

| Tualatin River WC Work Plan for 07/01/2017 - 06/30/2019 |  |
|---|--|
| Date Adopted  | 3/1/2017   |
| 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)<br>Tualatin River Rapid Bio-Assessment 2013, Final Report<br>Tualatin River Rapid Bio-Assessment 2013 & 2014 Final Report<br>Gales Creek Sub-basin Watershed Action Plan, 2015 |
| 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: 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 and 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, Lack of Knowledge, Training   |                        |                                  |
|                     |   |                        |                                  |
| Original Date       | 2/23/2017   | % Complete             | 60% - Implementation in progress |
| Challenges          | Engaging the public that isn't already aware of the environmental assets and problems in the basin. TRWC participates in multiple opportunities to fill the knowledge gap that exists. TRWC only has a staff of one and its members have limited time to devote to TRWC.  |                        |                                  |
| Opportunities       | Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin.<br>There are opportunities to form partnerships with other organizations to increase outreach to the residents regarding healthy watershed practices.   |                        |                                  |

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| <p>Planned Deliverables</p> | <p>The Council holds 12 monthly meetings focusing on the following: projects, educational opportunities, and issues impacting the basin. Council meetings facilitate public participation on watershed issues. One off site meeting per year will include dinner and a tour to provide a less formal setting for board members and the public to interact. TRWC will develop a communication strategy that includes website and social media.</p> <p>TRWC will provide native shrubs and trees to landowners in the basin who are working on their individual restoration projects. TRWC reports its project monitoring results at TRWC meetings to demonstrate how these projects achieve watershed objectives over time. TRWC hosts community meetings to share results from projects conducted in or near that community. Develop and distribute TRWC annual report. Provide new board members with an orientation to TRWC. TRWC stakeholders will provide input on regulation development that will affect the basin.</p> |  |  |
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| Project Category: Community Engagement (outreach and education) |   |                        |                                  |
|---|---|------------------------|----------------------------------|
| Project Title   | Gales Creek Landowner Outreach and Project Development  | OWEB Grant #           |                                  |
| Responsible Parties   | Coordinator/Executive Director  | Priority               | High                             |
| Project Description   | TRWC is focusing on the Gales Creek watershed for education, outreach and watershed enhancement. Gales Creek is the only Tualatin Basin sub-basin recognized as federal critical habitat for winter steelhead trout. TRWC completed the Gales Creek Sub-Basin Restoration Action Plan, April 2015 (posted on our website) and has and will continue with its partners to meet with Gales Creek landowners who are interested in riparian, wetlands and upland enhancements. TRWC and its partners will identify programs and/or resources that can aid landowners in enhancement projects | In Council Action Plan | No                               |
| Key Partners  | Bureau of Reclamation, TSWCD, TRWC partners, ODFW   |                        |                                  |
| 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.   |                        |                                  |
| Original Date   | 2/23/2017   | % Complete             | 60% - Implementation in progress |
| Challenges  | Finding ways to connect with landowners whose lands could result in beneficial and high ranking projects and who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowner interest.  |                        |                                  |
| Opportunities   | Collaboration with TRWC partners and Gales Creek landowners in development and implementation of high priority projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved.  |                        |                                  |
| Planned Deliverables  | Development of enhancement projects with willing landowners resulting in implementation of projects that address limiting factors identified in the Gales Creek Sub-Basin Restoration Action Plan.  |                        |                                  |

| 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 by providing tours of restoration projects to a) provide information about Tualatin Basin resource challenges; b) encourage residents and landowners to undertake projects and share project information and needed expertise; c) share results of implemented restoration projects with Tualatin Basin residents; and d)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, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |                                  |
| Original Date   | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges  | Identification and recruitment of Tualatin Basin residents and landowners and TRWC partners to participate in tours. Sufficient, energetic and knowledgeable staff, board members and volunteers to lead tours. Funding for transportation or volunteers to drive. Our past HOA projects were funded by OWEB small grants that have a two year implementation period. There is currently discussion in the basin of using other funding sources to increase implementation to five year period.  |                        |                                  |
| Opportunities   | Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin. As the projects are developed and implemented the water quality and physical habitat will be improved. Exploring opportunities to expand types of tours to include partner projects. |                        |                                  |
| Planned Deliverables  | Future tours will be focused on TRWC and partner projects to encourage development of new restoration opportunities.   |                        |                                  |

