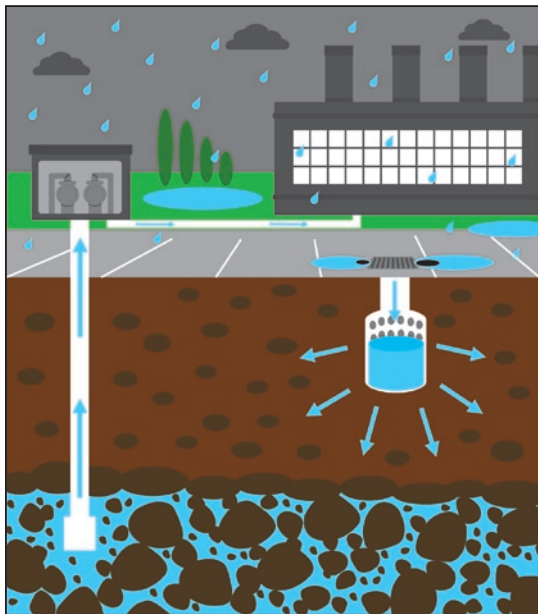


Appendix D

Illicit Discharge Controls

Stormwater runoff can pollute groundwater

As stormwater runs over hard surfaces, it picks up oil, chemicals, bacteria and other pollutants. Stormwater flows into swales, local streams, or into an Underground Injection Control (UIC) system such as a drywell or drill hole. In a drywell, a large "empty" well, water soaks into the soil and some pollutants are filtered out before it enters groundwater (see figure, below).



A UIC releases stormwater underground; water wells pull groundwater for drinking and other uses.

Regulatory Information

Underground Injection Control (UIC) systems are regulated by Oregon Department of Environmental Quality (DEQ) and U.S. Environmental Protection Agency. Find information on DEQ's UIC program at: <http://www.deq.state.or.us/wq/uic/uic.htm>

Find out if your business is located in a drinking water protection area by checking: <http://www.deq.state.or.us/WQ/dwp/results.htm>

Consult with your local municipality and the DEQ for guidance on discharging non-polluted roof drainage to a drywell without pretreatment.

All commercial and industrial drywell owners must register with DEQ. For information contact:

➔ **Oregon DEQ: 503/229-5630**

Statewide Toll-Free: 1/800-452-4011

For questions, or to report illicit dumping, please contact:

Clean Water Tips for BUSINESS and INDUSTRY



ACWA gratefully acknowledges the DEQ for several concepts and best practices noted herein.

*The water you protect
may be your own!*

Outside Activities

- Never dump anything into gutters, storm drains or onto the street.
- Prevent spills and report illicit dumping immediately (see back).
- Properly maintain stormwater facilities on your property for effective treatment.
- Use landscaping pesticides and fertilizers sparingly; do not apply before rain or during high winds; sweep up excess.
- Sweep up and collect dirt and debris rather than hose or blow it off to the street/storm drain.
- Landscape bare soil to prevent erosion.
- Clean vehicles at a commercial car wash or use a covered wash rack that drains to an approved sanitary sewer or a holding tank. Holding tanks must be routinely emptied and the wastewater properly disposed of.

Floors and Plumbing

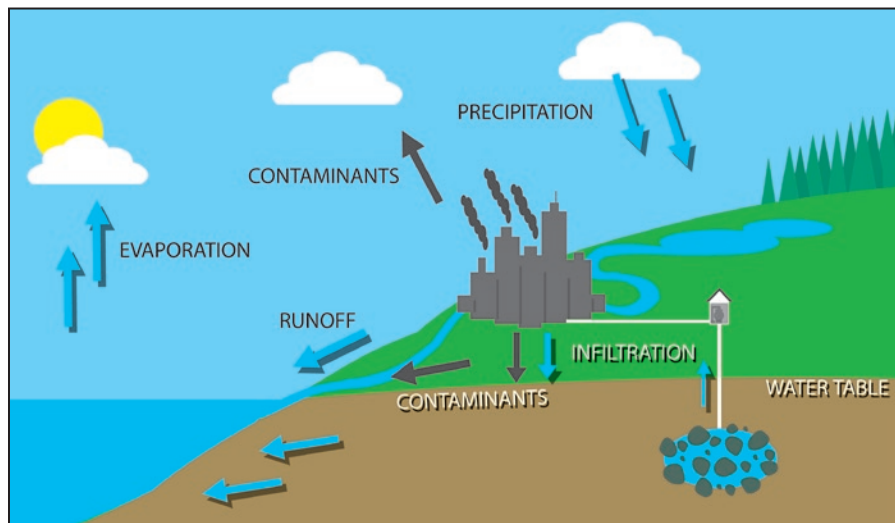
- All floor drains must discharge to the sanitary sewer system or a holding tank as approved by your local municipality.
- In chemical storage and work areas, seal floors with impermeable materials resistant to any acids, caustics, solvents, oils or other pollutants that may be at the facility.
- Identify and eliminate any illegal cross connections between the storm drain and the sewer lines.

Storage Areas

- Properly label containers and keep closed when not in use.
- Cover storage areas; allow access only to authorized, properly trained personnel.
- Use secondary containment to reduce spill potential from areas where chemicals are stored, loaded or unloaded.

Work Areas

- Keep spill response kits easily available.
- Clearly post emergency contact numbers in storage, loading/unloading, dispensing and work areas.
- Make Safety Data Sheets (also known as MSDSs) readily available, and train workers.
- Maintain equipment properly to reduce leaks and breakdowns: regularly inspect equipment, test tanks, replace worn parts, seals and gaskets.
- Repair leaks and clean spills properly and promptly.
- Use non-hazardous materials when possible.
- Properly dispose of hazardous wastes.
- Separate waste-generating operations from other activities, within a confined area with sealed floors and no direct outside access, if possible.
- Provide proper storage areas for spent chemicals, soiled rags, and other wastes.



You can prevent pollutants from entering the water cycle!

Did you know that approximately 70% of Oregon's residents rely at least partly on drinking water that is pumped from groundwater? Polluted groundwater is very expensive or impossible to clean up.

Your healthy business practices help protect Oregon's drinking water and your family from harmful pollutants. Good stormwater and spill control practices not only protect precious water resources, but also avoid violations that could result in fines, imprisonment and other legal action.

