practices utilized in this brochure.

CARPET & UPHOLSTERY CLEANING WASTE DISPOSAL

BEST MANAGEMENT PRACTICES (BMPs)



City of Bend
Stormwater Division
575 NE 15th St
Bend, Oregon 97701
(541) 317-3000

Why Is The Disposal Of Carpet & Upholstery Cleaning Regulated?

Carpet and upholstery cleaning wastewater may contain chemicals from the cleaning formula, as well as waste products such as grease and organic matter from the carpet or upholstery. Aggressive enzymes and disinfectants, which if used or managed improperly, can cause harm to humans and the environment.

Some carpet-cleaning agents are directly toxic to plants or animal life. These cleaning chemicals can act as nutrients in water and can promote excessive algae growth. Other residues from carpet cleaning may add to nutrient loadings and may themselves be toxic under certain circumstances.

Carpet cleaning wastewater that gets dumped onto streets or into storm drains can leach into the ground towards our drinking water supplies or could directly to the Deschutes River. For these reasons such activity is a violation of City Code.

Best Management Practices:

- Make sure your equipment is well serviced and that all filters are operating properly. Maintain the tanks, hoses, and fittings to prevent leaks.
- Where possible, invest in cleaning equipment and cleaning practices that minimize water use.
- Train operators and employees on pollution prevention and wastewater discharge requirements.

Proper Disposal Methods

Wastewater Disposal Prohibitions

It is prohibited to discharge wastewater and residues from carpet cleaning onto any paved surfaces, into catch basins, dry wells, drill holes or directly onto the ground because it can contaminate our rivers and ground water.

Filtering of Wastewater

Residents and professional carpet cleaners should be sure to filter the washwater from carpet cleaning before discharging it to the sanitary sewer since fibers and other debris in the wastewater can clog pipes.

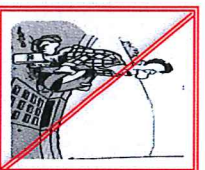
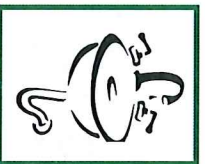
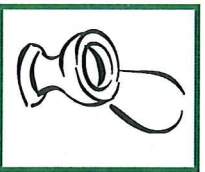
The filtered material can be disposed of in the garbage, provided that the carpet was not contaminated with hazardous materials, which cannot be discharged to the sanitary sewer. For additional information contact the City's Industrial Pretreatment Program at (541) 322-6348 prior to disposal.

Acceptable Waste Disposal Methods

Filtered wastewater from the cleaning operations should be discharged to a sink, toilet, or other drain connected to the sanitary sewer system within the client's residence/business or at an appropriate disposal facility (e.g. R.V. dump station or recycling carwash recycling with owner approval). Alternatively, a closed loop water recycle system can be used.

Septic Systems

Do not dump carpet cleaning waste into septic systems. Store wastewater in a collection tank and transport to an authorized sewage discharge point.



Code Requirements

City Code	16.20.010	General Requirements and Prohibitions - A. An illicit discharge is anything not entirely composed of stormwater that is allowed to enter a storm drainage system that discharges to surface water or groundwater. Dumping materials into or that may reach a storm drain facility, including but not limited to a storm drain inlet, a dry well or drill hole, or connecting a wastewater pipe into the storm drainage system, are prohibited under various state and local laws and result in illicit discharge.... Any illicit discharge to any storm drain, dry well or drill hole, including the Municipal Separate Storm Sewer System, Underground Injection Controls and private storm drainage systems, is a violation of this Title unless exempted by Section 16.20.030.
City Code	16.20.040	Discharge Pursuant to Bend's Stormwater Quality Permits or Regulations - B. Violation of Stormwater Quality Permits or Regulations. Any discharge that would cause a violation of Bend's NPDES Permit, TMDL, or WPCF-JIC Permit and any amendments, revisions or re-issuance thereof, either separately considered or when combined with other discharges, is prohibited. Liability for any such discharge shall be the responsibility of the person(s) causing or responsible for the discharge...

Oregon DEQ BMPs For Washing Activity (March 1998), 6.2 Mobile washing service such as carpet cleaners must collect and discharge all waste water to a sanitary sewer or collect and treat waste water in a closed loop recycle system. Disposal to sanitary sewer must be in accordance with the requirements of the local sewer authority. No discharge of this type of waste water to either the ground or surface water is allowed.

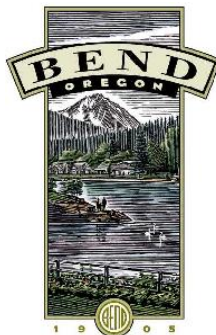
City of Bend

Illicit Discharge Minimization Best Management Practices Manual

Simple Steps to Protect Your Drinking Water and Our Beautiful Deschutes River



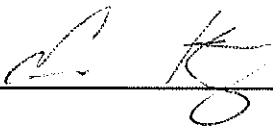
April 2013



City of Bend, Oregon
575 NE 15th Street
Bend, Oregon 97701
(541) 317-3000

Given that this City of Bend Illicit Discharge Minimization Best Management Practices Manual (Illicit Discharge Manual) is directly referred to in Bend Code Title 16.20, I certify that I have reviewed and approved this document as meeting the goals of Bend Code Title 16 to provide acceptable public guidance on illicit discharge minimization.

Signed,



Eric King, City Manager

4/30/13
Date

The City of Bend would like to thank the City of Boise, Idaho for the original concept and best management practices utilized in this manual.

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Abbreviations and Acronyms

BMP: Best Management Practices

EPA: United States Environmental Protection Agency

MEP: Maximum Extent Practicable

MS4: Municipal Separate Storm Sewer Systems

NPDES: National Pollutant Discharge Elimination System

UIC: Underground Injection Control

WPCF: Water Pollution Control Facility

Introduction

Purpose

The purpose of this manual is to define minimum requirements and establish best management practices (BMPs) to reduce unauthorized discharges into storm drains within the City of Bend. However, these BMPs may not apply for all situations. Compliance with these BMPs does not relieve those that discharge to storm drains the responsibility to comply with additional regulations established by Federal, State, and other local agencies owning and operating municipal separate storm sewer systems (MS4s) or Water Pollution Control Facilities (WPCF).

Development and Modification

This manual was developed based on Best Management Practices that have been proven useful and practicable in other communities similar to Bend. It was initially developed in conjunction with internal City Stormwater Coordinators and the Stormwater Quality Public Advisory Group. The draft was made available for a public comment period before finalization and acceptance by the City Manager. This manual shall be revised and updated as necessary and as approved by the City of Bend Stormwater Coordinators and City Manager to reflect corrections and advances in the fields of storm drain protection and water resources management. Users who request changes to this manual shall provide data to the City of Bend that supports justification for the change.

Legal Authority

The Clean Water Act of 1972, as amended in 1987, prohibits the discharge of pollutants into waters of the United States unless the discharge is in compliance with the National Pollutant Discharge Elimination System (NPDES) permit. The City of Bend is subject to the Phase II Stormwater NPDES permitting requirements. These federal regulations require the City of Bend to control pollutants in stormwater discharges to the “maximum extent practicable” (MEP) standard. MEP means the technology based standard established by Congress in Clean Water Act section 402(p)(3)(B)(iii). The MEP standard generally emphasizes pollution prevention and source control BMPs in combination with structural or system treatment methods serving as a backup.

Additionally the Federal Safe Drinking Water Act and Oregon OARs 340 Division 40 and 44 require that discharges towards groundwater through Underground Injection Controls (UICs) must meet effluent limits at the point of discharge. Within this regulatory context, the City of Bend has established BMPs that reduce pollutants that may be carried in stormwater runoff. Please be aware that other City codes have established stormwater BMPs that are required for new development and significant redevelopment, construction site discharge controls, and other pollution prevention programs. Laws that provide City of Bend with the authority to regulate drainage within the City’s jurisdiction include, but are not limited to constitutional authority as a municipal corporation to promulgate purpose modifications and addendum authority; and City Code Title 16.

The City of Bend Code titled Grading, Excavation, and Stormwater Management ordinance Title 16 gives the City of Bend authority to control and secure the City’s storm drains; and authorizes the City to adopt standards for storm drains. Title 16 also serves to protect and enhance the water quality of our water bodies, groundwater, and to control non-stormwater discharges to storm drains and reduce pollutants in stormwater discharges.

Section 16.20.30 identifies that “discharges from the following activities will be allowed subject to application of City of Bend Non-Stormwater Disposal Best Management Practices:

- Water line flushing and other discharges from potable water sources
- Landscape irrigation and lawn watering
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater
- Discharges from potable water sources
- Water from potable groundwater monitoring wells
- Draining and flushing of municipal potable water storage reservoirs
- Foundation drains
- Air conditioning condensate
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual residential car washing
- Charity car washing
- Vehicle washing that does not use detergents or hot water
- De-chlorinated swimming pool and fountain discharges
- Incidental street wash water
- Routine external building wash-down and pavement wash waters that do not use detergents or hot water.
- Discharges or flows from emergency fire-fighting activities provided you take precautions, to the extent practicable, to protect injection systems during emergency fire-fighting activities. Wash down of spills into any underground injection system is prohibited.
- Discharges of treated water from investigation, removal, and remedial actions selected or approved by DEQ pursuant to Oregon Revised Statutes (ORS) Chapter 465 (Hazardous Waste and Hazardous Materials).
- Start-up flushing of groundwater wells; and
- Other similar temporary discharges of uncontaminated water.

