



CITY OF TROUTDALE

"Gateway to the Columbia River Gorge"

PUBLIC WORKS DEPARTMENT

Department Management

Engineering

Environmental Services

Equipment Maintenance

Mapping Services

Parks Division

Streets Division

Wastewater Services

Water Division

November 1, 2018

Mark Riedel-Bash
Department of Environmental Quality
700 NE Multnomah St, Suite #600
Portland, OR 97232

**Re: City of Troutdale NPDES MS4 Permit #102910
DEQ File #110793
Permit Year 12 – Annual Report**

Dear Mr. Riedel-Bash:

In compliance of Schedule B(2) and C(3) of the City's NPDES MS4 Permit, attached you will find the twelfth annual report, including an executive summary, implementation matrix, and stormwater system map.

Should you have any questions or comments about this submittal, please do not hesitate to contact me at ryan.largura@troutdaleoregon.gov or at (503) 674-3311.

Sincerely,
CITY OF TROUTDALE

Ryan Largura
Environmental Specialist

cc: File

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City of Troutdale, NPDES MS4 Permit #102910
Executive Summary – Permit Year 12 (July 1, 2017 – June 30, 2018)

The stormwater management program plan (SWMP) is attached to this document (see Section 1). The attached SWMP identifies stormwater goals within the six minimum control measures of the permit. Many of these goals have been met this past permit year, although there were setbacks with reaching all stated goals. The City strives to ensure all goals are met each permit year. The following summary offers highlights from permit year 12.

Implementation of the first and second minimum control measures had continued success. Minimum control measure one (public education and outreach) achievements included a Beaver Creek mailer sent to Troutdale community members, an expansion of spring cleanup events, and six offerings of free workshops for the public in partnership with the East Multnomah Soil and Water Conservation District. The second minimum control measure (public involvement and participation) had another successful Earth Day event, and anticipates having a new public facing website in the current permit year that will offer a better interface for the public looking for stormwater information.

Minimum control measures three, four, and five continued to be active. For illicit discharge detection and elimination, outfall inspections were completed in September 2017. No illicit discharges were discovered. Construction began on three 1200C permits, while several more are slated to begin in the current permit year. Also included under the construction site stormwater runoff control measure, seven projects subject to site development permits (local erosion control permit) began. Numerous site inspections were conducted for these projects. For post construction stormwater management, the City continues to require development to install and/or retrofit stormwater quality treatment systems in accordance with the standards of the Portland Storm Water Management Manual and Portland Source Control Manual..

Minimum control measure six saw continued successes and shortcomings. Catch basin cleaning and street sweeping activities continued on schedule, and removed debris that otherwise may have reached the creeks and rivers. The City contracted with Multnomah County to perform nine City-wide street sweepings. However, drywell inspections fell well short of the stated goal. There were no hazardous spills by the City. Sewer responses were performed in a timely fashion, and herbicide application remains minimal.

There were no changes made to the SWMP based on the administrative extension of the current permit. The City updated its SWMP in 2011 as part of the City's NPDES permit renewal application in 2011 that was submitted to DEQ separately. Once the new Phase II General Permit is issued, the City will update its SWMP and implement it upon approval by DEQ.

TROUTDALE SWMP IMPLEMENTATION PLAN

OCTOBER 2018

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Applicable Permit Requirement: Schedule A(4)(a) - Public Education and Outreach								
Informative Pamphlets	Inform residential, commercial, and industrial users about steps they can take to reduce storm water pollution.	Available to the Public at City Hall front desk.		These informative pamphlets were chosen because of the issues they address (e.g., car service, natural gardening, erosion control, concrete dumping) and the ability of the City to acquire existing pamphlet formats from other agencies.	No changes proposed.	Replenished supply at City Hall/Public Works Shop front desks as necessary.	Replenish supply at City Hall/Public Works Shop front desks as necessary.	Ongoing
A. After the Storm		Mail to all Troutdale Mailing Addresses once during permit term.	Number mailed		No changes proposed.	2,700 Beaver Creek mailers were sent to Troutdale mailing addresses. The mailer has tips on stream-friendly practices at home. See Section 5.	Replenish supply at City Hall/Public Works Shop front desks as necessary.	Ongoing
B. Stream-Friendly Home and Yard Care		Include with all applicable Public Works Permits that are issued.			No changes proposed.	Continued to include with all Public Works Permits involving concrete work.	Continue to include with all Public Works Permits involving concrete work.	Ongoing
C. Managing Concrete and Mortar								
Catch basin Labeling	Inform and educate residents at the point of entry to the storm system (catch basin) as to where it drains. Discourage illegal dumping.	Ensure that at least 95% of catch basins are labeled.	Number of labels installed relative to number of catch basins	Storm sewer system inlets have historically proven to be locations for illegal dumping of all types of pollutants. Labeling catch basins should act to heighten general resident awareness of the problem. Thermoplastic labeling was chosen over painting due to improved look and durability.	No changes proposed.	150 labels were replaced or installed at catch basins in the City.	Continue to replace damaged thermoplastic labels with DAS button style labels. Install DAS button style labels on all new City owned catch basins (associated with new development) so that at least 95% of catch basins are labeled.	Ongoing
Newsletter	Inform target audiences with educational messages regarding specific pollutant impacts to storm system.	Publish three editions annually of the Troutdale Champion with stormwater issues addressed in articles.	Number of articles published	The Troutdale Champion was chosen for a media outlet for several reasons. The newsletter is mailed to all residents of Troutdale. Using an existing publication cuts down on staff time and costs to generate, print, and deliver the publication.	No changes proposed.	Articles published in three editions of the <i>Troutdale Champion</i> . Articles are attached in Section 3.	Meet the stated objective and publish articles in at least three editions of the Champion.	Ongoing
School-Based Education	Educate elementary school children about human impacts that cause stormwater pollution.	% of requests filled with in-school educational presentation.	Number of requests made.	This method of school-based education was chosen primarily due to its effectiveness. Students from the 4th grade on can visualize point and non-point source pollution with this model. The City of Gresham owns the model and allows the City of Troutdale its use whenever it is needed thus combining resources.	No changes proposed.	Inquiries were made to Troutdale elementary schools about offering transportation to the Children's Clean Water Festival in Portland, and in-school presentations. Requests were not received.	A list of fourth grade teachers in Troutdale was provided in October to the Consortium Conservation Committee, a festival sponsor, and will solicit teachers to attend the 2019 Children's Clean Water Festival in Portland.	Ongoing
Spring Cleanup	Sponsor an annual free yard debris drop-off event for Troutdale citizens in the Spring.	Tons of yard debris collected and processed for reuse at this event. Records of Spring Cleanup debris tonnage are kept at the City's Public Works Management Department.	Tons of yard debris collected	Yard debris can become a source of stormwater contamination when not handled correctly. This annual yard debris drop-off event ensures that citizens have a free event where they can drop off yard debris for processing for reuse.	No changes proposed.	On May 5, 2018, 125 vouchers were redeemed at Allwood Recyclers. Allwood Recyclers did not tally tons of yard debris disposed, but each voucher allowed one to two cubic yards of debris disposal. In coordination with Waste Management, curbside collection of bulky material was offered May 5, 2018. 580 tires, 136 tons of mixed debris, and almost 10 tons of metal were collected. In addition, electronics recycling was provided through MRM Recycling.	Continue to offer a clean-up event and coordinate with Waste Management and other vendors for Spring Cleanup event.	Ongoing

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Hazardous Waste Disposal	Coordinate with our Metro Regional Government to hold a local hazardous waste collection event or to provide citizens a reduced disposal fee for drop-off of hazardous wastes at Metro facilities.	Number of customers serviced at either a hazardous waste roundup event or at a Metro facility annually. Number of vehicles serviced and the volume or weight of material accepted will be documented and kept at the Metro Solid Waste and Recycling Offices.	Number of events held in Troutdale	Hazardous wastes can become a source of stormwater contamination when not handled correctly. Providing citizens with an affordable and easy option for correct disposal of hazardous wastes prevents these materials from being illegally dumped into the stormwater system.	Discontinued tracking by number of customers per 2008/2009 plan. It is difficult to get this information from Metro. Information is kept at Metro offices. The events are staffed to host approximately 250 area customers.	Two (2) events were held in the Troutdale area (November of 2017 and April of 2018).	Work with Metro to assure at least one hazardous waste roundup event occurs in Troutdale area.	Ongoing
Rain Garden Workshop	Coordinate with East Multnomah Soil and Water Conservation District to provide citizens a free clinic about rain gardens and other topics that promote responsible stormwater management, as funding allows.	Number of citizens attending event.	Number of citizens attending event	Rain garden are a tangible way for citizens to get involved with stormwater management, and manage their stormwater onsite. This workshop is designed to teach citizens how to assess their property for the best rain garden location and size; choose plants; and construct and maintain the garden.	No changes proposed. Partner with the East Multnomah Soil & Water Conservation District as time and resources allow to host different types of classes.	The City hosted six different workshops offered by East Multnomah Soil and Water Conservation District. In autumn of 2017, 4 people attended the Beneficial Insects workshop, 6 people attended the Pollinators workshop, and 17 people attended the Urban Weeds workshop. In spring of 2018, 29 people attended the Rain Gardens 101 workshop, 13 people attended the Naturescaping workshop, and 9 people attended the Native Plants workshop.	Partner with East Multnomah Soil and Water Conservation District to provide workshops as time and resources allow.	Ongoing
Applicable Permit Requirement: Schedule A(4)(b) - Public Involvement/Participation								
Stormwater Open House Events	Provide a public forum to discuss and accept comments from the public regarding the City's approach to stormwater management.	Hold two open house events (September 2003 and February 2004) to present to the public the City's efforts in regard to development of a stormwater management program.	Number of open house events held	Providing a forum to accept public comments regarding the City's stormwater management program helps direct City staff and at the same time provides an educational opportunity for the public.	No changes proposed.	No open house events occurred related to stormwater issues.	No open house events planned.	Completed. No open house events anticipated until the Department issues a new NPDES Phase II permit to the City.
Earth Day Event	Organize and hold an Earth Day event within the Troutdale Greenway system annually aimed at restoring riparian habitat through the removal of invasive species and planting of native species.	Ensure that an Earth Day event is held annually that involves volunteer organizations such as The Friends of Beaver Creek and the Boy Scouts of America.	Number of volunteers	Public riparian restoration events such as this are a great way to get the public involved in environmental stewardship while giving the public a sense of ownership for their local natural areas. This event provides an opportunity for City staff to educate the public about human impacts to watershed health via stormwater quality while physically improving the habitat they are learning about.	No changes proposed.	31 adult volunteers, 4 youth volunteers Removal of ivy, stinging nettle, and other invasive weeds; planting of 80 native trees and 40 native shrubs, and trash pickup.	Continue hosting an Earth Day/Arbor Day event to be held in April/May.	Ongoing
			Type of activity					
			Groups/Partners involved					
			Area of coverage					
Location of restoration project	Reynolds Learning Academy; Home Depot; Albertson; Black Rock Coffee Bar; Fed Ex; East Multnomah Soil and Water Conservation District; SOLVe.	Approximately half to 1 acre Helen Althaus Park						