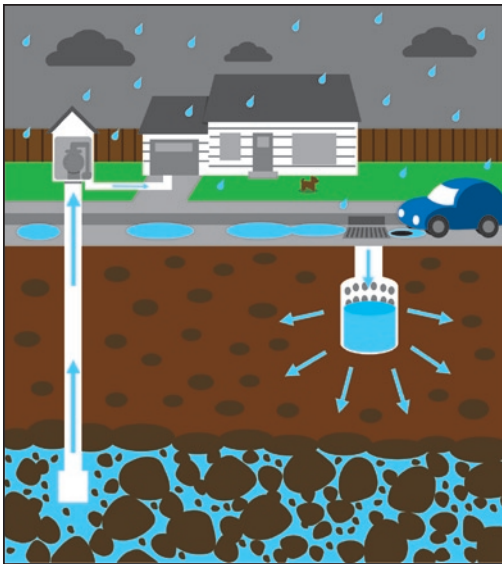


What Goes on the Ground

Goes in the Water

As stormwater runs over hard surfaces, it picks up oil, chemicals, bacteria and other pollutants. If runoff soaks into the ground, some pollutants are filtered out in the soil but it may not be enough to ensure clean groundwater and safe drinking water. Polluted groundwater is very expensive or impossible to clean.

Stormwater runoff flows to a local stream, swale, or into an Underground Injection Control (UIC) system such as a drywell or drill hole. In a drywell, a large "empty" well, water soaks into the soil and some pollutants are filtered out before it enters the groundwater.



A UIC releases stormwater underground; water wells pull groundwater for drinking and other uses.

Regulatory Information

UIC systems are regulated by Oregon Department of Environmental Quality (DEQ) and Environmental Protection Agency. For more information, contact:

➔ **Oregon DEQ: 503/229-5630**

Statewide Toll-Free: 1/800-452-4011

<http://www.deq.state.or.us/wq/uic/uic.htm>

For questions, or to report illicit dumping, please contact:

Clean Water Tips at HOME

Did you know

that approximately 70% of Oregon's residents rely at least partly on drinking water that is pumped from groundwater?



Here's what you can do at home to protect groundwater from pollution.



You can prevent pollutants from entering the water cycle!

The water you protect may be your own!

Auto Care

Vehicles are a primary source of petrochemicals, metals, and other persistent pollutants.

- Prevent oil and fluid leaks with proper maintenance.
- Use a commercial car wash or wash your vehicle on a lawn or other unpaved surface.
- Keep oil, gas, soap suds and other pollutants away from storm drains.
- When leaks are noticed, use drip pans and absorbents to contain and clean up the fluids.
- Pick up pet waste and put it in the trash.



Simple activities or lack of maintenance can lead to water pollution.

Yard and Home Care

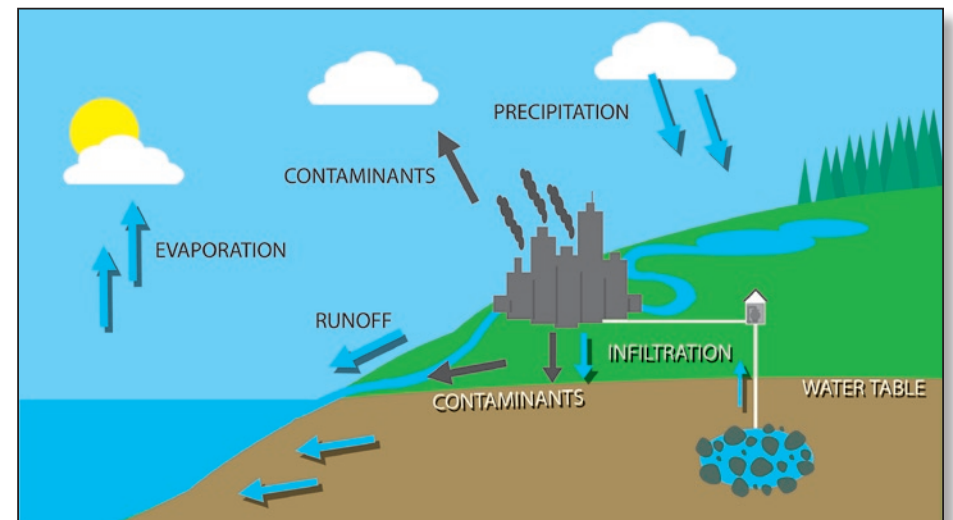
- Use pesticides and fertilizers sparingly; use natural alternatives.
- Properly clean up spills and overspray.
- Sweep up and collect dirt and debris rather than hose or blow it off to the street/storm drain.
- Water wisely to prevent runoff.
- Cover bare soil with grass, plants, or rock to prevent erosion.
- Garden naturally with native plants and compost or mulch to improve soil and plant health.
- Help keep your neighborhood free of debris and litter.
- Direct downspouts away from paved surfaces to areas where runoff can soak into the soil.
- Use porous surfaces for driveways, patios, and sidewalks.

