

| Tualatin River WC Work Plan for 07/01/2015 - 06/30/2017 |   |
|---|---|
| Date Adopted  |   |
| Watershed Limiting Factor(s)                            | Habitat Access - Impaired access to habitat; Hydrograph/water quantity - Altered hydrology; Knowledge Gaps - Lack of Information; Physical habitat quality - Altered quality of physical habitat; Water Quality -Altered physical, chemical, or biological water characteristics.   |
| Watershed Source Document(s)                            | Tualatin River Watershed Technical Supplement (1998)<br>Gales Creek Watershed Assessment (1998)<br>Dairy-McKay Watershed Analysis (1999)<br>Upper Tualatin-Scoggins Watershed Analysis (2000)<br>Middle Tualatin-Rock Creek Watershed Analysis (2001)<br>Lower Tualatin Watershed Analysis (2001)<br>Lower Gales Creek Habitat Enhancement Plan (2003)<br>Lower Gales Creek Enhancement Planning Geomorphic Assessment, Technical Study, (2006)<br>Lower Gales Creek Enhancement Plan Knotweed and Ivy Mapping and Report (2006)<br>Gales Creek Large Woody Debris Inventory Report (2006)<br>Tualatin Basin stream matrix (2006)<br>Evaluation of removal of selected road fills and adding large wood to West Fork Dairy Creek (2007)<br>Willamette Basin Restoration Priorities (2005) |
| Organizational Limiting Factor(s)                       | Board capacity development; Board skill development; Lack of Knowledge; Staff capacity development; Training  |
| Organizational Source Document(s)                       | TRWC Vision (1996)<br>TRWC Mission (1996)<br>TRWC Bylaws (2003)<br>TRWC Operating Procedures (2003, amended 2012)<br>TRWC Strategic Plan(2008)  |
| Watershed Action Plan(s)                                | Tualatin River Watershed Action Plan (1999)   |

| Project Category: Planning |   |              |      |
|----------------------------|---|--------------|------|
| Project Title              | Gales Creek Restoration Action Planning | OWEB Grant # |      |
| Responsible Parties        | Coordinator/Executive Director          | Priority     | High |

|                      |  |                        |   |
|----------------------|--|------------------------|---|
| Project Description  | The Gales Creek sub-basin is federally designated critical habitat for winter steelhead trout has been and is a focus of TRWC restoration work. This project will enable TRWC to obtain a better understanding of this sub-basin's watershed dynamics and result in effective project development and choices using limited restoration dollars. TRWC will prepare a Gales Creek Restoration Action Plan through a process that includes a) analysis existing Gales Creek information and identify critical data gaps; b) prepare limiting factors analysis based on Gales Creek data; c) identify Reach Scale Restoration Actions based on limiting factors analysis; d) develop a Gales Creek Project Prioritization and Restoration Plan. | In Council Action Plan | Yes   |
| Key Partners         | Bureau of Reclamation, Clean Water Services, Washington County, ODFW   |                        |   |
| Limiting Factor(s)   | Lack of Knowledge, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics., Knowledge Gaps - Lack of Information  |                        |   |
|                      |  |                        |   |
| Original Date        | 1/30/2015  | % Complete             | 85% - Report writing/data analysis/project evaluation |
| Challenges           | Lack of data may not allow for a complete limiting factors analysis. This could limit development of potential projects on some stream reaches. TRWC may need to obtain an OWEB technical assistance grant to prepare specific restoration project plans.  |                        |   |
| Opportunities        | Collaboration with TRWC partners and Gales Creek landowners for data collection, limiting factors analysis, identification of reach scale restoration actions and project prioritization and restoration plan  |                        |   |
| Planned Deliverables | Gales Creek Project Prioritization and Restoration Plan. Expected completion date: 5/2015.<br>The final report for the grant is due on this project in July 2015. As of February 2015, identifying potential projects in stream reaches and prioritizing these projects. Landowner meeting to discuss finding in March 2015.   |                        |   |

| Project Category: Planning |  |                        |                                      |
|----------------------------|--|------------------------|--------------------------------------|
| Project Title              | Tualatin River Watershed place-based water use strategic planning  | OWEB Grant #           |                                      |
| Responsible Parties        | Coordinator/Executive Director   | Priority               | Emerging                             |
| Project Description        | This project will identify current and long range water needs. Working with State of Oregon agencies and Tualatin River Watershed stakeholders, TRWC will co-sponsor facilitated work sessions. The stakeholder groups will discuss their water needs and challenges resulting in understanding of other stakeholder groups' needs. The creation of trust among stakeholder groups may result in collaborative based water use and needs planning. This is expected to be a model that other basins in Oregon can use. | In Council Action Plan | Yes                                  |
| Key Partners               | Oregon Water Resources, ODA, ODFW, ODEQ, OWEB, Tualatin Basin stakeholders   |                        |                                      |
| Limiting Factor(s)         | Staff capacity development, Board capacity development, Knowledge Gaps - Lack of Information   |                        |                                      |
|                            |  |                        |                                      |
| Original Date              | 1/30/2015  | % Complete             | 100% - Post grant reporting complete |
| Challenges                 |  |                        |                                      |
| Opportunities              |  |                        |                                      |
| Planned Deliverables       | TRWC held 6/04/14 meeting with Oregon Water Resources Department staff and Tualatin Basin stakeholders. TRWC provided input on the Integrated Water Resources Strategy. The earliest funding for potential pilot projects will be in 2016. Depending upon funding availability, TRWC may further pursue this opportunity.<br><br>The project is discontinued now and a new project will be developed when funding is developed.  |                        |                                      |

