

## **Utilities Public Advisory Group**

April 3, 2024 • 11 am-12:30 pm

Hybrid Meeting • MS Teams or Bend Utilities Department Deschutes Conference Room

Dan Denning, Water Conservation Program Manager Elisabeth O'Keefe, Stormwater Program Manager Aubrie Koenig, Facilitator

## Purpose & Agenda

Feedback on turf removal and WaterWise communities program priorities and approach. Input on proposed stormwater illicit discharge downtown business outreach.

- 1. Introduction
- 2. Water Conservation
  - Turf removal/HOA pilot
  - Overall program priorities
- 3. Stormwater Management
  - Illicit discharge education
- 4. UPAG Discussion
- 5. Summary and Closing



## March meeting reflections

- **Stormwater Master Plan** key considerations:
  - Refining stormwater solution set for higher density development and smaller lot sizes
  - Education resources for residential onsite stormwater management requirements
  - Align master plan and codes related to residential runoff in the right-of-way
  - Maintenance resources for privately owned (sometimes failing) stormwater facilities
  - Continued focus on groundwater protection
- Water Conservation Program reporting feedback:
  - Support for sharing overall target water savings and actual progress towards goal
  - Strategies to convey individual benefits of adopting water savings practices
  - o Interest in more weather stations for irrigation controllers to better cover microclimates
- Erosion Control compliance areas of interest:
  - Strategies to implement efficiently and standardize with templates for single-family homes, etc.



## Summer subcommittee

### **Topics**

- Erosion control standards and permitting (how to apply to small lots)
- Stormwater Master Plan

### **Meetings in July and August**

One per month, 1.5 hours each

#### **UPAG Volunteers**

- Mike Szabo
- Rick Martinson
- Brian Wilkinson
- Tom Headley
- Stephanie Wascha
- Others?

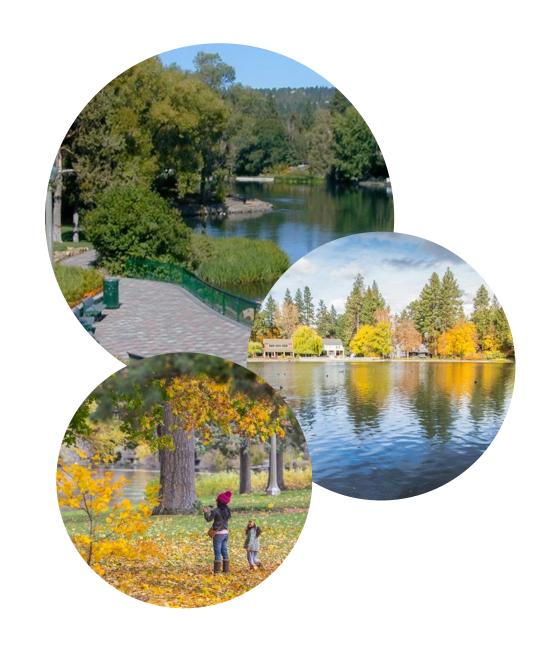




## June tour preview

- 11 am tour start at Drake Park
- Walking tour of Newport Avenue
- 12:30 pm return to Drake Park for lunch

Look for more RSVP info soon!





## Water Conservation Program



## Recap of Goals and Challenges

- Roll out of 11 new conservation measures
- 7.9 billion gallons of water saved by 2040
- Reduction of 13.6 GPCD
- Continued population growth
- Shift in development- more people in less space
- Water rights limited
- Growing regulation on contaminants
- Climate change