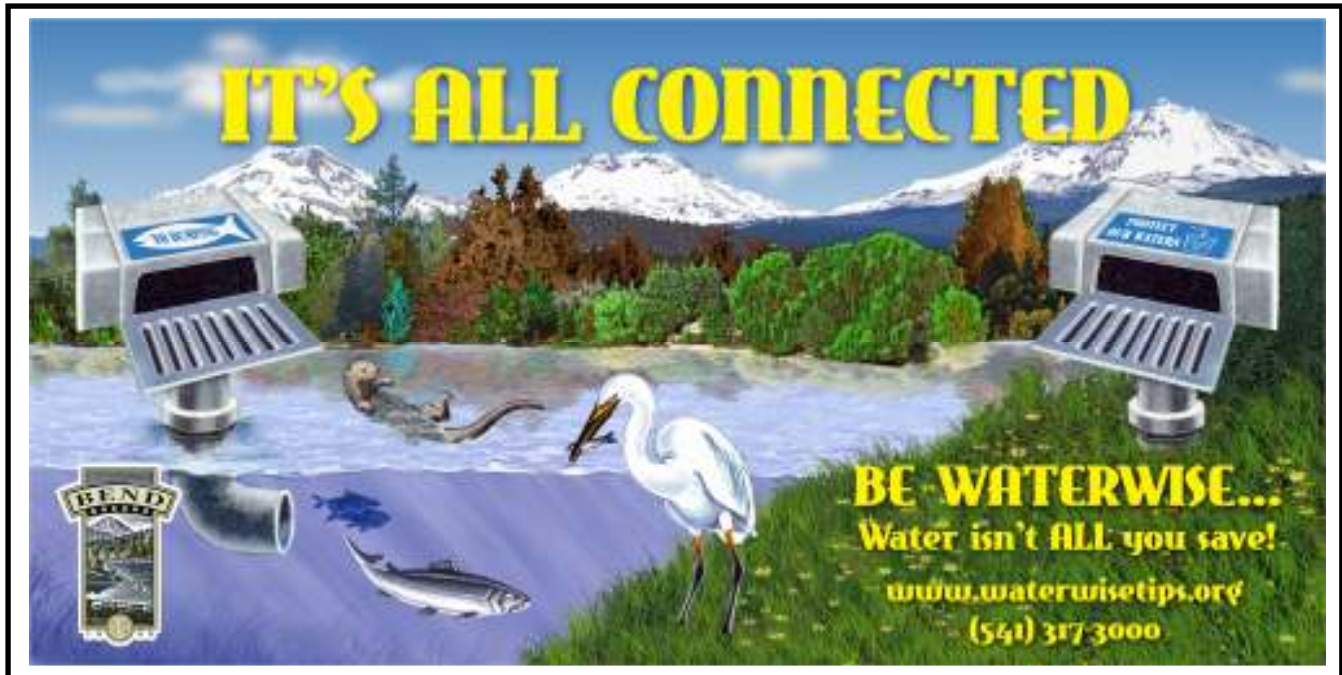


Managing Waste

- Only rain belongs in storm drains. Never dump anything down gutters, catch basins, or onto the street.
- Report illicit dumping immediately to your local municipality.
- Properly dispose of household hazardous waste, including used motor oil, antifreeze, brake fluid, paint and paint thinner, pesticides, and cleaners.
- Pick up pet waste and put it in the trash.

Your healthy household habits help protect Oregon's drinking water and your family from harmful pollutants.





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/Fertilizer
 - Concrete Washout/Construction Debris
 - Paint
 - Other:

What 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]

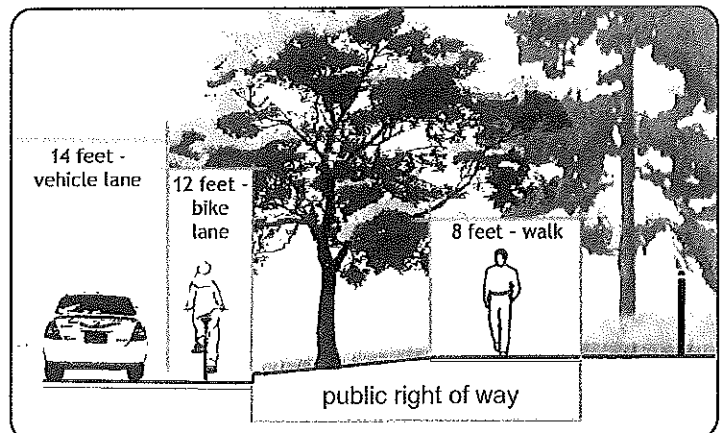
Additional Notes:

Did you know?

That dumping your yard debris or rubbish into the public right of way is actually a crime of offensive littering, which is a Class C misdemeanor.

As a resident in the City of Bend it is your responsibility to:

- Maintain adjacent sidewalks to your property in good repair
- Maintain your driveway approach in good repair
- Keep all adjacent sidewalks to your property clear of vegetation that may cause an obstruction (i.e. low hanging tree branches, overgrown shrubs etc.)
- Keep all adjacent sidewalks to your property clear of obstructions, including but not limited to, snow and ice
- Remove, cut, and/or trim all flammable vegetation adjacent to your property in the public right of way
- Remove all invasive noxious weeds in adjacent public right of way
- Obtain permission / permit from the City prior to planting or removing a tree in the public right of way
- Maintain a clear vision area for intersections adjacent to your property



Note: Please be aware if your yard is adjacent to a public right of way, this area extends from your property line to the adjacent street.



PUBLIC
WORKS

Dear [REDACTED]

The City of Bend received a complaint on 4/16/2014 that your wood chip pile was spilling onto City right-of-way along [REDACTED] partially blocking the bike lane and plugging the catch basin /drill hole as well as impacting neighboring properties. City staff inspected the site on 4/22/2014 and observed that wood chips are continuing to spill into the right-of-way. (See attached photos). The City has received complaints and noted problems regarding your wood chips moving offsite multiple times; the last complaint was in September of 2012. The wood chips in the catch basin/drill hole constitute an illicit discharge to the stormwater system.

62975 BOYD ACRES RD.
PO BOX 431
BEND, OR 97701
[541] 317-3000 TEL
[541] 389-2245 FAX
BENDOREGON.GOV

City of Bend Code 16.20.010 prohibits illicit discharges:

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, is prohibited under various State and local laws and results in illicit discharge.

JIM CLINTON
Mayor

JODIE BARRAM
Mayor Pro Tem

VICTOR CHUDOWSKY
City Councillor

DOUG KNIGHT
City Councillor

SALLY RUSSELL
City Councillor

MARK CAPELL
City Councillor

SCOTT RAMSAY
City Councillor

ERIC KING
City Manager

PAUL RHEAULT
Public Works Director

I have included two educational booklets that you may find helpful.

- *City of Bend Illicit Discharge Minimization Manual*
Pages (4) & (5) address the cleanup of spills and locating business activities away from storm drain inlets.
- *ACWA Construction Site Stormwater Guide*
Page (18) has some good information on stock pile management.

Please take the appropriate actions needed to prevent wood chips from leaving your site. Failure to comply by May 30, 2014 could result in a Class A Civil Infraction. Each day that a violation remains uncured in effect is a separate violation; the maximum penalty for a Class A Infraction is a \$750.00 fine.

If you have any questions or require additional information please contact me at 541-693-2176. The City of Bend would like to thank you in advance for your assistance in this matter.