| Project Category: Restoration |   |                        |                          |
|-------------------------------|---|------------------------|--------------------------|
| Project Title                 | Ongoing native plantings and maintenance at Rippling Waters   | OWEB Grant #           |                          |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                     |
| Project Description           | This project is located at Rippling Waters, a 21 acre Washington County owned natural area on the main stem of Gales Creek. TRWC has been restoring the site , using contracted crews for maintenance activities and a bare root planting and by involving community volunteers in restoration and maintenance activities since 2005. Over the next several years, TRWC will continue its site maintenance on five acres. It will use community volunteers to plant native plants on approximately three acres in site prepared areas of riparian and upland areas. | In Council Action Plan | Yes                      |
| Key Partners                  | Bureau of Reclamation, OWEB, Washington County, Clean Water Services,NW Restoration Partnership,  |                        |                          |
| Limiting Factor(s)            | Staff capacity development, Board capacity development, Board skill development, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |                          |
|                               |   |                        |                          |
| Original Date                 | 1/30/2015   | % Complete             | Ongoing council activity |
| Challenges                    | Completion of site preparation for native planting during appropriate times. Availability of native plant materials. Recruitment of community volunteers for planting activities. Staff and Board member availability for oversight of all these activities. Expect next funding cycle to begin in October 2015, therefore there will be a break in maintenance work and site preparation. Community volunteers will assist with manual maintenance during this time.   |                        |                          |
| Opportunities                 | Recruitment of Pacific University, Forest Grove students and community members to be involved in stewardship opportunities on the site. Increased community volunteer knowledge about natural resource systems, identification of native plants and emerging invasive plant species. Future use of the site as an example of restoration activities.  |                        |                          |

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| Planned Deliverables | <p>9/19/13, 10/09/13, 11/26/13 and 5/01/14 ongoing contractor maintenance and site prep; 5/03/14 six volunteers planted 100 native plants in site prepared area. Planting plan completed by contractor. 6/05/14, 9/17/14, 10/14, contractor maintenance, 6/24/14 and 10/13/14, spot sprays; 6/24/14 and 10/30/14 site prep. 11/09/14, 9 community volunteers planted 152 native plants; 11/16/14, 7 community volunteers removed 13 bags of invasive English ivy from a natural area site.</p> |  |  |
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| Project Category: Community Engagement (outreach and education) |   |                        |                         |
|---|---|------------------------|-------------------------|
| Project Title   | Tualatin Basin Tours  | OWEB Grant #           |                         |
| Responsible Parties   | Coordinator/Executive Director  | Priority               | High                    |
| Project Description   | This project engages Tualatin Basin residents and TRWC partners through providing tours of restoration projects to a) provide information about Tualatin Basin resource challenges; b) encourage residents and landowners to undertake such projects and share project information and needed expertise; c) to share results of implemented restoration projects with Tualatin Basin residents; and d) to inform Tualatin Basin residents about TRWC activities and projects. | In Council Action Plan | Yes                     |
| Key Partners  | City of Tigard, Clean Water Services, TRWC stakeholder groups, Tualatin Basin residents   |                        |                         |
| Limiting Factor(s)  | Staff capacity development, Board capacity development, Lack of Knowledge, Board skill development, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |                         |
|   |   |                        |                         |
| Original Date   | 1/30/2015   | % Complete             | Annual council activity |
| Challenges  | Identification and recruitment of Tualatin Basin residents and landowners and TRWC partners to participate in tours. Sufficient, energetic and knowledgeable staff and volunteers to lead tours. Funding for transportation or volunteers to drive.   |                        |                         |
| Opportunities   | Future project partners. Increased recognition of and knowledge of restoration projects and results. Increased knowledge about natural resource system processes. Working with other organizations to include projects that would increase tour participation. Potential for annual tour event.   |                        |                         |
| Planned Deliverables  | Working with partners, we plan to offer a tour yearly.  |                        |                         |

