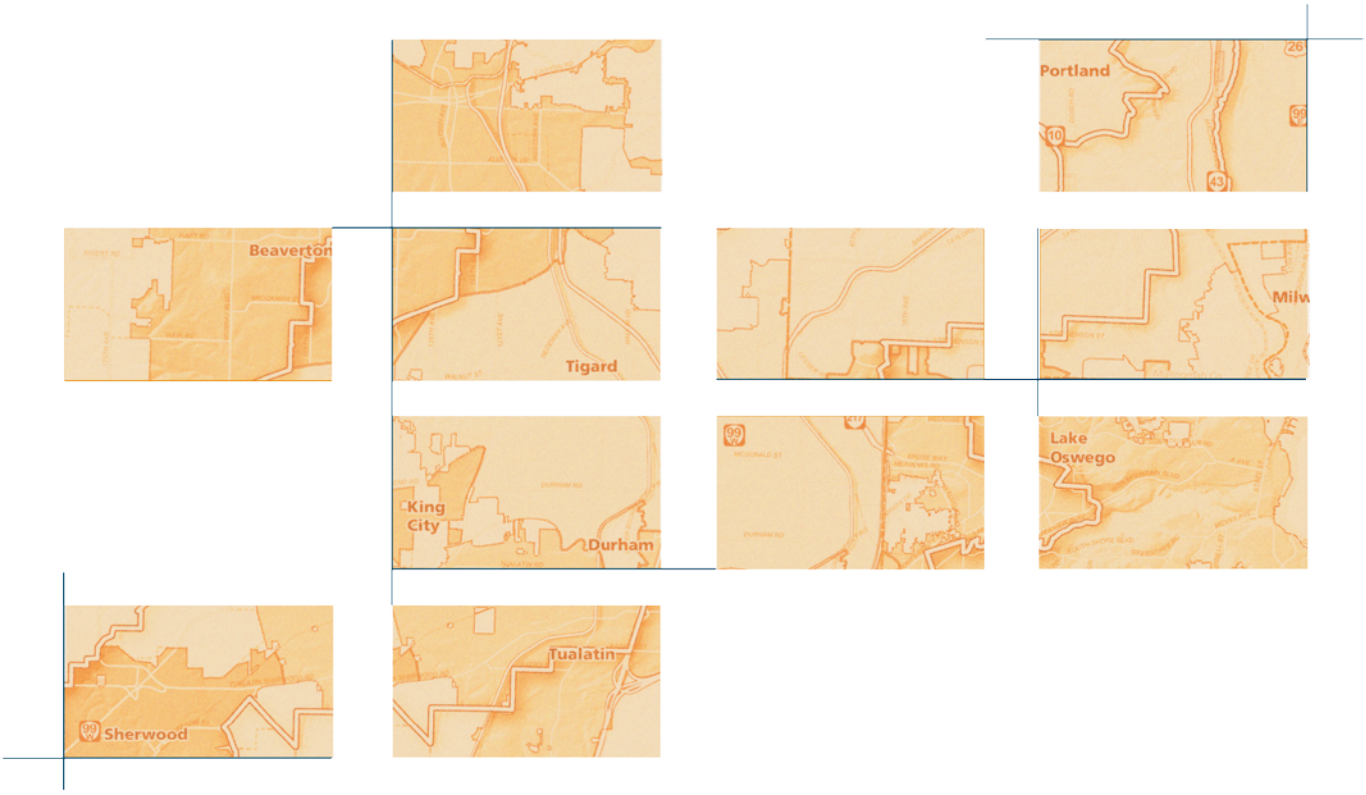

GREAT PLACES
SW Corridor Plan

Appendix F: Green Project Opportunity List

May 28, 2014

PROJECT PARTNERS

Cities of Beaverton, Durham, King City, Lake Oswego, Portland, Sherwood, Tigard and Tualatin, Multnomah and Washington counties, Oregon Department of Transportation, TriMet and Metro

Parks, trails, and natural areas are essential elements of what draws people to live, work and play in this region. They are consistently cited as some of the Southwest corridor's most important and attractive features.

Gathering information from local plans, project partners have compiled a list of over 350 "green" projects in the corridor including parks, trails and natural areas as well as water quality improvements and natural resource enhancements like improved wildlife habitat corridors and replacing or retrofitting culverts for fish passage.

Project partners have been asked to sort and prioritize this green project list, examine likely funding sources and develop a collective strategy for grant writing and strategic use of existing or new funds. Very few of these projects will be directly attached to any constructed transit project, but could be identified as high priority opportunities with local development projects. This project list and approach offers an opportunity to focus on large projects that can achieve measurable ecological and financial benefits. The project list and related maps can be used to coordinate across jurisdictional boundaries and select park, trail and habitat projects that support transit and new land uses.

SOUTHWEST CORRIDOR REFINEMENT PHASE

Green Projects: Discussion Draft

TIGARD

BURLINGAME

SEE INSET MAP ABOVE

SEE INSET MAP BELOW

WASHINGTON CO.
MULTNOMAH CO.

WASHINGTON CO.
CLACKAMAS CO.

Willamette River

Fanno Creek

Tualatin River

GREEN PROJECTS

- Natural Resource
- Park/Nat. Resource
- Stormwater
- Fish Project

- Light Rail (Existing or Under Construction)
- WES Commuter Rail
- Streetcar (Existing or Under Construction)
- Aerial Tram
- Urban Growth Boundary
- County Boundary

RECOMMENDED FOR FURTHER STUDY IN DEIS

- Bus Rapid Transit (BRT) Design Options
- Light Rail (LRT) Design Options
- Design Options for BRT or LRT

REQUIRE FURTHER DISCUSSION BEFORE RECOMMENDATION

- Bus Rapid Transit (BRT) Design Options
- Light Rail (LRT) Design Options
- Design Options for BRT or LRT
- Tunnel Design Options

0 ½ 1 mile

May 8, 2014

###	Project Title Project Description	Cost Timing
PORTLAND		
PDX-1	**Willamette Greenway trail gaps** The goal is to protect fish and wildlife habitat, water quality, scenic resources and improve public access to the river along the greenway from Wilsonville to the Multnomah Channel.	$$ Mid-Term
PDX-2	**Acquire 56 Acres: Fanno Creek Watershed** Fanno Creek is one of the acquisition targets for Natural Areas in the Park System Development Charge Acquisition & Development Plan for the SW Corridor.	$ Mid-Term
PDX-3	**Acquire 56 Acres: Westside Wildlife Corridor** A westside wildlife corridor is one of the acquisition targets for Natural Areas in the Park System Development Charge Acquisition & Development Plan for the SW Corridor.	$ Mid-Term
PDX-4	**Acquire 84 Acres: Tryon Creek Watershed** Land in the Tryon Creek watershed is one of the acquisition targets for Natural Areas in the Park System Development Charge Acquisition & Development Plan for the SW Corridor.	$ Mid-Term
PDX-5	**Red Electric Trail** Implement the 2007 Red Electric Trail Planning Study (Fanno Greek Trail through PDX) by developing a bike/ped crossing at Barbur Blvd to the old SW Slavin Rd. R.O.W.	$$ Mid-Term
PDX-6	**Red Electric Trail** Implement the 2007 Red Electric Trail Planning Study (Fanno Greek Trail through PDX) by developing a bike friendly connection from Park Hill Dr. to the Willamette Greenway.	$$ Mid-Term
PDX-7	**Red Electric Trail** Implement the 2007 Red Electric Trail Planning Study (Fanno Greek Trail through PDX) by developing SW Shattuck to SW Cameron section of RE Trail (project is funded for SW 30th to SW Vermont).	$ Short-Term
PDX-8	**Red Electric Trail** Implementation of the 2007 Red Electric Trail Planning Study (Fanno Greek Trail through PDX). Acquire & Develop: Washington County Line to SW Shattuck section of RE Trail.	$ Mid-Term
PDX-9	**Hillsdale to Lake Oswego Trail** Develop a sustainable trail (soft surface) between Tryon Creek State Natural Area and Marshall Park, and contribute to funded BES culvert replacement project at Boones Ferry Road, Arnold and Tryon Creeks. Make-up shortfall to provide for pedestrian passage.	$ Short-Term
PDX-10	**South Waterfront Greenway Phase I** Create a new high-density urban community while supporting the habitats along the Willamette River. Phase 1 is partially funded for Riverward improvements - additional funding needed to finish project.	$$ Short-Term
PDX-11	**City Greenways** Develop city connections, greenways and corridors. A system of habitat connections, neighborhood greenways and civic corridors will weave nature into the city and sustain healthy, resilient neighborhoods, watersheds and Portlanders.	$$ Mid-Term
PDX-12	**Dickinson Park** Implement master plan vision for this underdeveloped PP&R property.	$ Mid-Term
PDX-13	**Hillsdale Park** Implement master plan vision for this underdeveloped PP&R property.	$ Mid-Term
PDX-14	**Spring Garden Park** Implement master plan vision for this underdeveloped PP&R property.	$ Mid-Term
PDX-15	**Heritage Tree Park** Focus on undeveloped PP&R properties in need of Master Plans and development.	$ Mid-Term
PDX-16	**SW Dickinson & 62nd** Focus on undeveloped PP&R properties in need of Master Plans and development.	$ Mid-Term
PDX-17	**SW Talbot Property** Focus on undeveloped PP&R properties in need of Master Plans and development.	$ Mid-Term
PDX-18	**Sylvania Park** Focus on undeveloped PP&R properties in need of Master Plans and development.	$ Mid-Term
PDX-19	**Acquire & Develop 4 acres: So. Waterfront** Imlement parks targets for acquisition and development in the Park System Development Charge Acquisition & Development Plan (park deficient areas) for the SW Corridor.	$$ Mid-Term
PDX-20	**Acquire & Develop 4 acres: Hillsdale** Imlement parks targets for acquisition and development in the Park System Development Charge Acquisition & Development Plan (park deficient areas) for the SW Corridor.	$ Mid-Term
PDX-21	**Acquire & Develop 2 acres: John's Landing:** Imlement parks targets for acquisition and development in the Park System Development Charge Acquisition & Development Plan (park deficient areas) for the SW Corridor.	$ Mid-Term
PDX-22	**Acquire & Develop 10 acres: Southwest– largest gap in service** Imlement parks targets for acquisition and development in the Park System Development Charge Acquisition & Development Plan (park deficient areas) for the SW Corridor.	$ Mid-Term
PDX-23	**Watershed Health** Implement Watershed Health Strategy to Reduce impervious surfaces and/or retrofit impervious surfaces to reduce impacts.	$ Short-Term
PDX-24	**Watershed Health** Implement Watershed Health Strategy to manage all stormwater runoff from new development and redevelopment in accordance with the requirements of the Stormwater Management	$ Ongoing
PDX-25	**Watershed Health** Watershed Health Strategy - Assess, repair and/or replace existing stormwater outfalls along Barbur Boulevard as needed. In particular, outfall repairs and/or replacements should be designed so as not to cause erosion and degradation of receiving streams.	$ Ongoing
PDX-26	**Watershed Health** Watershed Health Strategy - Restore stream functions and stability in planning areas when possible.	$ Ongoing
PDX-27	**Watershed Health** Watershed Health Strategy - Restore habitat connectivity through revegetation, land acquisition, stream daylighting, and other methods when possible.	$ Ongoing
PDX-28	**Watershed Health** Watershed Health Strategy - Increase canopy and other vegetative cover and improve the quality and composition of vegetation including street trees.	$ Ongoing
PDX-29	**Watershed Health** Watershed Health Strategy - Protect sites and features with high watershed value. This could include acquisition, easements, or other methods	$ Ongoing
PDX-30	**Tri-Met Park and Ride Stormwater Retrofit** Design is underway for this project that will treat stormwater runoff on 243,000 square feet of Tri Met property at the Barbur Boulevard Transit Center. Swales will filter stormwater runoff from parking lots, bus shelters and bus lanes.	$ Short-Term
PDX-31	**S. Ash Creek Stream Enhancement** Design is underway for this stream and sewer protection project in the Ash Creek natural area in the Tryon Creek watershed. The project will stabilize the channel, protect the sewer pipe where it crosses the stream, and improve water quality.	$ Mid-Term