| 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 and residential landscaping workshops using native plants.  | In Council Action Plan | Yes                              |
| Key Partners  | ODFW, PSU, Clean Water Services, TSWCD, TBPAC  |                        |                                  |
| Limiting Factor(s)  | Staff capacity development, Board capacity development, Lack of Knowledge, Training, Knowledge Gaps - Lack of Information  |                        |                                  |
| Original Date   | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| 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 that will enhance staff and board capacity. Increased number of Tualatin Basin residents who will adapt their behaviors after learning about healthy watershed practices. Recruitment of future watershed advocates. Identification of potential future restoration projects through meeting concerned landowners by informing them about available resources to do restoration work. Learn more about where the salmon are spawning in the basin and encourage them to continue spawning surveying in future years at the same sites. |                        |                                  |
| Planned Deliverables  | Conduct yearly spawning survey trainings. Encourage trained participants to perform spawning surveys. Collect information and photos for TRWC website. Conduct residential landscaping workshops in coordination with our partners.<br>Conduct beaver benefits workshop(s) with our partners.  |                        |                                  |

| 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. TRWC will use its biennial council self evaluation to improve TRWC operations. 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, Board skill development  |                        |                                  |
| Original Date   | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| 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   | TRWC increases staff capacity and board capacity through recruitment of stakeholders with skills and interests that matches the needs of TRWC. TRWC forms partnerships with like minded organizations to share resources as well as successes and challenges.  |                        |                                  |

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| <p>Planned Deliverables</p> | <p>The Steering Committee (TRWC officers, staff and rotating stakeholder) meets monthly and will implement the results of the November 2016 Council Self Evaluation to continuously improve council performance. The Steering Committee will conduct listening sessions with stakeholders and partners to better align our goals and projects and survey its stakeholders to determine what volunteer opportunities most closely match their interest. The other TRWC committees a) Restoration b) Education c) Issues and d) Capacity Building meet monthly or bi-monthly as needed to meet their goals. The Coordinator and TRWC officers attend workshops and conferences to increase their knowledge and skills. Provide fiscal agent services to entities that share TRWC's mission, but do not have 501 (c)3 status. TRWC insures Washington County Commissioners' support by providing them with yearly TRWC update.</p> |  |  |
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| Project Category: Organizational Development and Management |   |                        |  |
|---|---|------------------------|--|
| Project Title   | Council Growth  | OWEB Grant #           | 216-037  |
| Responsible Parties   | Board Member  | Priority               | High   |
| Project Description   | To develop an organizational and funding strategy that will support an increase in staff.   | In Council Action Plan | No   |
| Key Partners  | TRWC stakeholders   |                        |  |
| Limiting Factor(s)  | Staff capacity development, Board capacity development, Board skill development   |                        |  |
| Original Date   | 2/23/2017   | % Complete             | 5-30% - Conceptual/ Planning/ Submitting Grant application |
| 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   | Connect with TRWC stakeholders and new potential funding sources to obtain funding for additional staffing.   |                        |  |
| Planned Deliverables  | Conduct TRWC Steering Committee retreat that will aid in determining staff needs. Long term funding sources that support additional staff.  |                        |  |

| 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 in the Tualatin Basin. 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, Lack of Knowledge, Knowledge Gaps - Lack of Information  |                        |  |
| Original Date              | 2/23/2017  | % Complete             | 5-30% - Conceptual/ Planning/ Submitting Grant application |
| Challenges                 | Interest and participation by Tualatin River watershed stakeholder groups; identifying and securing funding for facilitated work session. Length of time for trust building process to occur among stakeholder groups. Current TRWC staffing doesn't permit for staff to facilitate these work sessions, therefore we will seek funding for a facilitator.   |                        |  |
| Opportunities              | Greater understanding and collaboration among Tualatin Basin stakeholders in the current and future water uses. Recognition TRWC as a resource and convener of stakeholders to discuss Tualatin Basin water challenges and identify collaborative solutions. This will provide an opportunity for stakeholders to learn about each others resources and needs and the interrelated water quality and quantity needs of the basin.  |                        |  |
| Planned Deliverables       | Funding for grants is proposed in the budget proposal for the current Oregon legislative session. If funding becomes available, TRWC will apply for a grant to cover the cost of facilities and a facilitator to compile information and facilitate the work sessions. The facilitator will write the necessary reports after the process is complete.   |                        |  |