Best Management Practices

The following City of Bend general stormwater requirements apply to these and all other storm drain uses:

- ❖ Use all reasonable measures to reduce pollutants entering storm drains (e.g., litter, detergents, waste, oil, grease, fertilizers, etc.)
- ❖ Properly store grease, oil, de-icing materials, and hazardous and non-hazardous substances to prevent leaks and spills from entering storm drains. Maintain pavement, sidewalks, parking lots, gas stations, and streets or roads to prevent the accumulation of pollutants that may enter storm drains. Do not throw any pollutant into any body of water except as otherwise permitted under local, State, or Federal law.

When possible discharge pool or spa water to the sanitary sewer. Otherwise, these discharges can be directed to a landscape area or adjacent storm drain after the chlorine residual has been reduced (e.g., wait three days and test to see if chlorine is less than 1.0 parts per million (ppm)) and after all debris and sediment has been swept along the flow path to the storm drain.

In addition, the property cleaning BMPs (See BMP Section 1) are recommended for all, and the Waste Disposal Requirements (pages 12 - 15) should be followed by all.

Commercial and Industrial BMPs

Commercial and industrial facilities must manage stormwater consistent with Federal, State and Local requirements. To determine what BMPs to use, the activities that occur at the facility must be identified. The BMP directory has been developed to guide commercial and industrial facility operators to the applicable BMPs.

All facilities shall meet the property cleaning requirements established in BMP Section 1.

BMP Directory

	Examples	Yes <input type="checkbox"/> No <input type="checkbox"/>
➤ Are there any non-stormwater discharges to drains?	<ul style="list-style-type: none"> • Process Wastewater • Cooling waters • Wash water • Sanitary wastewater • Graywater 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 3 🗑 See Disposal Requirements
➤ Does outdoor storage, materials loading, unloading, or transfer occur for any raw materials, finished goods, wastes, or other substances?	<ul style="list-style-type: none"> • Outdoor loading dock • Liquids • Bulk liquids or solids 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 4 🗑 See Disposal Requirements
➤ Are there any vehicle or equipment practices conducted outdoors on this site?	<ul style="list-style-type: none"> • Fueling • Routine maintenance, repair, painting • Washing, steam cleaning • Manufacturing 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 5 🗑 See Disposal Requirements
➤ Are building exteriors (including windows, roof gutters, rooftops, etc.) and grounds (including sidewalks, pools, gutters, etc.) maintained?	<ul style="list-style-type: none"> • Landscaping • Pesticide use • Washing, painting • Pools 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes see, BMP Sec. 1,2 and 6 🗑 See Disposal Requirements
➤ Can materials used, stored on-site, or contained in equipment accidentally spill?	<ul style="list-style-type: none"> • Outdoor loading/unloading, storage • Vehicle or equipment maintenance • Building or landscape maintenance 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 7 🗑 See Disposal Requirements
➤ Are there any building or equipment repairs, remodeling, or construction activities occurring on-site?	<ul style="list-style-type: none"> • Erodible surface areas • Temporary outdoor storage • Sandblasting • Painting • Equipment repair/replacement 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 8 🗑 See Disposal Requirements
➤ Are there any stormwater facilities on-site?	<ul style="list-style-type: none"> • Catch basins • Conveyance ditches • Gutters • Drains • Drywells • Swales / Bioretention / Detention, etc. 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 9 🗑 See Disposal Requirements

BMP Section 1: Property Cleaning BMPs

Property cleaning and maintenance activities can deliver pollutants such as heavy metals, oil and grease, and toxic chemicals to storm drains. When these pollutants enter storm drains they flow to the Deschutes River or towards ground water. Best Management Practices (BMPs), when applied, are able to reduce pollutants from this urban runoff. The City of Bend has established the following BMPs to reduce the discharge of pollutants.

Required

- ❖ Routine property maintenance that includes litter control, frequent sweeping, and ongoing spill containment and clean-up using dry clean-up methods is required and may help reduce the frequency of a more thorough pavement cleaning with water.
- ❖ Sweep paved areas to be cleaned just prior to pressure washing or steam cleaning and dispose of soil and debris in trash or landscaping. Do not place in storm drains.
- ❖ Do not discharge commercial wash water from steam cleaning or laden with detergents or cleaning chemicals to storm drains. Wash water with soap, even biodegradable soap, is not allowed into storm drains. Direct small amounts of this type of wash water onto landscaped areas for infiltration or collect and dispose of the wash water into City of Bend sanitary sewer. Individual residential and non-profit group car washes are exempt from this requirement.
- ❖ Any discharge to sanitary sewer must have prior approval through City of Bend Public Works and may be subject to permitting under the City's pretreatment program. Call (541)-322-6348 for more information.

Recommended

- Minimizing the overall amount of water used for cleaning is encouraged (e.g., high-pressure washing). Small discharge amounts can be directed onto adjacent landscaped areas.
- Place filters for debris sediment, and oil and grease hydrocarbon booms or pads around storm drain inlets or access points if these materials are present, or apply other suitable BMP technology. There should be no visible sheen on the discharge entering the storm drain.

BMP Section 2: General Industrial and Commercial Business BMPs

Required

- ❖ Train employees to protect storm drains and to use good housekeeping techniques. Good housekeeping includes: spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste. See the Waste Disposal Requirement section on page 12 for more information.
- ❖ Conduct property cleaning in accordance with the BMPs identified on page 4.
- ❖ Prevent and clean up spills immediately using dry cleanup methods.

BMP Section 2: General Industrial and Commercial Business BMPs (Cont.)

Required (continued)

- ❖ Depending on the type and quantity of materials present, keep and maintain spill cleanup kits in all activity areas.
- ❖ Review the materials at your facility and whether there are specific regulations pertaining to their use and disposal (i.e., hazardous materials).
- ❖ See the Waste Disposal Requirements section on page 12 for more information.

Recommended

- Conduct regular inspections and self-audits to identify hazardous materials and activities that impact stormwater.
- Mark storm drains with a “Dump No Waste” message to identify stormwater drains and to prevent non stormwater discharges.
- Look for ways to reduce, reuse, and recycle materials and use non-toxic or the least toxic materials available.
- Locate business activities indoors or in designated areas away from a gutter or storm drain to prevent stormwater from running onto and off of the site. Or, cover the activity, use curbing or berms, pave the work surface, and/or provide secondary containment with drainage to a treatment system or dead-end sump.
- Preserve and maintain existing on-site vegetation for infiltration opportunities.

BMP Section 3: Non-Stormwater Discharges BMPs

Required

- ❖ Eliminate illicit connections to the storm drainage system by inspection, piping schematic review, smoke testing, or dye testing. Contact the City of Bend Public Works Industrial Pretreatment Program at (541) 322-6348 for more information about connecting to and using the sanitary sewer system.
- ❖ Train employees on how to properly dispose of non-stormwater discharges. See the Waste Disposal Requirements section (page 12) for more information.

Recommended

- Eliminate or reduce non-stormwater discharges to the stormwater collection system by isolating problem areas or re-plumbing to sanitary sewer lines in accordance with requirements.
- Provide well-marked procedures for proper disposal or collection methods for wastewater to prevent storm drain use violations.

BMP Section 4: Outdoor Storage and Loading BMPs

Required

Loading and Unloading:

- ❖ Install safeguards against accidental releases such as overflow protection devices and protection guards around tanks and piping.
- ❖ Train employees in spill control and clean up procedures.

Container, Bulk, and Waste Storage:

- ❖ Clearly label containers or tanks and place them in a designated storage area with secondary containment.
- ❖ Take steps to prevent unauthorized entry into the storage area.
- ❖ Inspect tanks, drums, containers, and equipment regularly for leaks or spills.
- ❖ Store and maintain spill cleanup materials near the storage area.

Recommended

Loading and Unloading:

- Load and unload toxic materials indoors. If this is not possible, then it is recommended to cover the outside loading and unloading docks to reduce exposing materials to rain or snow.
- Use drip pans and/or absorbent materials to catch leaks or spills under hoses and pipe connections, when transferring liquids, or if material is removed directly from tanks and containers.

Container, Bulk, and Waste Storage:

- Cover bulk solid materials (gravel, sand, lumber, etc.) and protect from rain, snow or stormwater run-on.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs

Required

Vehicle Washing:

- ❖ When washing with detergents use designated wash areas that drain to either a sanitary sewer or an appropriate on-site treatment system.