###	Project Title Project Description	Cost Timing
PDX-32	**Raindrop Walk Green Street** Environmental Services Worked with the community to develop a management plan for the Fanno Creek and Tryon Creek watersheds. The plan recommended project sites to improve water quality, address public interests, enhance fish and wildlife habitat, improve infrastructure, and restore watershed functions. The Multnomah Village Raindrop Walk green street is a showcase for green street improvements.	¢ Mid-Term
PDX-33	**Reach 1 Hwy 43 to Iron Mountain** Fanno/Tryon Water Quality Facilities, Infrastructure protection and stream enhancement	$ Mid-Term
PDX-34	**Reach 6 Boones Ferry to Marshall Park** Fanno/Tryon Water Quality Facilities, Infrastructure protection and stream enhancement	¢ Short-Term
PDX-35	**Boones Ferry Culvert Retrofit** Salmon can reach the existing culvert under Boones Ferry Road but cannot get over the obstruction there. BES has put the culvert replacement project into its Capital Improvement Plan for design.	$ Short-Term
PDX-36	**Fanno SW 45th Avenue Culvert Replacement CIP #86** Replace culvert as part of larger project to upsize area pipe segments, and install stormwater controls to relieve street flooding and basement sewer backups.	$ Short-Term
PDX-37	**Tryon I-5 at SW 26th WQ Facility CIP #8679** Part of a group of projects to implement the recommendations of the Fanno/ Tryon Watershed Plan and the objectives of the TMDL. Projects include acquisition of land to protect watershed functions; construction of stormwater facilities to treat runoff from imperious surfaces including right-of-ways and major commercial concentrations, retrofit/replacement of culverts to increase capacity and provide fish passage; rehabilitation/replacement of degraded stormwater outfalls, stabilization of eroding steam banks, and daylighting of stream segments currently encased in pipe.	$ Short-Term
PDX-38	**Jackson MS Storm Daylighting & SW Retro CIP #8680** Stream daylighting and stormwater management	$ Short-Term
PDX-39	**Tryon Spring Garden Stream Daylighting CIP #8681** Stream daylighting and stormwater management	¢ Short-Term
PDX-40	**Stormwater Outfall Maintenance CIP #8677** Stormwater outfall maintenance and repair	$ Short-Term
PDX-41	**Fanno/Tryon Water Quality Facilities CIP #8687** Stormwater management	$ Short-Term
PDX-42	**Multnomah Arts Center West Parking Lot** Design began in spring 2010 for stormwater management facilities to detain and treat runoff from 50,000 square feet of impervious area at the Multnomah Arts Center in the Tryon Creek watershed.	$ Short-Term
PDX-43	**Beaverton Hillsdale Highway Drainage Improvement** Stormwater management	$ Short-Term
PDX-44	**Portland Community College's forested area adjacent to Ash Creek Natural Area** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Mid-Term
PDX-45	**Western end of the Arnold/Tryon Creek corridor** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Short-Term
PDX-46	**The narrow treed area between Ash Creek Natural Area and Woods Memorial Natural Area** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Short-Term
PDX-47	**Corridors between Woods Memorial Natural Area to Gabriel and April Hill Parks** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Mid-Term
PDX-48	**Corridor from Riverview Cemetery through any of three potential routes to (a) George Himes Park, (b) Terwilliger natural areas, (c) Marquam Nature Park, Council Crest and eventually Forest Park** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Short-Term
PDX-49	**Park Site behind Fred Meyer** Preliminary concept idea for implementing neighborhood park for proposed increased density at focus areas on Barbur Boulevard	$ Mid-Term
PDX-50	**Park Site behind Safeway** Preliminary concept idea for implementing neighborhood park for proposed increased density at focus areas on Barbur Boulevard	$ Mid-Term
PDX-51	**SW 53rd Neighborhood Greenway** Provide safe pedestrian/bike facilities for connectivity	$ Short-Term
PDX-52	**Sidewalks, Street Trees, and Green Streets in SW Corridor** Improving active transportation links, new sidewalks, greenways for better access and connectivity	¢ Ongoing
PDX-53	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #7 on Ball Creek. Unknown passage status. Barrier subtype is 'full box.'	$ Mid-Term
PDX-54	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #15. Unknown passage status. Barrier subtype is 'round.' Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Culvert is not on straight-line chart. Lower 25' backflows, possible velocity barrier.	$ Mid-Term
PDX-55	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #24 on Arnold Creek. Passage status is blocked. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert, located at SW Lancaster Rd. It is 1.3M concrete.	$ Mid-Term
PDX-56	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #26 on South Fork Ash Creek. Barrier subtype is unknown. Passable passage status. Professional judgment was used to evaluate this culvert, located as SW 55th.	$ Mid-Term

Cost: **¢** = up to $500,000 **$** = up to $5M **$$** = up to $10M **$$$** = up to $20 M **$$$$** = more than $20M