Sincerely,

David Buchanan
City of Bend
Stormwater Program Analyst

CC: James Goff, Cindy Hartman, Gary Firestone
Att: Photographs, City of Bend Illicit Discharge Manual, Construction Site Stormwater Guide

City of Bend

Illicit Discharge Follow-up Database

Date Reported	Type	Description	Date/Time Noticed	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
7/2/2013	Construction	A private utility contractor installing a new gas lines accidentally broke a City water main. The water line break allowed sediment laden water to be washed into several City catch basins.	6/2/12 1:00 PM	7/7/2013	Follow-up Completed	Provided educational material to the on site foreman, Contractor agreed to cleanup the sediment in the roadway. Stormwater crew will clean catch basins and pipe system.	WPCF/ UIC	Y	N	7/3/2013
7/12/2013	RV Waste	Received a report that someone had dumped an RV waste tank into a catch basin near Ne Vail Ln and 6th St.	7/12/13 7:00 AM	7/12/2013	Follow-up Completed	Stormwater crews cleaned all catch basins in the subdivision and labeled them with a do not dump markers.	WPCF	N	N	7/12/2013
7/24/2013	Mobile Food Unit	Received a report that a mobile food cart is dumping tea and cleaning out barrels onto the pavement and sidewalk. Some grey water was rinsed into a City catch basin.	7/23/14 11:15 AM	7/24/2013	Follow-up Completed	City IPP staff spoke with the owner about proper disposal of waste. This company is in the process of moving into a permanent facility with a sewer connection and grease trap.	UIC	Y	N	7/29/2013
7/26/2013	Mobile Food Unit	A mobile food carts greywater drain was leaking onto the ground and into the gravel parking area.	7/26/13 11:30 AM	7/26/2013	Follow-up Completed	City IPP staff spoke with the owner about proper disposal of waste. This complaint was also sent to Deschutes County for additional follow up by Health Department.	MS4	Y	N	7/26/2013
8/7/2013	Residential	Received call that a construction worker poured a 5 gallon bucket of an unknown substance in the Union Street Triangle. Description sounded like the sight may be near or in storm drain inlet.	8/7/13 12:40 PM	8/7/13 1:00-1:30 PM	Follow-up Completed	Checked all storm drains in area and they looked dry. Rechecked with member of public reporting the incident and was directed to exact location. Appears to be water (no discoloration) poured onto a tree near the catch basin. Contractor was no longer in the area, no chemical analysis done or education provided. Will recheck tree and if premature stress appears suggesting more than just water, will follow-up with education. Thanked the reporter and asked him to continue to keep an eye out for suspected discharges.	MS4	N	N	8/7/2013
8/7/2013	CIP	Riverside Bike/Pedestrian Improvement Project. Driving by, noticed downstream inlet on east side of Riverside appeared to not be protected from construction-related pollutants.	8/7/13 1:40 PM	8/7/2013 1:40:00 to 1:45 PM	Follow-up Completed	Verbally informed worker of need to protect inlet. Pulled over and spoke with the contractor. Confirmed they have both witches hoods and gravel bags and the gravel bags must have gotten moved so they were working to replace them immediately. Informed City PM.	MS4		Verbal	8/7/2013
8/15/2013	Surface Cleaning	Surface cleaning of car lot over curb into City catch basin, with lots of debris.	8/15/13 12:00 AM	8/15/2013 4:50-5:05 PM	Follow-up Completed	Noticed wet pavement and debris near catch basin and workers moving cars on the lot. Contacted the auto sales business and provided copies of the illicit discharge guide, and pressure washing guide (2 copies), and explained the problem, providing verbal warning. They expressed understanding and came out and immediately started shoveling up the excess debris. After visit on 5/16, Edde called in work order to clean catch basin to front desk. * Feature is not currently shown in City's database (perhaps assumed to be ODOT?) Needs follow-up.	*	Y	Verbal	8/16/2013
8/26/2013	Concrete Waste/Saw cutting	City ADA crews dumping concrete waste in gutter line.	Over the weekend. Photos taken on 8/26/2013	8/26/2013 and 8/27/2014	Follow-up Completed	Edde shared the photos and spoke with Street Supervisor Hardy Hanson. Hanson used the photos at the Streets/Storm standing meeting on 8/27/2013 and provided training about proper disposal. Edde confirmed that crews have the inlet protection hoods available for use as well.	WPCF	No	Verbal	8/28/2013

City of Bend

Illicit Discharge Follow-up Database

Date Reported	Type	Description	Date/Time Noticed	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
8/29/2013	Dry Weather Flow	Irrigation during early morning hours (~4-5AM) at the County Court House is flowing down Bond Street. At times the water will cross Wall Street, sounded like an ongoing problem.	8/2/13 4:00 AM	8/29/2013 7:30 AM	Follow-up Completed	Contacted Deschutes County Building at 541-388-6590 and explained the problem. Not sure if broken head or timer on establishment setting, etc. Deschutes County said they would send a crew out to take care of it. In process of being investigated/corrected by County building crews.	WPCF	No	Verbal	8/29/2013
8/26/2013	Landscape Stock Piles	City staff noticed a large amount of sod along with other landscaping material where being stockpiled in the roadway.	8/26/13 7:00 AM	8/27/2013	Follow-up Completed	City staff spoke with the homeowner about the material in the roadway. The home owner agreed to clean-up the material. City staff re-inspected the next day and found that the material had been removed from the roadway.	WPCF	Y	N	8/27/2013
8/29/2013	Dry Weather Flow	Dry weather flow from irrigation system on SW Corner of 3rd and Wilson (coffee shop)	8/29/13, but ongoing	8/29/2013	Follow-up Completed	Attempted to call the location and there was no answer. Completed a form online informing of the broken irrigation head and potential misaligned irrigation and the potential for dry weather flows to carry pollutants. Received automated return email and also received an email from Dutch Bros. Coffee Regional Manager. He was not aware of issue and will correct it right away.	WPCF	No/ Minimal	Written courtesy notice	8/29/2013
9/3/2013	Mobile Food Cart	The City received a complaint that a local mobile food cart owner was dumping grease onto a residential driveway, and that grease was running out into the street.	9/3/13 10:00 AM	9/3/2013	Follow-up Completed	Inspected the site and found some minor staining on the roadway and heavy staining on gravel driveway. Nearest catch basin is located one block east. The City's IPP department provided guidance to the owner on proper grease management.	MS4	Y	No	9/3/2013
9/11/2013	Construction	Stormwater Crews observed a concrete truck (Mikes Mobile Mix) cleaned waste concrete into a catch basin.	9/11/13 11:00 AM	9/11/2013	Follow-up Completed	City staff provided educational material to the on site foreman including an illicit discharge flyer and manual. City Inspector also contacted Bend Broadband (the project owner) and asked them to clean remove all concrete material from the basin.	WPCF	Y	N	9/11/2013
9/23/2013	Restaurant	Grease in catch basin	9/23/13 4:30 AM	9/23/2013	Follow-up Completed	Inspected the site and found some minor staining on the basin grates and heavy staining on asphalt. The City's IPP department provided guidance to the adjoining restaurants on proper grease management. Staff could not identify exactly what business were responsible for dumping the grease.	WPCF	Y	N	9/23/2013
10/22/2013	Construction	A contractor broke a pressure sewer main line in Shevlin Park Road. Sewer filled the trench and flowed thru an empty electrical conduit to a power vault near the intersection of Skyline Ranch Rd / Bordeaux Ln. The vault then overflowed into an adjacent city catch basin. City crews did not see any evidence of sewage in the adjoining drywell.	10/22/13 6:00 AM	10/22/2013	Follow-up Completed	The City's sewer collections group took the lead coordinating the clean-up. The surrounding catch basins and drywells were sanitized and cleaned. Pacific power mobilized a crew to clean the electrical vault and conduits.	WPCF	?	N	10/23/2013
10/24/2013	Erosion Control	Contractor was overwatering dirt stock pile and sediment laden water was running into the street.	10/23/13 8:00 AM	10/23/2013	Follow-up Completed	Provided educational material to the on site foreman, the Contractor agreed to cleanup the sediment in the roadway.	WPCF	Y	N	10/23/2013

