

Appendix D

Illicit Discharge Controls

June 30, 2015



RE: Clean Water Works Partnership Opportunity

Dear Commercial Car Wash Facility Owner:

The City of Bend Stormwater Utility would like to partner with you to help keep our waters clean. If you appreciate clean water *and* business enhancement, please consider this voluntary opportunity. The City of Bend is undertaking an exciting new incentive-based watershed campaign entitled Clean Water Works. Please see our website at: bendoregon.gov/cleanwaterworks. Here you can see that we have both educational and partnership aspects to the campaign.

UTILITY
DEPARTMENT

62975 BOYD ACRES RD
PO BOX 118
BEND, OR 97701
[541] 317-3000 TEL
[541] 317-3046 FAX
WWW.BENDOREGON.GOV

We are seeking to support businesses that are working to keep our waters clean. We have selected Commercial Car Wash facilities within the City of Bend as potential Clean Water Works Partners. Should you choose to participate, the City would like to reward you by providing the following promotional materials:

JIM CLINTON
Mayor

SALLY RUSSELL
Mayor Pro Tem

VICTOR CHUDOWSKY
City Councilor

DOUG KNIGHT
City Councilor

NATHAN BODDIE
City Councilor

CASEY ROATS
City Councilor

BARB CAMPBELL
City Councilor

ERIC KING
City Manager

PAUL RHEAULT
Utility Department Director

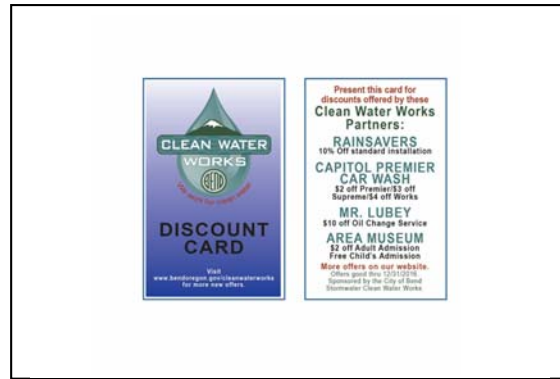
➤ **Promotion** on our “Discounts and Partners” page on our website (bendoregon.gov/cleanwaterworkspartners) and by other electronic media means (e.g., mention on Facebook, Twitter, or radio advertisements). We will actively encourage people to visit this page beginning in August through October, 2015 and likely beyond. The campaign will include: TV, radio, print, events and social media.

➤ **Decal**—The City will provide you a Clean Water Works window decal (see image at right) to help advertise your business as one that cares about Clean Water!

➤ **Discount Card**—The City will list your business and the discount of your choosing (e.g., \$1 off or 5% off) on our website “Discount and Partner” page, and if you respond by July 20, 2015 we will list your business and discount on the back of our discount cards that we will print and distribute at outreach events during the fall 2015 campaign and mention your business in a Clean Water Works partner radio advertisement on a first come/first served basis. The discount card will also be available on line for your customers to print. (See back for an example discount card layout.)



- **Water Bottle**—The City will provide you at least two stainless steel Clean Water Works Partner logo-ed water bottles for your use and enjoyment.
- **Display Holder Promotion** for your waiting room with a Clean Water Works Partner outreach sheet promoting your participation as a company that cares about clean water to your customers.



The partnership works like this—if you meet the following basic steps for your business category, just fill out the attached certification form and you can take part. The criteria for your business category is as follows:

- ✓ You have registered for a Bend Business license (and if you are receiving this letter, then you already have!),
- You keep your cleaning operations to the area that drains to your oil/water separator (i.e., no soapy pre-wash buckets outside the area that flows to your oil/water separator),
- You agree to share the information in the attached fact sheet with your staff
- You agree to honor the discount that you specify through at least December 31, 2015.

Just review the fact sheet, complete the short partnership form and email it to me at wedde@bendoregon.gov or fax it to 541-317-3046. You may also mail it to my attention at: 62975 Boyd Acres Road, Bend, OR 97701. Please contact me directly at 541-317-3018 should you have any questions. And remember, if you contact me by July 20th, we will do our best to include your business name on the back of the Discount card, and a mention of your business on our fall radio commercial on a first come first served basis.

Remember, this is a voluntary program and a means to appreciate your interest and efforts in keeping our river and drinking waters clean! Should you have any questions or if you wish additional fact sheets or fact sheets in an electronic format in order to distribute them to your staff, please do not hesitate to contact me at the phone number or email above.

We look forward to working with you.

Sincerely,

Wendy Edde, CSM
 Stormwater Program Manager
 City of Bend Utility Department
 Att: Commercial Car Wash Fact Sheet, Clean Water Works Partnership form

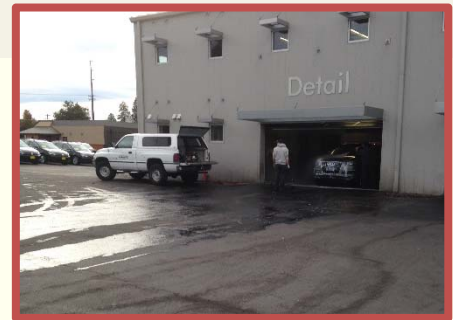
Commercial Car Wash Facilities



Pollutants of Concern: Oil, Sediment, Metals & Phosphates (Soap)

Why is it a problem?

Discharge of commercial vehicle washing wastewater into the storm drainage system is prohibited because it contains pollutants from the cleaning compounds used and/or from the objects or surfaces being cleaned such as engines, wheels and brakes that containing oils, grease, heavy metals, and other substances that can pollute water. Most soap contains phosphates and other chemicals that harm fish and water quality. Even cleaners labeled “biodegradable” and “non-toxic” may be harmful to aquatic life or ground water. In Bend wash water that is allowed to enter a storm drain will either flow directly into the Deschutes River or towards the groundwater that we all drink.



What's Wrong with this Photo?

Wash area is too small and rinse water is draining into the parking area.

What Can You Do to Help Keep Our Waters Clean?

- ◆ Remember, only rain in the storm drain. Only wash vehicles in a covered area that drains to an oil water separator. Do not prewash outside this area.
- ◆ Ensure wash area is large enough so that all wash water is contained within the wash bay.
- ◆ Minimize the amount of water use by using and properly maintaining recycling systems.
- ◆ If washing with detergents, use a phosphate free detergent.
- ◆ Protect storm drains and 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.
- ◆ Prevent and clean up spills immediately using dry cleanup methods.

Additional Resources

City of Bend Illicit Discharge Minimization BMP Manual

<http://bendoregon.gov/modules/showdocument.aspx?documentid=13009>

Oregon DEQ Recommended BMPs For Washing Activities

www.deq.state.or.us/wq/pubs/bmps/washactivities.pdf

ACWA Clean Water Tips For Business and Industries

www.oracwa.org/pdf/cw-tips-for-business.pdf



Accommodation Information for People with Disabilities
To obtain this information in an alternate format such as Braille, large print, electronic formats and audio cassette tape please contact Karin Morris at (541) 693-2141, or email Kmorris@bendoregon.gov.