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Public Meetings	Provide the public a chance to comment regarding changes to the City's stormwater ordinance.	Ensure that all changes made to the stormwater ordinance are presented in public hearings that meet the State of Oregon open public meetings law requirements.	Number of Changes to Ordinance	Public involvement in crafting the City's stormwater ordinance is important to program success. Conducting public meetings to discuss the proposed changes to the stormwater ordinance ensures that the public has a chance to be involved in program development.	No changes proposed.	No changes to stormwater ordinances.	Continue to track changes to the City's stormwater ordinance at public meetings.	Ongoing
Website	Provide an ongoing question/comments section(s) on the City's website to accept public feedback.	Ensure that 100% of public feedback is addressed promptly and incorporated where appropriate into the stormwater management program.	Number of questions/comments from City's website	Public feedback regarding the City's stormwater management program is important to program success. Providing an open forum to accept public feedback ensures that the public has a chance to be involved in the stormwater management program.	No changes proposed.	No questions or comments received from the website.	The City's website is due to be updated in 2018-2019. To view eventual update, please visit www.troutdaleoregon.gov . Track number of questions/comments and any follow-up activity.	Ongoing
Applicable Permit Requirement: Schedule A(4)(C) - Illicit Discharge Detection and Elimination								
Stormwater System Map	Maintain an up-to-date stormwater system map that denotes the location of all City owned outfalls and receiving waters.	Incorporate 100% of the stormwater collection and conveyance system into the City's GIS.	Miles of stormwater main added to system Number of catch basins added to system Number of water quality facilities added to system	Operating a stormwater system without knowledge of all outfall locations can lead to illicit discharges going undetected. Maintaining an up-to-date stormwater system map ensures that City staff can locate and monitor outfalls.	No changes proposed. Section 2 includes stormwater maps.	494 feet of stormwater main was added to the system. Catch basins were not added to the system. One (1) water quality facility was added to the system.	Add new elements to system map as they are constructed by or for the City. Provide updated map to DEQ with annual report.	Ongoing
Code Enforcement	Enforce Chapter 12.06 of the Troutdale Municipal Code (TMC) to effectively prohibit illicit discharges.	Enforce TMC on all observed and reported violations of this code section. Records of violations of 12.06 and enforcement actions taken are kept at the City's Community Development Department.	Number of violations	Negligent or deliberate actions that cause pollution of stormwater are prohibited in TMC 12.06, which provides the legal authority that allows the City to hold responsible parties accountable for actions that harm stormwater quality.	No changes proposed.	No complaints of illicit discharges by public.	Respond to complaints as necessary.	Ongoing
Dry Weather Flow Observations	Observe stormwater system outfall locations for evidence of dry weather flows.	Inspect 100% of City owned stormwater system outfalls annually during dry weather conditions. Records of annual dry weather flow observations will be kept at the City's Public Works Management Department.	Number of outfalls inspected	Dry weather flows are a potential indication of illicit discharges. Observation of each outfall location for evidence of discharge during dry weather will help City staff find and remove illicit discharges to the stormwater system.	No changes proposed.	100% of outfalls monitored in accordance with the City's outfall monitoring guide.	Inspect all outfalls.	Ongoing
Informative Pamphlets After the Storm	Inform residential, commercial, and industrial users about steps they can take to reduce storm water pollution.	Available to the Public at City Hall front desk.		These informative pamphlets were chosen because of the issues they address (e.g., car service, natural gardening, erosion control, concrete dumping) and the ability of the City to acquire existing pamphlet formats from other agencies.	No changes proposed.	Available at City Hall and Public Works Shop.	Replenish supply at City Hall/Public Works Shop front desks as necessary.	Ongoing
Stream Friendly Home and Yard Care		Mail to all Troutdale Mailing Addresses.	Number mailed		No changes proposed.	2,700 Beaver Creek mailers were sent to Troutdale mailing addresses. The mailer has tips on stream-friendly practices at home. Copy included.	Replenish supply at City Hall/Public Works Shop front desks as necessary.	Ongoing
Managing Concrete and Mortar		Include with all applicable Public Works Permits that are issued.			No changes proposed.	Included with all permits associated with concrete and mortar.	Continue to include with all Public Works Permits involving concrete work.	Ongoing

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Applicable Permit Requirement: Schedule A(4)(d) - Construction Site Stormwater Runoff Control								
NPDES 1200C Permitting Authority	Implement State of Oregon NPDES 1200C program for construction sites \geq 1 acre in size.	Ensure that 100% of construction projects \geq 1 acre in size meet the requirements of the NPDES 1200C permit program. Records of erosion control permits are kept at the City's Community Development Department.	Number of 1200C permits issued	The City of Troutdale has acted as the NPDES permitting authority for the State DEQ for many years and this local administration of the program benefits all parties involved (i.e., applicant, State DEQ, City). The 1200C program helps to protect water quality by requiring on-site erosion control measures for active construction sites.	No changes proposed.	Three (3) new NPDES 1200C permits were issued.	Continue acting as agent of 1200C program. Review erosion and sediment control plans, and inspect 1200C sites.	Ongoing
Troutdale Development Code (TDC) Chapter 5.6	Enforce Chapter 5.6 of the TDC to effectively prohibit erosion of active construction sites <1 acre in size.	Ensure that 100% of construction projects <1 acre in size meet the requirements of TDC 5.6. Records of site development permits (which include erosion control requirements) are kept at the City's Community Development Department.	Number of site development permits issued	TDC 5.6 has been in effect for sites small than 5 acres (previous cutoff for NPDES 1200C coverage) for many years. Using this framework, the City can enforce construction site erosion control requirements on sites that are <1 acre in size. Requiring erosion control measures to be in place and functioning prevents the contamination of stormwater by soil erosion.	No changes proposed.	Seven (7) site development permits were issued.	Continue to implement erosion control standards. The technical requirements from TDC 5.600 are referenced to those in Chapter 12.09 of TMC and the most current edition of <i>Construction Standards for Public Works Facilities</i> .	Ongoing
Implement Chapter 17 of the TDC for all construction sites	Implement Chapter 17 of the TDC for all construction sites.	100% of construction sites will be inspected and erosion control violations will be addressed utilizing enforcement procedures provided in TDC Chapter 17. Records of erosion control code enforcement activities are kept at the City's Community Development Department.	Number of sites inspected Number of erosion control enforcement activities	Enforcement is needed to ensure that construction site operators are required to correct and cleanup violations of erosion control regulations that threaten stormwater quality. This TDC chapter provides the legal mechanism to enforce requirements presented in the two BMPs listed above.	No changes proposed.	Ten (10) initial inspections were performed followed by periodic site inspections. These are documented in the project file to provide technical assistance on an on-going basis. No formal enforcement action was taken by the City.	Continue inspection and enforcement activities.	Ongoing
Applicable Permit Requirement: Schedule A(4)(e) - Post-Construction Stormwater Management in New Development and Redevelopment								
Water Quality Design Requirements	Ensure that new and redevelopment projects, which create new impervious areas of substantial impact, provide water quality treatment for stormwater.	100% of new or redeveloped property, which create new impervious area of substantial impact, will include water quality treatment.	Acreage and land uses of new and redevelopment projects	Stormwater is a potential source of contamination to surface or groundwater. Installing water quality treatment into a stormwater system helps to remove pollutants.	No changes proposed.	20.08 acres of industrial, 2.68 acres of industrial, and 4.96 acres of industrial, 0.25 acre bank stabilization, 0.03 acre commercial, 2.44 commercial, approximately 0.9 acres residential	Review development applications/plans and require water quality facilities in accordance with City codes and standards for new developments. Update database as necessary.	Ongoing