###	Project Title Project Description	Cost Timing
PDX-57	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #27 on South Fork Ash Creek. Barrier subtype is unknown. Professional judgment was used to evaluate this culvert.	$ Mid-Term
PDX-58	**Remove Fish Barrier** Remove unnamed structure ODFW ID #29 on South Fork Ash Creek. Barrier type is an exposed sewer pipe. Partially blocked passage status. Professional judgment was used to evaluate this structure.	$ Mid-Term
PDX-59	**Remove Fish Barrier** Remove unnamed structure ODFW ID #31 on South Fork Ash Creek. Passable passage status. Professional judgment was used to evaluate the structure. Comment says, "house on top of creek SW Lauradel."	$ Mid-Term
PDX-60	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #33 on South Fork Ash Creek. Partially blocked passage status. Professional judgment was used to evaluate this culvert at SW 62nd, at a housing development.	$ Mid-Term
PDX-61	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #34 on South Fork Ash Creek. Passable passage status. Professional judgment was used to evaluate the culvert, near a walking path.	$ Mid-Term
PDX-62	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #46 on Tryon Creek. Partially blocked passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate the culvert at SW Maple Crest Dr. It is 1.7m metal.	$ Mid-Term
PDX-63	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #48 on Tryon Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW 18th Pl. It is 1.7m metal.	$ Mid-Term
PDX-64	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #49 on Woods Creek. Blocked passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW Taylors Ferry Rd. It is 0.8m metal.	$ Mid-Term
PDX-65	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #50 on Tryon Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert.	$ Mid-Term
PDX-66	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #51 on Tryon Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert.	$ Mid-Term
PDX-67	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #54 on Ash Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW 55th. It is 0.8m concrete.	$ Mid-Term
PDX-68	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #58 on Ash Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW Lancaster. It is 0.7m concrete.	$ Mid-Term
PDX-69	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #59 on Falling Creek. Barrier subtype is 'round.'	$ Mid-Term
PDX-70	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #60 on Falling Creek. Barrier subtype is 'round.'	$ Mid-Term
PDX-71	**Remove Fish Barrier** Remove unnamed structure ODFW ID #62 on Ash Creek. Partially blocked passage status. Barrier type is an exposed sewer pipe. Professional judgment was used to evaluate this structure. Comment says, "step ht=0.45m exposed sewer pipe crossing."	$ Mid-Term
PDX-72	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #63 on Woods Creek. Blocked passage status. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW 45th. It is 0.9m metal.	$ Mid-Term
PDX-73	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #64. Unknown passage status. Barrier subtype is 'round.'	$ Mid-Term
PDX-74	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #65 on Ash Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW Orchid Dr. It is 1.2m concrete.	$ Mid-Term
PDX-75	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #66 on Ash Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert at SW Dolph. It is 1.0m concrete.	$ Mid-Term
PDX-76	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #67 on Wood Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert SW Garden Home Rd. It is 1.0m metal.	$ Mid-Term
PDX-77	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #68 on Vermont Creek. Barrier subtype is 'round.' Professional judgment was used to evaluate this culvert. Comments include, "end of survey; cr. Never surface 0.65m concrete no drop."	$ Mid-Term
PDX-78	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #69. Barrier subtype is 'round.' Owner is ODOT. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Comments include, "not on straight-line chart. 0.4 miles north of Sellwood Br. 4' falls above culvert. City culvert below appears to be velocity barrier."	$ Mid-Term
PDX-79	**Custer Park Pollution Reduction Facility** Custer Park pollution reduction facility upgrade; expansion of capacity and function of existing swale and pond located along Custer Creek in Custer Park to improve stormwater services and recreation use. BES: Project 5.2/2014 CIP - $230,000	¢ Short-Term
PDX-80	**Stephens Creek Nature Park Detentions and Wetland facilities** Stephens Nature Park in-line detention and wetland enhancement; construct detention facility in Stephens Creek upstream of the Burlingame culvert and enhance existing wetland, consistent with 2005 A Functional Plan for Stephens Creek Nature Park and planned 2013 trail improvements. BES: Project 31.1a/b /2014 CIP - $750,000	$ Short-Term
PDX-81	**Raz Wetlands** Raz property wetland detention facility; detention and stream channel construction in undeveloped property at the headwaters of Stephens Creek. BES has a signed contract in place to purchase this property. BES: Project 24.6/2014 CIP - $1,030,000	$ Short-Term
PDX-82	**Greater Portland Bible Church neighborhood facility** Greater Portland Bible Church neighborhood facility; an opportunity exists to construct a vegetated stormwater treatment facility on a tax lot adjacent to the Greater Portland Bible Church. BES: Project 6.1/6.3/ CIP 2014	$ Short-Term
PDX-83	**Stephens Creek Tributaries Outfall Repair** Repair and enhancement of 17 public and private stormwater outfalls on the River View, River View South, and Ruby Creek tributaries of Stephens Creek. BES: Project /CIP 2014 - $960,000	$ Short-Term

###	Project Title Project Description	Cost Timing
PDX-84	**Right-of-way Retrofit Shell** Provides a flexible means to construct stormwater retrofits to the existing system on streets identified as high-priority for detention and/or and pollution reduction. I-5. BES: Project / CIP 2014 - $1,000,000	$ Short-Term
PDX-85	**SW Terwilliger Shared Detention Facility** ODOT Shared Detention and Pollution Reduction Facilities - SW Terwilliger shared detention facility. BES: Project 23.1a/ CIP 2015 - $220,000	¢ Short-Term
PDX-86	**Fulton Park Neighborhood Wetland Facility** ODOT Shared Detention and Pollution Reduction Facilities - Fulton Park neighborhood wetland facility adjacent to the community garden. BES: Project 21.2b/ CIP 2015 - $470,000	¢ Short-Term
PDX-87	**A-Boy Plumbing neighborhood detention facility** ODOT Shared Detention and Pollution Reduction Facilities - A-Boy Plumbing neighborhood detention facility adjacent to I-5 in existing low point. BES: Project 21.1a/ CIP 2015 - $1,280,000	$ Short-Term
PDX-88	**Stormwater filter vault at ODOT right-of-way** ODOT Shared Detention and Pollution Reduction Facilities - Stormwater filter vault at ODOT right-of-way, which can treat both I-5 runoff, city streets, and private property. BES: Project 23.2/ CIP 2015 - $500,000	¢ Short-Term
PDX-89	**Local stormwater treatment facilities on I-5 overpasses** ODOT Shared Detention and Pollution Reduction Facilities - Local stormwater treatment facilities on I-5 overpasses. BES: Project 23.3/ CIP 2015 - $110,000	¢ Short-Term
PDX-90	**Rain gardens for bioremediation of I-5 outfalls** ODOT Shared Detention and Pollution Reduction Facilities - Rain gardens for bioremediation of I-5 outfalls adjacent to Stephens Creek. BES: Project 25.5/ CIP 2015 - $140,000	¢ Short-Term
PDX-91	**River View Tributary Improvements** Stephens Creek Tributaries Habitat Restoration - River View Tributary—improve near-stream habitat; this project will improve habitat conditions in the stream by restoring in-stream habitats and wetlands, and improving habitat connectivity through bank layback, and installation of large wood. It will improve the diversity of native plants in the riparian area. BES: Project 9.3a/ CIP 2015 - $260,000	¢
PDX-92	**River View neighborhood scale wetland facility** Stephens Creek Tributaries Habitat Restoration - River View neighborhood scale wetland facility; this project will enhance wetlands associated with River View and Taylors Ferry tributaries to improve habitat, peak flows, and water quality. BES: Project 9.5/ CIP 2015 - $67,000	¢
PDX-93	**Crestline Creek Stream Improvements** Stephens Creek Tributaries Habitat Restoration - Crestline Creek—improve near-stream habitat; this project will include removal of invasive plants and revegetation with native plants, improvement of near-stream habitat, and educate and encourage property owners to remove invasive plants and re-populate with riparian vegetation along the Crestline Creek riparian corridor, including the area along the surface channel near the headwaters. BES: Project 12.4/CIP 2015 - $40,000	¢
PDX-94	**Ruby Creek Stream Improvements** Stephens Creek Tributaries Habitat Restoration - Ruby Creek—improve near-stream habitat; this project will focus on education and outreach to encourage property owners to remove invasive plants and re-populate revegetation with native plants and riparian vegetation along the Ruby Creek riparian corridor to where it flows into the mainstem Stephens Creek. BES: Project 19.3/ CIP 2015 - $22,000	¢
PDX-95	**Private Property Partnership Shell** Stephens Creek Tributaries Habitat Restoration - This shell will fund projects that mitigate stormwater runoff from existing impervious surface on private property or create stormwater assets not owned and operated by BES. The Private Property Partnership Shell is intended as a flexible means to incentivize stormwater projects on private properties that help cost-effectively meet BES's stormwater system improvements needs. This could include funding larger facilities than would otherwise be required by the SWMM or construction of habitat and restoration projects in natural systems that are impaired by runoff from the BES stormwater system. BES: Project BWRF.2/ Select projects for CIP 2015 - $2,007,000 + 850,000 for commercial property retrofits with ecoroof and pervious pavement.	$
PDX-96	**Fulton Park stream daylighting** Headwaters Stream Enhancement and Daylighting - Fulton Park stream daylighting; there is an opportunity to daylight the piped stormwater runoff in Fulton Park to the adjacent historic channel (Miles Creek), which would ultimately lead to improved habitat and biological communities. The runoff would be attenuated and treated before returning to the pipe and being conveyed under I-5. BES: Project 32.1/CIP 2017 - $860,000	$
PDX-97	**In-stream habitat improvements at Cloverleaf Apartment** Headwaters Stream Enhancement and Daylighting - Improve in-stream habitat at Cloverleaf Apartments; this project consists of restoration work at the Clover Leaf reach of the Stephens Creek mainstem. This project should consider the presence of hydric soils and work to improve connectivity of the stream to springs and remnant floodplain elevations. Riparian and in-stream restoration will include bank layback where downcutting has occurred, installation of large wood complexes to create small in-stream pools, addition of coarse sediment materials to improve in-stream habitat. Riparian enhancement will include replanting with riparian and emergent vegetation. Reconstruct discharge outfalls from building and parking stormwater runoff to enhance floodplain function. BES: Project 31.4/ CIP 2017 - $471,000	¢
PDX-98	**Capitol Hills Condos stream daylighting** Headwaters Stream Enhancement and Daylighting - Capitol Hills Condos stream daylighting; work with private property owners to remove piped section of Stephens Creek through the Condo complex. Replace with restored stream channel and adjacent riparian area. BES: Project 24.8/ CIP 2017 - $1,470,000	$
PDX-99	**Shadow Hills Apartments stream enhancement** Headwaters Stream Enhancement and Daylighting - Shadow Hills Apartments stream enhancement; restoration work at the Shadow Hills reach of Stephens Creek should consider the presence of hydric soils and work to improve connectivity of the stream to springs and remnant floodplain elevations (present or created). Riparian and in-stream restoration of the Shadow Hills reach of Stephens Creek will include bank layback where downcutting has occurred, installation of large wood complexes to create small in-stream pools, addition of coarse sediment materials to improve in-stream habitat. Riparian enhancement will include replanting with riparian and emergent vegetation. Reconstruct discharge outfalls from building and parking stormwater runoff to enhance floodplain function. BES: Project 24.9/ CIP 2017 - $470,000	¢
PDX-100	**Taylors Ferry improve in-stream habitat** Headwaters Stream Enhancement and Daylighting -Taylors Ferry improve in-stream habitat; add in-stream cover for aquatic organisms and to stabilize banks. This project is intended to meet the alternative themes to emphasize biological communities and habitat restoration. BES: Project 28.3d/ CIP 2017 - $1,080,000	$
PDX-101	**Replace Macadam Culvert** Remove existing culverts under Highway 43 and replace with a larger culvert/ span and restore natural substrate to Stephens Creek. Remove invasive species (English ivy and Himalayan blackberry) and plant native riparian vegetation in the currently degraded buffer zones between Macadam and Stephens Creek. Increase in-stream habitat to support benthic invertebrates and native fish. BES: Project 29.1/ CIP 2017 - $440,000	¢
PDX-102	**Lay back banks Burlingame reach** Lay back banks Burlingame reach. BES:25.1a/ No CIP identified $334,000	¢