# Turf Removal vs. Landscape Code Conservation analysis (2019)

### Turf Removal-

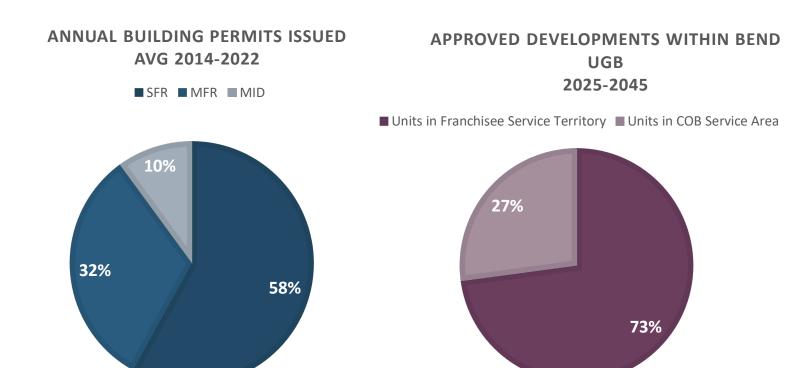
- Savings 26% avg from national study
- 50 rebates annually SFR
- 57% of participants spent \$4,000 or less on conversion.
- MGD savings 0.012- 184 gpd/acct

### Landscape Code- 0.8 mgd savings/yr

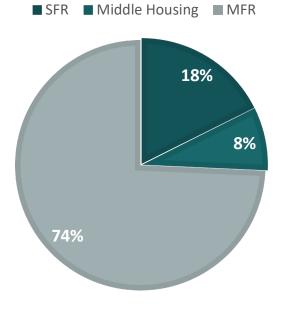
- Same national study referencing 26% savings
- Based on 691 new buildings
  - Assuming 6% being MFR, 83% being SFR
- MGD savings 0.81- 187 gpd/acct SFR



## **Pursuing Private Development Code**



APPROVED DEVELOPMENTS DISTRIBUTION
OF HOUSING TYPE, WITHIN CITY OF BEND
WATER SERVICE AREA 2025-2045





## Turf removal pilot program overview



- Targeted to single family residential customers; however, multi-family residential and commercial sites with 1,000 sqft or less of convertible area can apply
- Must convert to moderate, low, or very low water use plants and upgrade irrigation
- Will receive \$3 per sqft max of \$3,000 per project
- Small pilot in 2022 showed a range of savings from 19-44% postestablishment. Average of 23% per participant.
- Goal to remove 25,000 sqft of turf in '24



### **Considerations**

- Need to minimize weeds and potential herbicide use in converted areas
- Need to offset radiated heat from replacement of turf
- Need to eliminate low performing irrigation systems
- Maintain trees and tree health
- Promote plant diversity and minimize herbicide dependency
- Provide support through process to aid in successful conversions

Project area must retain 50% plant coverage at maturity

Project must convert to drip irrigation or high efficiency nozzles

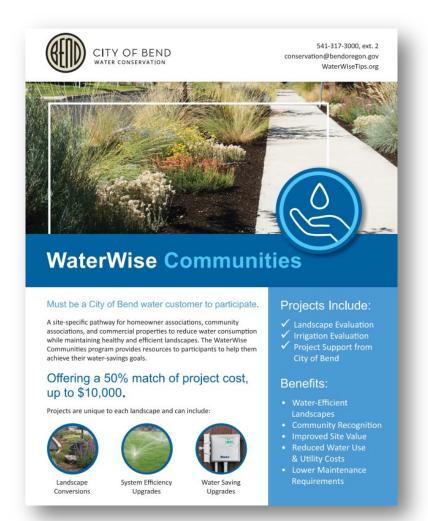
Mulch- (rock or composted organic material) must be applied min 3" in converted planted areas

No synthetic turf rebated.
Permeable pavers may be installed as long as plant density is still met,

Mandatory pre and post consultations.