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Water Quantity Design Requirements	Ensure that new and redevelopment projects, which create new impervious areas of substantial impact, provide water quantity treatment for stormwater.	100% of new or redeveloped property, which create new impervious area of substantial impact, will include water quantity treatment.	Number and type of water quantity facilities installed to comply with standards	The quantity of stormwater discharged from a new or redeveloped property in excess of the predevelopment rate can create problems in the downstream conveyance system. Controlling post development flows to mirror predevelopment flows helps to mitigate any problems associated with increased stormwater discharge.	No changes proposed.	Four (4) water quality swales and four (4) planters	Review development applications/plans and require water quantity facilities in accordance with City codes and standards for new developments. Update database as necessary.	Ongoing
Troutdale Development Code Water Quality Provisions	Ensure that water quality provisions listed in the Troutdale Development Code (TDC) are met by all new and redevelopment projects.	100% of new and redeveloped property will be designed in accordance with TDC water quality provisions.	Number and type of water quality facilities installed to comply with standards	Designing projects in accordance with the water quality provisions listed in the TDC helps to protect water quality by preventing development plans that have the potential to harm water quality.	No changes proposed.	Four (4) water quality swales and four (4) planters	Review development applications/plans and require water quality facilities in accordance with City codes and standards for new developments. Update database as necessary.	Ongoing
UIC Design Requirements	Ensure that new and redevelopment projects that propose the use of UICs for stormwater disposal will meet the requirements of the DEQ's UIC Rules.	100% of new or redeveloped projects that propose UICs for disposal of stormwater will be approved by the DEQ UIC Program prior to construction.	Number and type of redevelopment projects proposing disposal to UIC	The DEQ has drafted UIC Rules that are protective of groundwater resources. New or redeveloped projects that propose to dispose of stormwater via UICs should be designed to protect against potential contamination of groundwater resources. Designing projects in accordance with UIC Rules ensures that groundwater resources will be protected from stormwater contamination.	No changes proposed.	One (1) constructed at SW 14th and Hensley to address localized flooding.	Review development applications/plans and continue to work with DEQ and developers to have UICs Rule Authorized prior to issuance of a building permit for such systems.	Ongoing
Operations and Maintenance Requirements	Ensure that all newly constructed privately owned stormwater systems meet the operations and maintenance requirements presented in the Portland Stormwater Management Manual.	100% of new privately owned stormwater systems are required to administer an operations and maintenance plan to ensure adequate system performance.	Number of O&M Plans accepted by the City	Stormwater systems when not operated and maintained properly can be sources of contamination to stormwater. Properly operated and maintained stormwater systems are less likely to fail or result in the addition of pollutants to stormwater.	No changes proposed.	One (1) O&M plan	Review development applications/plans and require O/M plans meeting the PSWMM. Track number of O&M plans accepted by the City.	Ongoing
Stormwater Master Planning North Troutdale Master Plan	Plan for the orderly provision of storm drainage and flood prevention facilities within the North Troutdale drainage basin.				No changes proposed.	Ongoing TMDL and Capital Improvement Plan implementation. Projects from the North Troutdale Master Plan were not planned or constructed in 2017/18. The City received budget approval to update the plan, but the Sandy Drainage Improvement Company (SDIC) did not receive budget approval to fund effort to update master plan.	Implement BMPs identified in Sandy River TMDL Implementation Plan, as appropriate. Update of North Troutdale Master Plan has begun with discussions of SDIC.	Master Plan updated in February 2007; TMDL implementation ongoing.

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
South Troutdale Master Plan	Plan for the orderly provision of storm drainage and flood prevention facilities within the South Troutdale drainage basin.				No changes proposed.	Ongoing TMDL and Capital Improvement Plan implementation. Projects from the South Troutdale Master Plan were not planned or constructed in 2017/18.	Implement BMPs identified in Sandy River TMDL Implementation Plan, as appropriate. No projects from the South Troutdale Master Plan scheduled for 2018/19.	Master Plan updated in March 2012.
South Troutdale Road Storm Drainage Plan	Plan for the orderly provision of storm drainage facilities in the southernmost portion of the City's urban planning area that was not covered by the original South Troutdale Master Plan.				No changes proposed.	Development has not been proposed in this area.	Implement study with development, if any. Multnomah County Transportation working on drainage repairs at SE Stark St. and South Troutdale Rd that includes a new catch basin and storm sewer pipe.	Implementation of study with development.
Applicable Permit Requirement: Schedule A(4)(f) - Pollution Prevention in Municipal Operations								
Street Sweeping	Routine removal of debris prior to entry into the stormwater collection system.	All streets will be swept 6 times per year. Records of street sweeping operations will be kept at Multnomah County's Transportation Division.	Number of sweeps Curb miles swept Yards of debris removed	Street sweeping is an effective way to remove debris prior to it entering the stormwater collection system. The City contracts with Multnomah County for street sweeping operations.	Contract with Great Western Sweeping Inc. Records are kept on file at the City of Troutdale Public Works Shop. City changes from private contractor to Multnomah County for street sweeping services in October 2014.	Nine (9) all-City sweeps, plus spot sweeping by City for various reasons such as leaf removal in fall and sand/gravel removal in winter. 86.4 route miles, 44.20 center miles Approximately 150 cubic yards of material removed from street sweeping operations by NRC hauling company.	Sweep all City streets a minimum of (6) times.	Ongoing
Catch Basin Cleaning	Routine removal of accumulated debris from catch basin sumps.	All stormwater catch basin sumps will be cleaned one time per year. Records of catch basin cleaning will be kept at the City's Wastewater Services Division.	Number of Storm Basins cleaned Yards of debris removed	Stormwater catch basin sumps only function to remove debris if adequate space is available in the sump portion of the catch basin. Routine removal of debris from the sump area insures that adequate sump space is available for collection of debris carried by stormwater.	No changes proposed.	1139 catch basins cleaned. 21 cubic yards of material removed from the catch basins.	Clean all catch basins.	Ongoing
Catch Basin Labeling	Inform and educate residents at the point of entry to the storm system (catch basin) as to where it drains. Discourage illegal dumping.	Ensure that at least 95% of catch basins are labeled with either "No Dumping Drains to Groundwater" or "No Dumping Drains to Stream".	Number of labels installed relative to number of catch basins	Storm sewer system inlets have historically proven to be locations for illegal dumping of all types of pollutants. Labeling catch basins should act to heighten general resident awareness of the problem. Thermoplastic labeling was chosen over painting due to improved look and durability.	No changes proposed.	150 labels were replaced or installed at catch basins in the City.	Continue to replace damaged thermoplastic labels with DAS button style labels. Install DAS button style labels on all new catch basins (associated with new development) so that >95% of catch basins are labeled. Label new catch basins when installed.	Ongoing
Spill Response	Intercept and clean up spills prior to entry to the stormwater collection system.	Respond to 100% of reported or observed spills within 15 minutes. Records of reported spills and response activities will be kept at either the City of Troutdale's Public Works Management Department or the Gresham Fire and Emergency Services office.	Number of spills reported Response to spills	Intercepting and cleaning up spills prior to entry to the stormwater collection system prevents the discharge of these materials to the environment. Troutdale Public Works crews currently carry spill response equipment to intercept, contain, and clean up spills of pollutants during City business hours. Additionally, Gresham Fire/HAZMAT crews are currently under contract to perform spill response activities during non-business hours including weekends.	City employees only respond to spills caused by City employees of known materials. If first on a scene, and if safe to do so, Public Works crews can block drains as necessary to prevent entry into the City's stormwater system. The City will not track the number of spills reported to the emergency responders.	One (1) spill was reported on county road of NE Marine Drive and Sundial Road Fed Ex truck spilled diesel fuel on the ground of a County road, and NRC Environmental responded. City confirmed wattles were placed on the embankment and inline with the ditch adjacent to road.	Continue to respond to spills and provide clean up if it reaches jurisdictional stormwater system.	Ongoing

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Stockpile Management	Stockpile materials (i.e., sand, bark, mulch) without allowing any loss to the stormwater collection system.	All stockpiles and immediate downstream catch basins will be inspected twice a month to ensure that stockpiled material is not contributing sediments to the stormwater collection system. Records of stockpile observations will be kept at the City's Public Works Streets Division and Parks and Facilities Division.	Number of inspections	Loss of stockpiled material to the stormwater collection system creates a source of sediment contamination to stormwater. Preventing the loss of sediment from stockpiles to stormwater ensures that the City's stockpiles do not contribute to the degradation of stormwater.	No changes proposed.	78 inspections (1 location inspected weekly, 1 location inspected bi-weekly).	Continue inspections of stockpiles.	Ongoing
Debris Disposal	Dispose of collected debris (i.e., street sweepings, catch basin sediments) without allowing discharge into the stormwater collection system.	Collected debris will be disposed of in accordance with applicable solid waste regulations. Records of debris disposal will be kept at the City's Public Works Streets Division.	Yards of debris collected	Routine maintenance BMPs collect debris that need to be disposed of without being reintroduced to the stormwater collection system. Disposing of collected debris in accordance with applicable solid waste regulations will ensure that debris are disposed of correctly.	No changes proposed.	171 cubic yards of material was collected from street sweeping and catch basin operations.	Track amount of debris collected and disposed	Ongoing
			Yards of debris disposed			Approximately 171 cubic yards of material was disposed of.		
Drywell Cleaning	Routinely remove accumulated debris so that drywells have adequate space to collect stormwater.	100% of drywells will be inspected annually and all drywells that are more than 25% filled with debris will be cleaned. Records of drywell cleaning are kept at the City's Wastewater Services Division.	Number of drywells inspected	Drywells function to remove solids from stormwater prior to infiltrating the liquid portion of the influent. Routine removal of accumulated debris from drywells ensures that adequate space is available for collected stormwater to be temporarily stored during infiltration.	No changes proposed.	Four (4) drywells inspected, not all of them. City did not have enough staff to complete.	Inspect all drywells and clean drywells that are more than 25% filled with debris. Inspection of all drywells has begun for 2018-2019.	Ongoing
			Number of drywells cleaned			0 drywells cleaned. Cleaned as needed from		
			Yards of debris collected			0 cubic yards of material collected and disposed.		
Vehicle Maintenance	Routine maintenance of City vehicles to prolong life and prevent leaks of hazardous fluids.	100% of observed leaks will be repaired promptly. Records of vehicle maintenance are kept at the Public Works Shop, the Parks/Facilities Maintenance Shop, and the Police Department.		Regular maintenance of City vehicles not only prolongs the life of the City's assets; it also prevents the leaking of hazardous fluids commonly associated with the normal wear and tear of vehicles.	The City now contracts with Multnomah County Sheriff's office for police services. As such, all vehicle maintenance of those vehicles is handled by Multnomah County.	A monthly check of vehicle mileage and leaks is performed by Streets staff. Vehicles are serviced at 3,000 mile intervals and inspected for service issues by the City Mechanic at that time. Additionally, vehicle operators report issues to the City Mechanic outside of the routine maintenance schedule. The City has a vehicle replacement schedule of 12 years or 100,000 miles, dependent on budgeting and vehicle condition.	Continue to routinely maintain and replace vehicles.	Ongoing
Hazardous Material Storage	Use of covered and/or secondarily contained storage areas for hazardous materials to eliminate the inadvertent discharge of these materials.	100% of hazardous materials will be covered and/or secondarily contained.	Number of spills/leaks reported	The proper storage of hazardous materials is a standard maintenance practice that is part of the City's daily activities. Proper storage of collected hazardous wastes eliminates the potential discharge of hazardous wastes into the stormwater collection system.	No changes proposed.	No spills reported.	Routinely inspect hazardous material containers for leaks/spills.	Ongoing