Cost: **¢** = up to $500,000 **$** = up to $5M **$$** = up to $10M **$$$** = up to $20 M **$$$$** = more than $20M

###	Project Title Project Description	Cost Timing
PDX-103	**Improve in-stream habitat Burlingame reach** Improve in-stream habitat Burlingame reach.BES:25.1c/ No CIP identified - $1,862,000	$
PDX-104	**Wetland enhancement Burlingame reach** Wetland enhancement Burlingame reach. BES: Project 25.2/No CIP identified- $67,000	¢
PDX-105	**Stephens Canyon I-5 Runoff to Willamette or Combined System** Stephens Canyon I-5 Runoff to Willamette or Combined System. BES: Project 26.1, 26.1f/ No CIP identified at this time - $4,069,000	
PDX-106	**Mausoleum Tributary property acquisition** Mausoleum Tributary property acquisition. BES: Project 27.4b/No CIP identified at this time - $2,268,000	$
PDX-107	**Mausoleum North property acquisition** Mausoleum North property acquisition. BES: Project 27.6/ No CIP identified at this time - $851,000	$
PDX-108	**Wetland enhancement Burlingame reach** Wetland enhancement Burlingame reach, separate location- this is not a repeat of PDX-104. BES: Project 27.3/ No CIP identified at this time - $67,000	¢
PDX-109	**Mausoleum property revegetation** Mausoleum property revegetation. BES: Project 27.4a/No CIP identified at this time - $161,000	¢
PDX-110	**Taylors Ferry stream daylighting** Taylors Ferry stream daylighting. BES: Project 28.3b/No CIP identified at this time - $1,386,000	$
PDX-111	**Taylors Ferry culvert replacement** Taylors Ferry culvert replacement. BES: Project 28.3a /No CIP identified at this time - $326,000	¢
PDX-112	**Natural fish ladder above Hwy 43 culvert** Natural fish ladder above Hwy 43 culvert. BES: Project 28.3c /No CIP identified at this time - $1,318,000	$
PDX-113	**Macadam improve near-stream habitat** Macadam improve near-stream habitat. BES: Project 29.5/No CIP identified at this time - $188,000	¢
PDX-114	**Boones Ferry neighborhood detention pond** 2.1b Boones Ferry neighborhood detention pond. BES: Project 2.1b/No CIP identified at this time - $405,000	¢
PDX-115	**River View Cemetery improve in-stream habitat** River View Cemetery improve in-stream habitat. BES: Project 9.3b/No CIP identified at this time - $8,972,000	$$
PDX-116	**Restore in-stream connectivity for fish passage** Restore in-stream connectivity for fish passage - Taylors Ferry tributary. BES: Project 9.4/No CIP identified at this time - No cost estimate at this time.	
PDX-117	**Large wood installations, invasives control and revegetation in Stephens Canyon** Large wood installations, invasives control and revegetation in Stephens Canyon. BES: Project 26.2/No CIP identified at this time - $890,000	$
PDX-118	**SW Evans neighborhood facilities** SW Evans neighborhood facilities. BES: Project 17.3/No CIP identified at this time - $626,000	$
PDX-119	**SW Terwilliger improve near-stream habitat in ODOT right-of-way** 23.4a SW Terwilliger improve near-stream habitat in ODOT right-of-way. BES: Project 23.4a/No CIP identified at this time - $55,000	¢
PDX-120	**SW Terwilliger improve in-stream habitat** SW Terwilliger improve in-stream habitat. BES: Project 23.4b/No CIP identified at this time - $419,000	¢
PDX-121	**Improve near-stream habitat Clover Leaf Apt.** Improve near-stream habitat Clover Leaf Apt. BES: Project 31.3/No CIP identified at this time - $2,000	¢
PDX-122	**Spring Creek riparian restoration** Spring Creek riparian restoration. BES: Project 24.10/No CIP identified at this time - $3,000	¢
PDX-123	**Raz Transportation acquisition, stream daylighting, LUST Cleanup** Raz Transportation acquisition, stream daylighting, LUST Cleanup. BES: Project 31.2a, b, c/No CIP identified at this time - $1,341,000	$
PDX-124	**Culvert removal and daylighting in Burlingame reach** Culvert removal and daylighting in Burlingame reach. BES: Project 25.1b /No CIP identified at this time - $145,000	¢
PDX-125	**Expand and enhance Texas Wetland** Expand and enhance Texas Wetland. BES: Project 3.1 /Op CIP 2014 - $21,000	¢
PDX-125	**Fulton Park revegetation** Fulton Park revegetation. BES: Project 32.3 /Op CIP 2014 - $36,000	¢
PDX-126	**Restore historic channel at Miles Creek** Restore historic channel at Miles Creek. BES: Project 26.7 /on hold in WIF - $437,000	¢
PDX-127	**Real time controls stormwater retrofit at Burlingame Fred Meyer and nearby apartments** Real time controls stormwater retrofit at Burlingame Fred Meyer and nearby apartments. BES: Project 32.3 /No CIP identified at this time - $76,000	¢
PDX-127	**Mausoleum Retrofits** Mausoleum Retrofits. BES: Project 27.1, 27.2/No CIP identified at this time - $55,000	¢
PDX-128	**Curb extension retrofits on PBOT high-priority streets** BWRF.1 Curb extension retrofits on PBOT high-priority streets BES: Project BWRF.1 /No CIP identified at this time -$4,565,000 Select projects identified for CIP 2014	$
PDX-129	**Curb extension retrofits on all right-of-way** BWRF.2 Curb extension retrofits on all right-of-way. BES: Project BWRF.2 /No CIP identified at this time $23,386,000	$$$$
PDX-130	**Basin wide tree planting** Basin wide tree planting. BES: Project BWRF.4/ No CIP identified at this time - $1,660,000	$
PDX-131	**Apt Retrofit (Spring Creek, Shadow Hills and Capitol Hill)** Apt Retrofit (Spring Creek, Shadow Hills and Capitol Hill). BES project 24.5. $1,602,000 NO CIP identified at this time.	$
PDX-132	**Capitol Hill School and St Claire Church Retrofits** Capitol Hill School and St Claire Church Retrofits. BES project 22.1. $2,653,000 NO CIP identified at this time.	$
PDX-133	**Stormwater retrofit at Hillsdale Community Church** Stormwater retrofit at Hillsdale Community Church. BES project 3.4. $668,000 NO CIP identified at this time.	$