| Project Category: Restoration |   |                        |  |
|-------------------------------|---|------------------------|--|
| Project Title                 | Clear Creek Large Wood Placement Project  | OWEB Grant #           | 211-3050                               |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                                   |
| Project Description           | The project is located in the City of Forest Grove on a one-mile stream reach of Clear Creek, a tributary to Gales Creek. The majority of the Clear Creek sub-watershed is owned and managed by the City of Forest Grove for municipal water supply and sustainable forestry. Watershed problems include: 1) lack of channel complexity and rearing habitat (pools) for spawning native winter steelhead trout, non-native Coho salmon, Pacific lamprey, and other native fish; 2) a barrier to juvenile fish passage due to an obsolete concrete water gauging structure, and 3) lack of instream structure for migratory adult fish to more easily access the Clear Creek fish ladder at intake structure. During Sept 2012, this project 1) place 86 logs and/or whole trees in 14 stream reaches in a one mile stream reach to create pools and scour for fish habitat; 2) removed the obsolete water gauging structure from the stream; and 3) developed a small graded riffle at the Clear Creek intake structure to provide easier access for migrating adult fish. Prior to project commencement and following project implementation, Rapid Bioassessment Inventories will be performed to evaluate fish use and passage in the treated reach. | In Council Action Plan | Yes                                    |
| Key Partners                  | City of Forest Grove, ODFW, Trout Mountain Forestry   |                        |  |
| Limiting Factor(s)            | Habitat Access - Impaired access to habitat, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat  |                        |  |
| Original Date                 | 1/30/2015   | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Availability of transportation equipment to move logs to staging areas in order for the project to be implemented within the time period scheduled by the contractor; completing work within the in-water work period   |                        |  |
| Opportunities                 | Building partnership for future restoration projects with the City of Forest Grove and downstream Clear Creek residents through tours and understanding of mutual benefits through large wood placement and other projects.   |                        |  |

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| Planned Deliverables | <p>Continuing photo-point monitoring at all sites during 2015-2017. Rapid bio-assessment (RBA) conducted summer 2013 and 2014 with 2015 RBA to be conducted. Two year post project completion report due in fall 2017, and four year post project completion report due in fall 2019.</p> <p>Project partner signed installed; final report to be submitted by February 25, 2015.</p> |  |  |
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| Project Category: Restoration |  |                        |  |
|-------------------------------|--|------------------------|--|
| Project Title                 | Waverly Meadows/Bonita Firs Restoration  | OWEB Grant #           | 13-12-007                              |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                                   |
| Project Description           | This project includes urban natural areas owned by Waverly Meadow and Bonita Firs HOA where homeowners have commenced restoration of adjacent upland areas. The three sites, totaling 1.4 acres, along an unnamed Fanno Creek tributary have been overrun by invasive species such as Himalayan blackberry, English ivy, English holly, English hawthorn and creeping bamboo. They will be treated and re-treated by contracted crews. Contracted crews and volunteers will be planted with native shrubs and trees. Implementation will decrease stream temperature by increasing the canopy and shading the stream, increase the riparian area's ability to filtrate pollutants from storm water runoff and increase biodiversity through restoring habitat and increasing native vegetation. Continued work to monitor and maintain plantings will be done by landowners. The City of Tigard will provide technical expertise as well as restore adjacent land. | In Council Action Plan | Yes                                    |
| Key Partners                  | City of Tigard, Clean Water Services, Waverly Meadows and Bonita Firs HOAs   |                        |  |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.   |                        |  |
| Original Date                 | 1/30/2015  | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Timing between availability of busy contractors and community volunteers and others to implement work.   |                        |  |
| Opportunities                 | Involvement of HOA community volunteers in planting native plants and site maintenance. Greater understanding by HOA members and community volunteers of stream and natural resources processed. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas  |                        |  |
| Planned Deliverables          | Youth crew removed invasive plants and planted 27 native plants (10/19/13). Contracted crews planted 600 native plants (12/03/13). Grant ends 12/12/13 with final report submitted 3/04/14. Post grant: Contracted crew planted 785 native plants (infill) (2/27/14) and spot-sprayed and pulled invasive plants (5/02/14). The restoration site was a site on the June 7, 2014 HOA restoration tour.  |                        |  |

| Project Category: Restoration |   |                        |  |
|-------------------------------|---|------------------------|--|
| Project Title                 | Bonita Firs Restoration   | OWEB Grant #           | 13-12-016                              |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                                   |
| Project Description           | This project will treat invasive species such as Himalayan blackberry, English ivy, English hawthorn, clematis and laurel on a 0.63 acre site along Fanno Creek. Treatment and subsequent planting of natives trees and shrubs will be done in concert with similar activities on property owned by the City of Tigard over a total of 1.41 acres to maximize results and minimize costs. This project is one of several done, or to be done, on adjacent properties to increase stream canopy and shading, increase the riparian areas' ability to filtrate pollutants from stormwater runoff and increase biodiversity through habitat restoration in the Tualatin watershed. | In Council Action Plan | Yes                                    |
| Key Partners                  | City of Tigard, Clean Water Services, Bonita Firs HOA   |                        |  |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.  |                        |  |
| Original Date                 | 1/30/2015   | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Changes of HOA board membership that included a Board member who wanted to limit restoration activities.<br>Timing of busy contractors and community volunteers and others to coordinate implementation of work.  |                        |  |
| Opportunities                 | Involvement of HOA members and community volunteers in planting native plants and site maintenance. Greater understanding by HOA members and community volunteers of stream and natural resources process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas   |                        |  |
| Planned Deliverables          | Final grant report submitted December 4 2014. Additional activities including infill planting in October 2014 and February 2015 through partner resources and ongoing maintenance through spot spraying and weeding. Two year report due 12/10/16.  |                        |  |