Fueling:

- ❖ Connecting fuel-island drains to the storm drain system or sanitary sewer is prohibited. Contact City of Bend Industrial Pretreatment Program at (541)-322-6348 for additional information regarding sewer connections.
- ❖ Install automatic shutoff protection devices on hoses. Consult City of Bend Fire Department at (541) 322-6300 for additional information.

Maintenance, Repair, & Painting:

- ❖ Connect the process equipment area to either the sanitary sewer or the facility wastewater treatment system. Contact the City of Bend Permit Center before connecting to a system.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs (Cont.)

Required (continued)

- ❖ Install a spill/drip collection system and secondary containment in the fueling area. Ensure that the fueling area drains to a treatment and collection system designed for petroleum products.
- ❖ Label and store recycling greases, used oil or oil filters, antifreeze, cleaning solutions, auto batteries, hydraulic fluids and transmission fluids separately.
- ❖ Properly dispose of mercury containing equipment (e.g., switches) and other hazardous waste.
- ❖ Sweep process areas frequently and avoid washing down the areas to storm drain.
- ❖ Inspect process lines for leaks or malfunctions regularly and repair leaks or malfunctions promptly.
- ❖ Ensure oil filters are drained before recycling or adding to solid waste.

Operation & Processing:

- ❖ Connect Processing equipment to sanitary sewer. Coordinate with City of Bend Industrial Pretreatment Program at (541)-322-6348.

Recommended

Vehicle Washing

- Consider taking vehicles and equipment to a commercial washing facility that recycles its wash water or consider filtering and recycling wash water.
- If washing with detergents, use a phosphate free detergent.
- Look for ways to reduce the amount of water used when washing vehicles or equipment.

Fueling:

- Avoid “topping off” of fuel tanks.
- Cover fueling island areas to minimize runoff potential.

Maintenance, Repair, and Painting:

- Use drip pans underneath vehicles and equipment when performing maintenance or when putting vehicles or equipment into storage.
- Mercury is a highly toxic metal that is often found in pre 2003 vehicle hood or trunk light switches and ABS sensors. Consider having the mercury switches in your auto fleet changed to non-mercury by a qualified mechanic. See Additional Hazardous Waste Disposal Resources Section on page 15 for additional information on mercury switches.
- Reduce solvent use by using a wire brush or a bake oven to clean parts and equipment.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs (Cont.)

Recommended (continued)

- Sweep or use a vacuum to clean up sanding metal or Bondo. For safety purposes never use a vacuum for cleaning up flammable liquids.
- Allow debris from wet sanding activities to dry overnight if possible and either sweep or vacuum the debris, or invest in sanding equipment that has an attached vacuum system.
- Place drip pans underneath potential leak points.

BMP Section 6: Outdoor Maintenance BMPs

Required

Landscaping:

- ❖ Ensure employees are trained in spill control and clean up procedures.
- ❖ Use pesticides, herbicides and fertilizers according to the manufacturer's recommendations.
- ❖ Train employees to use pesticides, herbicides and fertilizers properly to prevent accidents and to address spill control and cleanup measures.
- ❖ Store and maintain spill cleanup materials near pesticide, herbicides and fertilizers storage areas.
- ❖ Properly dispose of debris daily.

Structure Maintenance:

- ❖ Collect trash and yard debris and dispose of properly as needed.
- ❖ Store paints, solvents, and other maintenance materials in a covered area.
- ❖ Install secondary containment where required.
- ❖ Inspect and clean the storm drainage system as needed (e.g., twice a year) to ensure they operate as originally designed.
- ❖ When lead-based paint is present use ground or drop cloth under painting, scraping and during sandblasting activities. Contact EPA 1-800-LEAD-FYI.

Recommended

Landscaping:

- Use integrated pest management practices where appropriate.
- Use up pesticide, rinse containers, use rinse water as product.
- Purchase only the amount of pesticides and fertilizer you need for your site.

BMP Section 6: Outdoor Maintenance BMPs (Cont.)

Recommended (continued)

- Avoid using metal-based algaecides (copper sulfate) in fountain water.
- Structure Maintenance:
- Store and maintain spill cleanup material near pesticides storage areas.
 - Sweep the area frequently to avoid accumulation of materials.
 - Avoid blowing trash, yard debris, and dust into streets or gutters.
 - Do not discharge wash water from steam cleaning or laden with detergents or cleaning chemicals to storm drains. Wash water with soap, even biodegradable soap, is not allowed into storm drains.
 - Establish an operation and maintenance schedule and track maintenance activities. List the contact person responsible for inspection and maintenance.
 - When lead-based paint is not present the use of a ground or drop cloth under painting, scraping and during sandblasting activities is encouraged.

BMP Section 7: Spill Prevention, Control and Cleanup BMPs

Required

- ❖ Train employees in proper spill control and spill response procedures. Post spill response procedures as well as phone numbers so they are visible to staff.
- ❖ Regularly inspect and maintain spill cleanup kits in all activity areas.
- ❖ Report all spills to the Oregon Emergency Response System (1-800-452-0311) that release:
 - Any amount of oil to waters of the state.
 - Oil on land in excess of 42 gallons.
 - Hazardous materials that are equal to, or greater than, the quantity listed in the Code of Federal Regulations, 40 CFR Part 302 and amendments adopted before July 1, 2002.
<http://www.epa.gov/oust/fedlaws/cfr.htm>

Recommended

- When posting required spill response procedures consider also posting in areas where spills may come in contact with stormwater.
- Utilizing the three-step cleanup process for spills and leaks is recommended:
 1. Always use dry methods to clean up spills. Clean spills with rags or absorbent materials.
 2. Sweep the floor using a dry absorbent material.
 3. Mop the floor. If the mop water does not contain hazardous constituents, then it may be discharged to the sanitary sewer via a toilet, sink or floor drain.
- Inventory hazardous materials used, stored on site, or contained in equipment. Seek out ways to remove or replace non-essential hazardous materials wherever possible.

BMP Section 8: Building & Equipment Repair, Remodeling, Construction & Demolition BMPs

Required

General Construction:

- ❖ Prevent sediment laden stormwater runoff during construction activities by complying with local and federal requirements. Contact City of Bend Community Development Department at (541)-388-5580 for more information.
- ❖ Monitor subcontractors and employees to ensure they are practicing good housekeeping techniques and are aware of spill prevention, control, and cleanup procedures and proper waste disposal methods.
- ❖ Dispose of thermostats, fluorescent bulbs, and other mercury-containing equipment as hazardous waste.
- ❖ Stockpile soil, base rock, and other construction materials away from the street or storm drain.

Painting:

- ❖ Clean latex (water-based) paint brushes and equipment with water in a sink that is connected to the sanitary sewer.
- ❖ Clean oil-based paint brushes and equipment where waste paint and solvents can be collected and disposed as hazardous waste.
- ❖ When removing lead-based paint:
 1. Cover the ground with plastic sheeting (or other similar material) generally extending 10 feet beyond the perimeter of the exterior surface.
 2. Collect all of the paint chips, debris and seal in a heavy-duty bag.
 3. Mist or wet the plastic sheeting (which, presumably, is wet from the washing), fold the dirty side inward, and tape to seal or seal in a heavy-duty bag.
 4. Dispose of the sheeting and bag as waste.

Contact EPA 1-800-LEAD-FYI for additional information.

- ❖ Wipe oil based paint out of brushes, then filter and reuse or properly dispose of thinners and solvents.

Recommended

General Construction:

- Minimize disturbed soil exposure time and stabilize exposed soils by mulching, hydromulching, or using geotextiles.
- Inventory hazardous materials used, stored on site, or contained in equipment. Seek out ways to remove or replace non-essential hazardous materials wherever possible.
- Store materials under cover or in areas with secondary containment.
- Provide a gravel pad on-site for materials and equipment delivery. Stockpile soil, gravel, or other construction materials away from a street or storm drain.

BMP Section 8: Building & Equipment Repair, Remodeling, Construction & Demolition BMPs (Cont.)

Recommended (continued)

Painting:

- Segregate wastes for recycling and/or disposal. See the Waste Disposal Alternatives section for more information.
- When lead-based paint is not present, use of a ground or drop cloth under painting, scraping and during sandblasting activities is encouraged.

BMP Section 9: Stormwater Facility Operation and Maintenance BMPs

Required

- ❖ Inspect and clean the storm drains, storm drain equipment, piping, valves, joints, and pavement as needed (e.g., twice a year) to ensure they operate as originally designed and to reduce stormwater pollution.
- ❖ Train employees to protect storm drains and to use good housekeeping techniques. (Good housekeeping includes spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste.) See the Waste Disposal Requirements section for more information.

Recommended

- Store materials under cover or in areas with secondary containment.
- Establish an operation and maintenance schedule and track maintenance activities. List the contact person responsible for inspection and maintenance. Good housekeeping includes spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste.

Waste Disposal Requirements

Construction Material Waste Disposal

Excess oil-based paint

- ❖ Recycle/reuse; donate to nonprofit organization. Dispose of as hazardous waste.

Clean-up of oil-based paint

- ❖ Donate to nonprofit organization or dispose of as hazardous waste.