| Project Category: Planning |  |                        |                                  |
|----------------------------|--|------------------------|----------------------------------|
| 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 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, OWEB, Clean Water Services  |                        |                                  |
| 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              | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges                 | Identifying upland owners who are interested in and realize the value of doing restoration work. Access to a greater diversity of native plant materials. Limited funding sources for projects.  |                        |                                  |
| Opportunities              | Learning what the needs are and potential restoration funding for upland areas. Educating and engaging a broader population of the Tualatin Basin in restoration activities. Potential for additional partnership with agencies and landowners. Increased bio-diversity and habitat on the landscape and reduced erosion will improved water quality and physical habitat for Tualatin Basin following implementation of projects. Projects would serve as demonstration projects to increase awareness and future potential projects. |                        |                                  |
| Planned Deliverables       | Continue to identify resources such as native plants and grant programs which upland owners need to enhance properties. Establish partnerships with potential agencies and organizations to implement this. Project identified in Upper McKay Creek watershed to be funded with BLM money. In 2017 we will be furnishing native plants to four uplands owners for enhancing their properties.  |                        |                                  |

| Project Category: Restoration |   |                        |                                  |
|-------------------------------|---|------------------------|----------------------------------|
| Project Title                 | Bonita Townhomes Natural Area Enhancement   | OWEB Grant #           | 13-16-004                        |
| Responsible Parties           | Coordinator/Executive Director  | Priority               | High                             |
| Project Description           | This project will control non-native invasives and install natives on 2.6 acres in the Fanno Watershed.   | In Council Action Plan | Yes                              |
| Key Partners                  | City of Tigard, Clean Water Services, Bonita Townhomes HOA, Friends of Trees  |                        |                                  |
| Limiting Factor(s)            | Lack of Knowledge, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.  |                        |                                  |
|                               |   |                        |                                  |
| Original Date                 | 2/23/2017   | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing of busy contractors and community volunteers and others to coordinate implementation of work. Site access had to be obtained by getting an easement from an adjacent landowners to allow contractor to treat and remove invasive Hawthorn trees. This may be a challenge for doing the native planting with community volunteers. The amount of invasive Hawthorn trees required additional contractor time. |                        |                                  |
| 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. The project will provide improved physical habitat and water quality in the stream reach. This will be new opportunity for the Friends of Trees to work directly with TRWC.                              |                        |                                  |
| Planned Deliverables          | This project is located on mainstem Fanno and its tributary Colony Creek. Removal and treatment of invasive plants will happen up to 4 times throughout the grant term. Contracted crews and community volunteers will plant up to 6,360 native plants on 2.6 acres along 0.05 miles of stream. Grant term ends October 2017 with report and documentation due December 2017.                                       |                        |                                  |

| Project Category: Restoration |   |                        |                                  |
|-------------------------------|---|------------------------|----------------------------------|
| Project Title                 | Carter Creek Restoration Project II   | OWEB Grant #           | 13-16-005                        |
| Responsible Parties           | Partner   | Priority               | High                             |
| Project Description           | This project will treat invasive species and plant 1,500 native trees and shrubs and install 200 live stakes on this 1.7 acre site in the Carter Creek Watershed.   | In Council Action Plan | No                               |
| Key Partners                  | SOLVE, TRWC, Clean Water Services, NORP   |                        |                                  |
| Limiting Factor(s)            | Staff capacity development, Lack of Knowledge, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.  |                        |                                  |
|                               |   |                        |                                  |
| Original Date                 | 2/23/2017   | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between invasive plant removal and availability/recruitment of community volunteers and others to plant and mulch and native plants.   |                        |                                  |
| Opportunities                 | Involvement of community volunteers in planting and mulching of native plants. Greater understanding by community volunteers of stream and natural resource processes.  |                        |                                  |
| Planned Deliverables          | Work on 0.3 miles of stream in 1.0 acres of riparian land plus 0.6 acres of uplands and 0.1 acres of wetlands. Ongoing removal and treatment of invasive species by community volunteers and contractors. Planting and mulching of 1,500 native trees and shrubs and installation of 200 live stakes by community volunteers. Work to date includes invasive plant removal and treatment by contracted crews and licensed applicator and volunteers. Grant ends October 2017 with report and documentation due December 2017. |                        |                                  |