| Project Category: Planning |  |                        |                                      |
|----------------------------|--|------------------------|--------------------------------------|
| Project Title              | Upper Tualatin Sub- Basins Rapid Bio-Assessments   | OWEB Grant #           |                                      |
| Responsible Parties        | Coordinator/Executive Director   | Priority               | High                                 |
| Project Description        | Fish population and habitat condition data including fish passage barrier assessment are lacking in the rural Upper Tualatin sub-basins. This project will gather and analyze information through rapid bio-assessment (rba) surveys which provide data on juvenile fish population, identification of rearing locations, habitat conditions including passage barriers on up to 270 surveyed miles in Gales Creek, upper Tualatin River and Scoggins Creek, East Fork and West Fork Dairy Creeks and McKay Creek. | In Council Action Plan | Yes                                  |
| Key Partners               | Bureau of Reclamation, Clean Water Services  |                        |                                      |
| Limiting Factor(s)         | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics., Knowledge Gaps - Lack of Information   |                        |                                      |
| Original Date              | 1/30/2015  | % Complete             | 100% - Post grant reporting complete |
| Challenges                 | Inability to survey some stream reaches due to lack of response or permission from landowners to allow stream access.  |                        |                                      |
| Opportunities              | Identification of potential future restoration project partners based on responses and interests for stream access permission. Spring 2014 public meeting on RBA findings to inform landowners, residents, conservation interests and others about juvenile fish populations, locations, habitat conditions and potential future projects.   |                        |                                      |
| Planned Deliverables       | Created database with 825 landowner contacts; 138.2 miles surveyed during July-September 2013; public presentation on 5/19/14 with over 80 participants, many of whom were landowners.Final report and final access data base with survey data (5/2014).<br>Survey data converted to GIS maps. Gales Creek survey information used in Gales Creek Restoration Action Planning. 2014 surveys conducted in two 2013 surveyed sub-basins that allow comparison between the two years.                                 |                        |                                      |

| Project Category: Community Engagement (outreach and education) |   |                        |                          |
|---|---|------------------------|--------------------------|
| Project Title   | Tualatin Basin Training Courses   | OWEB Grant #           |                          |
| Responsible Parties   | Partner   | Priority               | High                     |
| Project Description   | This project involves partnered training and courses with various Tualatin Basin populations that include providing baseline information, learning about watersheds and watershed practices. Training Courses include spawning survey training; Tualatin Basin Early Detection Rapid Response Invasive Plant species workshops; Student Watershed Research Project, hands-on watershed data collection; residential landscaping workshops using native plants; and watershed curriculum with newly arriving populations.  | In Council Action Plan | Yes                      |
| Key Partners  | ODFW, PSU, Clean Water Services, TSWCD, TBPAC, Adelantes Mujeres  |                        |                          |
| Limiting Factor(s)  | Lack of Knowledge, Training, Knowledge Gaps - Lack of Information   |                        |                          |
| Original Date   | 1/30/2015   | % Complete             | Ongoing council activity |
| Challenges  | Recruitment of volunteers and residents to participate in the courses and training and to follow through with data collection activities.   |                        |                          |
| Opportunities   | Recruitment of future TRWC board members and volunteers. Increased number of Tualatin Basin residents who will adapt their behaviors after learning about healthy watershed practices. Recruitment of future scientist and watershed advocates. Identification of potential future restoration projects through meeting concerned landowners  |                        |                          |
| Planned Deliverables  | Trainings included: a) 10/19/13 spawning survey training with 10 participants and a 10/25/14 training with 8 participants ; b) Tualatin Basin Early Detection, Rapid Response invasive plant species workshops with 53 participants in five workshops (Feb – May , 2014); c) Student Watershed Research Project with one Forest Grove High School class of 30 conducted watershed sampling in the fall 2013 and spring 2014;d) residential landscaping workshops with 75 participants in three workshops (10/2013, 4/2014,5/2014). Upcoming activities will include all of these trainings in 2015. |                        |                          |