UTILITY DEPARTMENT

**City of Bend
Illicit Discharge Follow-up Database**

Date Reported	Reported By	Type	Description	Location	Date/Time Noticed	Reported To	Followed up By	Date followed up	Status	Actions Taken/ Comments	MS4 / WPCF	Educ. Info. Provided	Enforcement Taken	Date Followed up with Reporter
7/15/2014	Public	Auto Repair	City of Bend received a complaint that Jiffy Lube was dumping antifreeze onto the ground. They also said that oily mop water was being discharged into the employees restroom.	525 SE 3rd Street	7/14/14 12:00 AM	Buchanan	Buchanan / Taylor	7/15/2014	Closed	City staff provided the on-site manager a copy of the Illicit Discharge BMP Manual, along with an Illicit Discharge flyer. The Manger said they will clean up the spill and replace the leaking spill containment device. On-site drainage was registered with DEQ but not rule authorized, City staff notified the DEQ UIC coordinator about this issue.	Private UIC	Yes	No	7/14/2014
7/23/2014	Public	Restaurant	City stormwater staff received a complaint yesterday regarding the McDonalds on 3rd St & Reed Market washing down their sidewalks daily.	2000 NE Third S	On-going	Michael Buettner	Buchanan	7/24/2014	Closed	City staff spoke with the General Manager at the restaurant. The manager said "They currently use a de-greaser on the oil stains and then hose down the parking's stalls and sidewalks". The manager is going to speak with the corporate office to discuss the issue. City crews provided a Surface Cleaning Brochure and BMP Manual and also forwarded complaint to DEQ.	Private UIC	Yes	No	7/24/2014
7/30/2014	COB	Residential	Leaking SUV parked near catch basin.	2118 NW Black Pines PI	7/29/2014	Buchanan	Buchanan	7/30/2014	Closed	City staff left an Illicit Discharge Flyer on vehicle. The property owner called back that afternoon, staff asked the owner to move the car onto his property and use a drip pan. City of Bend stormwater staff cleaned the roadway by applying granular absorbent and sweeping.	WPCF	Yes	No	7/30/2014
7/24/2014	Public	Dry Weather Flow	A neighboring property owner noticed a dry weather flow at drake park foot bridge river outfall.	Drake Park	On-going	Edde	Edde	7/24/2014	Closed	City staff Inspected the out-fall and observed clear water flowing into the River. Staff pulled several manholes and was able to determine that the water was flowing down from 9th Street. The City operates a water reservoirs that has an overflow connection into the 9th street storm line. Water operations crews verified that the water was coming from the Awbrey Butte Reservoir Drain Valve. Water crews will replace this vale this winter. Due to high demand the reservoir cannot be taken off line during the summer months.	MS4	na	na	8/11/2014
8/1/2014	Public	Construction	Received a phone complaint form code enforcement. I spoke with the caller on 8-1-14. Stewart said a concrete finisher was washing off concrete slurry (from an exposed aggregate driveway) into a (private) catch basin operated by the HOA. The caller also noticed some concrete spilled onto Mt Washington, he thought it might be from flat-line concrete's pumper truck.	Rivers Edge, Polish Homes	7/31/14 4:45 PM	James Goff	Buchanan	8/1/2014	Closed	I spoke with flat-line concrete on the phone. They said they had a pump truck in that area on 7-31-14, but they did not do any clean out or washing down any concrete in to the storm drain. They said it was possible that some concrete slurry could have leaked out of their equipment onto the roadway as they left the site. City Staff left a message with David Emmitt with Polish Homes, regarding the concrete finishing issue.	MS4 (Private UIC)	Yes	No	8/1/2014
8/1/2014	Public	Dry Weather Flow	Overwatering is causing a puddle in the roadway. Caller was concerned that the puddle is breeding mosquitos.	635 NW Delaware St.	8/1/14 12:00 AM	Buchanan	Buchanan,	8/1/2014	Closed	Stormwater staff forwarded the complaint to water conservation and the streets department. It didn't sound like the irrigation runoff was flowing into a catch basin, Just ponding in the roadway.	NA	Yes	No	8/1/2014
8/8/2014	Public	Construction	Asphalt staining on roadway from upstream construction site.	60829 Whitney Place	8/2/2014	Buchanan	Buchanan	8/2/2014	Closed	City staff Inspected the site and found dried concrete residue on roadway. Looked like several driveway aprons had been constructed in the area. I Emailed the builder a link to the ACWA stormwater construction guide.	WPCF (Private UICs)	Yes	No	8/14/2014
8/13/2014	COB	Construction	Dump trucks are tracking sediment into roadway,	365 SE Reed Market Rd	8/13/2014	Buchanan	Chad Towell	8/13/2014	Closed	Stormwater crews Inspected the site and found a Contractor was stock piling asphalt grindings and top soil from a City of Bend project (15th street RAB). City staff contacted the City inspector for the project, the on-site Inspector will coordinate clean-up with the contractor.	WPCF	No	Yes	8/13/2014

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8/20/2014	COB	Manufacturing	Rinse water from a granite countertop shop manufacturer is running out the bay door and into a private UIC.	63595 HUNNELL RD	8/20/2014	Buchanan	Buchanan / Taylor	8/20/2014	Closed	City of Bend IPP staff spoke with the business owner, and they are working to install a new floor drain inside the building to capture this runoff.	WPCF/RA (Private UICs)	Yes	no	8/20/2014
8/28/2014	COB	Herbicide	Local news ran a story on mystery foam. They showed images of foam on the sidewalk and blowing into the roadway.	Requested from Julie Craig	8/27/2014	Julie Craig	Wendy Edde	8/28/2014	Closed	After researching the product, this foam is used to mark the areas that have been sprayed. The foam contained no herbicides and is considered not-toxic by the SDS. Stormwater program staff provide comment on the news article, clarifying the need to keep pesticides and herbicides off the sidewalks, roadway and out of the storm drains.	WPCF	Na	Yes	8/28/2014
9/3/2014	COB	Construction	Solid Rock Countertops was using a tile saw outside and letting the slurry go directly into the storm drain.	744 NW BOND ST	9/3/14 11:24 AM	Wendy Edde	Wendy Edde	9/3/2014	Closed	Spoke with the on-site Forman, recommended installing some inlet protection to keep the fines out of the catch basin.	WPCF (Private UICs)	Yes	No	9/3/2014
9/8/2014	Public	Residential	Received a complaint of landscaping materials being stockpiled in the right of way.	2168 NW Clearwater Dr	9/8/14 12:00 PM	James Goff	Buchanan	9/8/2014	Closed	City staff spoke with the property owner and he agreed to have the material removed within 48hrs. Staff also provided the homeowner a copy of the illicit discharge flyer.	WPCF	Yes	No	9/8/2014
9/12/2014	COB	Residential	Stormwater maintenance crews noticed toilet paper on the catch basin grate. Crews speculated the material may have come from an RV owner dumping a waste into the catch basin.	19630 Topaz Ct.	9/12/14 10:00 AM	Buchanan	Buchanan	9/12/2014	Closed	City staff handed out illicit discharge flyers to the neighboring properties and spoke with a resident at 19631 Topaz Ct. The gentleman had two RV in the driveway and said he always dumps his tank at the Campground before returning home. Stormwater staff cleaned out the catch basin and drywell.	WPCF	Yes	No	9/12/2014
9/20/2014	Public	Residential	Reported seeing oil in catch basin while out marking storm drains.	735 NW Trenton Ave.	9/20/2014	Buchanan	Buchanan	9/26/2014	Closed	This basin in an (up-basin) and is normally full of water. No signs of oil on the adjacent catch basins and water in the up-basin looked clear. Rain storm from an earlier storm event most likely flushed out any material in the basin. City staff left illicit discharge flyers on neighboring houses.	MS4	No	No	9/26/2014
9/24/2014	Public	Residential	White Van parked near catch basin was leaking lots of oil onto the roadway. The person who owns the van has moved out and the resident would like the oil cleaned up.	1225 NW Davenport	On-going	Buchanan	Buchanan	9/25/2014	Closed	Stormwater crews cleaned the roadway with absorbent material and check catch basin for signs of oil. Could not provide educational materials because the vehicle had moved.	Both	No	No	9/24/2014
10/2/2014	COB	Commercial	The City continues to see an issue with chips being blown and tracked out into the right of way plugging catch basins in the area.	151 Se Second Street	On-going	Buchanan	Buchanan	10/2/2014	Closed	This is an ongoing enforcement issue form FT13-14. City staff sent a final notice to the Business Owner, informing him that if the site is not brought into compliance by the date specified in the Notice of Violation Letter the owner will face a \$750 per day fine for each day the violation remains.	WPCF	Yes	Yes	10/2/2014
10/13/2014	Public	Construction / Spill	Received a call from a home owner about diesel spill in front of his house, by contractor. The stain was approx. 4'x8' on the roadway. Owner believed the spill happened on 10/9/2014.	20536 Avro Pl.	10/9/2014	Buchanan	Buchanan	10/13/2014	Closed	City staff could not locate who spilled the material, but several contractors were working in the area. Stormwater crews applied absorbent material and cleaned up the residue. Based on the staining, stormwater crews did not think any material reached the catch basins.	WPCF	No	No	9/13/2014
10/13/2014	COB	Vehicle Washing	During an IPP inspection City staff noticed that car wash rinse water draining out of the service bay and into an onsite swale/UIC. The swale looked to have some oil residue in the bottom.	1045 SE 3rd St	10/13/2014	Edde	Buchanan/ Davenport	10/17/2014	Closed	The majority of the rinse water was being collected in the wash bay and treated in an oil water separator connected to the sanitary sewer. A small amount of rinse water was running out the open garage bay door and into a private UIC facility. City staff provided a copy of the BMP manual to service manager.	Private UIC/ Surface Swale	Yes		10/17/2014