## Water Wise Communities grant program overview



- Grant application program for commercial customers, HOA's, and multi-family residential with >1,000 sqft of project area
- Turf conversions, irrigation system efficiency upgrades, and water management projects
- Offer a 50% reimbursement of project costs up to \$10,000
- Program administered through our Large Landscape program
- Goal is 8 sites in '24



## **Considerations**

- Prioritize high impact projects
- Provide analysis to inform project and savings potential
- Improve irrigation management of large landscape sites, often through multiple controllers
- Maintain care of new project

Mandatory pre-approval site evaluation through LLP

Priority points added to project for: Using Water Sense certified contractor/designer, Including stormwater capture, Use of pollinator plants, Maintenance plan included in project

Similar plant density requirements 50%

Similar irrigation requirements- drip irrigation, high efficiency nozzles



## **Educational opportunities**

3/9, 3/12, 3/21- G3 Webinars 401 attendees
Sat 4/13 -Spring Garden seminar
Wed 4/17-Deschutes Library
Sat 6/8- Water Wise Field Day

Additional needs:

Fire Wise/Water Wise alignment
Irrigation Water Management
Integrated Pest Management
Turf's gone....now what?
Contractor certification program



Plant Select: Plants That Wanna Be Here! - Karen McCarthy

Saturday, April 6th, 10:00 a.m.

Are you overwhelmed thinking about how to transform your landscape to be a part of, rather than fight we battle cold, wind, heat plus low precipitation? Plant Select is a nonprofit based in Colorado, a cooper State University and the world-renowned Denver Botanical Gardens. For over 25 years they have been introducing plants for the landscape that not only look great but will also thrive in our harsh western intreview a few old favorites old us some new introductions from Plant Select.

Ins and Outs of Lawn-to-Xeriscape Conversion In Central Oregon - Dan Denning Saturday, April 13th, 10:00 a.m.

As the impacts to water resources and frequency of drought conditions increase in Central Oregon, a co decrease water consumption in the home or business is to reduce the amount of non-functional high wa retrofit low efficiency irrigation systems. Commonly faced challenges to replacement include planning or resources and setting yourself up for success by choosing appropriate plant and irrigation material to m landscape. This presentation will walk through the regionally appropriate steps to a conversion includin planting, irrigation and identifying available resources and rebates available.

https://www.gocomga.com/2 024-spring-seminar





## Water conservation program priorities



### **Program outreach**

Communicate goals and current state

Rules and regulations

**Process-installation** 

Care-establishment

Continued increase in participation



### Partnerships for providing

Green industry education and training

Public education and training

Developing BMP's for maintenance/care of new landscapes

Incorporating Fire Wise elements into design considerations

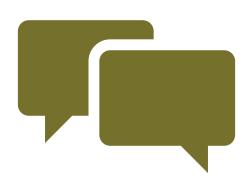


## Identify communities outside of primary target audience

Identify and engage customers who don't typically participate



## **UPAG** focus questions



- How would you rate the pilot program applications for overall clarity and ease of understanding? What if any hurdles would you expect for participants?
- Where would you suggest the City prioritize offering program participants support (application assistance, technical/design assistance, maintenance education, etc)?
- Which outreach channels do you feel will be most effective for these programs (multi-media promotions, yard signs for participants, etc)?