| Project Category: Restoration |   |                        |                          |
|-------------------------------|---|------------------------|--------------------------|
| Project Title                 | Tualatin Basin HOA natural area restoration projects  | OWEB Grant #           |                          |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                     |
| Project Description           | Homeowners associations (HOA) in the Tualatin Basin frequently own urban natural areas of riparian, uplands and wetlands habitat, but lack knowledge about the benefits of restoring these areas for improving Tualatin Basin watershed health and/or the expertise to undertake such projects. In June 2012, TRWC and its members, Clean Water Services and City of Tigard organized a tour and invited targeted HOAs to participate in the tour. Two HOAs have partnered with TRWC and submitted OWEB small grant applications in September 2013 that if funded, will assist in funding HOA natural area restoration projects with TRWC and its members providing plant materials, technical assistance and other aid as needed. Once these restoration projects are implemented, both HOAs have identified HOA funding to continue the maintenance and monitoring needed for these projects. | In Council Action Plan | Yes                      |
| Key Partners                  | Homeowners associations, Clean Water Services, City of Tigard, Community volunteers   |                        |                          |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.  |                        |                          |
| Original Date                 | 1/30/2015   | % Complete             | Ongoing council activity |
| Challenges                    | Identifying HOA board members and other HOA members who perceive the mutual benefits of these projects. Commitments that HOA have reserved funding for ongoing maintenance beyond the two year grant term.  |                        |                          |
| Opportunities                 | Involvement of HOA members and community volunteers in planting native plants and ongoing monitoring and maintenance. Greater understanding by HOA members of stream and natural resources processed. Use of restoration sites, both in process and in monitoring phases for site tours for future HOA tours to recruit and encourage other HOAs to initiate and implement restoration on their own HOA natural areas   |                        |                          |
| Planned Deliverables          | Identification of committed two to three HOA who want to and have the resources to implement a restoration project in their HOA natural area. These partnerships will prepare and apply for OWEB small grant funding.   |                        |                          |

| Project Category: Restoration |  |                        |   |
|-------------------------------|--|------------------------|---|
| Project Title                 | Gales Creek Access Road Decommissioning  | OWEB Grant #           |   |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High  |
| Project Description           | This project, located between river mile 7 to 8 on the main stem of lower Gales Creek, is a privately owned 0.07 mile access road that interrupts existing Gales Creek side channels. The landowner is currently working with Tualatin SWCD in treating, maintaining and monitoring native shrubs and trees located in a one mile stream reach (approximately 20 acres). This project will remove the road fill from the side channels and decommission the 0.07 mile access road. Once decommissioned, Tualatin SWCD will plant the decommissioned area with native plants, and monitor and maintain it as a part of the larger 20 acre riparian restoration project. Benefits of the project include eliminating a road previously access by off road that drove through the creek damaging the stream bed and disturbing riparian vegetation. | In Council Action Plan | Yes   |
| Key Partners                  | Bureau of Reclamation, Tualatin SWCD, landowner  |                        |   |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.   |                        |   |
| Original Date                 | 1/30/2015  | % Complete             | 50% - Design/Permit completed/materials developed |
| Challenges                    | Preparation and obtaining type 1 Washington County floodplain alteration permit. Federal review of project area for cultural resources   |                        |   |
| Opportunities                 | Working with private landowners and other TRWC partners to identify future road decommissioning opportunities. Use restored site as an example for others to undertake this type of work.  |                        |   |
| Planned Deliverables          | Permit submitted and awaiting issued permit. Cultural resources review complete.<br>Upcoming activities: Permit approval; implementation   |                        |   |

| Project Category: Planning |   |                        |                                  |
|----------------------------|---|------------------------|----------------------------------|
| Project Title              | Dairy-McKay sub-basin private lands culvert surveys   | OWEB Grant #           |                                  |
| Responsible Parties        | Coordinator/Executive Director  | Priority               | High                             |
| Project Description        | Limited information is available on fish passage barriers located on privately owned lands in the Dairy-McKay sub-basin. This project uses grant monies to train paid interns to identify potential barriers using LIDAR, contact private landowners for permission to access culvert stream crossings, and to survey to assess culverts and habitat. Interns and TRWC members will analyze collected data to prepare a prioritization of culverts surveyed. The product will be a Dairy-McKay private lands fish passage assessment and prioritization information on barriers and a prioritized project list. | In Council Action Plan | Yes                              |
| Key Partners               | Bureau of Land Management, Clean Water Services, Washington County, Pacific University  |                        |                                  |
| Limiting Factor(s)         | Habitat Access - Impaired access to habitat, Knowledge Gaps - Lack of Information   |                        |                                  |
|                            |   |                        |                                  |
| Original Date              | 1/30/2015   | % Complete             | 60% - Implementation in progress |
| Challenges                 | Inability to survey or obtain information on all potential stream culvert crossings due to unwillingness of or lack of response from landowners to allow access to culvert stream crossings. Prioritized culvert replacement list may be limited because of lack of access to culvert stream crossings.   |                        |                                  |
| Opportunities              | Collaboration with TRWC partners to contact Dairy-McKay landowners for permission to access their land to obtain needed data. Identification of Dairy-McKay landowner partners for future fish passage barrier culvert replacement projects.  |                        |                                  |
| Planned Deliverables       | Seven culverts surveyed summer 2013. Additional culvert information collected from Upper Tualatin Sub-basins Rapid Bio-Assessments to be integrated into report. No survey work done in summer 2014. Upcoming activities: Integration of culvert info into inventory with additional culvert surveys to be performed in summer 2015, with final report expected in December 2015.   |                        |                                  |