**City of Bend
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10/13/2014	COB	Vehicle Washing	During an IPP inspection, City staff noticed a Car Detail Shop was washing vehicle's in the parking lot and allowing runoff into the onsite catch basin.	44 SE Bridgeford Blvd	10/13/2014	Edde	Buchanan/ Davenport	10/17/2014	Closed	Spoke with the Business Owner and provide a copy of DEQs 1700B permit for vehicle washing. Site is not rule authorized so City staff forwarded the Illicit Discharge to DEQ for additional follow-up.	Private UIC	Yes	No	10/17/2014
10/24/2014	COB	Bentonite spill	An off duty city Stormwater staff member, saw a suspected spill situation at the Shell on Galveston just west of the river. They talked with the operator; he confirmed a bentonite spill and felt it was less than 40 gallons.	Galveston	10/24/2014	Edde	Edde	10/24/2014	Closed	Stormwater staff gave verbal education about proximity to river, drainage outfall of impacted stormwater system, and impacts to river from even "natural" things like soil. Asked him to provide inlet protection and spill cleanup with a pig. He claimed he would and he understood the reasoning why. I then spoke with the gas attendants and asked if they noticed. They had not but I provided them background about their location and high sensitivity of the location next to the river. Will follow-up with letter to company as operator would not provide name or a card and was not knowledgeable about stormwater drainage.	MS4	Yes	Verbal	10/24/2014
11/3/2014	Public	Construction / Sediment	Caller was concerned about dust and sand blowing off uncovered dump trucks through Bend.	General Bend Area	On-going	Buchanan	Buchanan	10/24/2014	Closed	Called Deschutes County Non-emergency line and left message with the dispatcher.	Both	Yes	No	10/24/2014
12/3/2014	Public	Sewage	Report from citizen to DEQ, County and City code enforcement that a septic pumper truck was leaking into an onsite storm drain.		12/3/2014	James Goff (COB)	Wendy Edde, David Buchanan	12/3/2014	Closed	City of Bend Staff confirmed that location was not in area of high pedestrian use (immediate public health issue). Spoke with Krista Ratliff with DEQ and she confirmed that DEQ staff will follow up. Confirmed other pertinent agencies (DEQ and County) will be handling this issue.	Private UIC	No	No	12/8/2014
12/4/2014	COB	Mag Chloride	Maintenance vehicle for Springtime parked a truck in the roadway and left the mag chloride pump runing.	Hill Street	12/4/2014	Buchanan	Paul Nighswonger	12/4/2014	Closed	City crews sanded the area and then swept it up. None of the product made it into a storm drain.	WPCF	Verbal	No	
12/8/2014	Public	Construction / Sediment	Concerned no apparent erosion and sediment controls on homebuilding sites along Reed Market. They appear >1 acre in disturbance; was wondering if there is a 1200 c permit issued.	Off of Reed Market near Alderwo	12/8/2014	Wendy Edde	Wendy Edde	12/11/2014	Closed	12.11.14 Stopped by, met with Amy, Site Supervisor with HomePro. Informed her of stockpile so close to road (see photo) and need to prevent sedimtn from coning off site. Provided 2 copies of ACWA Construction Guide and business card with www.bendoregn.gov/stormwaterbmp on the back. Spoke with her about the potential need for a DEQ 1200C permit if the 2 lots owned by one owner disturb >1 acre. She is the supervisor for lots on both side of Alderwood, the lot on the south side is owned by a separate owner. 12.10.14. Drove by; confirmed no apparent ESC inplace. Stockpile near road may runoff to road; a lot of site is lower than road so rainwater would stay on site. 12.8.14 Check in Russ Grayson: Multiple SFR sites with two different owners. 12.9.14 GIS Mapping review: checked size; each lot is under 1 acre. N.Oltean 12/9/14 --discussed the issue with erosion control inspections in staff meeting.	Both	Yes	No	
12/8/2014	COB	Leak/spill	A springtime landscape employee accidentally left the mag -chloride pump running on his truck. The vehicle was parked in the roadway and had leaked approx.. 30 gallons of mag into the roadway. No material made it into the catch basins.	Hill Street	12/8/2014	Buchanan	Nighswonger	12/8/2014	Closed	City of Bend staff called springtime and reported the issue. The trucks operator was contacted and the pump was shut off.	WPCF	Yes	No	
12/10/2014	COB	Construction / Sediment	Unsecured soil on sloped embankments around new 15th and Reed Market roundabout	SE and NE corners of 15th and Reed Marked Roundabout	12/10/14 ~10:15 AM	Ryan Oster, Project Manager on 12.11.14	Edde/ DEQ	12/11/2014	Closed	Wendy spoke with Ryan on 12/11/14. Ryan reported landscapers are scheduled to be out this week to hydroseed. He will check in with them.	WPCF	No		