TIGARD

###	Project Title Project Description	Cost Timing
TI-1	**Fanno Creek Corridor Trail (T7)** Woodward Park to Grant (partially funded), Grant to Main (partially funded), Planning and Acquisition, MORE important	$ Short-Term
TI-2	**Fanno Creek Corridor Trail (T11)** Trail link from Tigard Public Library to Milton Court/Bonita Road	$ Short- to Mid-Term
TI-3	**Fanno Creek Corridor Trail (T6)** Trail link from Fanno Creek/Tigard Street to Tigard Transit Center	$ Short-Term
TI-4	**Fanno Creek stormwater** Stormwater and protection of trail	$ Short-Term
TI-5	**Fanno Creek Park: Urban Plaza** Acquisition and development of urban plaza for downtown Tigard, The Downtown Plaza was designed to meet the need for a community gathering space for events and everyday use, and the goal of initiating redevelopment under a new Urban Renewal District approved in May of 2006.	$ Short- to Mid-Term
TI-6	**Fanno Creek Downtown** Establishes the "Green Heart" identified in the Tigard Downtown Improvement Plan by locating the primary open space and plaza between Downtown and the community's unique natural resource - Fanno Creek.	$ Mid-Term
TI-7	**Tualatin River Corridor** Limit pollution and restore native vegetation in riparian zone	$$ Mid-Term
TI-8	**Tualatin River Trail** 108th Avenue Grading and Existing Trail Improvements, 108th Avenue to Pacific Highway Extension	$ Mid-Term
TI-9	**Tualatin River Water Trail** CWS, Bruce Roll	$ Mid-Term
TI-10	**Ash Creek Corridor** Limit pollution and restore native vegetation in riparian zone	$ Short-Term
TI-11	**Washington Square Connection/Washington Square Loop** Trail Loop complete in THPRD. Fanno Creek to Highway 217 Sidewalk and Bikeway improvements, less important	$$ Long-Term
TI-12	**Summer Creek property Natural Area** Approximately 38 acres under conservation easement	$ Short-Term
TI-13	**Summer Creek Education Center** Summer Creek Education Center	¢ Short-Term
TI-14	**Summer Creek Trail and Corridor** Summer Crest Drive and Tigard Street sidewalk and bikeway improvements, Fowler Nature Education Trail	¢ Short-Term
TI-15	**Red Rock Creek, Tigard Triangle** Limit pollution and restore native vegetation in riparian zone	¢ Mid- to Long-Term
TI-16	**Jack Creek Bridge** Develop pedestrian and bicyle bridge	¢ Short-Term
TI-17	**Jack Park** Design	¢ Short-Term
TI-18	**East Butte Heritage Park** Design/Develop	¢ Short-Term
TI-19	**Fanno Creek Park: Fanno Creek House** Improvements to indoor space	¢ Short-Term
TI-20	**Sunrise and Cach Community Park** Design for additional facilities and programming of park	$ Short-Term
TI-21	**Krueger Creek and Summer Creek Trail Connections** Summer Creek Trail to Mary Woodard School	¢ Mid-Term
TI-22	**Ascension Trail** Ascension Trail Improvements	¢ Mid-Term
TI-23	**Tigard Street trail connection** Fanno Creek/north Dakota Street to Tiedeman Street	¢ Mid-Term
TI-24	**Fanno Creek (crossing realignment)** Tiedeman Avenue Crossing Re-alignment	$ Mid-Term
TI-25	**Fanno Creek - 85th Avenue to Durham** 85th Avenue Trail to Durham City/Ki-A-Kuts, Complete an important gap in the trail from Bonita Road to Durham Road. Trail will be built in the street right-of-way of SW 74th Avenue. Tonquin Trail at Ki-A-Kuts bridge over the Tualatin River.	$ Mid-Term
TI-26	**Pathfinder-Genesis Trail (T8)** Fanno Creek to Pathfinder Court Trail	$ Short-Term
TI-27	**Westside Trail (T10)** Planned Portland to Tualatin expansion	$$ Mid- to Long-Term
TI-28	**Krueger Creek Trail** Walnut Street to Jack Park	¢ Short-Term
TI-29	**Fanno Creek Trail - Durham Rd to Tualatin River Trail Connection** Durham Road to Tualatin River Trail	$ Mid-Term
TI-30	**Fowler Property** Begin design and planning phase of Fowler property park project. Acquisition is complete.	$ Short-Term
TI-31	**Tree Grove protection** Focus on preserving large groves of native trees.	$ Ongoing
TI-32	**River Terrace Annexation** Property acquisition for new parks in River terrace UGB expansion area	$$ Ongoing
TI-33	**Looping north of the Tualatin River** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
TI-34	**Fanno Creek forks to the northeast at Fanno Creek Park** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
TI-35	**Fanno Creek** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
TI-36	**South of SW Riverwood Lane, between SW Greenland Brire & SW Wood Crest Avenue** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
TI-37	**Kruse Way Trail** There is an existing bike/ped bridge crossing I-5 at the Hwy 217 interchange. The bridge is part of Lake Oswego's Kruse Way Trail. The trail needs to be extended to the west only a short distance to connect to the Fanno Creek Trail.	$$ Long-Term
TI-38	**Fanno Creek Trail - Bonita Road to Durham Road Connection** Complete an important gap in the trail from Bonita Road to Durham Road. Trail will be built in the street right-of-way of SW 74th Avenue.	$ Mid-Term
TI-39	**Red Rock Creek Bike/Ped Creek Crossing** Provide bike/ped connectivity with bridge crossing of Red Rock Creek	$ Mid-Term

Cost: **¢** = up to $500,000 **$** = up to $5M **$$** = up to $10M **$$$** = up to $20 M **$$$$** = more than $20M

###	Project Title Project Description	Cost Timing
TI-40	**Tigard Triangle Park** Create neighborhood park in underserviced area of Tigard triangle	$ Mid-Term
TI-41	**Acquire TDRs on Red Rock Creek** Purchase TDRS on Red Rock Creek for preservation of riparian corridor	$ Mid-Term
TI-42	**Tigard Main Street Green Street** Provide new green street facilities on Main Street	$ Mid-Term
TI-43	**Connection between Tigard Triangle and PCC-Sylvania** Provide pedestrian/bicylcle connection between the Tigard Triangle area and PCC-Sylvania	$ Mid-Term
TI-44	**Complete Green Spines in Downtown** Provide "green" boulevards for downtown Tigard as planned in Fannon Creek Master Plan	$ Mid-Term
TI-45	**Open Space/Park development in Washington Square** Provide additional open space or neighborhood park in Washington Square	$ Mid-Term
TI-46	**Pedestrian Crossing /Sky Bridge over I-5 at Ash Creek** Provide sky bridge pedestrian/bicyle crossing over Interstate 5 at Ash Creek	$$ Mid-Term
TI-47	**Washington Square Greenbelt** The Washington Square Regional Center Plan - September 1999 established a plan for an interconnected open space system and a green belt around the center that would potentially add property value and attract quality developments that ultimately will create a great place to live and work for the region.	$ Mid-Term
TI-48	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #11. Unknown passage status. Barrier subtype is 'full box.'	$ Mid-Term
TI-49	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #12. Unknown passage status. Barrier subtype is 'round.' Owner is ODOT. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Comments include, "1 mile from I-5. Double culvert (24" x 2) Steps fall 2' over 5' long cascade. Initial steps are 16" and 12". Subterranean above. Below runs alongside of large pond. Listed as irrigation ditch in straight-line chart."	$ Mid-Term
TI-50	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #13. Unknown passage status. Barrier subtype is 'round.' Owner is ODOT. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Comments include, "1 mile from I-5. Double culvert (24" x 2) Steps fall 2' over 5' long cascade. Initial steps are 16" and 12". Subterranean above. Below runs alongside of large pond. Listed as irrigation ditch in straight-line chart."	$ Mid-Term
TI-51	**Remove Fish Barrier** Remove Stark Reservoir ODFW ID #14 over unnamed stream. Barrier subtype is 'permanent dam.' Owner is Herbert & Roth Stark.	$ Mid-Term
TI-52	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #17 on Ash Creek. Barrier subtype is 'round.' Unknown passage status. Comments include, "historic St. presence above culvert on Ash Creek."	$ Mid-Term
TI-53	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #18. Passable passage status. Owner is ODOT. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Not in straight-line chart.	$ Mid-Term
TI-54	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #20 on Ash Creek. Partially blocked passage status. Professional judgment used to evaluate culvert. Comments include, "step ht+0.4m; old irr dam."	$ Mid-Term
TI-55	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #21 on Ash Creek. Barrier subtype is 'round.' Owner is ODOT. Passable passage status. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Labeled as "Hedges Cr" on road.	$ Mid-Term
TI-56	**Remove Fish Barrier** Remove unnamed culvert on ODFW ID #22 on Ash Creek. Barrier subtype is 'full box.'	$ Mid-Term
TI-57	**Remove Fish Barrier** Remove unnamed dam on ODFW ID #28 on South Fork Ash Creek. Partially blocked passage status. Professional judgment used to evaluate dam. Comments include, "step ht=0.8m; backyard dam."	$ Mid-Term
TI-58	**Remove Fish Barrier** Remove unnamed culvert on ODFW ID #30 on South Fork Ash Creek. Blocked passage status. Professional judgment used to evaluate culvert on SW Ventura Dr.	$ Mid-Term
TI-59	**Remove Fish Barrier** Remove unnamed culvert on ODFW ID #32 on South Fork Ash Creek. Passable passage status. Professional judgment used to evaluate culvert. Comments include, "T=12.0C path; county boundary."	$ Mid-Term
TI-60	**Remove Fish Barrier** Remove unnamed culvert on ODFW ID #35 on South Fork Ash Creek. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. Comments include, "1.0m concrete no drop."	$ Mid-Term
TI-61	**Remove Fish Barrier** Remove unnamed culvert on ODFW ID #36 on South Fork Ash Creek. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. Comments include, "1.0m concrete no drop."	$ Mid-Term