BMP	Objective	Measurable Goal	Performance Tracker	Rationale for Chosen BMP	Proposed Changes	FY 2017/2018 Activities	FY 2018/2019 Plans	Implementation Timeline
Water Quality Facility Maintenance	Routine inspections and maintenance of water quality facilities to ensure proper function.	100% of the City's water quality facilities will be inspected annually and corrective actions will be taken as needed. Records of water quality facility inspections and maintenance will be kept at the City's Wastewater Services Division.	Number of facilities inspected	Water quality facilities need routine maintenance to function properly. Annual inspections and as needed maintenance will ensure that all water quality facilities are working effectively to remove stormwater pollutants.	No changes proposed.	87 storm filters were inspected.	Inspect facilities and maintain/repair as needed.	Ongoing
			Maintenance activities performed			Routine maintenance of structural facilities included vactoring the sediment from the facility and replacing filters as necessary. The Morgan Meadows and Lewellyn water quality facilities had vegetation cut back in October 2017.		
On-Call Sanitary Sewer Response	Promptly respond to sanitary sewer system alarms to prevent failure of any part of the system.	Promptly respond to sanitary sewer system alarms. Records of alarms and their associated responses will be kept at the City's Wastewater Services Division.	Number of alarms	Back ups in the sanitary sewer system that go unattended have the potential to contaminate the stormwater collection system. On call staff are available to respond to system failures that have the potential to contaminate the stormwater collection system.	No changes proposed.	78 alarms.	Promptly respond to sanitary sewer system alarms.	Ongoing
			Associated response			See sewer response report in Section 4.		
Herbicide Application	Apply herbicides in a manner that does not contaminate stormwater.	100% of herbicide application will be done in accordance with specific product labeling by licensed applicators.	Number of licensed applicators	Herbicides applied incorrectly to foliage have the chance to leach into and contaminate stormwater. Limiting and applying herbicides in accordance with product label directions ensures that leaching of herbicides to stormwater does not occur.	No changes proposed.	Four (4) Parks staff	Apply herbicide in compliance with state law. Discuss with parks Integrated Pest Management Systems and determine if needed.	Ongoing
			Gallons of concentrate herbicide applied per year			10 gallons of herbicide concentrate.		
Employee Training Program	Teach City staff about potential sources of stormwater contamination and ways to minimize the water quality impact of municipal activities.	Track Training Activities	Number of training events	To teach employees about stormwater management, potential sources of contaminants, and Best Management Practices.	No changes proposed.	One (1) training event, ACWA stormwater summit, and three (3) ACWA stormwater	Continue attending ACWA stormwater committee meetings, and ACWA's stormwater summit. Look for additional stormwater training, and offer training to Public Works field staff.	Ongoing
			Number of attendees			CESCL:Erosion and Sediment Control Lead Training (2 attendees); ACWA stormwater summit (2 attendees); ACWA stormwater meetings (1 attendee)		

City's Paving Project Gets Underway WILL YOUR STREET BE PAVED?

See our website for street lists and FAQs – get your questions answered before paving begins!

Public Works is planning a Pavement Preservation Project that will crack seal and slurry seal various streets in Troutdale this summer.

Cracks in the pavement allow water into the subgrade, weakening the pavement structure, allowing freeze-thaw damage, and preventing the pavement from spreading out vehicle loads. When unfilled, cracks lead to decay and structural failure of the pavement. Cracks open wider in the cooler months, but crack sealing requires decent weather, which is why it typically occurs in the spring and summer. To get to all the cracks on a street, the contractor will need full access to the entire pavement width. During this work, **there will be parking restrictions** that will allow the contractor to clean out cracks and then seal them with an asphalt crack sealant product.

As pavement ages you can see the color of the pavement surface fade to a lighter shade. What's actually happening is the asphalt binder (the black glue) is oxidizing. This oxidation changes the chemical properties of the asphalt. It becomes brittle, making it more susceptible to cracking and wearing away with exposure to the elements and traffic. As the asphalt binder wears away, the rocks that are in the pavement become exposed and come loose, unravelling the pavement surface. Slurry sealing interrupts that process by adding a layer of tiny rock and asphalt binder that creates a new wearing surface that prolongs the pavement life. To slurry seal a street, a contractor needs full access to prepare the street and then to apply the slurry. **Full street closures will be necessary, but will be planned in advance**

with notification. Once the area is prepared, the slurry seal can be applied relatively quickly, but can require several hours to cure before driving on it. Humidity, temperature, and precipitation can affect how the material dries, which is why this work is performed during the summer.

Applying these preservation treatments extends the life of asphalt pavements, and over the long term is a much more cost-effective approach than allowing pavements to degrade and then applying much more costly overlays, or rebuilding them entirely.

For more information, look to the City's website under Public Works – Current Projects, or call Public Works at 503-674-3300. Information will be updated on the website when it becomes available.

What You Need To Know

When will the project start and how long will it last?

Crack sealing is scheduled for June 26-July 10, and slurry sealing is scheduled to begin July 12-18.

(NOTE: THIS SCHEDULE IS SUBJECT TO CHANGE due to weather conditions and other issues that tend to follow construction projects. You will find the latest up-to-date schedule on our website at www.troutdaleoregon.gov/publicworks/currentprojects.html)

How can I find out if my street will be crack or slurry-sealed?

There are lists on the homepage of our website – look for these under “2017 Pavement Preservation Project” – you'll see ‘Crack Seal Street List’ or ‘Slurry Seal Street List’ – plus lots more information!

What kind of notification will I get?

The City will mail notification letters to residents prior to construction, and the contractor will give door hanger notification 48 hours in advance - along with street sign notifications at least 24 hours in advance for no parking areas, etc.

Will I have to park away from my house?

If you'll need access to your vehicle, you'll have to park off the street scheduled for work (if you are parked in your driveway and work has begun, you will have to wait until such time that the street closure is lifted by the contractor).

How soon can I drive on the pavement?

This is dependent on many factors, but *generally* speaking around 4 hours after application. This will be determined by the contractor-they will keep road closures / detour signs up until the road is drivable.

Who can I call if there's an issue?

Contact Erik R. Henricksen, Engineering Associate/Project Manager at 503-674-7240.

New hours for Troutdale Building and Planning divisions

In an effort to better serve building contractors who frequently require services early in the morning, the Community Development Department office at 2200 SW 18th Way has shifted its hours of operation to the following schedule, effective on July 1st:

- Monday – Thursday: 7:30 a.m. to 5:00 p.m.
- Friday: 7:30 a.m. to 2:30 p.m.

Community Development encompasses both the planning and building divisions for Troutdale. The department is responsible for permit issuance, plan review, and inspections.

Micro Beads, Micro Plastics, the Environment ...and You



Did you know that when you wash your favorite fleece jacket or other synthetic fiber garment, it can release a minimum of 1900 microfibers into the wash? Do you wonder why that's important to know? Those tiny little Micro beads that may be in your favorite bodywash have been banned by the US EPA starting in 2017. But it may be that microfibers pose an even more insidious threat to the environment. The main concern is ingestion by wildlife, which may lead to digestive blockages or starvation. But chemicals leaching from the plastic particles are also a concern. And while this emerging concern is still being studied, you might wonder, “What can I do?”

Here are some ideas: Top loading washing machines release five times more microfibers than front loading machines. And when you have a choice, consider natural fiber clothing instead of synthetic. Finally, look around at the products in your home that may end up in the sewer or stormwater system and consider natural alternatives where possible – baking soda is a great exfoliator! It may be a little bit for you, but when multiplied by the thousands of households in Troutdale, it all adds up to fewer micro particles in our water – and that's a good thing.

Our 2016 Water Quality Report is Available Now



This state-required yearly report gives the citizens of Troutdale important facts concerning Troutdale's water supply. **The report is available for viewing on our website at the following URL: <http://troutdale.info/ccr.pdf>**

Printed copies of the 2016 Water Quality Report are available in the City Hall reception area and at the Public Works Shop, located at 342 SW 4th Avenue. If you would like a copy mailed or e-mailed directly to you, please e-mail tina.leahy@troutdaleoregon.gov, or call 503-674-3300.

AMR River Rescue Lifeguards: The lengths they go to keep you safe



Long before you arrive at Glenn Otto Park for an afternoon of fun, American Medical Response (AMR) River Rescue technicians have been hard at work conducting a hazard assessment of the Sandy River for your safety. Each morning two or more lifeguards head upriver a quarter mile and swim down - checking water currents and temperature, and looking for hazards like snags under water that could trap a swimmer, or above-ground hazards such as fallen trees and debris, etc. They then post the information along with water temperature and speed for visitors to see when they enter the park.

Drownings are largely preventable if the swimmer is wearing a lifejacket. Last year AMR lifeguards pulled 129 people out of the water at Glenn Otto Park, and only 7 were wearing a lifejacket. Everyone, no matter their age, should be wearing a life jacket that fits properly. If you forget to bring yours, loaner lifejackets are available at the Park.

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The West Columbia Gorge Chamber of Commerce & Visitor Center and City of Troutdale will host the 3rd Annual Fall Festival of the Arts on Saturday, September 23rd from 10:30 a.m. until 5 p.m., and Sunday, September 24th from 10:30 a.m. until 4 p.m. This two-day juried art event will feature dozens of fine art booths, a student art display, live music, local foods, craft beer and wine.