**City of Bend
Illicit Discharge Follow-up Database**

12/23/2014	Bend Police Department	Spill	A BSNF locomotive spilled 2,000 gallons of diesel onto the railroad tracks. A full copy of the report is on file with DEQ and City of Bend	Greenwood Underpass	12/23/14 11:00 AM	Shannon Ostendorff	Ostendorff / SMAF	12/23/2014	Closed	Wendy spoke with Ryan on 12/11/14. Ryan reported landscapers are scheduled to be out this week to hydroseed. He will check in with them. Wendy spoke with Ryan prior to a meeting on 1/27/15. Ryan indicated that the decision was made to handseed instead of hydroseed and that hand seeding had occurred last week. Wendy educated Ryan verbally that whereas plant roots will hold soil and permanent vegetation is considered an erosion control, simply seeding an area is not an erosion control and that temporary erosion controls to hold the soil in place are necessary. The area is visible. I explained that a NOV is the next step.	WPCF	Clean up Performed by BSNF	Clean up Performed by BSNF	12/23/2014
1/8/2015	Public	Spill	A grease collection barrel was knocked over sometime during the night and spilled roughly 10 gallons of grease into the alley.	Alley Behind 927 NW Bond Street	1/8/15 10:00 AM	Buchanan	Somers/ Okley	1/8/2015	Closed	Stormwater field crews cleaned up the spilled material using granular absorbent. None of the spilled material made it into City storm drainage facilities. City of Bend IPP and Stormwater staff are working with the grease collection company to replace all the grease collection barrels downtown with a new more secure storage container.	WPCF	Yes	No	1/8/2015
2/6/2015	COB	Pressure Washing	A pressure washing company was cleaning commercial restaurant equipment on the sidewalk behind Safeway on 4th street.	642 Northeast 3rd St.	2/6/15 8:30 AM	Edde	Buchanan	2/6/2015	Closed	Stormwater staff spoke with the stores manager, and provided the business with a copy of the BMP Manual and a Pressure Washing Brochure.	WPCF	Yes	No	2/6/2015
2/17/2015	DEQ	Restaurant	Dumpster was leaking grease onto the pavement.	1365 NW Galveston Ave	2/17/15 5:00 PM	James Goff	Oakley Taylor	2/18/2015	Closed	City IPP staff spoke with the business owner about the issue. The business cleaned up the leaking material and replaced the grease storage container.	Both	Yes	No	
3/16/2015	David Oak (COB)	Construction / Sediment	A homeowner has stockpiled gravel, sand and a 1/2 pallet of pavers in roadway.	Kayla St. / Mallory Pl.	3/15/15 1:00 PM	David Buchanan	David Buchanan	3/16/2015	Closed	Left an illicit discharge flyer on the front door. The homeowner called back and said they would move the material out of the right of way by Monday.	WPCF	Yes		3/16/2015
3/23/2015	COB	Pet Waste	Stormwater maintenance crew found pet waste dumped into a basin.	62934 Bilyeu Ct	3/23/15 10:00 AM	David Buchanan	David Buchanan	3/23/2015	Closed	left an Illicit Discharge Flyer on the front door.	WPCF	Yes	No	3/24/2015
3/24/2015	COB	Construction / Sediment	Single family lot construction site is tracking out dirt into the roadway.	SE GLENEDEN PL	3/24/15 8:00 AM	David Buchanan	David Buchanan	3/24/2015	Closed	Spoke with project manager, Caleb with Haden Homes. He said he will get the road swept and will work with his excavation contractor to install some erosion controls.	WPCF	Yes	No	3/24/2015
3/27/2015	COB	Construction	A single family development currently under construction is using water truck to rinse off roadways.	Bridges Subdivision	3/26/15 12:05 PM	David Buchanan	David Buchanan	3/26/2015	Closed	Inspected the site and found dirt tracked out into the private road. Looked like the contractor was trying to clean up the road using a water truck. The sites drain rock infiltration galleries have not yet been installed. Called and left a message for the General Contractor. The Contractor called back within the hour and said he will address the issue.	Private WPCF	Yes	No	3/26/2015
4/2/2015	COB	Construction / Sediment	A homeowner in broken top has stockpiled sandy material in the roadway.	Broken Top - Lost Lake Rd.	4/3/15 2:00 PM	David Buchanan	David Buchanan	4/3/2015	Closed	Inspected the site and found roughly two yards of sandy material stockpiled in the parking strip. The material was placed on a tarp with the edges fold up, partially cover the pile. Looks like the homeowner had made an effort to prevent sand from washing into the storm drain. City staff left an Illicit discharge flyer on the door.	Private WPCF	Yes	No	4/3/2015
4/9/2015	COB	Waste on Ground	Stormwater maintenance crew found a significant amount of solid waste on and around the swale at 4th and Studio. Looked like the waste may have been a mix of human and/or animal excrement. Spoke with neighbor who confirmed they have seen people use the swale as a restroom.	4th & Studio	4/9/15 8:30 AM	Wendy Edde	Wendy Edde / David Buchanan	4/9/2015	Closed	Stormwater crews inspected the site. Waste may have been a mix of human and animal excrement. Staff also spoke with neighbor who confirmed they have seen people use the swale as a restroom. City staff left illicit discharge flyers on the surrounding homes and cleaned out the swale. Stormwater staff removed waste and will continue to monitor.	Surface Feature	Yes	No	4/9/2015







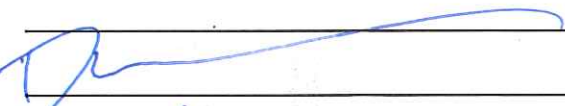
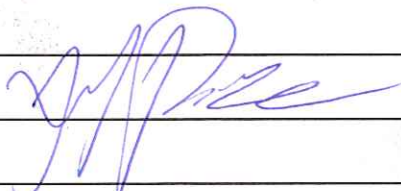
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4/15/2015	Public	RV Waste	The caller reported that the neighbor across the street has people living in an RV parked in the driveway and is dumping buckets or RV tank waste into the storm drain.	Lost Valley Ct.	4/15/2015 10:00 AM Multiple times in the past two weeks.	David Buchanan	David Oak	4/15/2015	Closed	Stormwater crews spoke with the trailers owner, he admitted to dumping grey water into the catch basin. Shortly after that meeting with City staff, the neighbor called back and reported that the trailer has been removed from the property. City crews will clean the basin and drywell.	WPCF	Yes	No	4/15/2015
4/23/2015	COB	Construction / Sediment	A city sweeper operator noticed a construction site on SE Geary Dr. was tracking out a significant amount of dirt into roadway.	SE Geary	4/23/2015	Wendy Edde	Wendy Edde	4/24/2015	Closed	Wendy contacted the builder and left a message.	WPCF	Yes	No	4/24/2015
4/29/2015	COB	Irrigation Runoff	Erosion from River Trail has washed dirt onto the sidewalk and across the road.	1612 NW Overlook	4/28/2015	Wendy Edde	David Buchanan	4/29/2015	Closed	City crews spoke with the homeowner and the sprinkler has already been repaired. City staff will continue to coordinate with the parks department and see if they can repair the trail. The property owner is Susan, her phone number is 541-693-7505.	WPCF	Yes	No	4/29/2015
4/30/2015	Public	Car Washing	A tenant in the apartment complex is washing his car in the roadway.	Broadway / Louisianan Ave.	4/30/2015	David Buchanan	David Buchanan		Closed	Spoke with the property owner, while residential car wash is allowed per our permits. City staff will keep an eye out for car washing at the site, and will provide guidance to the homeowner on BMPs to reduce stormwater pollution.				
5/6/2015	COB	Construction	A homeowner has stockpiled gravel, sand and a 2 pallets of pavers in roadway.	61175 HUBBLE ST	5/6/2015	David Buchanan	David Buchanan	5/6/2015	Closed	Left an illicit discharge flyer on the door.	WPCF	Yes	No	4/29/2015
4/23/2015	COB	Construction / Sediment	A city sweeper operator noticed a construction site on SE Geary Dr. was tracking out a significant amount of dirt into roadway.	SE Geary	4/23/2015	Wendy Edde	David Buchanan	5/6/2015	Closed	(Second attempted) Left a business card and ACWA construction site guide with on-site personal. Informed on-site staff that the dirt berms in the ROW needs removed and the street needs swept.				
5/15/2015	COB	Construction / Sediment	A city stormwater staff noticed a construction site on Hillside Dr. was stockpiling materials in the roadway.	Hillside Drive	5/15/2015	David Oak (COB)	David Oak (COB)	5/15/2015	Closed	City stormwater staff spoke with the contractor (Guss), He agreed to remove the stockpiled material and install filter fabric in the catch basin.		Yes	no	5/15/2015
5/18/2015	Public	Leak/spill	The resident at 2711 NE Yellow Ribbon Drive did some work on a vehicle and appears to have washed the contaminants into the storm water drain. Evidence of some type of oil/petroleum tracks that he drove through and into the street leaving tire marks of oil in the street and on the sidewalk.	2711 NE Yellow Ribbon Drive	5/15/2015	Wendy Edde	David Buchanan / Wendy Edde	5/18/2015	Closed	City staff spoke with the property owner, Who spilled 4 quarts of oil onto his driveway while changing oil on his truck . He cleaned up the oil using granular absorbent. Most of the oil stayed on the driveway and planter area, but a small amount was tracked-out into the roadway from his tires.	WPCF	Yes	No	5/18/2015
5/26/2015	COB	Construction / Sediment	I was walking along the Old Mill trail next to the river on Sunday and noticed a sediment fence bordering the river that is not properly installed. Gap between bottom of fence and the fence. (See pictures). Company is Stillwater Construction.	The property under construction at SW Columbia on the east side of the Deschutes River just south of the Old Mill between Theater Drive and the river.	5/24/2015	Wendy Edde	Wendy Edde	5/26/2015	Closed	Contacted Krista Ratliff (DEQ) to determine 1200C status. Offered to provide education. Krista offered to take the lead.	Private-River Drainage	No	No	NA
5/26/2015	Public	Leak/spill	The City received a report of a non-running, unlicensed vehicle parked on the street for a month wherein the owner is working on the car. Reported that in working on the car, the owner has drained oil and coolant out onto the street and there is a large spill under the vehicle.	20118 Carson Creek Court	5/26/2015	Wendy Edde	David Buchanan	CSR	Closed	City staff left an illicit discharge flyer on the door and contacted Bend Police to address the abandoned vehicle. Stormwater crews used absorbent to clean up the spilled material.	WPCF	Yes	No	NA