City of Bend

Illicit Discharge Follow-up Database

Date Reported	Type	Description	Date/Time Noticed	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
10/26/2013	Commercial	Received report (forwarded form DEQ) that a homeowner is using a power washer to wash a semi-truck every weekend (with chemicals), right over a city storm drain. The caller also noticed a similar issue at the Bend School District Bus Maintenance Yard.	10/26/2013 Ongoing	10/30/2013	Follow-up Completed	Spoke with a resident on Craven Dr., regarding washing a semi-truck in the roadway. The resident indicated that her husband is a truck driver and on occasion will wash his truck in the street. Staff provided her with a copy of the Illicit Discharge Manual along with a Pressure Washing BMP brochure. City staff asked the resident to please not wash the truck in the roadway. Staff recommended using an offsite commercial car wash facility or washing the truck on their property, making sure to keep wash water runoff out of the roadway. Catch basins in the area where also marked with a pollution prevention message.	WPCF	Y	N	10/31/2013
11/14/2013	Residential	Stormwater maintenance crews found a large amount of household garbage (trash bags, plastic bottle's, chip bags) that had been placed inside a drywell. Crew indicated that the drywell lid would have had be removed to get this much material into the Drywell.	11/14/13 12:47 PM	11/15/2013	Follow-up Completed	Marked catch basin's in the area with a "Do Not Dump" pollution prevention marker. Illicit Discharger flyers were distributed to the houses in the area. Crew clean out trash and will continue to monitor to see if the issue persists.	WPCF	Y	N	11/15/2013
11/24/2013	SSO	The sanitary sewer overflowed into a City drill hole.	11/24/13 11:14 AM	11/24/2013	Follow-up Completed	Collections crew performed clean up.	WPCF	N	N	NA
11/27/2013	Commercial	During an IPP inspection City staff noticed allot of staining on the ground around the parking lot catch basin. It looked like waste from grease trap cleaning may have been dumped into a private drywell.	11/25/13 12:00 AM	12/2/2103	Follow-up Completed	Sent a letter to the business that included an Illicit discharge flyer and BMP manual.	NA	Y	N	11/27/2013
1/12/2014	Commercial	A City staff member noticed a garden hose coming from a restaurant, draining into a City catch basin.	1/12/2014	1/15/2014	Follow-up Completed	Stormwater program staff called and spoke with the contractor, they said that a coffee maker supply line had broke and flooded the restaurant. Caller admitted that their crews had pumped the flood waters into an adjacent City catch basin. The City sent a follow-up email along with links to Bend Code Title 16 and the Illicit Discharge Manual.	WPCF	Y	N	1/15/2014
1/22/2014	Residential	Resident is parking a leaky truck over the catch basin. Large amounts of oil visible on pavement.	1/22/14 10:26 AM	1/22/2106	Follow-up Completed	Stormwater program staff spoke with vehicle owner. The owner indicated that the truck has an transmission leak. The trucks owner agreed to use a drip pan under truck while parked in roadway. Stormwater field crews will clean basin and roadway.	WPCF	Y	N	1/22/2014
2/3/2013	Residential	Received a complaint that a neighboring property owner is letting their (4) dogs loose at night, dogs are rooming the neighborhood and making messes in other peoples yards.	1/30/2014 Ongoing issue	1/30/2014	Follow-up Completed	Stormwater program staff distributed Illicit Discharge flyers to houses in the area.	WPCF	Y	N	1/30/2014
2/24/2014	Commercial	pre-wash scrub station (including a 55-gall barrel and scrub brush) that is not contained for proper wastewater disposal. Cars pull up on a slanted, non-bermed section, and soap up their vehicles prior to entering into the car wash drain area. I observed a fair amount of suds leaving the site during today's intermittent rain.	2/19/2014	2/24/2014	Follow-up Completed	Sent a letter to the business that included an Illicit discharge BMP manual.	NPDES	Y	N	2/24/2014