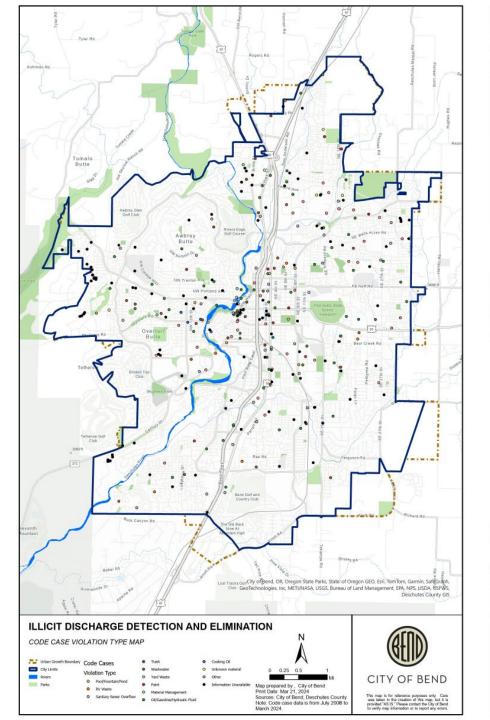


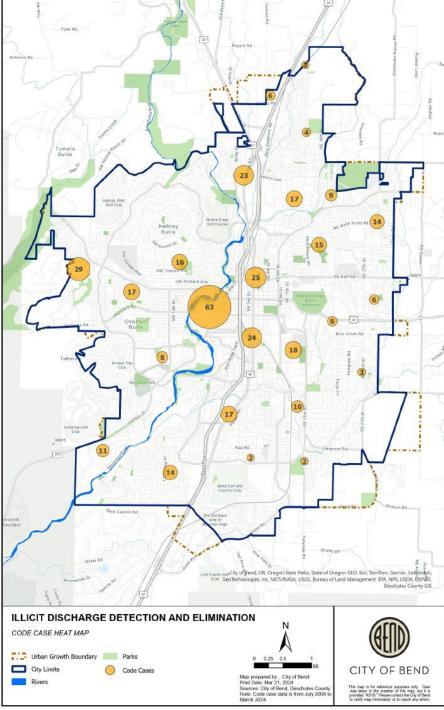
## Stormwater Management



# IDDE locations over time (2008-2024)

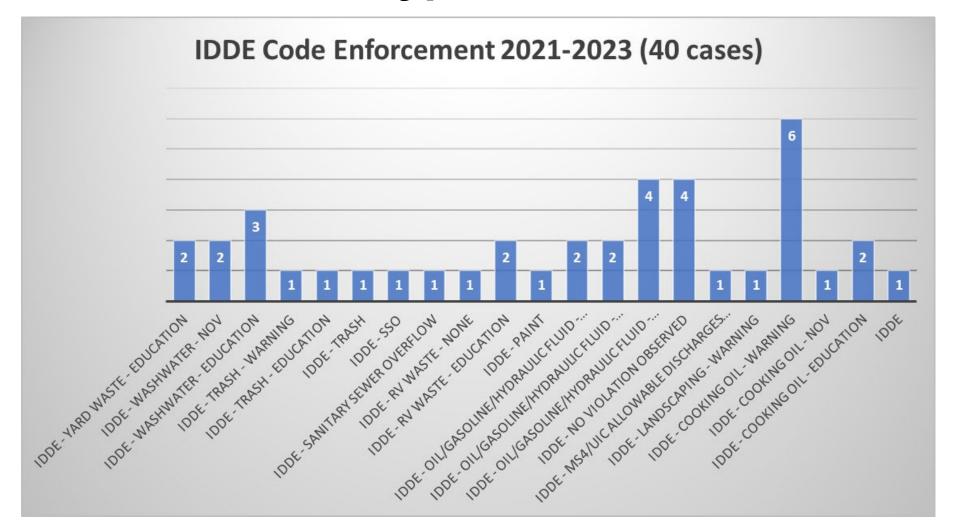
- Downtown
- Core Area







## **Case and Violation Type**





## **High Frequency Case Types**

2021-2023 (calendar year)

- Automotive pollutants 20%
- Restaurant grease 23%















## **Business Outreach Program**

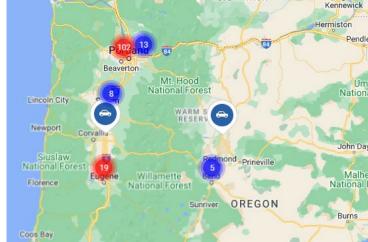
### **2024** EcoBiz certification program

- Auto repair & body shops
- Car washes
- Landscapers

#### **Areas of Evaluation**

- Hazardous waste management
- Air quality and pollution
- Spill prevention and response
- Product and waste storage
- Cleaning procedures
- Purchasing and inventory management
- Recycling practices
- Employee training
- Vehicle washing and stormwater
- Energy and water use