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde

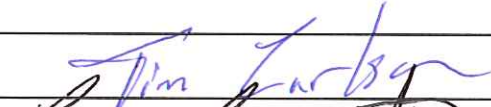
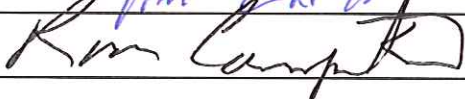
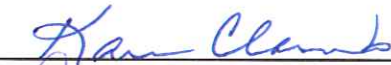
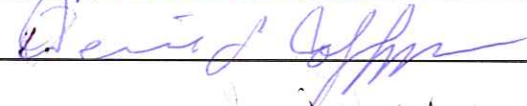



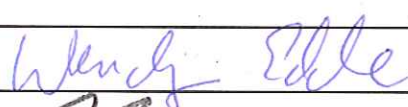
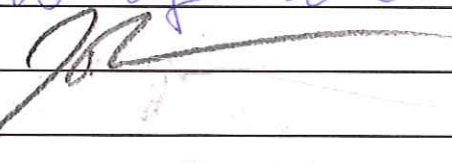

Public Works Department Staff Meeting

Name	Signature Required
Abbas, David	
Alley, Mary Beth	
Anderson, Jovi	
Armenta, David	
Armer, Mike	
Arnis, Nick	
Babich, Tyler	
Baglien, Garry	
Baker, Galen	
Barnes, Drexell	
Barnes, Ryan	
Blackwelder, Brice	
Blake, Christopher	
Borgognoni, Sam	
Borrego, Dave	
Breadon, Rob	
Brick, Paul	
Buchanan, David	
Buhmann, Donald	D. J. Buhman
Burghardt, Joe	
Buystedt, Jeff	
Byrd, Danny	
Byrd, Steve	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde


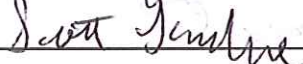
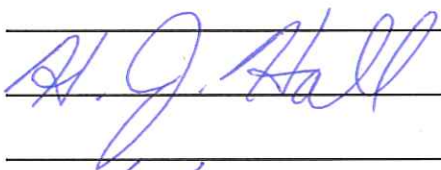
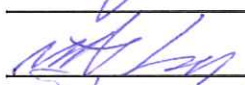

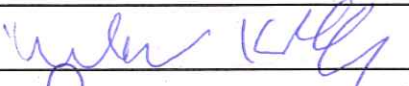
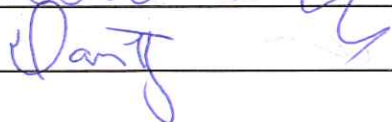
Public Works Department Staff Meeting

Name	Signature Required
Canaday, Diane	
Cannon, Dennis	
Carlson, Tim	
Carpenter, Ron	
Cashwell, Spencer	
Clarno, Karen	
Coffman, Denny	
Collete, Aaron	
Combs, Ken	
Combs, Tyler	
Cota, Tony	
Daniel, Jay	
Davenport, Christina	
Deke, Tyler	
Edwards, Mike	
Edde, Wendy	
Eldrige, Josh	
Elpi-Trainor, Michelle	
England, Jeff	
Findley, Mike	
Fore, Erynne	
Follose, Brandon	
Forster, Eric	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde

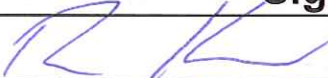


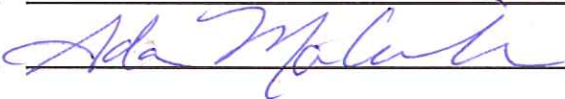



Public Works Department Staff Meeting

Name	Signature Required
Gardner, Luke	
Gardner, Scott	
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	
Kelly, Mike	
Klotz, Ian	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde




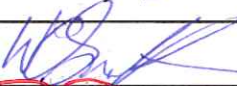
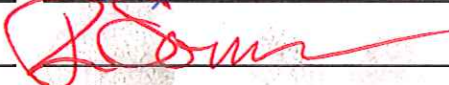


Public Works Department Staff Meeting

Name	Signature Required
Kuss, Richard	
Lancaster, Quirt	
Lansdowne, Heidi	
Lee, Dave	
Lessar, Josh	
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	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde

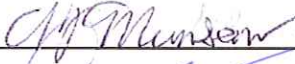


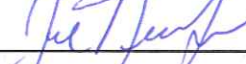
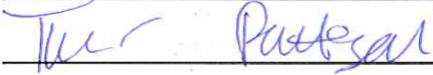
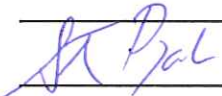

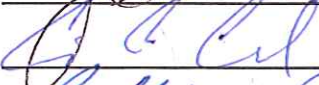
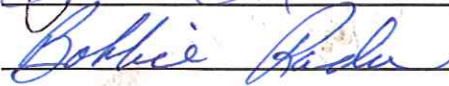
Public Works Department Staff Meeting

Name	Signature Required
Rheault, Paul	
Richards, Ty	
Richmond, Stu	
Riley, Steve	
Ristoff, Kelly	
Ristoff, Teresa	
Rogers, W. Ed	
Root, Rick	
Roshone, Elmer	
Rounds, Stuart	
Sanvitale, Spencer	
Scarborough, Saedell	
Schmidt, Daniel	
Schwartz, James	
Simpson, Steve	
Skaggs, Dan	
Smith, Will	
Somers, Robyn	
Somers, Travis	
Spencer, Peggy	
Stensland, Dave	
Stenkamp, Skip	
Struck, Chris	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde












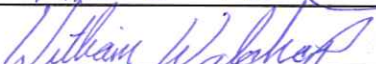
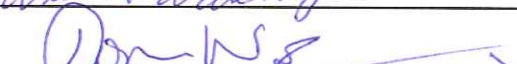
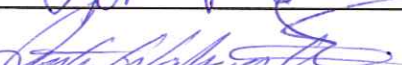

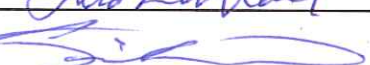


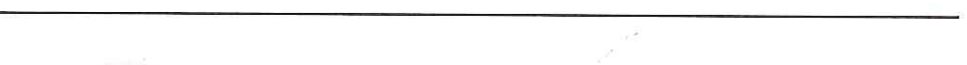
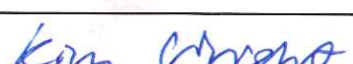
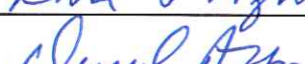

Public Works Department Staff Meeting

Name	Signature Required
Munson, AJ	
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	

September 24, 2014

Stormwater Pollution Prevention - Wendy Edde

Public Works Department Staff Meeting

Name	Signature Required
Supnet, Robert	
Suhr, Jason	
Sweet, Connie	
Taylor, Oakley	
Thomasson, Shanon	
Thompson, Scott	
Towell, Chad	
Utley, Aaron	
Vaughan, Kenneth	
Vieira, Steven	
Volkman, Richard	
Waldrop, Will	
Walling, Tom	
Walsworth, Justin	
Wellner, Julia	
Winter, Scott	
Winter, Kyle	
Wolter, Mark	
Woods, Rawlin	
Wright, Kim	
ABBAS DAVIO	
Buettnner, Mike	