| Project Category: Community Engagement (outreach and education) |   |                        |                          |
|---|---|------------------------|--------------------------|
| Project Title   | Community Outreach  | OWEB Grant #           | 212-037                  |
| Responsible Parties   | Coordinator/Executive Director  | Priority               | High                     |
| Project Description   | TRWC serves an area of 400,000 acres, of which over 75% is in private ownership. It is a 4th field watershed with a growing population of approximately 500,000. The demographics of the area are changing rapidly as more people from other cultures call the basin home. TRWC uses a number of different venues to educate its citizens about the watershed, the environmental challenges that it faces. It shares what TRWC does and what the citizens can do to improve conditions in the watershed. It is very important to TRWC that the economic vitality of the watershed is maintained while the environmental conditions are improved. TRWC shares its project monitoring results at Council meetings and the website. As a result of the outreach TRWC is asked to provide resources to private landowners | In Council Action Plan | Yes                      |
| Key Partners  | OWEB, TRWC stakeholders, Bureau of Reclamation, Clackamas County SWCD, NW OR Restoration Partnership  |                        |                          |
| Limiting Factor(s)  | Staff capacity development, Board capacity development, Training, Habitat Access - Impaired access to habitat, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics., Knowledge Gaps - Lack of Information   |                        |                          |
| Original Date   | 1/30/2015   | % Complete             | Ongoing council activity |
| Challenges  | Engaging the public that isn't already aware of the environmental assets and problems in the basin. TRWC only has a staff of one and its members have limited time to devote to TRWC.   |                        |                          |
| Opportunities   | There are opportunities to form partnerships with other organizations to increase outreach to the residents regarding healthy watershed practices and recruit residents that want to do projects on their property or volunteer for work parties.   |                        |                          |



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| <p>Planned Deliverables</p> | <p>The Council held 12 monthly meetings focusing on the follows: projects (2), educational (7), and issues (3). One meeting included a presentation on a Tualatin River and Rock Creek natural areas and picnic that allowed a less formal exchange of ideas. Website was updated on a monthly basis. TRWC provided 1300 trees to residents of the basin.</p> <p>Upcoming: Hosting a public meeting to present the results of the 2014 bio-assessment survey and posting of the report. will publish a 2013-14 annual report. In addition, TRWC provided X trees to landowners working on their own restoration projects.</p> |  |  |
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| Project Category: Planning |   |                        |   |
|----------------------------|---|------------------------|---|
| Project Title              | 2014 Tualatin Tributary Rapid Bio-Assessments   | OWEB Grant #           |   |
| Responsible Parties        | Coordinator/Executive Director  | Priority               | High  |
| Project Description        | Fish population and habitat condition data including fish passage barrier assessment are lacking in the various Tualatin sub-basins. This project will gather and analyze information through rapid bio-assessment (RBA) surveys which provide data on juvenile fish population, identification of rearing locations, habitat conditions including passage barriers on up to 75 miles in Gales Creek, and East Fork, Dairy Creek (replication of 2013 work) and up to 37 miles in Rock Creek, Chicken Creek, McFee Creek, and McKernan Creek. | In Council Action Plan | Yes   |
| Key Partners               | Clean Water Services,Bio-Surveys, LLC   |                        |   |
| Limiting Factor(s)         | Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics., Knowledge Gaps - Lack of Information   |                        |   |
| Original Date              | 1/30/2015   | % Complete             | 85% - Report writing/data analysis/project evaluation |
| Challenges                 | Inability to survey some stream reaches due to lack of response or permission from landowners to allow stream access.   |                        |   |
| Opportunities              | Identification of potential future restoration project partners based on responses and interests for stream access permission. Spring 2015 public meeting on RBA findings to inform landowners, residents, conservation interests and others about juvenile fish populations, locations, habitat conditions and potential future projects.  |                        |   |
| Planned Deliverables       | Landowner contact database and draft access rapid bio-assessment database for Gales Creek, East Fork Dairy Creek, McFee Creek, Chicken and upper Rock Creek sub-basins received. Upcoming Activities include developing GIS maps of surveyed area and final report and presentation in spring 2015. Data will be used to identify potential projects in these sub-basins.   |                        |   |