Excess water-based paint

- ❖ Recycle/reuse; donate to nonprofit organization.
- ❖ Small quantities: let the paint residue dry in the cans; remove lid; dispose in trash.
- ❖ Large quantities: solidify with cat litter, air dry, then dispose in trash.
- ❖ Or dispose of as hazardous waste.

Cleanup of water-based paint

- ❖ Wipe paint out of brushes, then: Rinse to sanitary sewer or landscaping. Do not rinse to septic systems or storm drains.
- ❖ Empty paint cans (dry): Remove lids, dispose lids and cans in trash.

Paint stripping (with solvent)

- ❖ Dispose of as hazardous waste.

Exterior cleaning of buildings (Non-Hazardous materials present)

- ❖ Direct wash water into landscape areas and infiltrated into the ground.
- ❖ No wash water or debris is to be left in the street and no discharges to storm drains is allowed.

Exterior cleaning of buildings with paints containing lead

- ❖ Dispose of as waste. For assistance, contact EPA 1-800-LEAD-FYI.
- ❖ Paint chips and debris shall be disposed of as a waste.
- ❖ Do not allow wash water to enter a storm drain.

Paint scraping/sand blasting (Non-hazardous materials)

- ❖ Dry sweep, dispose in trash.

Cleaning, Construction & Demolition Debris (Non-hazardous materials)

- ❖ Recycle/reuse concrete, wood, asphalt, or other construction materials.
- ❖ Transport to landfill as construction and demolition waste. For assistance, contact Knott Landfill at (541) 317-3163 www.deschutes.org/Solid-Waste.aspx.
- ❖ Any stormwater or dewatering discharges to sanitary sewer must have prior approval from the City of Bend Industrial Pretreatment Program. Call (541)-322-6348 for more information.

Cleaning, Construction & Demolition Debris (Hazardous Materials)

- ❖ Dispose of as hazardous waste debris.
- ❖ For asbestos follow landfill packaging requirements. For assistance, contact Knott Landfill at (541) 317-3163 or www.deschutes.org/Solid-Waste.aspx.

Building & Property Maintenance Waste Disposal

Leaking Garbage Dumpsters & Grease Container

- ❖ Collect and contain leaking material. Repair leak and return to dumpster or contact disposal company for repair.

Wash Water from Cleaning

- ❖ Filter wash water through grease interceptor; contact City of Bend IPP at (541)-322-6348 before discharging to sanitary sewer.

Exterior Building and Routine Property Maintenance (Non-hazardous materials)

- ❖ Recycle/reuse; Dispose of soil and debris in trash can.

Exterior Building and Property (Hazardous Materials)

- ❖ Cleaning Chemicals (Hazardous Waste) Dispose of as hazardous waste; contact Knott Landfill at 541- 317-3163 or www.deschutes.org/Solid-Waste.aspx. No cleaning chemicals, wash water or debris is to be left in the street or discharged to storm drain.

- ❖ Cleaning (paint contains lead): For assistance, contact EPA 1-800-LEAD-FYI.

- ❖ Fluorescent light bulbs: Dispose of as hazardous waste.

Note: Fluorescent bulbs contain mercury and must not be broken or crushed.

For assistance, contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx. Some manufacturers produce low mercury bulbs that, with additives, may not characterize as hazardous waste. Testing prior to disposal is necessary to verify compliance with federal universal waste regulations.

Vehicle Waste Disposal

Used Motor Oil (Hazardous Materials)

- ❖ Send to recycler. (Use secondary containment while storing). For assistance contact Knott Landfill at (541) 317-3163 or www.deschutes.org/Solid-Waste.aspx.

Antifreeze (Hazardous Materials)

- ❖ Send to recycler (Use secondary containment while storing).

Other Vehicle Fluids and Solvents (Hazardous Materials)

- ❖ Dispose of as hazardous waste.

Automobile Batteries (Hazardous Materials)

- ❖ Send to auto battery recycler.

Mercury Containing Equipment (Hazardous Materials)

- ❖ Dispose of as hazardous waste. (switches, etc.).
For further assistance with vehicle waste disposal contact Knott Landfill at (541) 317-3163 or www.deschutes.org/Solid-Waste.aspx.

Vehicle Washing / Mobile Vehicle Washing

- ❖ Recycle wash water when possible.
- ❖ Collect and dispose of wash water to sanitary sewer. Contact City of Bend, 541-322-6348 before discharging to oil/water separator connected to sanitary sewer.
- ❖ Rinse water (new car fleets): If rinse water is free of detergents or other cleaners, and as long as the wheels, undercarriage, and engine are not rinsed, discharge to the storm drain is allowed.

Vehicle Waste Disposal (Cont.)

Vehicle leaks (auto repair shops)

- ❖ Sweep up leaks using granular absorbent material (e.g., cat litter) and dispose of in trash.
- ❖ Dispose of mop water to oil/water separator connected to sanitary sewer.
For further assistance with vehicle waste disposal contact Knott Landfill at (541) 317-3163 or www.deschutes.org/Solid-Waste.aspx.

Landscape and Garden Maintenance Waste Disposal

Pesticides, Herbicides & Fertilizers (Hazardous Materials)

- ❖ Dispose rinsed containers in trash.
- ❖ Dispose unused material as hazardous waste.

Garden clippings

- ❖ Compost or take to landfill.

Tree Trimming

- ❖ Chip, if necessary, before composting or sending to landfill.

Residential Swimming Pools or Spa

- ❖ For private swimming pools, when possible discharge pool or spa water to the sanitary sewer. Contact City of Bend Industrial Pretreatment Program at (541) 322-6348 before discharging to the sanitary sewer.
- ❖ Discharges can be directed to a landscaped area after the chlorine residual has been reduced to less than 1.0 parts per million (ppm)).
- ❖ With prior approval from the City stormwater program, discharges can be directed to a City catch basin after the chlorine residual has been reduced to less than 1.0 parts per million (ppm)). For approval contact City of Bend Stormwater program at 541-317-3000.

Public Swimming Pools

- ❖ Contact City of Bend Industrial Pretreatment Program at (541) 322-6348 before discharging to the sanitary sewer.
- ❖ Neutralize acid or other pool chemical products and discharge to the sanitary sewer. Reuse for irrigation water or dispose on landscape areas.
- ❖ With prior approval from the City stormwater program, discharges can be directed to a City owned catch basin after the chlorine residual has been reduced (e.g., wait three days and test to see if chlorine is less than 1.0 parts per million (ppm)). For approval contact City of Bend Stormwater program at 541-317-3000.

Fountain Water

- ❖ Direct to a landscaped area.
- ❖ With prior approval from the City, discharge to the sanitary sewer.

Other Wastes

Carpet Cleaning Discharge

- ❖ Dispose into the sanitary sewer via a filter. Contact City of Bend Industrial Pretreatment Program at (541) 384-3991 for more information.
- ❖ Do not dump carpet cleaning waste to storm drains, landscaping or septic systems. Store wastewater in a collection tank and transport to an authorized sewage discharge point via a filter (i.e., RV dump station or car wash with owner approval).

Contaminated Liquids

- ❖ Treatment may be necessary. Comply with all Oregon Department of Environmental Quality, City of Bend and Federal regulations, prior to any underground injection, infiltration, or disposal to the sanitary sewer. For more information call the City of Bend at (541) 317-3000.

Kitchen Grease

- ❖ Put in closed container and put in the trash. NEVER flush down the drain.
- ❖ Small amounts of cooking oil: fill disposal container with kitty litter and pour oil in. Add sufficient kitty litter to absorb all of the oil, reducing mess and spillage. Dispose to trash as solid waste.
- ❖ For additional information on fat/oil/grease call City of Bend Industrial Pretreatment Program at (541) 384-3991.

Graywater from Mobile Food Units

- ❖ Comply with Oregon Department of Human Services Mobile Food Unit Operations Guide: <http://public.health.oregon.gov/HealthyEnvironments/FoodSafety/>
- ❖ Dispose into the sanitary sewer via a grease interceptor as approved by City of Bend Industrial Pretreatment Program (call (541) 384-3991 for more information).

Restaurant & Commercial Exhaust Hood Cleaning

- ❖ Block storm drains, contain, collect and return spilled material through a grease interceptor then discharge to sanitary sewer.
- ❖ For additional information on fat/oil/grease call City of Bend Industrial Pretreatment Program at (541) 384-3991.

Decant Water From Stormwater Facility Maintenance

- ❖ Decant water through an oil/water separator then discharge to sanitary sewer or other DEQ approved disposal facility.
- ❖ For additional information call City of Bend Industrial Pretreatment Program at (541) 384-3991.

Solid Debris From Stormwater Facility Maintenance

- ❖ Material testing may be required prior to landfill disposal; coordinate with the Knott Landfill at (541) 317-3163 www.deschutes.org/Solid-Waste.aspx or other DEQ approved disposal facility.