Compliance Detail

City of Bend

Filtered by: Training: Hazardous Waste HazCom

Assigned				Completed		
To	Location	Progress	Due Date	Start	By	On
Hopkins, Robert	Boyd Acres	Complete	6/30/15	6/1/15	Hopkins, Robert	6/1/15
Gardner, Scott	Boyd Acres	Complete	6/30/15	6/1/15	Gardner, Scott	6/1/15
Prince, Jeannette	Pilot Butte Campus	Complete	6/30/15	6/1/15	Prince, Jeannette	6/1/15
Carpenter, Ronald	Pilot Butte Campus	Complete	6/30/15	6/1/15	Carpenter, Ronald	6/1/15
Eldridge, Josh	Pilot Butte Campus	Complete	6/30/15	6/2/15	Eldridge, Josh	6/2/15
Utley, Aaron	Water Reclamation	Complete	6/30/15	6/8/15	Utley, Aaron	6/8/15
Gardner, Lucas	Pilot Butte Campus	Complete	6/30/15	6/8/15	Gardner, Lucas	6/8/15
Judd, Arthur	Boyd Acres	Complete	6/30/15	6/8/15	Judd, Arthur	6/8/15
Combs, Ken	Pilot Butte Campus	Complete	6/30/15	6/9/15	Combs, Ken	6/9/15
Rounds, Stuart	Boyd Acres	Complete	6/30/15	6/9/15	Rounds, Stuart	6/9/15
Libolt, Orrin	Boyd Acres	Complete	6/30/15	6/9/15	Libolt, Orrin	6/9/15
Moulder, Lon	Water Reclamation	Complete	6/30/15	6/9/15	Moulder, Lon	6/9/15
Larson, Ron	Boyd Acres	Complete	6/30/15	6/10/15	Larson, Ron	6/10/15
Dorsey, Christine	Pilot Butte Campus	Complete	6/30/15	6/11/15	Dorsey, Christine	6/11/15
Sanvitale, Spencer	Boyd Acres	Complete	6/30/15	6/11/15	Sanvitale, Spencer	6/11/15
Packebush, Warren	Boyd Acres	Complete	6/30/15	6/11/15	Packebush, Warren	6/11/15
Borrego, David	Boyd Acres	Complete	6/30/15	6/11/15	Borrego, David	6/11/15
Walsworth, Justin	Boyd Acres	Complete	6/30/15	6/11/15	Walsworth, Justin	6/11/15
Byrd, Steve	Boyd Acres	Complete	6/30/15	6/11/15	Byrd, Steve	6/11/15
Follose, Brandon	Boyd Acres	Complete	6/30/15	6/11/15	Follose, Brandon	6/11/15
Lee, Dave	Boyd Acres	Complete	6/30/15	6/11/15	Lee, Dave	6/11/15
Canaday, Diane	Pilot Butte Campus	Complete	6/30/15	6/11/15	Canaday, Diane	6/11/15
Newberg, Doug	Pilot Butte Campus	Complete	6/30/15	6/11/15	Newberg, Doug	6/11/15
Hamilton, Grant	Boyd Acres	Complete	6/30/15	6/11/15	Hamilton, Grant	6/11/15
Buchanan, David	Boyd Acres	Complete	6/30/15	6/11/15	Buchanan, David	6/11/15
Cashwell, Spencer	Boyd Acres	Complete	6/30/15	6/11/15	Cashwell, Spencer	6/11/15
Buystedt, Jeff	Water Reclamation	Complete	6/30/15	6/11/15	Buystedt, Jeff	6/11/15
Petitmermet, Sean	Boyd Acres	Complete	6/30/15	6/11/15	Petitmermet, Sean	6/11/15
Malinowski, Adam	Pilot Butte Campus	Complete	6/30/15	6/11/15	Malinowski, Adam	6/11/15
Hobbs, Eric	Boyd Acres	Complete	6/30/15	6/11/15	Hobbs, Eric	6/11/15
Brick, Paul	Boyd Acres	Complete	6/30/15	6/11/15	Brick, Paul	6/11/15
Burghardt, Joe	Water Reclamation	Complete	6/30/15	6/11/15	Burghardt, Joe	6/11/15
Richmond, Paul "Stu"	Boyd Acres	Complete	6/30/15	6/11/15	Richmond, Paul "Stu"	6/11/15
Armenta, David	Boyd Acres	Complete	6/30/15	6/11/15	Armenta, David	6/11/15
Newton, Joe	Pilot Butte Campus	Complete	6/30/15	6/11/15	Newton, Joe	6/11/15
Morrison, George	Pilot Butte Campus	Complete	6/30/15	6/12/15	Morrison, George	6/12/15
Wright, Kim	Boyd Acres	Complete	6/30/15	6/12/15	Wright, Kim	6/12/15
Somers, Robyn	Boyd Acres	Complete	6/30/15	6/12/15	Somers, Robyn	6/12/15
Wood, Chris	Boyd Acres	Complete	6/30/15	6/12/15	Wood, Chris	6/12/15
Vencill, Gary	Boyd Acres	Complete	6/30/15	6/12/15	Vencill, Gary	6/12/15
Milligan, Will	Boyd Acres	Complete	6/30/15	6/12/15	Milligan, Will	6/12/15

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Compliance Detail

City of Bend

Filtered by: Training: Hazardous Waste HazCom

Elpi-Trainor, Michelle	Water Reclamation	Complete	6/30/15	6/14/15	Elpi-Trainor, Michelle	6/14/15
Roshone, Elmer	Water Reclamation	Complete	6/30/15	6/14/15	Roshone, Elmer	6/14/15
Supnet, Robert	Boyd Acres	Complete	6/30/15	6/15/15	Supnet, Robert	6/15/15
Winter, Kyle	Boyd Acres	Complete	6/30/15	6/15/15	Winter, Kyle	6/15/15
Mastrud, Corey	Boyd Acres	Complete	6/30/15	6/15/15	Mastrud, Corey	6/15/15
Kadow, Gina	Bend Municipal	Complete	6/30/15	6/15/15	Kadow, Gina	6/15/15
Stensland, David	Boyd Acres	Complete	6/30/15	6/15/15	Stensland, David	6/15/15
Hall, Matt	Boyd Acres	Complete	6/30/15	6/15/15	Hall, Matt	6/15/15
Jackson, Dylan	Pilot Butte Campus	Complete	6/30/15	6/15/15	Jackson, Dylan	6/15/15
Armer, Mike	Pilot Butte Campus	Complete	6/30/15	6/16/15	Armer, Mike	6/16/15
Vaughan, Ken	Boyd Acres	Complete	6/30/15	6/16/15	Vaughan, Ken	6/16/15
Woods, Rawlin	Boyd Acres	Complete	6/30/15	6/16/15	Woods, Rawlin	6/16/15
Winter, Scott	Boyd Acres	Complete	6/30/15	6/16/15	Winter, Scott	6/16/15
Rader, Barbara	Pilot Butte Campus	Complete	6/30/15	6/17/15	Rader, Barbara	6/17/15
Alley, Mary Beth	Pilot Butte Campus	Complete	6/30/15	6/17/15	Alley, Mary Beth	6/17/15
Scarbrough, Saedell	Pilot Butte Campus	Complete	6/30/15	6/17/15	Scarbrough, Saedell	6/17/15
Riley, Steve	Boyd Acres	Complete	6/30/15	6/17/15	Riley, Steve	6/17/15
Schmidt, Daniel	Pilot Butte Campus	Complete	6/30/15	6/18/15	Schmidt, Daniel	6/18/15
O'malley, Dan	Boyd Acres	Complete	6/30/15	6/18/15	O'malley, Dan	6/18/15
Clarno, Karen	Boyd Acres	Complete	6/30/15	6/18/15	Clarno, Karen	6/18/15
Ristoff, Kelly	Boyd Acres	Complete	6/30/15	6/18/15	Ristoff, Kelly	6/18/15
Edwards, Mike	Boyd Acres	Complete	6/30/15	6/18/15	Edwards, Mike	6/18/15
Donato, Natalie	Boyd Acres	Complete	6/30/15	6/18/15	Donato, Natalie	6/18/15
Wellner, Julia	Pilot Butte Campus	Complete	6/30/15	6/18/15	Wellner, Julia	6/18/15
Munson, AJ	Pilot Butte Campus	Complete	6/30/15	6/18/15	Munson, AJ	6/18/15
Lessar, Joshua	Pilot Butte Campus	Complete	6/30/15	6/18/15	Lessar, Joshua	6/18/15
Kuss, Richard	Boyd Acres	Complete	6/30/15	6/19/15	Kuss, Richard	6/19/15
Gillette, Mike	Boyd Acres	Complete	6/30/15	6/22/15	Gillette, Mike	6/22/15
Findley, Mike	Boyd Acres	Complete	6/30/15	6/23/15	Findley, Mike	6/23/15
Combs, Ty	Pilot Butte Campus	Complete	6/30/15	6/25/15	Combs, Ty	6/25/15
Volkman, Richard	Pilot Butte Campus	Complete	6/30/15	6/25/15	Volkman, Richard	6/25/15
Carlson, Tim	Water Reclamation	Complete	6/30/15	6/25/15	Carlson, Tim	6/25/15
Graham, Kelly	Boyd Acres	Complete	6/30/15	6/25/15	Graham, Kelly	6/25/15
Waldrop, Will	Pilot Butte Campus	Complete	6/30/15	6/26/15	Waldrop, Will	6/26/15
Oliver, Josh	Pilot Butte Campus	Complete	6/30/15	6/29/15	Oliver, Josh	6/29/15
Meistrell, Brenda	Pilot Butte Campus	Complete	6/30/15	6/29/15	Meistrell, Brenda	6/29/15