**ECOBIZ** 







## **Certification Process**

- Initial site visit and walk through with EcoBiz staff
- Report provided with steps required to achieve certification
- 3. Final certification site visit with Oregon DEQ



ECOBIZ AUT	OMOTIVE SERVICES CHECKLIST		<b>A</b> ~	1
	Spill Prevention			
when applied to spills will h and general	I true adage "An ounce of prevention is worth a pound of curre to the inevitable spills and releases that will occur at your shelp to reduce the impacts of the spill and reduce your potent heartburn. Proactive preparation to avoid releases and to ma is always to your advantage – and it typically is a simple proc	op. Quick r al expense ke those that	respons e, lost tin	m
If your facility (e.g. used oi	vention, Control, & Countermeasure (SPC) has the capacity to store more than 1,320 gallons of petrole ), then a spill plan may be required. To calculate storage cap ners that are 55 gallons or larger. Contact your technical assist the this plan.	im product	t or wast	te
SP1 legal	Does your shop have a SPCC plan in place? Answer "n/a" if your facility does not fit the SPCC description above. (Contact your technical assistance provider for assistance with this topic.)	Yes	No	
SP2 prog.	If you responded "n/a" to SP1 above, have you developed and implemented a written spill response plan that has been "EcoBiz approved"? (A plan outline and example spill plan is available upon request).		No	(



Are adequate, clearly marked, spill containment kits available and maintained in all areas where fluids are How many spill kits are now in place?

our shop. Quick responses potential expense, lost time,

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ECOBIZ AUTOMOTIVE SERVICES CHECKLIST

#### Underground Injection Control (UIC) Wells

When a business has no access to sewer or storm water collection systems, business wastes are often discharged into sumps, drywells, trench drains, floor drains, septic tanks and drain fields. This type of disposal practice may release wastes directly into the ground and over time pollute groundwater. As you might guess, the pollutants can enter lakes, streams, wetlands, springs, and private or public wells. Contaminated groundwater can have major consequences for a community or industry relying on well water for industrial processing, irrigation of food crops, or drinking water. Underground injection control (UIC) strives to control or eliminate these

UIC1 legal	Have you checked for UIC wells (e.g. dry well, drill hole, drain field) located either inside your shop or anywhere on the property? Includes floor drains or sumps not directly connected to a municipal sanitary sewer.	Yes	No	N/A
UIC2 legal	if UIC wells have been identified in your shop or on your property, has it been determined where the waste liquids discharge?	Yes	No	N/A
UIC3 legal	Has your shop registered its UIC well(s) with DEQ?	Yes	No O	N/A
UIC4 legal	Have the UIC well(s) been permanently closed in a way that ensures underground sources of drinking water are protected?	Yes	No	N/A

ECOBIZ LANDSCAPE SERVICES CHECKLIST

	General Design			
GD1 prog.	For work on private property, are you or do you have a certified landscape designer on staff?	Yes	No	N/A
	APLD certification     Registered Landscape Architect (ORS 671.310 to 671.459)     College Degree		ecob	iz.orB
	Specify training or certification			
GD2 prog.	Do you use one of the following techniques to investigate	Yes	No	N/A
	utility locations onsite?	0	0	0
	Call locator service			
	<ul> <li>Check service maps</li> </ul>			
	Pothole (hand dig to locate buried pipes)     Previous site design notes/maps			