Additional Hazardous Waste Disposal Resources

U.S Environmental Protection Agency - Wastes Quick Finder
www.epa.gov/osw/hazard

Oregon Department of Environmental Quality – Land Quality
www.deq.state.or.us/lq/hw

Oregon Office of State Fire Marshal - Hazardous Substance Information System
www.oregon.gov/OSP/SFM/Pages/CR2K_InfoAvailable.aspx

Oregon Department of Environmental Quality – Managing Mercury Switches
<http://www.deq.state.or.us/lq/pubs/factsheets/hw/ManagingMercurySwitches.pdf>

Additional Resources

Central Oregon Stormwater Manual
www.coic2.org/community-development/water-resources/

Contact Information

To Report a Stormwater Problem or Emergency Spill:

Emergency Spill.....911

City of Bend (Community Development)..... (541) 388-5580
Permitting, Construction Site Erosion, Dust, Ordinances & Regulations
www.bendoregon.gov/cdd

City of Bend (Fire Marshall)..... (541) 322-6300
Hazardous Material Storage, Fire Codes
www.bendoregon.gov/fire

City of Bend (Industrial Pre Treatment Program)..... (541) 322-6348
Sanitary Sewer use & regulations, Fat Oils & Grease (FOG)

City of Bend (Police – Non Emergency)..... (541) 322-2960
Report a Crime or Incident
www.bendoregon.gov/police

City of Bend (Public Works)..... (541) 317-3000
Stormwater Operation and Maintenance, Street sweeping, flooding
www.bendoregon.gov/streets

City of Bend (Stormwater Pollution Hotline)..... (541) 317-3000
Illicit Discharges, Improper use of storm drains, Minor Spills
www.bendoregon.gov/stormwater

Oregon Department of Transportation..... (541) 383-0121
Highway Construction Site Erosion, Dust, Flooding
www.oregon.gov/odot

Oregon Emergency Response System (OERS)..... 1-800-452-0311
Industrial Hazardous Waste, Permits
www.oregon.gov/OMD/OEM/Pages/tech_resp/oers.aspx

Knott Landfill..... (541) 317-3163
General Information, Hazardous Materials Collection and Recycling
www.deschutes.org/Solid-Waste.aspx

Mailing Address

City of Bend
Public Works Department
575 NE 15th Street
Bend, OR 97701

Fire Department Coordination Meeting

September 6, 2012

Attending: Mark Taylor (Fire--Training); Doug Kollermeier (Fire--Ops); Wendy Edde, David Buchanan (Public Works--Stormwater)

Key Issues Discussed:

- Foam liquid fire suppression training—type, location, any stormwater implications
- Fire Department/Training Best Management Practices
- Communication pathways

Key Decisions Made/Action Items:

- Given the commitment to using basic spill clean-up practices, given the location of training is not near stormwater facilities and given the quantities used and frequency (once/year), it was determined that there would not be a stormwater problem holding the foam liquid fire suppression trainings.
- Mark and Doug will take a look at the BMPs being used in Riverside County (handout distributed), for those appropriate for our area, and will review the draft Illicit Discharge Manual (especially general cleaning BMPs) that David distributed.
- Wendy and David will check into how contacts from Fire 911 come into public works as it would be good for a call to also come to David to follow-up on illicit discharges. If the system is not set correctly, fire will work with public works to get the contacts into their 911 system.
- UIC Systemwide Assessment facility information contact at Fire is Tom Fay, Facility plans X6377.

Fire-fighting Coordination
9/6/12

Sign-In

<u>Name</u>	<u>Dept.</u>
1. Wendy Edde	Public Works.
2. T. Smith	FW Storm
3. Mark Taylor	Bend Fire-Training
4. Duty KOTTERMEIER	BEND FIRE DEPT - OPS

City of Bend
Public Works Staff Meeting
Agenda
Draft

November 28, 2012

7:05 am Pre Meeting Slideshow Loop

7:15 am Opening – Paul Rheault (20 min)

- Public Works Update
- Revised Employee Handbooks
- Vacant Positions

7:35 am Safety Award Presentation (5 min)

7:40 am Kurt Boudette & Steve Prazak (30 min)

- Hazardous Waste Management Awareness

8:15 am Close Meeting

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

Name

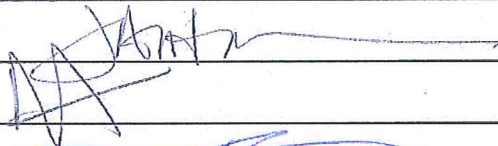
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Abbas, David



Alley, Mary Beth

Anderson, Jovi



Arnis, Nick

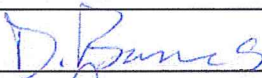


Babich, Tyler

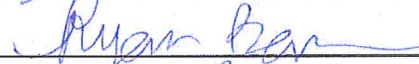


Baglien, Garry

Barnes, Drexell



Barnes, Ryan



Birindelli, Edie



Blackwelder, Brice

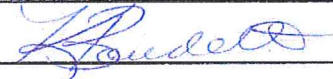


Blake, Christopher

Borrego, Dave



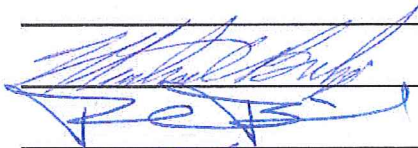
Boudette, Kurt



Breadon, Rob

Breeden, Virgil

Brelje, Chris

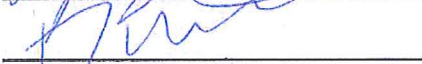


Brick, Paul

Brooks, Logan



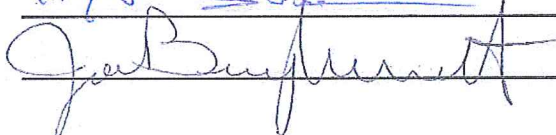
Buchanan, David



Buhmann, Donald



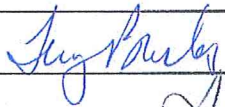
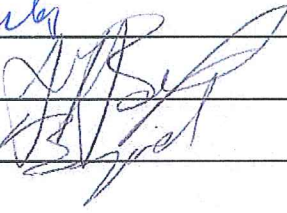

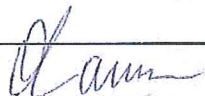
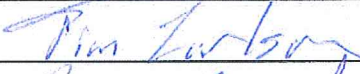
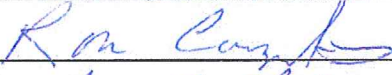



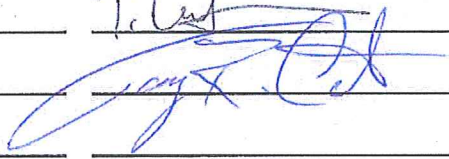
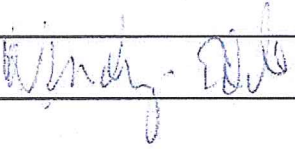
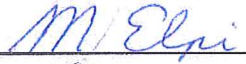

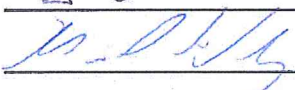
Burghardt, Joe



November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

Name	Signature Required
Burks, Terry	
Buystedt, Jeff	
Byrd, Steve	
Canaday, Diane	
Cannon, Dennis	
Carlson, Tim	
Carpenter, Ron	
Cashwell, Spencer	
Clarno, Karen	
Coffman, Denny	
Collet, Aaron	
Combs, Tyler	
Cota, Tony	
Daniel, Jay	
Deke, Tyler	
Easton, Art	
Edde, Wendy	
Eldrige, Josh	
Elpi-Trainor, Michelle	
England, Jeff	
Findley, Mike	

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

Name

Signature Required

Jones, Shawn

Judd, Arthur

Judd, Gary

Kadow, Gina

Kampmann, Kim

Keith, Brian

Kelly, Mike

Kuss, Richard

Lancaster, Quirt

Lansdowne, Heidi

Ledder, Dave

Lee, Dave

Lewis, Robin

Libolt, Orrin

Lindsey, Jim

Lyman, Lori

Malinowski, Adam

McAfee, Adele

McBride, Donald

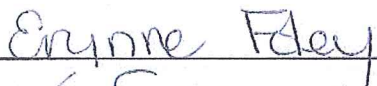
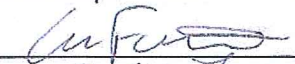
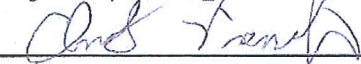
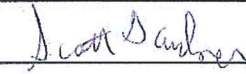
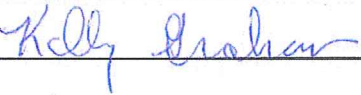
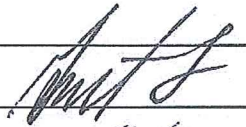