City of Bend

Illicit Discharge Follow-up Database

Date Reported	Type	Description	Date/Time Noticed	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
3/7/2014	Erosion Control	Single family construction site's have stock piles of rock in the ROW and dirt tracking out into the road..	3/6/2014	3/7/2014	Follow-up Completed	City staff inspected the sites and asked contractors to clean up the materials in the roadway. If the material are not cleaned up a red tag will be issued on the project.	WPCF	Y	N	3/7/2014
3/7/2014	Erosion Control	Two single family construction site's have stock piles of rock in the ROW and dirt tracking out into the road..	3/6/2014	3/7/2014	Follow-up Completed	City inspected the sites and the asked contractors to clean up the materials in the roadway. It was later determined the material did not belong to the contractor so City stormwater removed the material from the ROW. Educational material was also provided to Shevlin Sand and Gravel (the company that delivered the material).	WPCF	Y	N	3/7/2014 Shevlin (3/16/2013)
3/28/2014	Residential	The neighbor cars are leaking an excessive amount of oil onto the street.	3/28/2013	3/31/2013	Follow-up Completed	Two vehicles were parked in the road way. The pavement was wet so City staff could not tell how much oil has leaked onto the roadway. City staff left an Illicit discharge flyer on the front door.	WPCF	Y	N	3/31/2014
3/28/2014	Residential	Neighbor was dumping a chemical (possibly pesticide) behind the house into a shared French Drain. Neighbor was concerned that neighbor may have been trying to hurt their pet. Complaint was forwarded to PD for follow-up	3/28/2013	3/31/2013	Follow-up Completed	Bend Police Department responded to this complaint.	WPCF	N	Y	3/31/2014
3/31/2014	Residential	Received a report That a hose was running from a garage to a City catch basin.	3/31/2014	3/31/2014	Follow-up Completed	City stormwater staff stopped by and talked with the residents on Ritz Pl. The resident was doing some gold mining in the garage and pumping the wash water into the catch basin. The resident removed the hose while City Staff was on site and said they will pump the water into the yard/ landscaping instead.	WPCF	Y	N	3/31/2013
4/4/2014	Corporation Yard	Received a report of vactor tuck washing rinse water was draining into a catch basin at the Boyd Acres Corporation yard.	4/4/2014	4/4/2014	Follow-up Completed	Mobile pressure washing company was washing City vactor trucks in the parking lot and rinse water was draining into a City drywell. The pressure washing activity was stopped and relocated to the wash bay area that is connected sanitary sewer. City staff drafted a SOP to help eliminate this issue in the future.	WPCF	Y	N	4/4/2014
4/16/2014	Commercial	Wood chip pile is spilling and blowing into the ROW.	4/16/2014 Ongoing Issue	4/28/2014	Follow-up Completed	Sent a certified letter to Business Owner, that included a City of Bend Illicit Discharge Manual and an ACWA Erosion Control Manual. I also spoke with the Owner on the phone about the issue. The Owner agreed to cleanup the wood chips by the end of the week.	WPCF	Yes	Written 30 Day notice	4/29/2014
5/2/2014	Carpet Cleaner	Carpet cleaner was dumping waste rinse water into private catch basin in the Safeway parking lot	5/2/14 12:00 AM	5/2/2014	Follow-up Completed	Bend PD trespassed the two individuals from the property and took water samples for DEQ lab analysis.	UIC	No	Yes	5/2/2014

City of Bend

Illicit Discharge Follow-up Database

Date Reported	Type	Description	Date/Time Noticed	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
5/16/2014	Residential	Stormwater field crews noticed a large amount of oil staining on pavement near 3041 Madison Ave.	5/16/14 1:38 PM	5/16/2014	Follow-up Completed	Left an Illicit Discharge Flyer on door. The property owner called back that afternoon and said he will move the car onto his property. The owner has tried to clean up the oil with kitty-litter but the pavement is still stained. City crews will assist with clean-up on Monday.	UIC	Yes	N	5/16/2014
5/16/2014	Construction	Dust Complaint from construction activity.	5/16/14 1:45 PM	5/16/2014	Follow-up Completed	City inspection staff spoke with the contractor about the dust complaint.	UIC	Y	N	5/16/2014
5/23/2014	FOG	The Day's-In hotel was dumping grease trap waste into the UIC in their parking lot..	5/23/14 12:00 AM	5/23/2014	Follow-up Completed	IPP provided guidance on proper grease management.	UIC	Y	N	5/23/2014
6/4/2014	Landscape Maintenance	Sweeper operator noticed allot of grass clipping in the gutter, along Bond St. in the Old Mill area.	6/3/14 2:00 PM	5/4/2014	Follow-up Completed	Drove by area and did not see any landscape crews working in the are, staff will continue to monitor.	UIC	Y	N	6/4/2014
6/4/2014	Commercial	A COB streets crew noticed an auto body shop that was sanding a car in the parking lot .	6/3/14 2:00 PM	5/4/2014	Follow-up Completed	Stormwater staff Inspected the site, no vehicles where being sanded at the time of inspection. Staff noticed some staining on the pavement near the shop bay door. This shop may be new to the area, staff sent out a letter and BMP manual to the owner.	UIC	Y	N	6/4/2014
6/26/2014	Landscape Maintenance	Received complaint that landscape maintenance where over spreading granular fertilizer onto the sidewalk and roadway.	6/25/14 10:07 AM	6/26/2014	Follow-up Completed	Called and talked to the Maintenance Operations Manager and emailed a copy of the Illicit discharge BMP manual to the Field Supervisor. Received a call back on 6/30/14 form the Field Supervisor, who committed to share the info with his staff.	UIC	Y	N	6/26/2014



Hazardous Materials to Hazardous Waste

What you need to know
to work safely
at the
City of Bend Public Works



Hazardous Materials to Hazardous Waste

- Introduction to COB's Hazardous Waste Program
- HazMat to HazWaste
- HazMat Identification
- The PICTURES
- Staff Responsibilities

There are 3 categories of Hazardous Waste Generators

- ✓ Large Quantity Generator (LQG)
- ✓ Small Quantity Generator (SQG)
- ✓ Conditionally Exempt Generator (CEG)

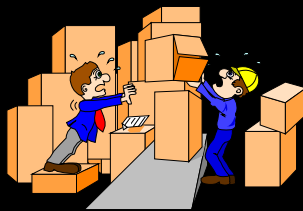
Large Quantity Generator (LQG)

- Generates more than 2,200 lbs. of waste in a month



Small Quantity Generator (SQG)

- Generates
- > more than 220 lbs. but
 - < less than 2,200 lbs. of waste per month



Conditionally Exempt Generator (CEG)

- ↓ Generates less than 220 lbs of waste per month



So, why is this important to you ?

What you know can . . .

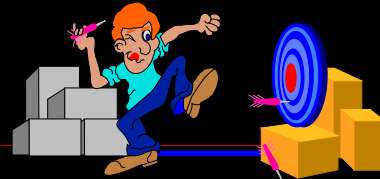
- Keep you from getting hurt and
- Keep you from hurting the environment.

Our Public Works Department . . .

is a

Conditionally Exempt Generator (CEG)

Due to our efforts to reduce, reuse, recycle, and use up hazardous material



Why should we pay attention?

- # 1. The materials used here are **Industrial strength** and come in **concentrated forms**.

Why should we pay attention?

- # 2. These chemicals can be more dangerous to you if not used properly.

Why should we pay attention?

- # 3. If disposed of incorrectly these chemicals can damage the environment.

What exactly is hazardous waste?

One Common Type:

Any product that has the words **Combustible** or **Flammable** on the Label and is thrown away before the contents are fully used

Hazardous Waste can be Paint

Either spray cans or buckets of paint



Additional Examples of Hazardous Waste



Hazardous Waste can be cleaning chemicals

Read the label or MSDS **before** you use them



An Overview

How Hazardous **Material** turns into Hazardous **Waste** and what **you can do** during each job to **prevent it** from happening!