| Project Category: Restoration |  |                        |                                  |
|-------------------------------|--|------------------------|----------------------------------|
| Project Title                 | Summer Creek Headwaters Restoration at Murrayhill  | OWEB Grant #           | 13-14-005                        |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                             |
| Project Description           | This 8.4 acre natural area project site along Summer Creek will be treated for invasive plant species including Himalayan blackberry, English ivy, English hawthorn, English holly. These plants impact water quality through poor filtration and erosion, negatively impact wildlife habitat in the greenway that runs through the site and are a source of invasive seed and impact restoration downstream. Treatments will be followed by planting approximately 3,000 native plants. | In Council Action Plan | Yes                              |
| Key Partners                  | Murrayhill Owners Association, Clean Water Services, OWEB, City of Beaverton   |                        |                                  |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.   |                        |                                  |
|                               |  |                        |                                  |
| Original Date                 | 1/30/2015  | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor and community volunteers and others to implement work.  |                        |                                  |
| Opportunities                 | Involvement of Murrayhill Owners Association (MOA) members and community volunteers in planting native plants and ongoing site maintenance. Greater understanding by MOA members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas   |                        |                                  |
| Planned Deliverables          | Contracted crew sprayed invasive plants (10/18/13), cut invasive plants and chipped trees (12/12/13; 1/21/14 and 1/22/14); 25 volunteers planted 88 native plants (3/22/14). Fall 2014 invasive plant treatment; Oct 2014 community volunteer planting of 1500 native plants and mulching. Upcoming Activities: Winter 2015 native plantings of 1500 native plants with crews; summer/fall 2015 invasive treatment. Grant ends 9/27/2015.  |                        |                                  |

| Project Category: Organizational Development and Management |   |                        |                          |
|---|---|------------------------|--------------------------|
| Project Title   | Council Capacity  | OWEB Grant #           | 212-037                  |
| Responsible Parties   | Coordinator/Executive Director  | Priority               | High                     |
| Project Description   | The governing body of TRWC is the Steering Committee; it oversees and approves the day-to-day workings of the Council either at its monthly meetings or by emails and phone calls. It is constantly looking for ways to expand the capacity of TRWC. In 2014, Barney Worth was hired to prepare a Marketing and Funding Strategy for TRWC. The committee works to develop partnerships with its stakeholder groups and to increase the level of participation in the three other TRWC committees (Restoration & Enhancement, Issues, and Education & Outreach). These committees were developed to assist with planning and implementation of TRWC Action Plan.   | In Council Action Plan | No                       |
| Key Partners  | TRWC stakeholders, OWEB   |                        |                          |
| Limiting Factor(s)  | Staff capacity development, Board capacity development  |                        |                          |
| Original Date   | 1/30/2015   | % Complete             | Ongoing council activity |
| Challenges  | TRWC is a volunteer organization with one paid staff. Most of the stakeholders represent other organizations so there are many demands on their time. Funding is difficult due to competition for funds and lack of resources (personnel) to go after them.   |                        |                          |
| Opportunities   | To increase TRWC resources through recruitment of stakeholders with skills and interests that matches the needs of TRWC. Form partnerships with likeminded organizations to share resources as well as successes and challenges.  |                        |                          |
| Planned Deliverables  | Steering Committee met monthly (12 times)that included a TRWC non-officer member. Since July 2014, The Restoration Committee met 4 times and focused on the Tualatin Basin planning and projects. The Issues Committee met 2 times and focused on Tualatin Basin issues. The Education Committee met 3 times and focused on the biennial report, the design of the display board, and plans for 6 tabling events. The Capacity Committee has met once. The Marketing and Funding Strategy report was completed in June 2014. Since July 2014, the Steering Committee has met monthly. The committees will continue to meet and pursue their goals and the Capacity Committee will lead the implementation of the marketing and funding strategy report. |                        |                          |

| Project Category: Restoration |   |                        |                                  |
|-------------------------------|---|------------------------|----------------------------------|
| Project Title                 | Rock Creek Forest Restoration: Varma  | OWEB Grant #           | 13-14-007                        |
| Responsible Parties           | Contractor  | Priority               | High                             |
| Project Description           | This project will restore native vegetation and habitat in the riparian area on this property belonging to Our Table organic farm near the headwaters of South Rock Creek in the Lower Tualatin River Basin. Implementation will establish a continuous riparian forest along 450 ft. Of stream and develop a diverse forest canopy and shrub layer to improve pollination and benefit wildlife. Native trees and shrubs will be planted on 0.8 acres of floodplain and in the upland forest areas after treatment of invasive weeds. | In Council Action Plan | Yes                              |
| Key Partners                  | Community by Design, LLC, OWEB, community volunteers  |                        |                                  |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.  |                        |                                  |
| Original Date                 | 1/30/2015   | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor, farm crew and community volunteers and others to implement work.  |                        |                                  |
| Opportunities                 | Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance including use of mechanical treatment of invasive plants. Greater understanding by Our Table members and community volunteers of stream and natural resource process  |                        |                                  |
| Planned Deliverables          | Spring 2014 farm crew and contractor planted 600 bare root plants and installed 60 willow stakes along 450 linear feet of stream. They also cut, cleared, grazed and continued control of invasive plants on 2 acres of riparian and adjacent forest.<br>Upcoming activities include installation of up to 4000 native stakes, bare root and container plants and ongoing maintenance. The restoration partners plan to submit a phase 2 small grant project application on additional riparian and uplands area in summer 2015.      |                        |                                  |