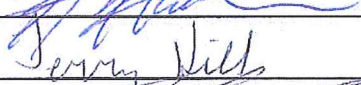

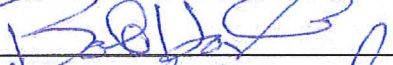

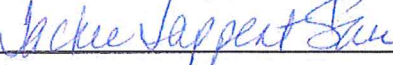

McCloskey, Marcus

McConnell, George

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

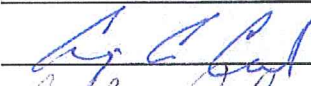
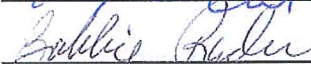
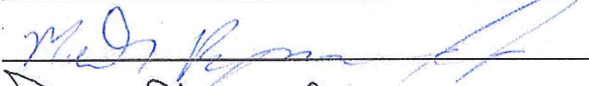
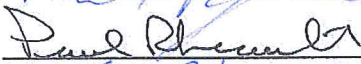



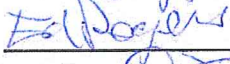
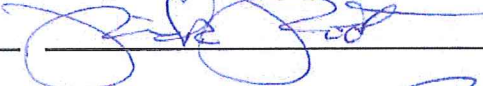
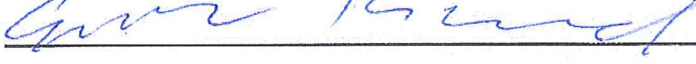




Public Works Department Staff Meeting

Name	Signature Required
Foley, Erynne	
Forster, Eric	
French, Andy	
Fulghum, Jude	
Gardner, Scott	
Gillette, Mike	
Glover, Stan	
Graham, Kelly	
Griffiths, Patrick	
Hall, Jimmy	
Hamilton, Grant	
Hansen, Matthew	
Hanson, Hardy	
Hartman, Cindy	
Hickmann, Tom	
Hill, Terry	
Hobbs, Eric	
Hopkins, Bob	
Howe, Carl	
Jappert-Saul, Jackie	
Jones, Shane	

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

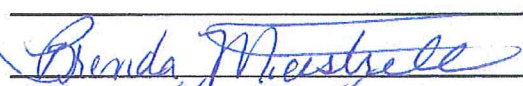
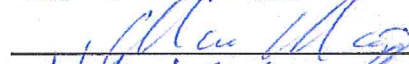


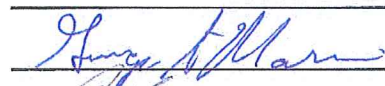

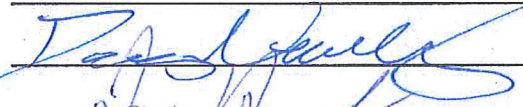
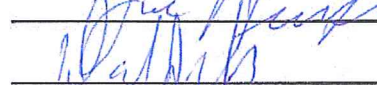
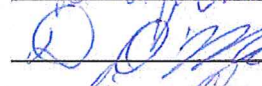

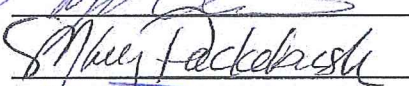
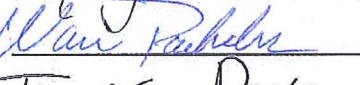

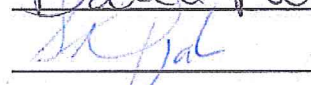



Public Works Department Staff Meeting

Name	Signature Required
Qual, Craig	
Rader, Bobbie	
Ramsey, Kevin	
Raymond, Mark	
Rheault, Paul	
Richmond, Stu	
Riley, Steve	
Ristoff, Kelly	
Ristoff, Teresa	
Rogers, W. Ed	
Root, Rick	
Roshone, Elmer	
Rounds, Stuart	
Sanvitale, Spencer	
Scarbrough, Saedell	
Schwartz, James	
Shafer, Kurt	
Simon, Crystal	
Simpson, Steve	
Skaggs, Dan	
Smith, Will	

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

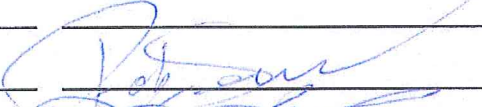
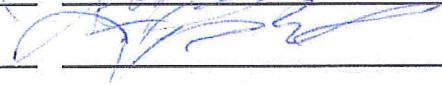
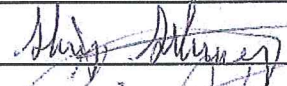
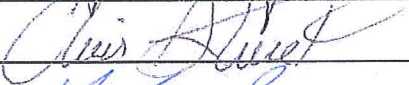
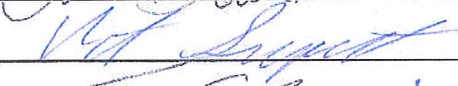
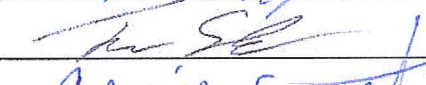
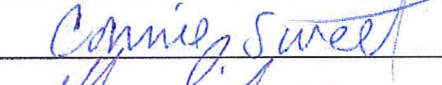
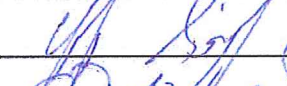
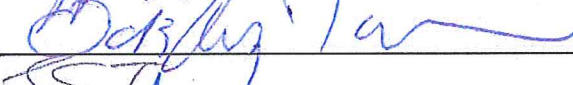
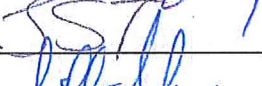






Public Works Department Staff Meeting

Name	Signature Required
Meistrell, Brenda	
Mickey, Marc	
Milligan, Will	
Mingus, Rod	
Moody, Reese	
Morrison, George	
Mosher, Chris	
Murphy, Justin	
Newberg, Doug	
Newton, Joseph	
Oak, David	
O'Malley, Dan	
Ossenkop, Jim	
Oster, Ryan	
Packebush, Mary	
Packebush, Warren	
Patterson, Tyler	
Pierce, David	
Prazak, Steve	
Price, Julie	
Prince, Jeannette	

November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

Name	Signature Required
Somers, Robyn	
Somers, Travis	
Spencer, Peggy	
Stenkamp, Skip	
Struck, Chris	
Supnet, Robert	
Suhr, Jason	
Sweet, Connie	
Swiney, Clifford	
Taylor, Oakley	
Thomasson, Shanon	
Thompson, Scott	
Towell, Chad	
Vaughan, Kenneth	
Vencill, Gary	
Vieira, Steven	
Volkman, Richard	
Waldrop, Will	
Walsworth, Justin	
Wellner, Julia	
Whitsett, Denny	

November 28, 2012

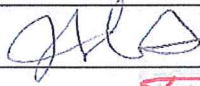
Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

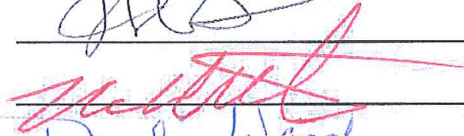
Name

Signature Required

Wodrich, Jim



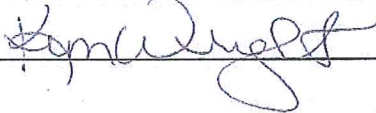
Wolter, Mark



Woods, Rawlin

Rawlin Woods

Wright, Kim



November 28, 2012

Hazardous Waste Management Awareness
Kurt Boudette and Steve Prazak

Public Works Department Staff Meeting

Name

Signature Required

Dennis Bush

[Signature]

Hanna D'Arcy

Hanna D'Arcy

Dustin Mitchell

[Signature]



Bend Airport Storm Water

Gary Judd to:
Bcc: David Buchanan

10/31/2012 09:34 AM

Greetings Everyone,

With fall coming along everyone is getting ready for winter and with that comes some house cleaning. Our folks in Public Works that deal with Stormwater have asked that we consider the following as we go about getting rid of all that stuff and to be extra careful that everything is properly disposed of.

A flyer is also attached.

Thank you!

Gary Judd
Airport Manager

Stormwater Pollutants

Did you know that anything that is dumped or spilled onto outside surfaces, or is hosed into the gutter eventually gets washed by rainwater into storm drains? Storm drains at the Bend Municipal Airport flow directly into the ground towards our drinking water. There are several wells in close proximity to the airport that could be impacted by this type of activity. In an effort to protect these wells the City asks for your cooperation.

Substance(s) dumped or spilled into a catch basin could impact stormwater quality.

What Can You Do?

- **If you see someone in the act of dumping, please immediately call Airport Management at 541-389-0258. If it appears hazardous, call 911.**
- **Please do not dump or spill anything down the storm drains. Take the time to dispose of your waste in a legal, acceptable manner. If you are not sure how to properly dispose of something, give us in the Stormwater Division a call and we will help you figure it out (541-317-3000).**
- **Please remember: "Only rain in the storm drain."**

Do the right thing because it's all connected!

County Regulations

13.36.010. Creation of Nuisance.

Except as otherwise authorized under DCC 13.36, no person shall create or maintain a nuisance on private property. Such nuisances are declared to be public nuisances which may be abated as provided under DCC 15.04.070 or by instituting court proceedings.