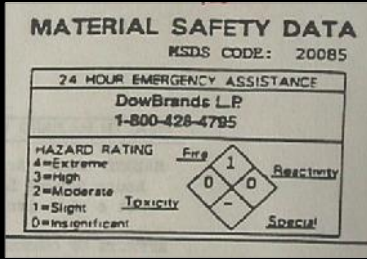
First - Read the labels or MSDS **before** you use the product



A label may have a table showing fire/reactivity/ toxicity codes



Some MSDS have them in the upper right hand corner



HAZ MAT Diamond Signs

Health Hazard Level

Flammability Hazard Level

Instability Hazard Level

Specific Hazard /
Protective Equipment



Rating Guide

Rating Explanation Guide		
HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD
4 = Can be lethal	4 = Below 73 Degrees F	4 = May explode at normal temperatures and pressures
3 = Can cause serious or permanent injury	3 = Above 73 Degrees F, Below 100 Degrees F	3 = May explode at high temperature or shock
2 = Can cause temporary incapacitation or residual injury	2 = Above 100 Degrees F, Below 200 Degrees F	2 = Violent chemical change at high temperatures or pressures
1 = Can cause significant irritation	1 = Above 200 Degrees F	1 = Normally stable. High temperatures make unstable
0 = No hazard	0 = Will not burn	0 = Stable

Here is an example of a Combustible Label



Example of a Flammable Label



Obtaining and Reading a Material Safety Data Sheet (MSDS)

II. To request MSDS:

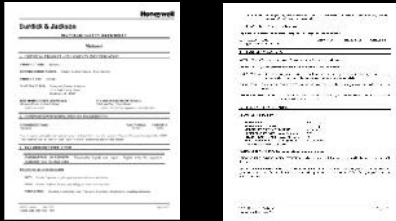
- Identify your company name and facility information
- Identify the product(s) for which you want an MSDS:
 - Product name
 - Manufacturer's name
 - UPC/product number (if applicable)
- Provide the MSDS Technician with the name and FAX number to which you want the MSDS sent.
 - Emergency requests - Immediate to 15 minutes
 - Urgent requests - Immediate to 30 minutes
 - Standard requests - Immediate to 8 hours
 - File or environmental releases/medical exposure - Regulatory agency requests



- 1-800-451-8346
- MSDS Binders in Each Division
- Online Search

The important parts of the MSDS

you are responsible for understanding:



Section - Personal Protection

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion proof ventilation equipment. Facilities using or storing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - PELs
Hydrogen Peroxide	50 ppm (TWA); 500 ppm (Ceiling)	50 ppm (TWA); 100 ppm (Ceiling)	500 ppm (TWA); 1000 mg/m ³ (TWA)

OSHA Vacated PELs: 10 ppm (TWA); 100 ppm (TWA)
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles

Section - Handling and Storage

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section - First Aid Measures

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Possible aspiration hazard. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Section - Accidental Release Measures

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

The PICTURES

Quarterly Safety Inspections

Monthly HazWaste Inventory

Surprise Inspections from DEQ & OSHA

Second, you are also responsible for maintaining **good housekeeping**



Third, you are responsible for **labeling containers** correctly before use.



Maintain Good Housekeeping –
Don't let things go this far



Aerosol Systems



Perform required spray can disposal –



Periodic cleanup
keeps things controlled



We need to remember that
Normal practices are Clean practices



Housekeeping Required?



Yes! Now it's Meticulously Clean



Back in Compliance



Clean up spills as they happen



A place for everything
and everything in its place



Electric heater stored with flammable paint is **not appropriate**.



This is an **open container of used oil** -not labeled and not appropriately stored



Oil spills need to be cleaned **as soon as they are seen**



Everyone looks at cleaning practices and makes inferences from the information



Label everything correctly

What is this leaking onto the ground???



Summary:

You are responsible for . . .

1. Only using chemicals that have labels
2. Reading all labels or MSDS before using the chemical

Summary:
You are responsible for . . .

3. Cleaning up small spills as soon as they occur using the correct method and notifying a supervisor if the spill is larger than one foot so they can supervise the cleanup effort.

Summary:
You are responsible for . . .

4. Using up all of the chemical before the container is thrown away
5. Disposing of all waste material appropriately based on the HW determination

If there is a problem deciding -
Before you throw something...











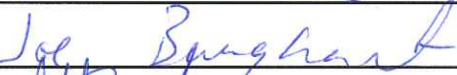
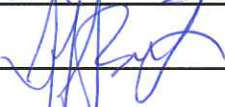
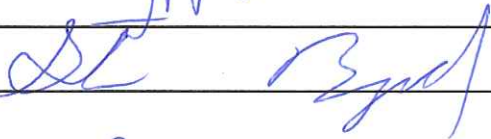

... please talk to your Supervisor
or call
Ken Vaughn at 408-4641
Kelly Graham at 322-6348
or
Steve Prazak at 322-6349



April 30, 2014

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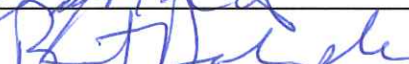


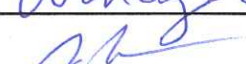
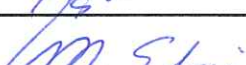

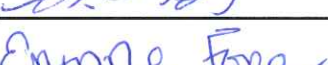
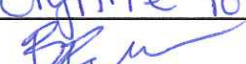

Public Works Department Staff Meeting

Name	Signature Required
Abbas, David	
Alley, Mary Beth	
Anderson, Jovi	
Arnis, Nick	
Babich, Tyler	
Baglien, Garry	
Baker, Galen	
Barnes, Drexell	
Barnes, Ryan	
Blackwelder, Brice	
Blake, Christopher	
Borrego, Dave	
Breadon, Rob	
Brelje, Chris	
Brick, Paul	
Buchanan, David	
Buhmann, Donald	
Burghardt, Joe	
Buystedt, Jeff	
Byrd, Danny	
Byrd, Steve	
Canaday, Diane	
Cannon, Dennis	

April 30, 2014

Hazardous Waste - KenVaughan

Public Works Department Staff Meeting

Name	Signature Required
Carlson, Tim	
Carpenter, Ron	
Cashwell, Spencer	
Clarno, Karen	
Coffman, Denny	
Collet, Aaron	
Combs, Ken	
Combs, Tyler	
Cota, Tony	
Dalrymple, Bret	
Daniel, Jay	
Deke, Tyler	
Edwards, Mike	
Edde, Wendy	
Eldrige, Josh	
Elpi-Trainor, Michelle	
England, Jeff	
Findley, Mike	
Foley, Erynne	
Follose, Brandon	
Forster, Eric	
French, Andy	
Gardner, Scott	