Featured artists:

- | | |
|-------------------|-------------------|
| Heather Adriance | Greta Latchford |
| Peggy Anton | Veronique Loggins |
| Leo Atkinson | Robert MacGinnis |
| Michelle Bigelow | Amy Machesic |
| Rebecca Brochu | Marie Maestas |
| Kayla Burke | Lary McKee |
| Suzanne Buttice | Mary Parkes |
| Barbara Buttler | Hailey Schofield |
| Nicole Curcio | Pam Sharp |
| Noelle Dass | Denise Spaman |
| Phyllis Flury | Cyndee Starr |
| Christian Gabriel | John Trax |
| Trina Gratix | Linda Wagner |
| Kathleen Hovis | Jerilyn Walker |
| Jim Jaillet | Heather Wells |
| Mitzi Kugler | Kandyse Whitney |
| Jim Kunz | Zaliah Zalkind |

Art students from Reynolds High School will be displaying and selling their work and a portion of proceeds will benefit Advocates for Life Skills and Opportunities (ALSO), see www.alsoweb.org. **Live music** will feature three bands: *Swingali*, *Dale E. Miller*, and *No Time 2 Lose*, and performances will continue throughout each day.

Would you like to volunteer to help with this great event? Go to www.fallfestivalofthearts.com and sign up. This is a great opportunity to serve your local community!

Thanks to our presenting sponsor Weston Buick Kia GMC, as well as Port of Portland, US Bank, Suburban Ford, Employers Overload, Merlo and OnPoint Community Credit Union for making this arts and culture event possible.

For more information:

West Columbia Gorge Chamber of Commerce
 107 E. Historic Columbia River Hwy.
 Phone: 503-669-7473
 Email: info@westcolumbiagorgechamber.com
 Website: www.fallfestivalofthearts.com



like this t-shirt?

Jim Kunz, the artist who designed the artwork for Fall Festival of the Arts, is modeling the shirt in this photo! Get it for \$20 at the Festival or go to the Chamber office at 107 East Historic Columbia River Highway.

MAYOR'S COLORING CONTEST!

In early June, over 100 Troutdale first-graders entered Mayor Casey Ryan's Coloring Contest, which entailed dressing our City logo in living color. Mayor Ryan and City Council members selected the top three winners and awarded them each a City Certificate, gift card, plus a free ride with the Multnomah County Sheriff's Office River Patrol. From left is **Hailey Harrison**, **Malina Montiel**, and **David Cosden**. Behind them, from left, is City Councilor Glenn White and Mayor Casey Ryan.

As you can see, Hailey and Malina went bold and bright, while David's masterpiece is more muted in warm hues of blue. These three talented artists will be entering the 2nd grade in just a few weeks. Congratulations Malina, Hailey and David!



Photo courtesy Josh Kulla, Gresham Outlook

Say Farewell to Troutdale Elementary School

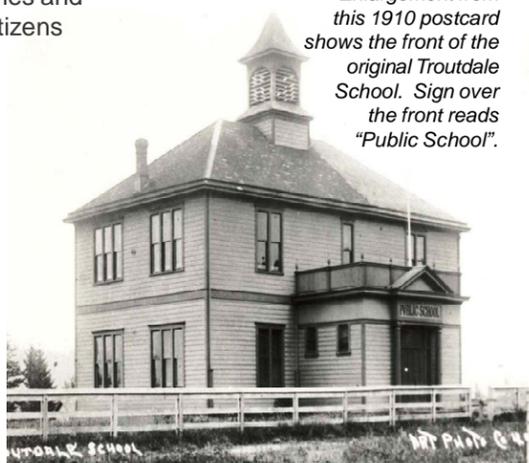
The *School Celebration Committee** will be hosting three farewell open houses for the soon-to-be demolished Troutdale, Fairview and Wilkes elementary schools. The events are open to the public and we encourage all current and former students, teachers, staff and their families to come say goodbye to these pillars of our community. Date and times are as follows:

- Sunday, October 15 ■ Troutdale Elementary, 2–3:30 p.m.
- Sunday, October 15 ■ Fairview Elementary, 10–11:30 a.m.
- Sunday, October 15 ■ Wilkes Elementary, Noon–1:30 p.m.

These gatherings will honor and capture memories, highlight stories and memorabilia, plus get citizens excited about the new buildings to come.

Please help spread the word to classmates and others who attended one or more of these schools. Come out this fall to celebrate your school! Refreshments will be provided.

If you'd like to volunteer, or just have a question, call 503-618-0946 or 503-661-2164, or email celebrateyourschool@gmail.com.



Enlargement from this 1910 postcard shows the front of the original Troutdale School. Sign over the front reads "Public School".

Photo courtesy of Troutdale Historical Society

* *The School Celebration Committee* is made up of teachers, alumni, the Reynolds School District, and two local historical societies — East County Historical Organization (ECHO) and Troutdale Historical Society.

Creating Healthy Communities through Three Free Sustainable Landscaping Workshops

Looking to dig up fresh ideas for your garden? The City of Troutdale is hosting three workshops in October so you can learn to make your yard a beautiful haven of sustainable urban habitat. Brought to you by East Multnomah Soil & Water Conservation District, these **FREE** workshops will show you how to create low-maintenance, low cost landscapes that conserve water, prevent pollution and create healthy habitat for local birds & wildlife. All workshops are free and open to everyone. Space is limited and **pre-registration is required**, so register today at www.emswcd.org, or call 503-222-7645. *Each workshop will be held at the Multnomah County Sheriff's Office/Troutdale Police Community Center, located at 234 SW Kendall Court in Troutdale.*

Beneficial Insects

Sunday, October 8 • 1 - 3:30 p.m.
 Meet the beetles, bugs, flies, lacewings and other invertebrates that provide free pest control. You will discover ways to attract and sustain these friendly beneficial insects that help your garden thrive, and also learn about a few invasive insects to keep an eye out for.



GREEN LACEWING

Attracting Pollinators to the Urban Garden

Sunday, October 15 • 1 - 3:30 p.m.
 Learn about the bees, flies, beetles, moths and butterflies that provide vital pollination services in urban gardens, and discover which plants can help attract and support them.



PIPEVINE SWALLOWTAIL

Urban Weeds

Thursday, October 26 • 6 - 8:30 p.m.
 Come learn about the most common garden and landscape weeds. You'll find out how these aggressive plants take over in your yard, and get tips that will help you get the upper hand without turning to synthetic herbicides.



BROADLEAF DOCK

THE TINY LIBRARIES THAT PROMOTE LITERACY - AND COMMUNITY

Ever heard the term 'Little Free Libraries' (LFLs), those small bird-house-looking structures? You may have even seen one around the City? There are actually several here in Troutdale ...at Sunrise Park, Kiku Park, and others are scattered throughout Troutdale neighborhoods.

What exactly are these LFLs and how do they work? Zach Hudson, a Reynolds High School teacher (and Troutdale City Councilor), and his wife are enthusiastic proponents of Little Free Libraries: "There are no rules, really, for LFLs," explains Hudson. "People may take books or leave books; they can keep the books or return them. It's up to each individual to decide how to use it. That's the beauty of it. In fact, there is a Little Free Library organization that registers LFLs, but it's not required. There is no organized program. Anyone can build and install a Little Free Library, and anyone can participate."

For information about how to go about placing a library in your community, go to: littlefreelibrary.org. They have an excellent 5-Step process for starting a Little Free Library.

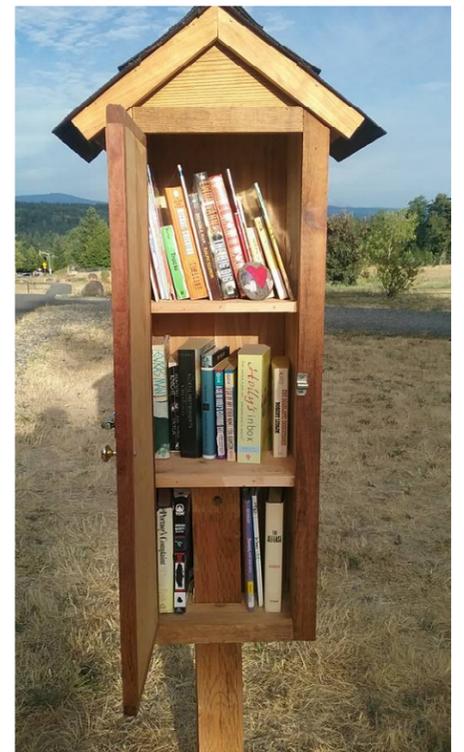
Little Free Libraries are a fairly new phenomenon. The first known library was built in 2009 by a Wisconsin man as a tribute to his mother, a schoolteacher. Since then, more than 50,000 have been registered worldwide by littlefreelibrary.org, and many more unregistered libraries exist.

Hudson raised the idea to get Reynolds High School involved building more libraries so that more members of our community would have access to books. Reynolds teachers Erich Schneider (woodworking) and Bonnie Rulli (art) teamed up to respond to Hudson's challenge. Over the course of a year Reynolds students built and painted a dozen of the structures, while Zach and his wife found homes for them. "With the permission of the City of Troutdale, we put one up at Kiku Park," said Zach. Occasionally I stop by to rotate and restock the books there, and at the Sunrise Park Library too. Other structures are located in the front yards of Troutdale residents."

The Hudson's got their Little Free Library as a giveaway through STRYVE, a project of the Multnomah County Health Department. "One of the things I love about the libraries is how artistic and individual they can be. We had a lot of fun painting our own. We try to stock a variety of subject matter for the various age ranges so that anyone can find something interesting to take home."

So next time you see one of these little community libraries, check it out. And bring your kids - and some books - with you.

Thinking of placing a LFL within the City limits? Be sure to call City Hall at 503-665-5175 before you take any action. There may be a few requirements including obtaining permission to place your library if you are not the property owner. Also, you'll likely need a utility locate (free service) before you dig a hole for the post. For more information about little free libraries, go to www.littlefreelibrary.org.