13.36.012. Definition-Nuisance.

A. "Nuisance" includes:

1. All open holes, wells, cisterns, cesspools, or unsanitary septic tanks, foundations or nonoperating refrigerators, freezers, or iceboxes with attached doors;
2. Solid waste; as defined under DCC 13.12.205;
3. Those definitions of nuisance pursuant to DCC 12.35.100, 15.04.170, and 18.144.040; or
4. Land that as a result of grading operations, excavation or fill causes erosion, subsidence or surface water drainage problems of such magnitude as to be injurious or potentially injurious to adjacent properties or to the public health, safety and welfare.

B. Generally accepted, reasonable and prudent farming and forest practices as described in ORS 30.930 to 30.937 and DCC 9.12 do not constitute nuisances under DCC 13.36.012.

13.36.030. Unauthorized Disposal Prohibited.

No person shall dispose of solid waste on or in any property or premises subject to DCC 13 of which such person is not the owner, occupant or person entitled to possession, or which is not a disposal site approved by the Board.

1.16.010. Violations Deemed Class A or B Classification-Penalties.

A. Violation of a county ordinance shall be punishable, upon conviction, by fine or by the specific remedies specified within the County Code.

B. Each county ordinance specifying a county offense shall classify the ordinance violation as a Class A or Class B violation.

C. A sentence to pay a fine for a violation of a county ordinance shall be a sentence to pay an amount not exceeding:

1. Seven hundred and twenty dollars for a Class A violation; or
2. Three hundred dollars for a Class B violation.

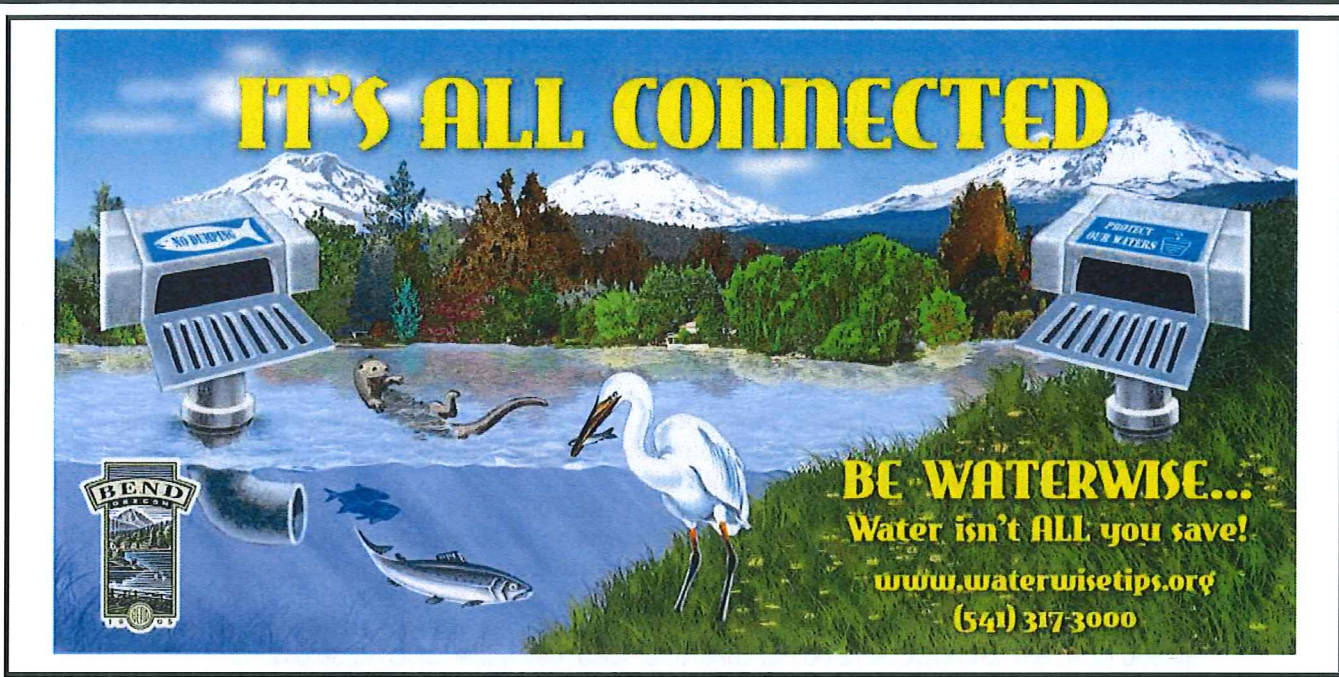
Additional Notes:

- To safely dispose of your motor oil, pesticides, fertilizers and other household hazardous wastes, please call the Household Hazardous Waste Disposal Facility located at Knott Landfill at: 541-317-3163.



Stormwater Flyer.pdf

Gary Judd
Airport Manager
Bend Municipal Airport
Bend, OR 97701



Stormwater Pollutants

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Do the right thing because it's all connected!

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A Stormwater Pollutant Has Been Found In Your Neighborhood

Did you know that anything that is dumped or spilled onto outside surfaces, or is hosed into the gutter eventually gets washed by rainwater into storm drains? Our storm drains in Bend flow directly to the Deschutes River or into the ground towards our drinking water supplies often *without* treatment. In addition, debris can clog our drainage facilities, contributing to localized flooding.

The following substance(s) appear(s) to have been dumped or spilled in your neighborhood in a manner that could impact stormwater quality.

- Illicit Discharge:**
- Oil/Grease
 - Vegetation (Grass/Leaves/Clippings)
 - Landscape Products (Top Soil/Bark/Gravel)
 - Trash/Large Debris
 - Pesticides/Fertilizers
 - Concrete Washout/Construction Debris
 - Paint
 - Other: Blowing yard debris into the street
- Can You Do?**

- *If you see someone in the act of dumping, please immediately call the City's Stormwater Division at 317-3000. If it appears hazardous, call 911.*
- *Please do not dump or spill anything down the storm drains. Take the time to dispose of your waste in a legal, acceptable manner. If you are not sure how to properly dispose of something, give us in the Stormwater Division a call and we will help you figure it out (317-3000).*
 - *Please remember: "Only rain in the storm drain."
Do the right thing because it's all connected!*

Remember the City of Bend's Regulations

Title 16 - 16.20.010 General Requirements and Prohibitions

A. An illicit discharge is anything not entirely composed of stormwater that is allowed to enter a storm drainage system that discharges to surface water or groundwater. Dumping materials into or that may reach a storm drain facility, including but not limited to a storm drain inlet, a dry well or drill hole, or connecting a wastewater pipe into the storm drainage system, are prohibited under various state and local laws and result in illicit discharge (see City of Bend Illicit Discharge Minimization Best Management Practices Manual (Illicit Discharge Manual)). Any illicit discharge to any storm drain, dry well or drill hole, including the Municipal Separate Storm Sewer System (MS4), Underground Injection Controls and private storm drainage systems, is a violation of this Title unless exempted by Section 16.20.030.

B. Any person engaged in activities that will or may result in pollutants entering a storm drain, dry well or drill hole shall undertake reasonable measures to reduce such pollutants

C. No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, placed, left or maintained, any refuse, rubbish, garbage, debris, sediment, or other discarded or abandoned objects, articles, and accumulations, in or upon any street, alley, sidewalk, storm drain, dry well or drill hole inlet, catch basin, conduit or other drainage structures, parking area, or upon any public or private plot of land so that the same might be or become a pollutant, except where such pollutant is being temporarily stored in properly contained waste receptacles or is part of a well-defined compost system.

D. No person shall cause or permit any dumpster, solid waste bin, or similar container to leak such that any pollutant is discharged into any street, alley, sidewalk, parking lot, storm drain, dry well or drill hole inlet, catch basin, conduit or other drainage structures, business place, or upon any public or private plot of land within Bend's jurisdictional boundaries.

G. It is prohibited to establish, use, maintain, commence or continue illicit drainage connections or discharges to the MS4 or any public or private storm drains, dry wells and drill holes.

16.05.050 Enforcement

Violation of any provision of this Title or of any permits or order Issued under this Title is a **Class A Civil** Infraction. Each day that a violation remains uncured in effect is a separate violation.