	Pesticide Use	1	1	
PU1 legal	Do all employees who apply Restricted Use Pesticides have current Pesticide Applicator's license issued by the Oregon Department of Agriculture?	Yes	No	N/A
PU2 prog.	Do you prioritize products with the following characteristics?	Yes	No	N/A
	Target specific	0	0	0
	Pest life-stage & site appropriate			-
	<ul> <li>Safe for applicator &amp; site users</li> </ul>			
	Low mobility & persistence			
PU3 prog.	Do you limit pesticide/herbicide use to Class III and IV EPA	Yes	No	N/A
	toxicity ratings (labeled with "Caution")?	0	0	0
	List pesticides of concern, and application information:			
	1			
PU4 prog.	Do you avoid using any of the following pesticides, except	Yes	No	N/A
PU4 prog.	Do you avoid using any of the following pesticides, except as a last resort?	Yes	No O	N/A
PU4 prog.			No	N/A
PU4 prog.	as a last resort?  Beta-cyfluthrin, Bifenthrin, Carbaryl, Chloropicrin, Chloropyrifos, Cyfluthrin, Deltamethrin,		No O	N/A
PU4 prog.	as a last resort?  Beta-cyfluthrin, Bifenthrin, Carbaryl, Chloropicrin,		No O	N/A

### **Benefits**

### Website Profile https://ecobiz.org/

 Location, website, and phone number listed the EcoBiz.org map and certified business page. Businesses will have the option to post additional profile information and a logo or picture. Newly certified businesses also be featured on blog and social media platforms.

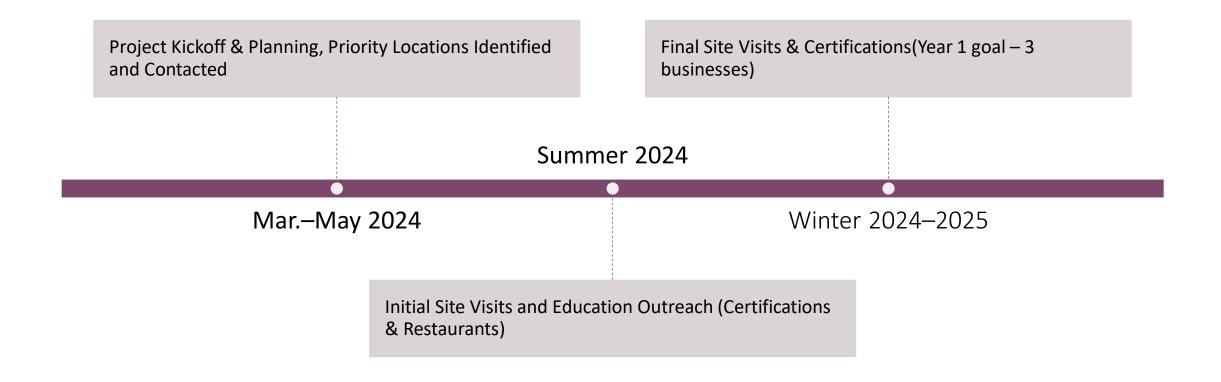
### **Certification Logo Usage**

 Certified businesses are encouraged to use the EcoBiz logo to promote certification on their websites, advertisements, vehicles, uniforms and other promotional materials.

Certification is free, valid for three years, and endorsed by Oregon DEQ Provides outreach material and free resources (spill kits)



## **Business Outreach Timeline- Year 1**





## Downtown business outreach approach

- High priority locations along Gasoline Alley
  - Recurring IDDE cases
- Restaurant focused outreach
  - Oil/grease and waste disposal practices & spill prevention
  - Storm system education
  - Signage

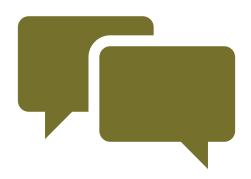
\*EcoBiz certifications not available yet







## **UPAG** focus questions



- What ideas do you have to help encourage business participation in the certification program?
- What may prevent businesses from participating?
- If you were an auto or landscape business owner, would you find this program valuable to your business?



## Discussion & Feedback



## Look ahead



May 1, 2024: Stormwater Master Plan & Groundwater Protectiveness 11am-12:30pm Hybrid Meeting (Boyd Acres or MS Teams)

**Outcome:** Feedback on master plan prioritization criteria. Input on potential changes to UIC location and design standards.