TUALATIN

TU-1	**Tonquin Trail** also Tigard, King City, Durham and Washington County	$$ Long-Term
TU-2	**Westside Trail** New bike/ped bridge over the Tualatin River. Could be a joint effort with the Willamette River Water consortium.	$$ Mid-Term
TU-3	**Tualatin National Wildlife Refuge Trail Connection** Complete linkage to create connection to Tualatin National Wildlife Refuge	$ Long-Term
TU-4	**Tualatin River Greenway** West and east of I5, extending past 99W to the Westside Trail, desire for more acquisition and larger setbacks	$$ Long-Term
TU-5	**Tualatin River Water Trail** DevelopmentTualatin River Water Trail within Tualatin	$$ Mid-Term
TU-6	**Hedges Creek Wetland Area** "Trail easement needed along private properties east of Myslony St. to Pazcuzzi Pond. East of Pazcuzzi pond there are approx. 30 acres in Tualatin ownership and rest in Wetlands Conservancy ownership. Trail route to follow CWS Cipole Trunk Sewer easement. Easements needed east of 90th Avenue to where built section of trail exists."	$$ Long-Term
TU-7	**Fanno Creek Trail** Improve riparian corridor and complete spur connections	$ Long-Term
TU-8	**Tonquin Trail Connection to WES** Connect Tonquin Trail, Tualatin River Greenway and Hedges Creek Wetlands to WES Station	$ Long-Term
TU-9	**Koller Wetlands and Ponds** Purchase trail easement from landowners to west of railroad tracks so that future trail users will have views of Koller Wetlands and ponds. Purchase perched wetland (Kolk pond) on top of bedrock. Tonquin Trail likely built after this area annexed by Tualatin.	$ Short-Term
TU-10	**Nyberg Creek Greenway** Connecting east and west of I5 then north and south to Hwy 99 to I5 bikeway (south) and Tualatin River Greenway (north)	$ Long-Term
TU-11	**Moran Property** Tonquin Trail trailhead, river access and bike/pedestrian bridge over Tualatin River on Metro owned land. Ongoing DEQ monitored clean-up of oil-contaminated soil. Tonquin Trail will connect to built section of Tualatin River Greenway to east of Moran. Metro and TRNWR have IGA for natural resource restoration work that the Refuge conducts on Metro land.	$ Long-Term
TU-12	**99W Parallel Path** Off Street route parallel to 99W	$ Long-Term
TU-13	**Kolk Property - Kohler Wetland** Perched wetland on top of bedrock desirable for acquisition and protection	$ Long-Term
TU-14	**Ice Age Discovery Trail** Overlap NPS Ice Age Discovery Trail with Tualatin portion of the Tonquin Trail. Incorporate NPS Ice Age Marketing Plan, Ice Age Visitor Plan, Historical Society and Chamber support.	$ Mid-Term
TU-15	**Nyberg Undercrossing at I-5** Provide pedestrian/bicylcle connection under the intersection of Nyberg and Interstate 5	$ Long-Term
TU-16	**Parallel Facility to I-5** Provide a safe parallel pedestrian/bicycle facility parallel to Interstate 5	$$ Long-Term
TU-17	**Wildlife Corridor south of the Tualatin River** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
TU-18	**Brown's Ferry Park Barn: Master Plan** A Master Plan for the renovation of the barn at Brown's Ferry Park will identify improvements to be made to the historic structure so that it is safe for public use, to gain new utility from it as a three season picnic shelter and to preserve a historic feature of Tualatin's agrarian past.	¢ Short-Term
TU-19	**Brown's Ferry Park Com Ctr: Feasibility Study** The BFCC Feasibility Study will determine what improvements should be made to modernize the facility, maximize functionality, and prolong its useful life. The Feasibility Study will study ways to update technological systems, improve access, enhance health and safety conditions, reduce energy use, enlarge recreation program spaces, and improve inter-facility connectivity.	¢ Short-Term
TU-20	**Tualatin River Greenway: Land Acquisition** Land is a basic ingredient of a park and recreation system, and as such the Parks and Recreation Master Plan emphasizes land acquisition as a major goal and, in particular land for riverfront parks. Additional riverfront park land will strengthen the Greenway as a recreational corridor by providing land for facilities (bikeways, docks, viewing areas) and improving public access to the river and serving as a focus for river related activities. Financial readiness for acquisition is of critical importance because once the land has been developed, it may never again be available for public ownership.	$$ Short-Term
TU-21	**Van Raden Com Ctr: Feasibility Study** Feasibility Study for Van Raden Community Center to define	¢ Short-Term
TU-22	**Lafky Park: Playground/Swing set Replacement** Lafky Park is located at 9655 SW Siletz Drive, serving the residential neighborhoods in the south central areas of town. The existing playground structure is a wooden timber framed structure built in 1984. At the age of 27 years this structure is at the end of its life cycle, the swing set was removed from service (August 2011) as a result of a failure of the timber supports, the remaining structure is in similar decline. A complete removal and replacement with updated playground system is due.	¢ Short-Term
TU-23	**Placeholder for additional project**	
TU-24	**Park targeted for acquisition /Tualatin River and 99W** Neighborhood park acquisition and development	$ Mid-Term
TU-25	**Connection of Tualatin River Greenway to Moran Property** Bike/ped facilities for connectivity	$ Mid-Term
TU-26	**Tualatin River Greenway Connection linking Greenway from west side to 99W** Bike/ped facilities for connectivity	$ Mid-Term
TU-27	**Riverfront property acquisition for pedestrian bridge at Boones Ferry Road** Bike/ped facilities for connectivity	$ Mid-Term
TU-28	**Wetland Park acquisition and Development** Open space acquisition and development	$ Mid-Term
TU-29	**Surf to Turf Trail - Tualatin** Bike/ped facilities for connectivity	$ Mid-Term
TU-30	**North/South I-5 Parallel Path**	Mid-Term
TU-31	**Nyberg Creek Trail Acquisition and Undercrossing** Bike/ped facilities for connectivity	$ Mid-Term
TU-32	**Myslony Wetlands** Open space protection	$ Mid-Term
TU-33	**Parkway Treatment on Tualatin Sherwood Road** Bike/ped facilities for connectivity	$ Mid-Term
TU-34	**New Park Adjacent to Tualatin Elementary School** Neighborhood park acquisition and development	$ Mid-Term
TU-35	**Trail System to connect to Myslony Greenway** Bike/ped facilities for connectivity	$ Mid-Term
TU-36	**Leveton-Herman Road Improvements** Bike/ped facilities improvements between Teton and Tualatin Road.	$ Mid-Term
TU-37	**Martinazzi Street Improvements - Green Street** Watershed protection and improving ped/bike connectivity	$ Mid-Term
TU-38	**Construct Tonquin Trail along Cipole Rd.** Project will be in unincorporated Washington County since it is recommended for west side of Cipole. Construct Tonquin Trail in ROW on west side of Cipole Road when that road gets improved.	$ Mid-Term

SHERWOOD

SH-1	**Cedar Creek Trail** Provide pedestrian/bike connection	$ Long-Term
SH-2	**Tonquin Trail** Oregon Street/Tonquin Road intersection to Roy Rodgers Road.	$ Short-Term
SH-3	**99W culvert underpass** Provide pedestrian/bike connection	$ Mid-Term
SH-4	**Adams Park north** Acquire and develop neighborhood park	$ Mid-Term
SH-5	**Complete the Trail System** Complete the Trail System and Connect the Community	$$ Ongoing
SH-7	**Design and Construct a Skatepark** Acquire and develop skate park	¢ Long-Term
SH-8	**Bike Ped Bridge Crossing of Railroad tracks** Provide safe pedestrian/bike crossing of train tracks	$$ Long-Term

Cost: **¢** = up to $500,000 **$** = up to $5M **$$** = up to $10M **$$$** = up to $20 M **$$$$** = more than $20M

###	Project Title Project Description	Cost Timing
SH-9	**Town Center Plan - Open Space** Acquire and develop open space	$ Mid-Term
SH-10	**Tannery Site** Acquire and develop	$ Mid-Term
SH-11	**Roundabout Development** Set aside remnant land from transportation project for construction of a round-about and a park or open space.	¢ Mid-Term
SH: 12	**Chicken Creek Watershed** Acquisition opportunities for watershed protection	$ Mid-Term
SH-13	**Stella Olsen Park** Improve Amphitheater in Stella Olsen Park, wetland improvements - Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	¢ Mid-Term
SH-14	**BPA and PGE Line Easements** Trail opportunities within easements of BPA and PGE for connectivity	$ Mid-Term
SH-15	**Floodplain Improvements north of Sunset Boulevard** "Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices. Excavate to connect isolated floodplains and to create additional floodplain areas terraces adjacent to streams. Plant the terraces with a diverse mix of site appropriate herbs, trees and shrubs. Grade the terraces to prevent fish entrapment when flood water levels decrease."	$ Long-Term
SH-16	**Chicken Creek (Elwort and Edy Intersection)** "Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices. Excavate to connect isolated floodplains and to create additional floodplain areas terraces adjacent to streams. Plant the terraces with a diverse mix of site appropriate herbs, trees and shrubs. Grade the terraces to prevent fish entrapment when flood water levels decrease."	$ Long-Term
SH-17	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #1 on Cedar Creek. Passable passage status. Owner is Washington County. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Culvert is 0.4 miles west of Parrot Mt. Rd.	$ Mid-Term

WASHINGTON COUNTY

WA-1	**Wildlife corridor between Ash Creek and Red Tail Golf Course** Address fragmented wildlife corridors by installing a diverse mix of site-appropriate herbs, trees and shrubs to the extent that there are not significant gaps in tree cover. Maximize the width of the vegetated corridor. Create occasional meadows but not at the expense of leaving a gap in tree cover connection along the corridor. Stabilize soil erosion using bioengineering practices.	$ Long-Term
WA-3	**Interim Tonquin Trail** Interim Tonquin Trail to serve connectivity needs whiel overall trail is acquired and developed.	$ Mid-Term
WA-4	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #5 on Cedar Creek. Owner is Washington County. Passable passage status. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage. Comments include, "0.5 miles east of Elwert Rd."	$ Mid-Term
WA-5	**Remove Fish Barrier** Remove Tualatin Refuge Dam ODFW ID #6. Owner is USFWS. Barrier subtype is a permanent dam.	$ Mid-Term
WA-6	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #16 on Sumner Creek. Passable passage status. Owner is ODOT. Culvert assessment by ODFW staff (1996-1999) using guidelines and criteria to determine fish passage.	$ Mid-Term
WA-7	**Remove Fish Barrier** Remove unnamed barrier ODFW ID #19. Passage status unknown. Barrier type not indicated on map.	$ Mid-Term
WA-8	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #23 on Ash Creek. Barrier subtype 'full box.'	$ Mid-Term
WA-9	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #25 on Ash Creek. Passable passage status. Barrier subtype 'full box.' Professional judgment used to evaluate culvert on SW Locust. It is 1.5m box culvert.	$ Mid-Term
WA-10	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #37 on Ash Creek. Barrier subtype 'round.' Passable passage status. Professional judgment used to evaluate culvert on SW 80th. It is 1.9m concrete, with no drop.	$ Mid-Term
WA-11	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #38 on South Fork Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 80th. It is 1.5m metal, with no drop.	$ Mid-Term
WA-12	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #39 on South Fork Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. It is at a private driveway and is 0.9m concrete.	$ Mid-Term
WA-13	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #40 on South Fork Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 82nd. It is 1.5m metal with no drop.	$ Mid-Term
WA-14	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #41 on South Fork Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 82nd. It is 1.5m metal with no drop.	$ Mid-Term
WA-15	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #42 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. It is 1.7m metal, at a private driveway.	$ Mid-Term
WA-16	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #43 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. It is 1.7m metal, at a private driveway.	$ Mid-Term
WA-17	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #44 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert. It is 1.7m metal, at a private driveway.	$ Mid-Term
WA-18	**Remove Fish Barrier** Remove unnamed dam ODFW ID #45 on Ash Creek. Comments include, "concrete structure 'slide' to damn pond."	$ Mid-Term
WA-19	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #47 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW Cedarcrest. It is 1.5m metal.	$ Mid-Term
WA-20	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #52 on Ash Creek. Partially blocked passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 80th. It is 0.9m concrete.	$ Mid-Term
WA-21	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #53 on Ash Creek. Partially blocked passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 80th. It is 0.9m concrete.	$ Mid-Term
WA-22	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #55 on Ash Creek. Passable passage status. Barrier subtype is 'unknown.' Professional judgment used to evaluate culvert. It is at a private driveway.	$ Mid-Term
WA-23	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #56 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 74th. It is 1.0m concrete.	$ Mid-Term
WA-24	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #57 on Ash Creek. Passable passage status. Barrier subtype is 'round.' Professional judgment used to evaluate culvert at SW 74th. It is 1.0m concrete.	$ Mid-Term
WA-25	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #61 on Ash Creek. Passable passage status. Barrier subtype is 'unknown.' Professional judgment used to evaluate culvert at an old driveway - not used anymore.	$ Mid-Term