| 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 on a one-mile stream reach of Clear Creek, a tributary to Gales Creek. The majority of the subwatershed 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. The proposed solution is to: 1) place up to 86 logs and/or whole trees in the stream to create pools and scour for fish habitat; 2) remove the obsolete water gauging structure; and 3) develop a small graded riffle at the intake structure for migrating fish. Following construction, Rapid Bioassessments (RBA) will be performed to evaluate fish passage. | In Council Action Plan | Yes                                    |
| Key Partners                  | City of Forest Grove, ODFW, Trout Mountain Forestry OWEB, Bio-Surveys, LLC   |                        |  |
| Limiting Factor(s)            | 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                 | 2/23/2017  | % 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. These challenges did not prevent the project from being completed in a timely manner.   |                        |  |
| Opportunities                 | The project improved habitat and habitat access and water quality in this stream reach. Build 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 | Project work complete with all objectives met. Pacific University students filmed a video showing the results of the project. TRWC plans to put the video on its website in the future. Project completion report submitted March 2015. Fall 2016 Rapid Bio-assessment completed; fall 2017 rapid bio-assessment planned for trends monitoring. Monitoring reports due in 2017 and 2019. |  |  |
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| Project Category: Restoration |  |                        |                       |
|-------------------------------|--|------------------------|-----------------------|
| Project Title                 | Gales Creek Clear Creek Confluence Project   | OWEB Grant #           | 217-3009              |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                  |
| Project Description           | To reconnect hyporheic and ground water flows to an extensive network of side channels located at the confluence, the project will reintroduce peak winter flows into a network of well integrated side channels by modifying an existing upstream dike. Large wood structures placed in this network will create pool scour that can be accessed in the summer by temperature dependent summer migrants.                                  | In Council Action Plan | Yes                   |
| Key Partners                  | Bureau of Reclamation, Clean Water Services, 3 Landowners, ODFW, 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                 | 2/23/2017  | % Complete             | 30% - Funding secured |
| Challenges                    | Obtaining funding from multiple sources during a timeframe that allows the implementation of the project. Obtain permits in a timely manner to allow implementation during 2017 in-water work period.  |                        |                       |
| Opportunities                 | The monitoring will give us more information about the movement of hyporheic and ground water flows and the impact it has on temperature in side channels attached to Gales Creek.   |                        |                       |
| Planned Deliverables          | To increase the amount of cold-water habitat for juvenile salmon during critical low flow periods during the summer. To monitor the impact of increased hyporheic flow on cold water. Increase sinuosity main stem Gales Creek through placement of large wood structures. Improve water quality through removal of legacy garbage dump on mainstem Gales Creek. Increase coniferous wood for future wood recruitment for the flood plain. |                        |                       |

| Project Category: Restoration |  |                        |                                  |
|-------------------------------|--|------------------------|----------------------------------|
| Project Title                 | Little Beaver Creek Culvert Replacements   | OWEB Grant #           | 13-16-010                        |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                             |
| Project Description           | Little Beaver Creek is a tributary of Gales Creek. The grant will replace one culvert crossing that will provide fish passage and greater sustainability for high water events.  | In Council Action Plan | Yes                              |
| Key Partners                  | Maier Family, Joint Water Commission, ODFW   |                        |                                  |
| Limiting Factor(s)            | Habitat Access - Impaired access to habitat, Water Quality -Altered physical, chemical, or biological water characteristics.   |                        |                                  |
| Original Date                 | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor to remove damaged culvert and replace with fish passage friendly culvert during in-water work period. Timing of fish salvage to meet needs of the project.  |                        |                                  |
| Opportunities                 | Greater understanding by landowners of stream and natural resource processes. Potential to participate in floodplain enhancement in the future to provide stream canopy (lower stream temperatures) and sediment capture. Potential to do tour to recruit neighbors on Little Beaver Creek to do riparian area projects. |                        |                                  |
| Planned Deliverables          | Current fish passage impediment will be removed and replaced with a fish friendly culvert. Decrease of sediment input to stream from damaged culvert. Up to 300 native plants will be planted in the disturbed area of the culvert crossing.   |                        |                                  |