1.40.080 Schedule of Penalties.

A. Infractions for violations of the Bend Code are classified as follows:

1. **Class A civil infractions with a maximum civil penalty of \$750.00.**
2. Class B civil infractions with a maximum civil penalty of \$400.00.
3. Class C civil infractions with a maximum civil penalty of \$200.00. [Ord. NS-2159, 2011]

Additional Notes:

City of Bend

12/13 Illicit Discharge Follow-up Database

Date Reported	Reported By	Type	Description	Date/Time Noticed	Reported To.	Followed up By	Date followed up		Actions Taken	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
7/6/2012	DEQ	Residential (Private)	Dumping of construction waste into catch basin, Looked like drywall mud being rinsed into catch basin.	7/6/12 2:46 PM	Buchanan	Buchanan	7/6/2012	Follow-up Completed	This is a private catch basin located in the alley adjacent to Mt Rainer Drive. City Staff provided an illicit discharge flyer to the homeowners in the area. City staff forwarded the complaint to ODEQ for additional follow-up/enforcement.	WPCF	Y	N	7/9/2012
8/23/2012	City of Bend	Commercial	Ongoing problem with wood chip piles spilling over containment wall onto city roads and into city catch basins.	8/22/12 2:00 PM	Buchanan	Buchanan	9/4/2012	Follow-up Completed	City staff called and talked to the property owner on 9/4/2012 regarding wood chips spilling into the roadway. Property Owner agreed to clean up the chips but expressed concern about stormwater coming off second street and onto his property. The property owner would like to use this water and install a tank for watering his wood chips. The street/storm water department manager will follow-up with flooding concerns and City Engineering Staff will follow-up with use of storm water from the third street project.	WPCF	Y	N	9/5/2012
9/5/2012	City of Bend	Commercial	Ongoing problem with wood chip piles spilling over containment wall onto city roads and into city catch basins.	Ongoing	Edde	Edde	9/5/2012	Follow-up Completed	Clean up was complete by owner.	WPCF	NA	NA	9/5/2012
10/16/2012	City of Bend	Commercial (Private)	Parked semi truck in loading dock was struck by another vehicle which resulted in a ruptured fuel tank. Fuel leaked into onsite private drill hole.	10/15/12 8:00 AM	Hardy	Bend Fire / Hazmat	9/15/2012	Follow-up Completed	This spill took place adjacent to a private catch basin located in a loading dock. City staff assisted with spill containment and contacted ODEQ for additional follow-up and onsite clean-up.	-	NA	NA	NA
11/5/2012	City of Bend	Residential	Someone is running their garden hose from the backyard into the storm drain catch basin	11/5/12 8:00 AM	Edde	Buchanan	11/5/2012	Follow-up Completed	City staff spoke with the property owner. The garden hose was being used to drain a hot tub located in the back yard to a City catch basin. A ODEQ fact sheet on proper disposal of swimming pool water was provided to the owner.	WPCF	Yes	No	11/5/2012
11/5/2012	City of Bend	Residential	Old Subaru that is leaking oil and has been for awhile	11/5/12 8:00 AM	Edde	Buchanan	11/5/2012	Follow-up Completed	During the initial inspection City staff could not locate the vehicle. For additional information on this ID see notes below dated 1/30/2013.	WPCF	No	No	11/5/2012

City of Bend

12/13 Illicit Discharge Follow-up Database

Date Reported	Reported By	Type	Description	Date/Time Noticed	Reported To.	Followed up By	Date followed up		Actions Taken	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
12/10/2012	City of Bend	Commercial	Street vendor truck at SE 3rd and SE Cleveland has an external grey water tank that when full discharges to the storm drain.	12/10/2102 1:00PM	Edde	Buchanan /Taylor	13/10/2012	Follow-up Completed	Mobile Food Unit owner removed berm from parking lot to allow access for grey water drain. The removal of the berm allowed the parking lot runoff to carry sediment onto Cleveland street. During a site inspection with City Stormwater and IPP staff the mobile food cart owner agreed to clean up the sediment on sidewalk and repair berm.	WPCF	Yes	No	12/10/2012
1/30/2013	City of Bend	Residential	Old Subaru is leaking oil onto street.	Originally 11/5/2012 8:00:00 AM	Buchanan	Buchanan	1/31/2013	Follow-up Completed	Second inspection attempt by City crews was performed. A car matching the description was found parked in the roadway with signs of staining under the vehicle. An illicit discharge flyer was placed on the windshield, several days later the Cars owner contacted the City and agreed to place drip pan under car while parked in the street. The owner also agreed to remove the drip pan when the vehicle is in use. The owner indicated that she is working on getting the parts needed to repair the car.	WPCF	Yes	No	1/31/2013
2/19/2013	City of Bend	Spill / Leak	leaking septic tank pumper truck was dripping effluent into City catch basin. City crews estimated the spill/ leak at 5 gallons.	2/19/13 12:00 AM	Buchanan	Buchanan	2/19/2013	Follow-up Completed	City staff spoke with Cascade Septic about a leaking truck parked on Hayes Ave. The Owner said the rear seal on his septic tank pumper truck may have froze causing the leak. The was going to inspect and if needed replace the seal. City crews cleaned and sanitize the basin.	WPCF	N	N	2/19/2013
2/27/2013	Citizen	Residential	A concerned citizen noticed his neighbors car parked in the road is leaking oil into a city catch basin.	2/27/13 3:00 PM	Edde	Buchanan	2/28/2013	Initial site visit within 24 hours. Photos taken. Some minor discharge noted.	Placed an Illicit Discharge Flyer on the windshield and marked catch basins with do not dump logo.	WPCF	Y	N	2/28/2013
3/13/2013	Private Contractor	MFR	When cleaning storm drain facilities at apartment building parking lots, contractor notices a lot of cigarette butts.	ongoing	Edde	Edde		City newsletter article on the importance of cleaning up cigarette butts.		WPCF			

City of Bend

12/13 Illicit Discharge Follow-up Database

Date Reported	Reported By	Type	Description	Date/Time Noticed	Reported To.	Followed up By	Date followed up		Actions Taken	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
3/26/2013	Bend Fire	Residential	The Caller saw someone pouring what looked to be motor oil into a catch Basin at Colorado and Chamberlain. Answering Service didn't understand the issue.	3/25/2013 Evening	Buchanan	Buchanan	3/26/2013	Follow-up Completed	During the site inspection no motor oil was found on the catch basin grate. The area had a slight solvent odor, City staff could not tell if it was coming from the catch basin. Illicit discharge flyers were handed out to the neighboring property owners. Stormwater crew cleaned the basin and will continue to monitor the area for evidence of additional illicit dumping.	WPCF	Y	N	3/26/2013
4/18/2013	DEQ	Commercial	Cascade Painting is cleaning up their painting supplies/dumping paint and lacquer onto the parking lot and into the storm drains. You can see trails of paint in the gravel. When they spray, a huge plume develops, floating thru the other businesses. Usually occurs on weekends.	ongoing	Buchanan	Buchanan	4/18/2013	Follow-up Completed	Inspected the site and found staining on the ground and on a private catch basin/ drywell grate. City staff left an illicit discharge flyer on the business door and truck. The complaint was forwarded to the local ODEQ representative along with photos for additional enforcement.	WPCF	Y	N	4/18/2013
4/19/2013	COB	Commercial	City Staff noticed staining at the end of Railroad Ln. from concrete washout. Some sand and small Styrofoam beads found in catch basin.	4/19/13 2:00 PM	Buchanan	Buchanan	4/19/2013	Follow-up Completed	City staff spoke with Cement Elegance about the concrete washout issue; Cement Elegance said that they would work with their staff to resolve the issue and clean up the area. The storm drain was marked with a do not dump marker. City crews will follow up by cleaning out the catch basin and drywell.	WPCF	Y	N	4/19/2013
5/9/2013	COB	Landscape Maintenance.	Millsite Landscaping crews were blowing grass clippings into the roadway.	5/9/13 10:00 AM	Edde	Buchanan	5/9/2013	Follow-up Completed	Inspected the site and found grass clipping in the roadway along bond street. Millpoint Landscaping was working in this area. I spoke with Millsite Landscaping (Onsite Supervisor), about blowing grass clippings back into the lawn area or into piles and then pickup.	WPCF	Y	N	5/9/2013
5/15/2013	Public	Landscape Maintenance.	Homeowner blowing grass clippings into the bike lane and roadway.	5/14/13 12:00 AM	Lewis	Buchanan	5/15/2013	Follow-up Completed	City staff provided Illicit discharge flyer on neighboring properties.	WPCF	Y	N	5/17/2013

City of Bend

12/13 Illicit Discharge Follow-up Database

Date Reported	Reported By	Type	Description	Date/Time Noticed	Reported To.	Followed up By	Date followed up		Actions Taken	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
5/16/2013	Public	Residential	Gravel construction entrance spilling out into the roadway.	5/15/13 12:00 AM	Edde	Buchanan	5/16/2013	Follow-up Completed	Active building permit (BP12-3914). City building inspection staff will work with builder and provide educational material through the building department.	WPCF	Y	N	5/17/2013
5/28/2013	City of Bend	Corporation Yard	A contractor working on the remodel at the City of Bend Boyd Acres Complex was washing cement grout into catch basin (DCB010412).	5/28/13 2:00 PM	Edde	Edde/Buchanan	5/28/2013	Follow-up Completed	Spoke with the contractors representative on site about the importance of not dumping gout into the storm drain. Staff recommended that the contractor should clean up buckets and tool using a mop sink or other drain connected to the sanitary sewer.	WPCF	Y	N	5/28/2013
5/31/2013	City of Bend	Commercial	City of Bend IPP department found a coffee stand with a possible Illicit connection to an onsite private drywell. No city sewer in the area, the manhole was full of a foaming greasy water.	5/31/13 11:00 AM	Buchanan	Oakley	6/3/2013	Follow-up Completed	The City coordinated with the local DEQ office and the Deschutes County Sanitarian. The County Sanitarian took the lead on enforcement giving the business two weeks to remove the illicit connection to the private UIC.	WPCF	Y	Y/ Deschutes County Health Department	5/31/2013