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Compliance Detail

City of Bend

Filtered by: Training: HAZWOPER Annual Refresher 1 - Introduction to HAZWOPER Retraining

Assigned		Progress	Due Date	Start	Completed	
To	Location				By	On
Babich, Tyler	Boyd Acres	Complete	11/30/14	1/5/15	Babich, Tyler	1/5/15
Baglien, Garry	Boyd Acres	Complete	11/30/14	11/13/14	Baglien, Garry	11/13/14
Blackwelder, Brice	Boyd Acres	Complete	11/30/14	12/26/14	Blackwelder, Brice	3/30/15
Cashwell, Spencer	Boyd Acres	Complete	11/30/14	12/1/14	Cashwell, Spencer	12/1/14
Edwards, Mike	Boyd Acres	Complete	11/30/14	11/6/14	Edwards, Mike	11/6/14
Findley, Mike	Boyd Acres	Complete	11/30/14	11/20/14	Findley, Mike	11/20/14
Gardner, Scott	Boyd Acres	Complete	11/30/14	1/2/15	Gardner, Scott	1/2/15
Hamilton, Grant	Boyd Acres	Complete	11/30/14	11/7/14	Hamilton, Grant	11/7/14
Mastrud, Corey	Boyd Acres	Complete	11/30/14	1/29/15	Mastrud, Corey	1/29/15
McCloskey, Marcus	Boyd Acres	Complete	11/30/14	3/24/15	McCloskey, Marcus	3/24/15
Milligan, Will	Boyd Acres	Complete	11/30/14	11/13/14	Milligan, Will	11/13/14
Mingus, Rod	Boyd Acres	Complete	11/30/14	11/17/14	Mingus, Rod	11/17/14
Mosher, Chris	Boyd Acres	Complete	11/30/14	11/14/14	Mosher, Chris	11/14/14
Rounds, Stuart	Boyd Acres	Complete	11/30/14	11/13/14	Rounds, Stuart	11/13/14
Skaggs, Dan	Boyd Acres	Complete	11/30/14	11/12/14	Skaggs, Dan	11/12/14
Vaughan, Ken	Boyd Acres	Complete	11/30/14	11/3/14	Vaughan, Ken	11/3/14
Wood, Chris	Boyd Acres	Complete	12/10/14	1/7/15	Wood, Chris	1/7/15
Borgognoni, Sam	Water Reclamation Facility	Complete	11/30/14	12/3/14	Borgognoni, Sam	8/11/15
Burghardt, Joe	Water Reclamation Facility	Complete	11/30/14	11/7/14	Burghardt, Joe	11/7/14
Fore, Erynne	Water Reclamation Facility	Complete	11/30/14	11/18/14	Fore, Erynne	11/18/14
McConnell, George	Water Reclamation Facility	Complete	11/30/14	11/6/14	McConnell, George	11/6/14
Mickey, Marc	Water Reclamation Facility	Complete	11/30/14	11/13/14	Mickey, Marc	11/13/14
Rogers, William "Ed"	Water Reclamation Facility	Complete	11/30/14	1/13/15	Rogers, William "Ed"	1/13/15
Roshone, Elmer	Water Reclamation Facility	Complete	11/30/14	11/2/14	Roshone, Elmer	11/2/14
Thompson, Scott	Water Reclamation Facility	Complete	11/30/14	5/14/15	Thompson, Scott	5/14/15

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Compliance Detail

City of Bend

Filtered by: Training: Storm Water Pollution Prevention

c	Assigned				Completed		
	To	Location	Progress	Due Date	Start	By	On
	Larson, Ron	Boyd Acres	Complete	4/21/14	7/8/14	Larson, Ron	7/8/14
	Armenta, David	Boyd Acres	Complete	7/14/14	7/29/14	Armenta, David	7/29/14
	Borgognoni, Sam	Water Reclamation Facility	Complete	8/12/14	8/27/14	Borgognoni, Sam	8/27/14
	Armer, Mike	Pilot Butte Campus	Complete	8/1/14	8/28/14	Armer, Mike	8/28/14
	Lessar, Joshua	Pilot Butte Campus	Complete	8/4/14	8/21/14	Lessar, Joshua	9/5/14
	Winter, Scott	Boyd Acres	Complete	6/23/14	9/5/14	Winter, Scott	9/5/14
	Gardner, Lucas	Pilot Butte Campus	Complete	7/7/14	9/22/14	Gardner, Lucas	9/22/14
	Munson, AJ	Pilot Butte Campus	Complete	7/7/14	9/23/14	Munson, AJ	10/21/14
	Schmidt, Daniel	Pilot Butte Campus	Complete	6/23/14	10/27/14	Schmidt, Daniel	10/27/14
	Davenport, Christina	Boyd Acres	Complete	8/4/14	9/4/14	Davenport, Christina	11/13/14
	Wood, Chris	Boyd Acres	Complete	12/10/14	12/21/14	Wood, Chris	12/21/14
	Donato, Natalie	Boyd Acres	Complete	10/27/14	12/24/14	Donato, Natalie	12/24/14
	Abbas, David	Pilot Butte Campus	Complete	2/13/12	12/26/14	Abbas, David	12/26/14
	Goe, Kerry	Pilot Butte Campus	Complete	12/3/14	1/14/15	Goe, Kerry	2/4/15
	Petitmermet, Sean	Boyd Acres	Complete	12/26/14	1/16/15	Petitmermet, Sean	2/6/15
	Hall, Matt	Boyd Acres	Complete	1/12/15	2/26/15	Hall, Matt	2/27/15
	Stensland, David	Boyd Acres	Complete	7/8/13	4/2/15	Stensland, David	4/2/15
	Mastrud, Corey	Boyd Acres	Complete	10/27/14	1/9/15	Mastrud, Corey	4/24/15
	Schwartz, James	Pilot Butte Campus	Complete	1/23/09	3/27/12	Schwartz, James	6/3/15

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Safety
On-Site IDDE Inspectors
Training

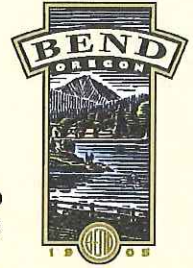
12.15.14

Sum-In

- | | |
|-------------------|-----------------|
| 1. Wendy Pede | Utility - Storm |
| 2. David Buchanan | |
| 3. Ken Vaughan | (Trainers) |

WATERWISE SPEAKERS SERIES

Resource Stewardship Through Landscape Water Efficiency



The majority of all residential water use within the City of Bend's service area is used for landscape irrigation. That translates to roughly 60 percent of the average water use on a monthly bill! How much of that water actually benefits the landscape? How do we know we're irrigating efficiently? What can we do to reduce the amount of water we use in the landscape? Join us as three Central Oregon horticulture experts present their views on water resource stewardship through proper soil management, irrigation and design.