| Project Category: Restoration |   |                        |                                  |
|-------------------------------|---|------------------------|----------------------------------|
| Project Title                 | Quail Hollow West HOA Enhancement   | OWEB Grant #           | 13-14-006                        |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                             |
| Project Description           | This project will address issues caused by urbanization and its increased amount of impervious surfaces that contribute to more surface water runoff (which can carry pollutants from roads and lawns), more channel erosion and higher sediment loads which lead to poor water quality and degraded terrestrial habitat. This 2.32 acre riparian and upland HOA-owned site is located along an unnamed tributary of Summer Creek. It will be treated for invasive species such as Himalayan blackberry, bindweed, Reed canary grass and English ivy and planted to develop a dense native herbaceous layer and include deep-rooted native shrubs to reduce the velocity of stormwater runoff and stabilize the streambanks. Additionally, native trees such as Western red cedar, Douglas fir, red alder and bigleaf maple will be planted create better habitat and shade the stream. | In Council Action Plan | Yes                              |
| Key Partners                  | Quail Hollow West HOA, City of Tigard, Clean Water Services, OWEB   |                        |                                  |
| Limiting Factor(s)            | Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.  |                        |                                  |
| Original Date                 | 1/30/2015   | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor and community volunteers and others to implement work.   |                        |                                  |
| Opportunities                 | Greater understanding by Homeowners Association (HOA) members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas.  |                        |                                  |
| Planned Deliverables          | Contracted crew sprayed invasive plants (10/18/13), cut invasive plants and chipped trees (3/26/14); fall 2014 invasive plant treatment. 4500 native bare root planted on Jan 28, 2015 by contracted crew.<br>Upcoming Activities: Additional bare root plants to be planted during winter 2015 and additional invasive treatments during spring and summer 2015.<br>Grant ends 9/27/2015.  |                        |                                  |

| Project Category: Restoration |   |                        |   |
|-------------------------------|---|------------------------|---|
| Project Title                 | Upland Restoration  | OWEB Grant #           |   |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | Emerging  |
| Project Description           | The Tualatin River watershed is an integrated landscape consisting of mountains, hills, and lowlands all interconnected by a pattern of streams that flow toward the Tualatin River. Many of the values of uplands portion of this landscape are vital to the health of the streams that flow through it. These values also sustain the people who live in the watershed. Issues to be addressed are a) vegetation diversity and density, invasive species, fire hazard and legacy roads. | In Council Action Plan | Yes   |
| Key Partners                  | Small woodlands owner, NRCS, OSU Extension, ODF, OFRI, SWCD   |                        |   |
| Limiting Factor(s)            | Habitat Access - Impaired access to habitat, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |   |
| Original Date                 | 1/30/2015   | % Complete             | 5-30% - Conceptual/ Planning/Submitting Grant application |
| Challenges                    | Identifying interested upland owners who are interested in doing this type of work.<br>Access to greater diversity of native plant materials.<br>Limited funding sources for projects.  |                        |   |
| Opportunities                 | Engaging a broader population of the Tualatin Basin in restoration activities.<br>Potential for additional partnership with agencies and landowners.<br>Increased bio-diversity and high quality water for Tualatin Basin following implementation of projects.<br>Projects would serve as demonstration projects to increase awareness and future potential projects.  |                        |   |
| Planned Deliverables          | Identify several potential owners and properties for projects and seeking funding.<br>Confer with resources agencies about barriers to owners participating in these types of projects to identify ways to overcome those barriers.   |                        |   |

| Project Category: Restoration |   |                        |   |
|-------------------------------|---|------------------------|---|
| Project Title                 | Gales Creek Enhancement Projects  | OWEB Grant #           |   |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High  |
| Project Description           | The Gales Creek Restoration Action Plan identified prioritized enhancement opportunities. TRWC will use this information to contact landowners to discuss potential projects. After identifying interested landowners, TRWC will seek technical assistance grants followed by restoration grants. | In Council Action Plan | Yes   |
| Key Partners                  | landowners, Bureau of Reclamation, OWEB,  |                        |   |
| Limiting Factor(s)            | Habitat Access - Impaired access to habitat, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |   |
| Original Date                 | 1/30/2015   | % Complete             | 5-30% - Conceptual/ Planning/Submitting Grant application |
| Challenges                    | Matching landowner interest with high priority projects. Finding adequate funding for projects.<br>Building and continuing relationships with landowners as project planning, funding and implementation can be a lengthy process.  |                        |   |
| Opportunities                 | Introduce more landowners to the benefits of restoration and availability of resources.   |                        |   |
| Planned Deliverables          | Identify one to two projects for planning in 2015 and implementation in 2016-17.  |                        |   |