| 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 site preparation and maintenance activities (spraying and mowing) and community volunteers for invasive plant removal and planting activities since 2005. Over the next several years, TRWC will continue its site maintenance on previously planted areas. In 2014 our contractor developed a planting plan for 14 areas. These areas are going to be prepared for planting over the next few years. | In Council Action Plan | No                               |
| Key Partners                  | Bureau of Reclamation, OWEB, Washington County, Clean Water Services, NW OR Restoration Partnership,   |                        |                                  |
| Limiting Factor(s)            | Staff capacity development, 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.  |                        |                                  |
|                               |  |                        |                                  |
| Original Date                 | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges                    | Completion of site preparation for native planting during appropriate times. Recruitment of community volunteers for planting activities. Staff availability for oversight of all these activities.  |                        |                                  |
| Opportunities                 | Recruitment of Pacific University students to recruit volunteers, plan planting activities, and oversee the work. This will enhance staff capacity. 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. As the planting are implemented habitat access, water quality and physical habitat will be improved.  |                        |                                  |
| Planned Deliverables          | Continued maintenance and monitoring for 2016 plantings of approximately 3,000 native plants on approximately one acre to enhance source water protection. This work was funded through a grant from Joint Water Commission. City of Hillsboro employees and Joint Water Commission employees volunteered for several planting days. Ongoing maintenance will be paid by a BOR grant and plantings will be by volunteers.  |                        |                                  |

| 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 storm water runoff and stabilize the stream banks. Additionally, native trees such as Western red cedar, Douglas fir, red alder and big leaf 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)            | 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.  |                        |  |
| Original Date                 | 2/23/2017  | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Timing between availability of busy contractor to get the site prep and planting done at the best time for the plants. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for planting worked out well.   |                        |  |
| 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. As the project is implemented the habitat access, water quality and physical habitat will be improved   |                        |  |
| Planned Deliverables          | A total of 0.12 miles of stream on 2.32 acres were treated by contracted crews four times during the grant term for invasive plants. Contracted crews planted 5,500 native plants. On going monitoring and maintenance is being done with post plant establishment grant funds and homeowners' association fees. The completion report was submitted in November 2015 and the two-year report will be due in November 2017.  |                        |  |

| Project Category: Restoration |  |                        |                                  |
|-------------------------------|--|------------------------|----------------------------------|
| Project Title                 | Rock Creek Forest Restoration - Varma II   | OWEB Grant #           | 13-16-006                        |
| Responsible Parties           | Project Manager  | Priority               | High                             |
| Project Description           | Small Grant Program funds will be used to accelerate forest restoration through a concentrated effort of plant control and native planting on 1.1 acres and 0.12 stream miles near the headwaters of South Rock Creek in Clackamas County of the Tualatin River watershed.   | In Council Action Plan | Yes                              |
| Key Partners                  | TRWC, Our Table, Clean Water Services, Community by Design, CREST High School, NORP  |                        |                                  |
| Limiting Factor(s)            | Staff capacity development, 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.  |                        |                                  |
| Original Date                 | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.   |                        |                                  |
| Opportunities                 | Having a project manager has expanded our staff capacity. 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(high school students) of stream and natural resource process. Once the project is implemented and the habitat access, water quality and physical habitat will be improved. |                        |                                  |
| Planned Deliverables          | Enhance and establish a riparian forest along 0.12 stream miles on 1.1 acres of Lower Rock Creek. Do high density planting and mulching of 3,200 plants to reduce long term maintenance and provide shade more quickly. High school students will be included with community volunteers to learn about riparian restoration. This grant ends on October 2017 with the final report and documentation due December 2017.  |                        |                                  |

| 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 feet 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, Habitat Restoration NW, LLC   |                        |  |
| Limiting Factor(s)            | Staff capacity development, 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.  |                        |  |
|                               |   |                        |  |
| Original Date                 | 2/23/2017   | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.  |                        |  |
| Opportunities                 | Having a project manager has expanded our staff capacity. 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. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.  |                        |  |
| Planned Deliverables          | We treated 0.8 riparian acres and 1.2 upland acres on 0.1 miles of stream. Contracted crews mechanically removed invasive species since it is an bio-dynamic farm and chemicals are not allowed. This needed to be done repeatedly. Contracted crews and volunteers planted 2,075 native plants (150 volunteer hours). The volunteers were from local high schools. The students learned about bio-diversity, native plants and the environment. The completion report was submitted December 2015. On going monitoring and maintenance are being done with post project plant establishment funding. The two year report is due December 2017. |                        |  |