Urban Soils – The Good, the Bad, and the Ugly

Getting healthy landscape plants to grow in Central Oregon can be a challenge. However, one of the most influential factors in determining plant health remains a mystery to many – the soil! Learn what proper soil management is and how it can influence landscape water efficiency and plant health.

SPEAKER: Rick Martinson – Owner, *Wintercreek Restoration*

Rick has been creating unique landscapes in the western U.S. for nearly two decades. His experience with native landscape regeneration and proper soil management make him one of Central Oregon's true experts on soil-plant-water relationships.



Water "Whys" to WaterWise – Efficient Landscape Irrigation

Demand for more water efficient irrigation system components has led to a steady stream of innovation within the industry in recent years. Listen and learn how these components, when utilized properly, can take a basic irrigation system to the next level.

SPEAKER: Molly McDowell Dunston – Branch Manager, *Ewing Irrigation*; Chair, *OR Landscape Contractors Board*

As the local Branch Manager for Ewing Irrigation Molly shares an enormous knowledge base with area landscape and irrigation contractors. Her diverse green industry experience and emphasis on contractor education make her an incredible Central Oregon resource.



Water Efficiency & Design – A Photo Tour of Central Oregon WaterWise Landscapes
Look and listen as one of Central Oregon's premiere landscape designers guides attendees through a virtual tour of inspiring landscapes that seamlessly blend style, function, and water efficiency.

SPEAKER: Chris Hart-Henderson – Owner, *Heart Springs Landscape Design*

Chris has been playing, living, gardening, growing and designing landscapes in Central Oregon for over 30 years. Chris owns Heart Springs Landscape Design, LLC a company that specializes in water wise landscapes that embrace the outdoor, fun loving Central Oregon lifestyle.

SATURDAY, APRIL 11, 2015 • 8:30 A.M - NOON

COCC - Health Careers Center Room 330 • 2600 NW College Way • Bend, OR 97701

To register please visit www.waterwisetips.org or call 541-317-3000



Accommodation Information for People with Disabilities

To obtain this information in an alternate format such as Braille, large print, electronic format and audio cassette tape please contact Karin Morris at 541-693-2141 or email kmorris@bendoregon.gov.

SERIES IS FREE. REGISTRATION IS REQUIRED.
QR Code RSVP Link: Download any free QR-Code reader app to your smart phone. Scan this code and it will take you to the RSVP page.





WaterWise Program Survey

- 1) Which of the following best describes you or your employer?
 - 40 A. Landscape & irrigation installation contractor
 - 26 B. Landscape & irrigation maintenance contractor
 - 1 C. Product manufacturer or distributor
 - 5 D. Local government or public sector
 - 4 E. Other _____

- 2) How often, if ever, are you asked about irrigation or water efficiency by your customers or clients?
 - 4 A. Almost never
 - 20 B. Infrequently
 - 29 C. Frequently
 - 6 D. Almost always

- 3) Given your experience, what would be the best way to increase the irrigation efficiency of the systems you see in the field?
 - 6 A. Replace the irrigation controller
 - 23 B. Fix broken / missing items
 - 25 C. Nozzle retrofit
 - 14 D. Remove high water plants like grass, etc.
 - 4 E. Other _____

- 4) Would you be interested in offering your customers or clients a Water Efficiency Report that shows their actual water use before and after an irrigation or landscape improvement?
 - 36 A. Yes
 - 3 B. No
 - 19 C. Unsure

- 5) If you see a concave landscape swale what do you think of?

9 did not respond.

Answers included:

- "I dislike landscape swales. I understand their purpose, but most lots are not adequate size to accommodate once the house is built and client's lawn is installed"
- "Usually mandated to collect water"
- "Most weeds, a few stunning"
- "Drainage area, stormwater retention"
- "Drainage"
- "Runoff, too much water in the area"
- "Better moisture capture"

“Pain to mow”
“Runoff”
“Excellent idea for excess water”
“Good idea”
“Keeping water on site”
“Wetland”
“Drainage”
“Retention”
“Stormwater”
“Hard to control amount of water”
“Depends on maintenance, could be nice if weeded / kept up”
“It’s the low point of the yard”
“Water drainage”
“Water issues”
“Drainage issues”
“Hydraulic factors”
“Haven’t been in the business long enough”
“Break in lateral line, bad grade, design”
“A leak, muddy mess”
“Stormwater or broken pipe leak”
“Drainage problem”
“Catching water runoff”
“Drainage”
“I actually think they’re attractive”
“Bad drainage”
“Retention basin for water overflow”
“Water retention, excessive run off from roof and parking lot, etc.”
“Surface drainage and erosion protection”
“Not a fan”
“Drainage, opportunity”
“Stormwater retention”
“Water trap, weeds”
“Drainage traps, can be pretty”
“Drainage”
“Water retention”
“Water retention”
“Drainage swale”
“Pipes are broken”
“Drainage problem”
“Weed attraction”
“Leaks”

6) When you hear the word “Xeriscape” what do you picture?

10 did not respond

Answers included:

“Native landscape”
“Not a clue”
“Usually sparse, but can be beautiful if done correctly”
“Low water usage plants, native plantings”
“Low water landscape”
“1/4” drip tubing”
“Low pressure drip systems”
“Nevada”

"Low water usage"
"Drip"
"Drip"
"Desert landscaping"
"Native landscape"
"Well planned/water wise – less grass more water wise plantings"
"Like plants by watering needs"
"Efficient water use"
"Our native plant material"
"Native, drought tolerant plants"
"I actually don't know"
"Drip irrigation"
"Well put together"
"Low maintenance plant material"
"Hardscape"
"No idea"
"Dry"
"Rock"
"Beautiful drought tolerant plantings"
"Landscape design, low water regulations"
"Drip"
"Drought tolerant plants, no grass"
"Water efficiency, but limited plant material"
"Drip with plants only"
"Drip with spray xerisprays"
"Drip irrigation"
"Drip, controller efficiency"
"No water"
"Drip irrigation"
"Submarine"
"Not sure"
"Dry landscaping"
"Drip"
"Dry desert – water smart"
"Drip irrigation"
"Gravel"
"Low water consumption landscape"
"Don't know what that is"
"Low water native plants"

Conclusions:

Question 1) Vast majority of attendees work in the landscape and irrigation installation or maintenance field. I estimate about 50% of the attendees were from Central Oregon with the rest coming from west of the Cascades.

Question 2) Generally a split, but it is encouraging to see that the conversation seems to be happening more often than not.

Question 3) Nice to see that the irrigation controller wasn't looked at as the first/best solution. Many attendees were allowed to check multiple boxes here.

Question 4) Very encouraging to see that contractors are interested in providing information to their clients. I attribute some of the “unsure” answers to perhaps not know exactly what this might look like? Not sure.

Question 5) The answers run the gamut, but generally it looks like many know what they’re purpose is, but have difficulty implementing them. Some of the more thorough answers came from employees of Botanical Developments and Springtime Irrigation.

My personal favorite: “Pain to mow”

Question 6) A lot of confused looks here. Turns out most folks west of the Cascades have never been exposed to this term or practice. Perhaps rightfully so considering their climate. Generally surprised at the lack of knowledge from those that were from Central Oregon. Many link Xeriscape with drip irrigation.

My personal favorite: “Nevada”