LAKE OSWEGO

LO-1	**Kruse Way Path** Acquire and develop trail connection	$$ Short-Term
LO-2	**Surf to Turf Trail** Develop Surf to Turf Trail that is planned to connect Fanno Creek Trail and the Tonquin Trail by following the Pacific and Western Railroad alignment.	$$ Mid-Term
LO-3	**Create children's nature play areas** Develop areas for children's play/nature play	¢ Short-Term
LO-4	**Opportunities to be close to nature** Create opportunities to be close to nature	¢ Short-Term
LO-5	**Opportunities for connectivity** Promote opportunities for connectivity	$ Ongoing
LO-6	**Acquire park/natural resource lands** Acquire park/natural resource lands (over 30 acres)	$$ Ongoing
LO-7	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #7 on Ball Creek. Unknown passage status. Barrier subtype is 'full box.'	$ Mid-Term
LO-8	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #8 on Ball Creek. Unknown passage status. Barrier subtype is 'round.'	$ Mid-Term
LO-9	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #9 on Ball Creek. Unknown passage status. Barrier subtype is 'round.'	$ Mid-Term
LO-10	**Remove Fish Barrier** Remove unnamed culvert ODFW ID #10. Unknown passage status. Barrier subtype is 'round.'	$ Mid-Term

CLEAN WATER SERVICES

CWS-1	**Stormwater treatment and Floodplain reconnection of the Tualatin River watershed** Acquire developed flood plain properties and restore to riparian corrridor for flood storage	$$ Long-Term
CWS-2	**Fanno Creek Restoration** Main Street to Durham Road	$ Long-Term
CWS-3	**Ash Creek Wetland** Large existing wetland (approximately 30 ac) north of Hwy 217; used for grazing; opportunity for enhancement and floodplain storage, no current development plans; no funding identified for acquisition.	$ Long-Term
CWS-4	**Restore riparian health** Property acquisition and restoring the flood plain. Change geomorphology conditions of streams as a long term strategy to address hydrology and hydraulics	$$ Long-Term
CWS-5	**Restore riparian health** All open streams provide for riparian canopy to improve health and function	$$ Long-Term
CWS-6	**Preserve existing forest** For ecosystem services including stormwater management	$ Long-Term
CWS-7	**Hwy 99W Median Retrofit** Provide stormwater treatment using open space available in the Hwy 99W in Tigard/King City, Project partnered with ODOT and city of Tigard, Pre-design funded for FY2011-12, Design planned for FY2012-13 – future funding dependent on report	$ Short-Term
CWS-8	**Fanno Creek Stormwater Basin Master Plan** "Sub-basin watershed master plan to identify conveyance improvement, culvert replacement, facility/outfall retrofits, and water quality treatment challenges and opportunities for enhancement projects, Project funded for FY2013-14 no funding identified for potential solutions "	¢ Short-Term
CWS-9	**Stormwater Outfall and Facility Retrofits** Located throughout the SW Corridor; retrofit opportunities exist to address storm-water treatment and will be identified when alignment is selected.	$$ Mid-Term
CWS-10	**Hedges Creek and Wetland Enhancement** Should be coordinated with the City of Tualatin. When Tonquin Trail is constructed over CWS' Cipole Sanitary Trunk Sewer easement between Pazcuzzi Pond east to built sections of trail near Tualatin Police Station, opportunities will exist for habitat improvement, invasive species removal and native plantings. Also, opportunity to improve wildlife passage at culvert where trail will cross Teton Ave. Most of the wetlands are owned by Wetland Conservancy and City of Tualatin.	$ Long-Term
CWS-11	**Fanno Creek Improvement - Downtown** Near City Hall – streambank stabilization and enhancement project, Most of the wetlands is owned by Wetland Conservancy; no funding identified	$ Long-Term
CWS-12	**Fanno Creek Enhancement** Near Bonita Rd between Main and Hall Rd – Phase 2 enhancement on 75 acre complex, Unfunded, 2015+ timeframe expectation	$ Long-Term
CWS-13	**Culvert Replacement** Located throughout the SW Corridor; opportunities exist to address fish passage and capacity and will be identified when the alignment is selected.	$ Mid-Term
CWS-14	**Cedar Creek Corridor** Local and regional trails being constructed (Tonquin Trail); potential impact on existing natural resources; opportunity for enhancing degraded corridor, including improving wildlife passage when new trail crossing built beneath highway 99. Wildlife passage improvements also recommended where Cedar Creek crosses beneath Eddy Road and Roy Rodgers Road when trail is built over road in these locations. Metro funded trail master plan; enhancement is not funded.	$ Mid-Term

Cost: **¢** = up to $500,000 **$** = up to $5M **$$** = up to $10M **$$$** = up to $20 M **$$$$** = more than $20M

###	Project Title Project Description	Cost Timing
CWS -15	**Deek Creek and Edgewater Subdivisions** Located in King City; presently being developed; opportunity for constructing a regional stormwater treatment facility exists	$ Short-Term
CWS-17	**Derry Dell at Walnut** This Project, in partnership with the City of Tigard, removes five exposed sewer crossings, adds 1,200 feet of sanitary sewer, and removes several manholes in the Woodard city park. Benefits include fish passage and streambank stabilization on 400-feet of Derry Dell Creek. Proposed schedule: Construction in summer of 2014.	$ Short-Term
CWS-18	**Fanno Interceptor Upgrade** Sanitary trunk upgrade that is located in the Fanno Creek Corridor, phased construction in FY2014-2018.	$ Short-Term
CWS-19	**Upper Tualatin Interceptor Upgrade** Sanitary trunk upgrade pending sanitary sewer model verification; located near Hwy 99W corridor	$ Short-Term
CWS-20	**Onion Flat Trunk Sewer Upgrade** Sanitary trunk upgrade to support future industrial growth in Sherwood and Tualatin UGB; located south of Hwy 99W corridor. Opportunity to coordinate with acquisition and protection targeted by City of Sherwood in Project SH-12.	$ Short-Term
CWS-21	**Fields Property** Potential project near Tigard should be targeted for acquisition. There is an on going active development permit on site. Acquisition would need to occur quickly. CWS has no plans to acquire. Near Bonita Rd – Habitat restoration opportunity with an existing nice of stand of vegetation/trees.	$ Short-Term

TUALATIN HILLS PARKS AND RECREATION DISTRICT

TH-1	**SW Community Park** This project will be the development of a brand new Community Park in THPRD's southwest quadrant. Project amenities have yet to be determined, but may include athletic fields, picnic areas, play equipment, pathways, or community gardens. More details will become available as project start-up approaches.	$$ Short-Term
TH-2	**Vista Brook Park** Master planning for Vista Brook Park began in fall 2010. Renovations will include pathways, play equipment, picnic areas, basketball court upgrades, parking improvements, landscape plantings and natural area restoration.	¢ Short-Term
TH-3	**Fanno Creek Park** The Natural Resources Department will conduct extensive weed treatment and intensive tree/shrub plantings to provide shade and habitat diversity at the 20-acre Fanno Creek Park. A study site for creek and water flow improvements will also be incorporated	¢ Short-Term
TH-4	**Lowami Hart Woods** The Natural Resources Department will be completing a large-scale removal of non-native weeds then replanting with native plants and/or shrubs. During this process, the Natural Resources Department will be re-routing and/or closing illegal trails. The 27.75-acre park is predominantly forested with a sloping terrain. A section of South Johnson Creek flows through the park from south to north. Tributary streams and wetlands also exist on-site. The 2001 master plan calls for trails through the natural area, with a main trail segment planned to be part of the future South Johnson Creek Community Trail. Other master plan amenities include a small parking lot with adjacent picnic areas and informational kiosk, an informal central gathering area for environmental education of small groups, and new pedestrian bridges.	$ Short-Term
TH-5	**Vista Brook Park** The Natural Resources Department will be enhancing the natural area by removing non-native plants. They will then replant with native trees and shrubs after the park development occurs. In order to further preserve habitats, this project will likely enhance pond edges and potentially add basking logs for wildlife.	¢ Short-Term
TH-6	**Westside Trail - Segment no. 1 (Barrows Rd to Scholls Ferry Road)** (Barrows Rd to Scholls Ferry Road) of the Westside Trail is a 0.39-mile-long trail that will begin at the Tigard city limits at Barrows Road, connecting the east/west Summercreek Community Trail then continuing north toward Scholls Ferry Road. Along with the initial benefit of connecting multiple regional and community trails, this trail will also allow easy access for local patrons to the Murray-Scholls Town Center area.	$ Short-Term
TH-7	**Westside Trail - Segment no. 4 (Galena Way to Rigert Road)** (Galena Way to Rigert Road) of the Westside Trail will connect Galena Way to Rigert Road. After completion, this segment will connect 3.32 miles of the Westside Trail.	$$ Short-Term
TH-8	**Westside Trail - Segment no. 7 (Mt. Williams-Burntwood Way to Davis Road)** (Mt. Williams-Burntwood Way to Davis Road) of the Westside Trail will connect Burntwood Way to Davis Road over the Mount Williams parcel. This is a partnership project with the city of Beaverton and is a very challenging segment due to steep topography and existing natural resources (trees). Westside Trail -	$$ Short-Term