| Project Category: Restoration |  |                        |                                  |
|-------------------------------|--|------------------------|----------------------------------|
| Project Title                 | Summer Creek Headwaters Enhancement II   | OWEB Grant #           | 13-16-001                        |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                             |
| Project Description           | This project will treat invasive plants along Summer Creek in Washington County on a 16.5 acre site (12 acres of riparian area, 4.5 of uplands). Following invasive treatment, 3,500 native plants will be installed throughout the site.  | In Council Action Plan | Yes                              |
| Key Partners                  | City of Beaverton, Clean Water Services, Murrayhill Owners Association, Friends of Trees   |                        |                                  |
| 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.  |                        |                                  |
| Original Date                 | 2/23/2017  | % Complete             | 60% - Implementation in progress |
| Challenges                    | Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well  |                        |                                  |
| 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. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved. |                        |                                  |
| Planned Deliverables          | Four invasive treatments by contracted crews between fall 2015 and fall 2017. 3,950 native plants will be installed and mulched by volunteers and Cascade Environmental Corp in fall 2016 and winter 2017. A project partner sign will be installed. Grant completion date is October 2017 with the report and documentation due December 2017.  |                        |                                  |

| 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, and 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 that 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)            | 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.   |                        |  |
|                               |   |                        |  |
| Original Date                 | 2/23/2017   | % Complete             | 95% - Maintenance/Monitoring/Education |
| Challenges                    | Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well.  |                        |  |
| 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. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved.                |                        |  |

|                      |   |  |  |
|----------------------|---|--|--|
| Planned Deliverables | <p>Project completion report submitted in November 2015, two-year report is due November 2017. Two project partner signs installed fall of 2015. Ongoing monitoring and maintenance by the Murrayhill Owners Association. Project Results: 3,950 native plants were installed by community volunteers and residence (495 volunteer hours) and Cascade Environmental Corp on 0.54 stream miles and 8.4 acres. Four invasive treatments were done by contracted crews. This project lead to a second enhancement project (on land owned by the Murrayhill Owners Association) along one of the headwater streams of Summer Creek.</p> |  |  |
|----------------------|---|--|--|

| Project Category: Restoration |  |                        |                       |
|-------------------------------|--|------------------------|-----------------------|
| Project Title                 | Upper McKay Watershed Forest Restoration Project   | OWEB Grant #           |                       |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High                  |
| Project Description           | The project will focus on specific activities that address sedimentation issues including clearing debris from plugged culverts; replanting abandoned or unnecessary roads or trails; recommending trail realignment to protect steep slopes. It will also focus on removal of invasive species and replanting with native shrubs and trees. | In Council Action Plan | Yes                   |
| Key Partners                  | Bureau of Land Management, West Multnomah SWCD, Tualatin SWCD, landowners  |                        |                       |
| 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.  |                        |                       |
| Original Date                 | 2/23/2017  | % Complete             | 30% - Funding secured |
| Challenges                    | Finding ways to connect with landowners whose lands could result in beneficial and high ranking projects and who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowner interest.   |                        |                       |
| Opportunities                 | Collaboration with TRWC partners and upper McKay Creek watershed landowners in development and implementation of projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved. |                        |                       |
| Planned Deliverables          | Development of enhancement projects with willing landowners resulting in implementation of projects that address erosion issues in the upper McKay Creek watershed.  |                        |                       |

| Project Category: Restoration |  |                        |  |
|-------------------------------|--|------------------------|--|
| Project Title                 | West Fork Beaver Creek Passage Replacement   | OWEB Grant #           |  |
| Responsible Parties           | Coordinator/Executive Director   | Priority               | High   |
| Project Description           | An identified high priority culvert was damaged during 2015 high waters. Working with Weyerhaeuser, Oregon Dept. of Fish & Wildlife and a private landowner, the crossing will be replaced with a bridge. In addition, large wood debris will be placed to capture gravels and sediment. | In Council Action Plan | Yes  |
| Key Partners                  | Weyerhaeuser, ODFW, private landowner  |                        |  |
| Limiting Factor(s)            | 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                 | 2/23/2017  | % Complete             | 5-30% - Conceptual/ Planning/ Submitting Grant application |
| Challenges                    | Timing of busy contractors, ODFW staff and others to coordinate implementation of work.<br>Timing of funding availability.   |                        |  |
| Opportunities                 | The project improved fish passage access, in-stream habitat and water quality in this stream reach. Build partnership for future restoration projects with Weyerhaeuser and ODFW.  |                        |  |
| Planned Deliverables          | Removal of identified high priority fish passage barrier in West Fork Beaver Creek; improvement of in-stream habitat, capture of gravels and sediment.   |                        |  |