April 30, 2014

Hazardous Waste - KenVaughan

Public Works Departm Staff Meeting

Name

Signature Required

Gillette, Mike

Graham, Kelly

Griffiths, Patrick

Hall, Jimmy

Hamilton, Grant

Hansen, Matthew

Hanson, Hardy

Hartman, Cindy

Hickmann, Tom

Hobbs, Eric

Hopkins, Bob

Howe, Carl

Jackson, Dylan

Jappert-Saul, Jackie

Jones, Shane

Jones, Shawn

Judd, Arthur

Judd, Gary

Kadow, Gina

Keith, Brian

Kelly, Mike

Klotz, Ian

Kuss, Richard

Jimmy Hall

Hardy Hanson

Eric Hobbs

Bob Hopkins

Jackie Jappert-Saul


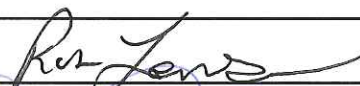


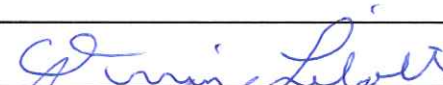

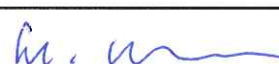

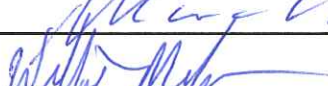




Arthur Judd

Mike Kelly

April 30, 2014

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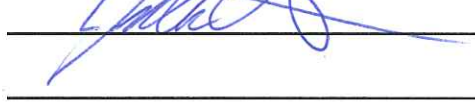


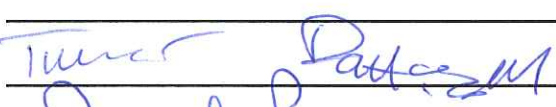
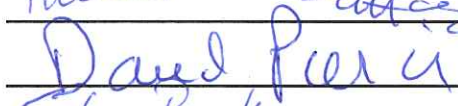


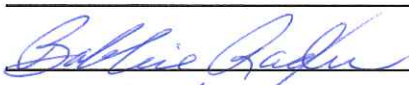
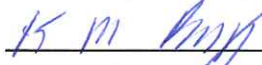
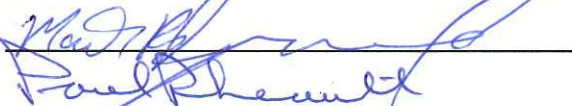

Public Works Department Staff Meeting

Name	Signature Required
Lancaster, Quirt	
Lansdowne, Heidi	
Larson, Ronald	
Ledder, Dave	
Lee, Dave	
Lewis, Robin	
Libolt, Orrin	
Lindsey, Jim	
Lyman, Lori	
Malinowski, Adam	
McAfee, Adele	
McBride, Donald	
McCloskey, Marcus	
McConnell, George	
Meistrell, Brenda	
Mickey, Marc	
Milligan, Will	
Mingus, Rod	
Mitsch, Dustin	
Moody, Reese	
Morrison, George	
Mosher, Chris	
Moulder, Lon	

April 30, 2014

Hazardous Waste - KenVaughan

Public Works Department Staff Meeting

Name	Signature Required
Neiswonger, Paul	
Newberg, Doug	
Newton, Joseph	
Oak, David	
Obrist, Jake	
Oliver, Josh	
O'Malley, Dan	
Ossenkop, Jim	
Ostendorff, Shannon	
Oster, Ryan	
Packebush, Mary	
Packebush, Warren	
Parent, Ethan	
Patterson, Tyler	
Pierce, David	
Prazak, Steve	
Price, Julie	
Prince, Jeannette	
Qual, Craig	
Rader, Bobbie	
Ramsey, Kevin	
Raymond, Mark	
Rheault, Paul	

April 30, 2014

Hazardous Waste - KenVaughan

Public Works Department Staff Meeting

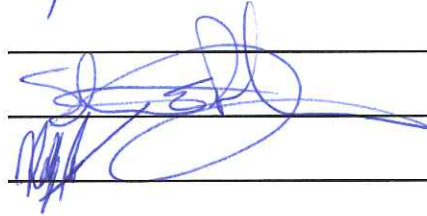
Name

Signature Required

Richards, Ty

Ty Richardson

Richmond, Stu



Riley, Steve

Ristoff, Kelly

Ristoff, Teresa

Rogers, W. Ed

Root, Rick

Roshone, Elmer

Rounds, Stuart

Stuart Rounds

Sanvitale, Spencer

Scarborough, Saedell

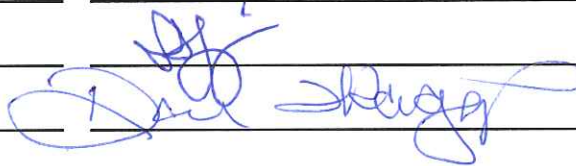
Saedell Scarborough

Schwartz, James

Simon, Crystal

Simpson, Steve

Skaggs, Dan



Smith, Will

Somers, Robyn

Somers, Travis



Spencer, Peggy

Stensland, Dave

Dave Stensland

Stenkamp, Skip

Skip Stenkamp KY

Struck, Chris

Supnet, Robert

April 30, 2014

Hazardous Waste - KenVaughan

Public Works Department Staff Meeting

Name

Signature Required

Suhr, Jason

Sweet, Connie

Taylor, Oakley

Thomasson, Shanon

Thompson, Scott

Towell, Chad

Utley, Aaron

Vaughan, Kenneth

Vencill, Gary

Vieira, Steven

Volkman, Richard

Waldrop, Will

Walling, Tom

Walsworth, Justin

Wellner, Julia

Wilson, Dana

Winter, Kyle

Wodrich, Jim

Wolter, Mark

Woods, Rawlin

Wright, Kim

BRET DALRYMPLE

Connie Sweet
Oakley Taylor

Shanon Thomasson

Scott Thompson

Richard Volkman
Will Waldrop
Tom Walling

Julia Wellner

Mark Wolter

Rawlin Woods

Kim Wright
Bret Dalrymple

April 30, 2014

Hazardous Waste - KenVaughan

**Public Works Department
Staff Meeting**

Name

Signature Required

Star Dennis



April 30, 2014

Hazardous Waste - KenVaughan

Public Works Department Staff Meeting

Name

Signature Required

Interns and Seasonals

Josh Lessar



Bryan Anderson



Anthony Martinez