The Little Free Library at Sunrise Park

The concept of Little Free Libraries: Take a book, leave a book

Plant Native Plants for Clean Water & Healthy Habitat!

Three free workshops plus a giant plant sale – all coming in January

When it rains in forests and natural areas, rainfall seeps into the ground slowly, and gradually makes its way into local streams, where it flows cool and clean. In urban areas, the scene is very different with many more hard surfaces like roads, parking lots, and roof-tops, etc. These impervious surfaces prevent rainfall from seeping into the ground naturally. Instead, stormwater travels quickly over these surfaces and picks up pollutants (automobile oil, brake dust) along the way. Most of this polluted stormwater then flows into storm drains, and goes directly into local waterways, which is unhealthy for fish, wildlife, and people.

You can help minimize the impact of urban stormwater runoff by planting native trees and shrubs, and by capturing stormwater with a rain garden! Stormwater that soaks into vegetated rain gardens and swales is filtered by the soil and plants, and then released slowly into streams as nature intended. Native plants are a great choice because they are adapted to local pests, diseases, and our climate, so they thrive without chemicals or extra fertilizers.

Curious about Stormwater and Rain Gardens?

Look for workshops hosted right here in Troutdale offered by East Multnomah Soil and Water Conservation District (EMSWCD) with information on rain garden installation, naturoscaping, and native plants!

Interested in Native Plants for Your Yard?

EMSWCD's annual, bare-root Native Plant Sale offers over 40 species of native trees and shrubs at wholesale prices. At just \$3 each, it is a great way to fill your yard with beautiful, climate appropriate plants.

How it works:

The online sale opens on January 17th. Customers browse the online store for plant details and characteristics, making it easy to choose the right plant for the right place. After placing their online order, customers

pick up their plants at the EMSWCD office on Saturday, February 17th. Until then, visit EMSWCD's [Native Plant Sale Page](#), where you'll find answers to the most common Plant Sale questions, and information about the plants that will be for sale.

Free Native Plant Workshops:

There will also be three **FREE** workshops that highlight the species that are available for purchase. Workshops are scheduled January 10, 11, & 13th at the EMSWCD office in North Portland. Registration opens in early January. For more information contact katie@emswcd.org.

To receive information about the 2018 Plant Sale, workshops, and more, join EMSWCD's email list at www.emswcd.org/subscribe.

From the Corner of Reduce, Reuse, and Recycle



Winter is officially here. New

Year resolutions still sound like a good idea. And the football calendar is reaching a crescendo. Sounds like a good time to focus on the dining table. According to Metro, nearly one fifth of the garbage generated in the region is food waste that ends up in landfills. On a national scale, estimates are 20 percent of the food we buy never gets eaten. Think of it as putting a twenty dollar bill into your garbage bin every week per 100 dollars spent on food. It also amounts to a lot of resources that have gone unutilized from the cradle to the grave for food.

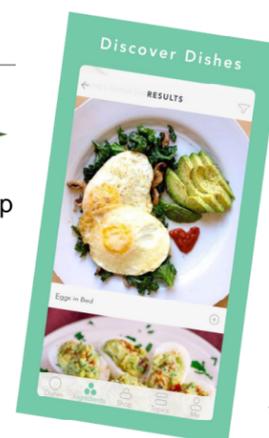
How to use every bit of the food you buy

Meal planning is an important tool to help reduce food waste. Just as technology has allowed us to become music disc jockeys, think of creating a list of meals considered your greatest hits. Put those on a weekly or bi-weekly rotation, then fill in the meal gaps. The website savethefood.com specializes in helping to reduce food waste. One useful tool on the website for large (or small) gatherings is the **Guest-Imator** (www.savethefood.com/guestimator/quests). It assists with meal portion estimates, and calculates how much food to purchase taking into consideration how much or how little leftovers you want.

Another fun tool is the app **Handpick**. Soups, casseroles and salads are great catch-all dishes for those odds and ends in the fridge or freezer that need to be used. Looking for more ideas than those steadfast options?

The app allows you to pick a single ingredient and it will generate a curated thread of dishes from food blogs to recipe sites.

Canning remains a great option for food preservation, but the freezer is a terrific tool for food waste prevention. If food is on the verge of spoilage, toss it in the freezer and attend to it when you have the time.



Virtually any food can be frozen for a period of time to extend its life.

After the shopping and unpacking is done, don't forget to dispose of plastic film, such as wraps, bags and flexible packaging, properly. Visit the website of the national public awareness and outreach initiative called **Wrap Recycling Action Program (WRAP)** to find out where you can recycle plastic film (www.plasticfilmrecycling.org/recycling-bags-and-wraps/find-drop-off-location/). Remember to check **Waste Management's** website for curbside recycling guidelines (www.wmnorthwest.com/troutdale/recycling.html).



Water Pollution Control Facility

Beeper Calls



Date	Time	Operator	Station/Location	Comments
21 July 17	0550-0335 0530-0533	Noel	PS 3	Low Level, Overflow
26 July 17	0520	Noel	PS 9	com. fail
8-10-17	3:00 AM	SA	PS 5	com. fail
8-22-17	4:30 am 6:15 pm 6:30 pm	KIK	PS 9	Comm. fail
8-28-17	16:45	H.F.	WPCF	PLANT GENERATOR FAIL DURING EMERGENCY EVENT; RE-START EQUIP.
31 Aug. 01 Sept.	0300	Noel	WPCF	TWICE BLOWER 3 failed
31 Aug	0450 0502 0540	Noel	PS 9	PS 9 com fail
02 Sept	0027	Noel	PS 9	Comm. fail
03 Sept	1830	Noel	IMAGINATION STATION	911 call out for TOILET plugged
9-6-17	8:30 pm	KIK	Emergency locate	3617 SE Harlow Ct.
9-9-17	12 pm	KIK	Emergency locate	1225 SW Autumn Way.
9-16-17	11 am	TS	#1	High Level, compressor fail, old one on line
10-2-17	5:45 pm	SA	Emergency locate	

Water Pollution Control Facility

Beeper Calls



Date	Time	Operator	Station/Location	Comments
5-31-18	5:30 pm	KK	#7 station	Low level
6-2-18	6:30 am	KK	Plant	Restarted boiler
6-2-18	2:00 pm	KK	Plant	Restarted boiler
6-4-18	9:00 pm	KK	SCADA #2	wigged out, multiple alarms.
6-9-18	6 pm	TJ	#6	com fail.
6-11-18	10 pm-1 am	TJ	#10	com fail.
6-14-18	22:03	H.F.	STA. 10	COMM. FAIL - SCR. CONNECT
6-17-18	19:10	H.F.	STA. 6	" "
6-17-18	20:15	H.F.	STA. 6	" "
6-17-18	20:35	H.F.	STA. 6	" "
6-18-18	01:56	H.F.	STA. 6	" "
6-24-	5:00 pm	TJ	Lab. TC	1328 SW 24th,
7-16-18	21:45 22:54	H.F.	STA. 10	COMM. FAIL; 2X

Water Pollution Control Facility Beeper Calls



Date	Time	Operator	Station/Location	Comments
08 June	19:20	ND	P.S. 2	LOW LEVEL MONITORED w/phone
09 June	17:23	ND	DIGESTER 1	HIGH LEVEL D.S. 1 failed mon. w/phone
14 June	04:20	ND	P.S. 1	com fail MONITORED w/phone
6-19-17	00:50	H.F.	STA.#1	COM.FAIL, SCR. CONN.
6-19-17	01:50	H.F.	STA.#1	COM.FAIL, " "
6-19-17	02:11	H.F.	STA.#1	COM.FAIL, " ", DISABLED
6-19-17	16:58	H.F.	STA.#10	COM.FAIL, " "
6-19-17	19:25	H.F.	STA.#9, #10	PER G.M., CK. BOTH W. WELLS, SCADA
6-19-17	21:32	H.F.	STA.#1	PUMPS LOST PRIME
6-20-17	03:30	H.F.	STA.#6	COM.FAIL
7-14-17	17:30	H.F.	STA.#9	COM.FAIL, SCR. CONN.
7-16-17	22:20	H.F.	S.E. 19TH	STREET SINK HOLE
17 July 17	1635-1649 1707	ND	PS 9	Com fail

Water Pollution Control Facility

Beeper Calls



Date	Time	Operator	Station/Location	Comments
10-5-17	21:45	H.F.	P.S.#9	COMM. FAIL - SCR. CONNECT
17 Oct. 17	1705 to 1900	ND	P.S. 5	mult. call outs OVERFLOW alarm
11-10-17	12:00	H.F.	W.P.C.F.	barscreen mtr. diater failed; RTR by Eric G.
11-11-17	13:30	H.F.	1960 MARINE DRIVE	EMERGENCY LOCATE
12-8-17	21:15	H.F.	P.S.#5	OVERFLOW FLOAT
25 Dec. 17	0317	ND	P.S. 9	Comm. fail
12/27/17	7:00pm	TS	PS #1	Low Level, E
12/28/17	2:20	TS	PS #9	Low Level, E
12/28/17	7:15pm	TS	327 SE Sweetwood Lane	CB Plugged.
1-22-18	00:21	H.F.	P.S.#3	LOW LEVEL ALARM, SCR. CONN.
1-14-18	10:45 am	KK	PS #9	Low level, SCR conn.
2-15-18	6:45 pm 7:05 pm 7:15 pm	KK	PS #1	Comms fail.
2-15-18	10:45 pm 11:15 pm	KK	PS #9	comms fail.