June 5, 2024: Newport Avenue Stormwater Tour

11am-12:30pm (+optional lunch!)



## **Erosion Control Workshop- Registration Open!**

**CESCL CERTIFICATION AND EROSION CONTROL WORKSHOP** 

City of Bend Council Chambers, 710 NW Wall St

1st Day Admission is FREE but you must register by April 24! Space is limted - so register today!

Join us for a full day workshop discussing stormwater and erosion and sediment control for construction activity in the Bend area. Presentations will be given by a variety of speakers including DEQ, City of Bend, OSU and CWT. Lunch will be provided.

See the following page for the agenda.

#### Want to Become CESCL Certified?

Attend day 2 to complete CESCL Certification course, which satisfies the 1200C, 1200CN and 1200CA requirements.

MUST ATTEND BOTH DATES TO BE ELIGIBLE

Space is limited!

Day 2 Reduced Fee: \$200.00



QUESTIONS **JEN LEE** (509) 947-6583

JENL@CWTACADEMY.COM



Day 1: 710 NW Wall St Day 2: 22395 McGrath Rd Time: 8a-4p both days.

TO REGISTER **USE OR CODE:** 

**CESCL COURSE DATES:** 



WWW.CWTACADEMY.COM/BEND-CESCL-LIVE

6 CEUs for Oregon CCB license holders available for attending!

All registrations are non-refundable and must be recieved by Apr 24, 2024.

Day 1: Erosion Control Workshop - May 2 - 8a - 4p - No Charge 710 Wall St - City Hall Council Chambers



8:00a - 8:15a: Breakfast/ Meet and Greet

8:15a - 9:15a: Regulatory Overview (Staff & DEQ)

9:15a - 10:30a: Creating an Effective Erosion & Sediment Control Plan (CWT)

10:30a - 10:40a: Break

10:40a - 11:50a: Operational and Perimeter BMP Selection (CWT)

11:50a - 12:00p: Break for Lunch

12:00p - 12:45p: Lunch and Learn - Revegetation in Central Oregon (OSU)

12:45p -12:55p : Break for Lunch Cleanup

12:55p – 1:45p: Covering and Conveyance BMP Selection (ACF West)

1:45p - 2:20p: Spill Prevention and Response (CWT)

2:20p - 2:30p: Break

2:30p - 4:00p: Local BMP Discussion, Inspections, Case Studies and Q&A (Panel)

Day 2: Completion of CESCL Certification - May 3 - 8a - 4p - \$200 per person 22395 McGrath Rd - Water Reclamation Facility - Kerri Training Rm

8:00a – 9:00a: Requirements of a WA CESCL and the SWPPP (CWT)

9:15a - 10:45a: Permitting & YDO (CWT and Hudspeth Land & Water)

10:45a - 11:45a: Inspections and CESCL Jeopardy (Greenwood Environmental)

11:50a - 12:30p: Exam

12:30p – 1:15p: Lunch (on your own), then to BMP Workshop

1:15 - 4:00p - Field BMP Activity

Attendance at Day 1 and Day 2 are required for all wanting to be CESCL certified or recertified. The second part of Day 2 will be conducted outside. We will discuss different BMPs that are used on construction activity and will install them at the site. We will witness a hydromulch application and discuss dust suppression and revegetation techniques. Finally, we create a mock rain event and test the BMP installations against the storm.

Participants should plan for hot weather or rain. Pollen or other allergins may be a consideration. Gloves, study footwear, and water bottles are all a must.



www.cwtacademy.

com/bend-cescl-

live

# Thank you!



## **Accommodation Information for People with Disabilities**



To obtain this information in an alternate format such as Braille, large print, electronic formats, etc. please contact Lori Faha at <a href="mailto:lfaha@bendoregon.gov">lfaha@bendoregon.gov</a> or (541) 317-3025; Relay Users Dial 7-1-1.