Water Pollution Control Facility Beeper Calls

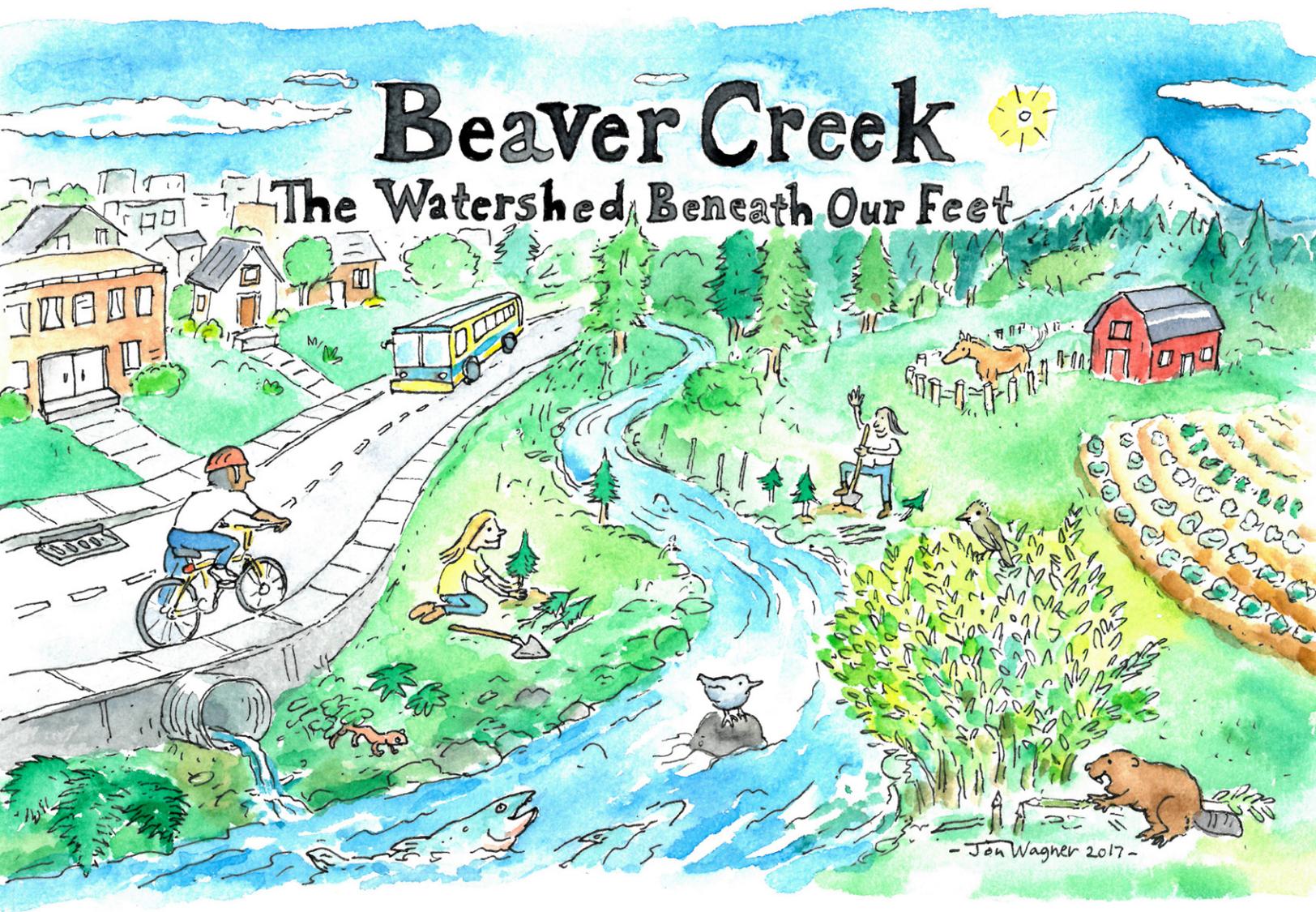


Date	Time	Operator	Station/Location	Comments
2-19-18	8:15 pm	KK	DIGESTER	HIGH COMBUSTIBLES ALARM
2-22-18	20:32	H.F.	WPCF	HIGH COMBUSTIBLE ALARM, DIGESTER - SCR. CONNECT
2-24-18	18:15	H.F.	PTA	COMM. FAIL - SCR. CONNECT
2-25-18	00:15	H.F.	WPCF	BOILER FAIL
2-26-18	00:34	H.F.	PTA	COMM. FAIL - SCR. CONNECT
2-26-18	01:40	H.F.	PTA	COMM. FAIL - SCR. CONNECT
2-26-18	02:49	H.F.	PTA	COMM. FAIL - SCR. - CONNECT
02 MAR 18	0706	ND	SUNDIAL	mult callouts - low level
04 MAR 18	1330	ND	PTA	High level / over flow
06 MAR 18	0448	ND	Plant	high Combustible
3/9/2018	8 pm	TS	#7	low level.
3-30-18	20:18	H.F.	P.S.#3	LOW LEVEL ALARM, SCR. CONN.
4-8-18	8:30 am	KK	P.S.#5	overflow alarm.
4-13-18	5:30	TS	5225T 139	CD's with no lids. found lids replaced

Water Pollution Control Facility Beeper Calls



Date	Time	Operator	Station/Location	Comments
25 April	2029 2139	N	PS 9 COMM- FAIL	USED SCREEN CONNECT
26 April	2156	N	PS 9 COM FAIL	 + CELL phone for LOCATE NOTICE
29 April	1828	N	PS 2 LOW LEVEL COM. FAIL	
30 April	2136	N	PS. 9 COM FAIL	
01 May	2134	N	P.S. 9 COM FAIL	
02 May	1633 2027	N	PS 9 COM FAIL PS 9 COM FAIL + LOCATE NOTICE	
03 May	2136	N	PS 2 LOW LEVEL	
06 May	1929	N	Plant POWER FAIL	RESET all 3 blowers
07 May	2055 2111 2134	N	P.S. 9 COMM FAIL	
5/16/18	8:30am	TS	PS #2	pumps on no water.
5/17	4:40am	TS	PS #2	" " " "
5/17	9:10pm	TS	PS #9	COM fail.
5/20	8:00 am	TS	PS #3	low level.



Learn About Your Creek!

Beaver Creek starts as a spring near Dodge Park Blvd, and flows through farms and nurseries. It passes by houses in Gresham and Troutdale where smaller creeks, like Kelly Creek, flow into it. The creek then empties into the Sandy River near Glenn Otto Park.

The Beaver Creek watershed is the area of land where rain water flows towards the creek. It is home to **salmon, salamanders, herons, eagles, otters, lamprey, people**, and much more.

Read more inside about the watershed, who lives in it, and what you can do to keep it healthy.

In the Water

Who Lives Here?

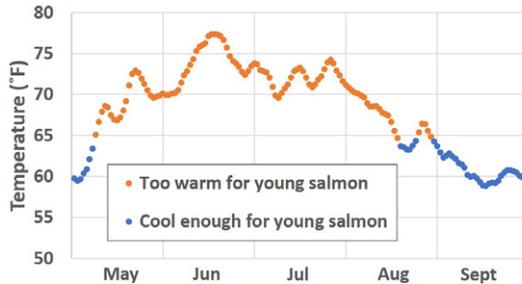


Endangered baby Coho salmon and rainbow trout live in the creek.

Did you know that salmon live in Beaver Creek? Coho and Chinook salmon, rainbow trout, and 10 other native fish species live in the creek. Beaver also live throughout the creek. Their ponds make good hiding places for young fish.

Concerns

Salmon still spawn in the creek, but there are fewer than before. Today they face many threats to their survival. The water is too warm in summer. Fertilizers and pesticides from lawns and metals and oil from cars wash into the creek when it rains. Many road crossings block salmon from returning home to spawn.



Beaver Creek Water Temperature at Glenn Otto Park in the Summer of 2015

Getting Home



Top: Culvert blocks salmon trying to get home. Bottom: Bridge allows salmon to swim through.

Salmon are born in creeks and return to the same creek to lay their eggs after spending a few years in the ocean. **Small culverts block salmon from getting home.** Projects to replace small culverts will occur at Stark Street, Kane Road, and Cochran Road.

What You Can Do

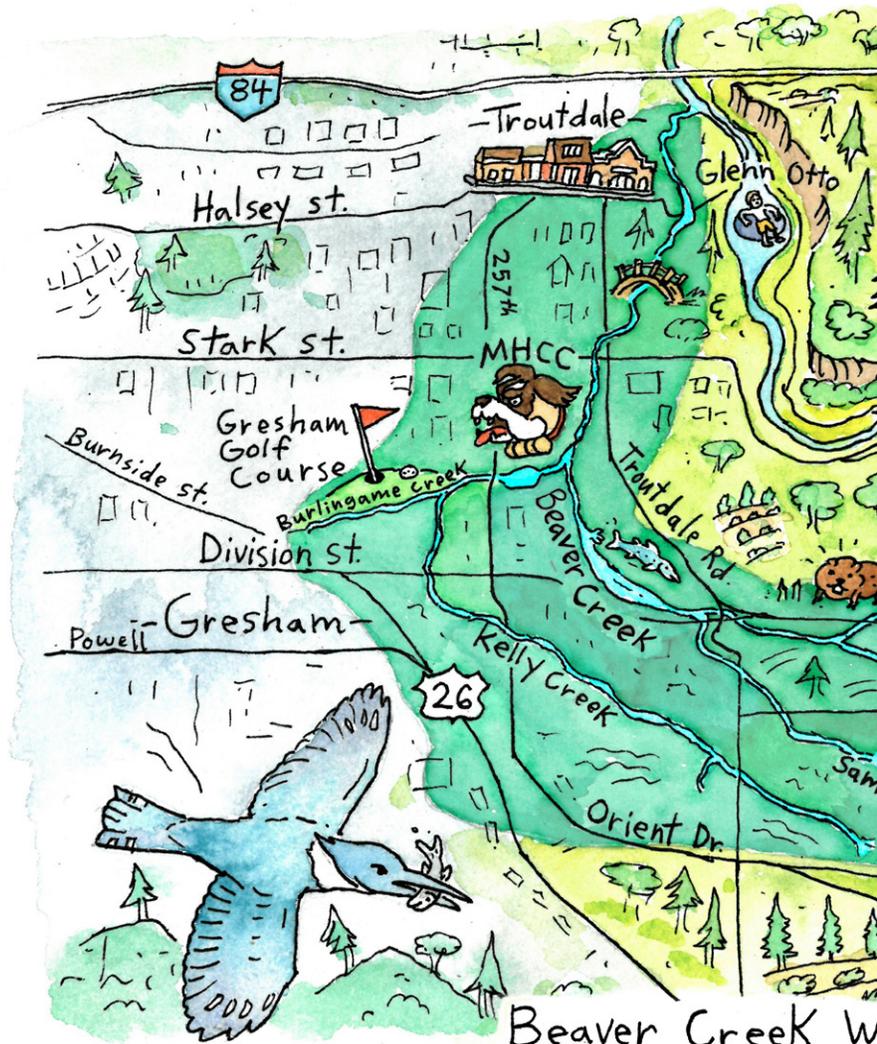


Planting trees and shrubs along creeks helps fish.

» Plant native plants in your yard to reduce the need for fertilizers and pesticides that may wash into the creek: emswcd.org/native-plant-database/

» Remove invasive weeds along creeks to make room for native trees that provide shade to cool the creek and lower vegetation that helps filter pollutants: emswcd.org/weeds

Illustrations by Jon Wagner



On the Land

Who Lives Here?



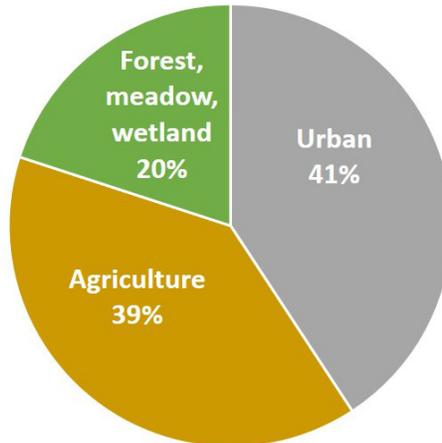
Caz Zyvatkauskas

Oregon Slender Salamander near Kelly Creek.

Spectacular animals live in the Beaver Creek watershed, such as the Oregon Slender Salamanders discovered here in 2012. This was surprising because they were not known outside of the Cascade Mountains. These rare animals live under leaves and logs, and may never move more than a few feet in their entire lives.

Concerns

The watershed still has habitat for animals in the form of forests, wetlands, and meadows, but 80% is now made up of cities and farms. The remaining habitats are smaller and not connected to each other. This makes it harder for animals to live in the watershed.



Land Use in the Beaver Creek Watershed

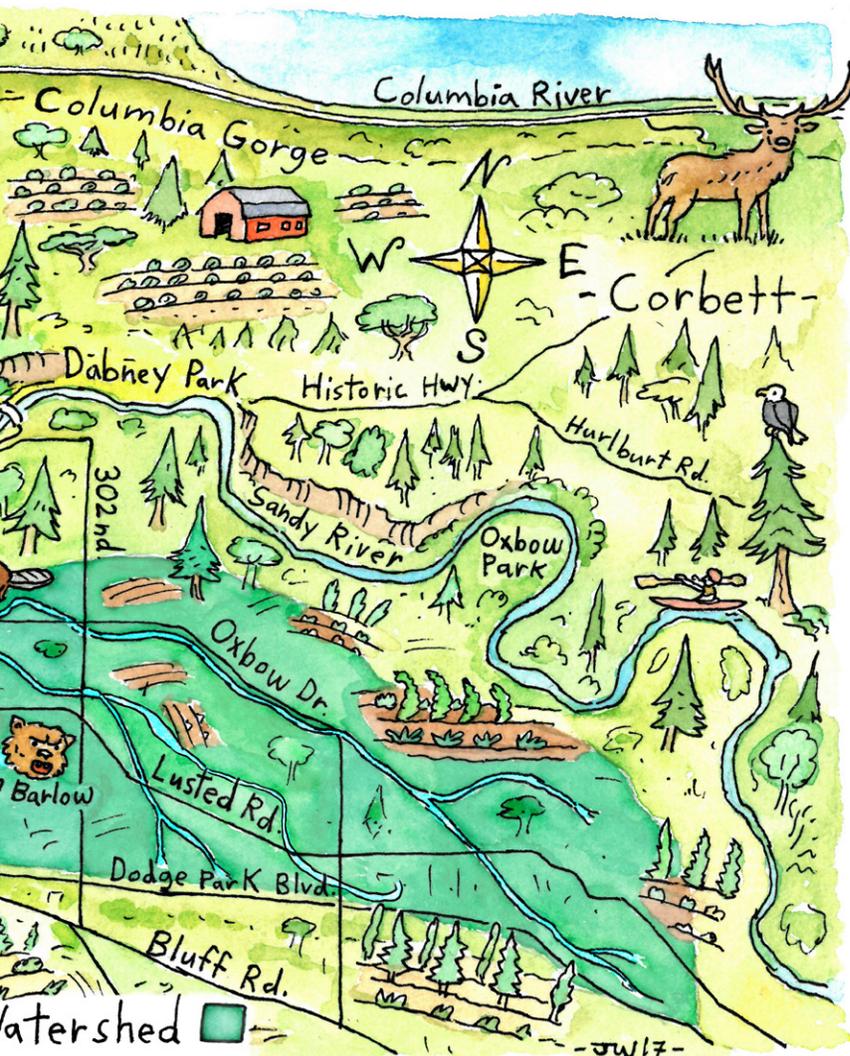
Getting Greener



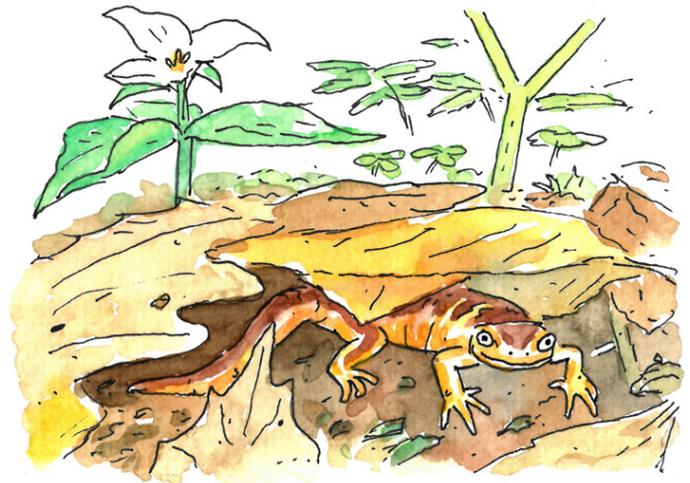
Volunteers planting native trees.

StreamCare is a free program that replaces weeds along creeks with native plants. This improves creek-side habitat that is home to insects, birds, and wildlife. The plants help prevent erosion and increase shade to cool the creek for fish. 35% of landowners along Beaver Creek have already participated in StreamCare!

Learn more: emswcd.org/streamcare



What You Can Do



You can help connect habitat patches in your yard and in your community.

- » Keep some leaves on the ground in the fall for salamanders and other critters.
 - » Plant native flowers and berries to attract butterflies and birds to your yard.
 - » Install nesting boxes for bats and birds to bring wildlife to your area.
 - » Become a volunteer with the Sandy River Watershed Council to help Beaver Creek!
- sandyriver.org

In Our Community

Who Lives Here?

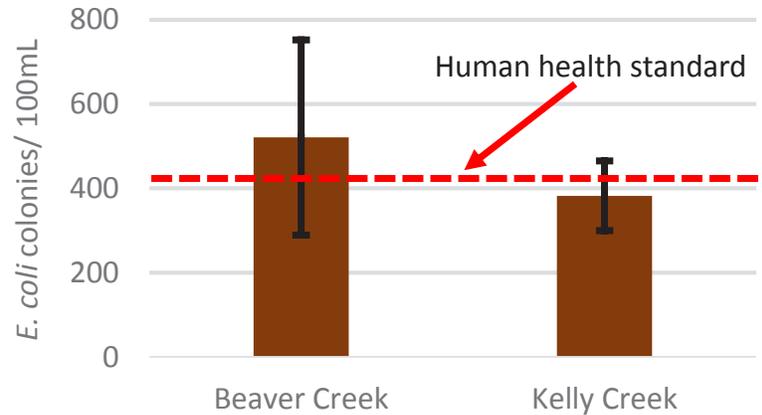


Students learn about Beaver Creek where it joins with Kelly Creek.

People have been part of the ecology of Beaver Creek since Native Americans first fished, hunted, and foraged along the creek. Today about 65,000 people from many cultures live in the watershed. The Sandy River Watershed Council works to improve watershed health and helps you connect with your creek!

Follow them on Facebook and Instagram @sandywatershed

Concerns



Average bacteria levels in Beaver and Kelly Creek 2012-2017

Too much bacteria in creeks can make people sick if they drink it. It can also cause skin rashes with contact. Wastes from wildlife are natural sources of bacteria. In forests and meadows, rain soaks into the soil before reaching the creek, filtering bacteria. Rain washing off sidewalks and streets carries bacteria directly into the creek. Always pick up after your pet, maintain your septic tank, and manage farm animal waste to reduce harmful sources of bacteria.

Getting Cleaner



Left: Depave volunteers remove pavement from parking lot. Right: They replaced it with plants that filter pollutants out of rain as it runs off the lot.

Local groups are working hard to improve Beaver Creek's health. Cities build rain gardens on streets to capture and filter pollution from cars. This cleans runoff before it enters the creek. Mt. Hood Community College is working on a campus improvement project to install rain gardens. This will help the 57-acre campus maintain their Salmon Safe certification.

What You Can Do



Get to know your local creek!

- » Take and share nature pictures, #beavercreeksandy
- » Walk along the greenway trail (across from Weedon Park) or the Mt. Hood Community College trail (from the pond)
- » View salmon from the bridge at Glenn Otto Park
- » Visit the interpretive sign at College Nature Park
- » Learn how to access the creek: sandyriver.org/beavercreek