OREGON DEPARTMENT OF FISH AND WILDLIFE

ODFW-1	**Protect native turtle populations** Implement OCS strategies to protect the Western Painted and Western Pond turtle that remain in planning area. Focus on breeding populations by creating Turtle Conservation Areas to provide strongholds for source populations to sustain populations into the future as development continues. Take actions that support TCA's (connectivity, acquisition, adjacent upland acquisition, safe road crossings, protections, etc.).	$$ Ongoing
ODFW-2	**Guidelines for trails outside of habitat areas** Delineate areas where trails may not be appropriate in order to protect wildlife populations into the future while still providing trails/transportation connectivity and green space experiences.	¢ Ongoing
ODFW-3	**Identify valuable uplands** Identify uplands prior to development in expanding UGB that would be appropriate for a trail in order to avoid unnecessary impact to sensitive resources/wildlife. Preserving greenspace in uplands that trails can run through will get away from relying too heavily on riparian areas for trail connectivity and nature trails.	¢ Ongoing
ODFW-4	**Create cap for linear feet of trail** Create cap for linear feet of trail (any trail- city, parks, or Metro) per acre, per square mile, or percent of total Creek length.	¢ Ongoing
ODFW-5	**Support Heritage Tree Program** Create greater participation/incentive for heritage tree program at Metro level and/or City level.	$ Ongoing
ODFW-6	**Guidelines for commuter trails** Create guidelines that help identify where federally funded commuter trails (16-20 foot wide asphalt trails) are and are not appropriate for ecosystem health and function.	¢ Ongoing
ODFW-7	**Incentivize maintaining riparian buffer** Encroachment of buffers across city entities is a large and unenforced issue. Incentivize maintaining riparian buffer on private property.	¢ Ongoing
ODFW-8	**Protect properties along the Tualatin River** Prioritize acquisition/protection of properties along the Tualatin to Willamette via Rock Creek/Coffee Lake Creek Wildlife Corridor.	$$ Ongoing
ODFW-9	**Create Oak Conservation Areas** Identify and create Oak Conservation Areas (OCS strategy habitat). Prioritize parcels 10 acres+ for protection acquisition. Incentivize oak (singe tree or group) preservation on private property.	$$ Ongoing

###	Project Title Project Description	Cost Timing

TUALATIN RIVER NATIONAL WILDLIFE REFUGE

TRNWR-1	**Additional turn-out lanes on 99W** Acceleration/deceleration lanes on HWY 99 at Refuge entry are needed, very dangerous coming to visitor's center, especially from the south.	$ Mid-Term
TRNWR-2	**Restoration of Rock Creek** Restore Rock Creek to its meandering channel and improve hydrology.	$ Mid-Term
TRNWR-4	**Improve Bus Access to TNWR** #12 Bus Service to Refuge is needed to maintain and expand service. There are current bus stop issues at this location. A safe crossing or dedicated stopping lane is needed with a bus shelter.	$ Mid-Term
TRNWR-5	**Develop Tonquin Trail to TNWR** Develop biking and walking access to TNWR along 99W from Tualatin.	¢ Mid-Term
TRNWR-6	**Improve wildlife passage across 99W** Improve wildlife passage from properties across 99W including Onion Flats to TNWR.	$ Mid-Term

TUALATIN RIVERKEEPERS

TRV-1	**Implement Washington Square Regional Center Plan** Ensure livability and environmental goals of Washington Square Regional Center Plan	$$
TRV-2	**Separation of bikes and cars** Separation of bikes and cars is needed and consider shallow drainages that separate vehicle types	$$
TRV-3	**Natural Resource acquisition in Corridor** Have the City of Tigard consider buying natural resources and then selling the developable portions	$$
TRV-4	**SW 80th Additional bike path and sidewalks** SW 80th extending from Oelson Road on to the north needs to be connected to HWY 99 by bike path as well as sidewalk system	$
TRV-5	**Restoration of South Fork Ash Creek** Full drainage length of South Fork Ash Creek extending underneath I-5 and Barbur Boulevard down to Mt. Sylvania needs to be considered and protected	$
TRV-6	**Restoration of Red Rock Creek** Full drainage length of Red Rock Creek which enters Fanno Creek opposite the Tigard Library needs to be considered and protected	$
TRV-7	**99W Center swale conversion** Wide center median on 99W needs to be used for stormwater quality and quantity. 99W center swale conversion for stormwater quality and quantity.	$
TRV-9	**Improve Fanno Creek bridge crossings** Bridge crossings need to be expanded to allow for creek meander, provide safe wildlife passages and adequate room for pedestrian and bike trails.	$$
TRV-10	**Removal of watershed barriers** Removal of small dams in the SW Corridor would improve water quality and fish habitat and be supportive of the goals of the Tualatin Basin Healthy Streams plan. Examples of these dams are at Summerlake Park and Murray Hill Shopping Center on Murray Blvd.	$$
TRV-11	**Improve Stormwater Quality** There are a lot of huge parking lots in the SW Corridor including Washington Square, the Tigard Triangle and big box retailers in Sherwood. We should use this planning opportunity to eliminate runoff from these parking lots (and the large roofs they serve) with pervious pavement, parking lot trees, bioswales, ecoroofs.	$$
TRV-12	**Pedestrian Crossing /Sky Bridge over 99W** Bus access to the Tualatin River National Wildlife Refuge is good outbound but not inbound. A sky bridge or tunnel across 99W would provide Tri-Met riders a safe way to get back to Portland from the refuge. The crossing of 99W at Durham Road is unsafe. Several pedestrians have been killed here. We need a pedestrian bridge or a tunnel. Tonquin Trail crossings of 99W and Tualatin-Sherwood Road should be made with safety in mind (skybridges).	$$

TUALATIN RIVER WATERSHED COUNCIL

TUWC-1	**Remove stream barriers to endemic species** Remove barriers such as dams and culverts and/or mitigate their impacts to endemic species. Prioritize Tualatin River, Scoggins Creek Basin, Dairy-McKay Basins, Gales Creek Basin, upper Rock Creek Basin, Chiscken and Cedar Creek sub-basins, Jaquith and McFee sub-basins. Beginning with those areas positioned downstream.	$$
TUWC-2	**Remove stream barriers to Cutthroat Trout** Remove barriers such as dams and culverts and/or mitigate their impacts to cut throat trout species. Prioritize Bronson, Willow, Cedar Mill, Wapato, Ayers, Hill Christensen, Burris, Fanno, and Davis sub-basins, beginning with those areas positioned downstream in relation to the 14 sub-watershed.	$$
TUWC-3	**Improve hydrologic conditions** Geographic priorities: Tualatin River main stem and all sub-basins. Improve hydrologic conditions: Ensure adequate water flow to meet endemic fish needs	$$
TUWC-4	**Improve hydrologic conditions** Geographic priorities: Tualatin River main stem and all sub-basins. Improve hydrologic conditions: Manage peak flows and storm water in urbanized areas.	$$
TUWC-5	**Improve riparian conditions** Improve geomorphic conditions: increase bank stability, increase sinuosity (remove channel straightening), decrease channel entrenchment/increase flood plain connectivity. Prioritize in low to mid gradient areas.	$$
TUWC-6	**Restore riparian conditions** Manage invasive species to gain increase in native plant community diversity, expand stream cover, and increase woody debris. Prioritize project sites that affect longer stretches and on both sides of the stream, and achieve larger riparian zones in proportion to stream size.	$$
TUWC-7	**Improve Water Quality** Implement strategies to improve water quality in the Tualatin River. The DEQ lists the Tualatin River as 'water quality limited' due to its higher temperature (low flows and lack of riparian shade), dissolved oxygen (oxygen consuming substances that end up in the sediment), and presence of bacteria.	$$
TUWC-8	**Restore wetlands and floodplains** Preserve, restore, and enhance wetlands and floodplains, including emergent wetlands in all areas of Tualatin River watershed.	$$
TUWC-9	**Preserve intact upland areas** Preserve intact upland areas such as oak woodlands, prairie and oak savannas in all areas of Tualatin River watershed.	$$
TUWC-10	**Remove invasive species** Priority removal of invasive species in all areas of Tualatin River watershed.	$$
TUWC-11	**Prioritize connectivity of uplands** Prioritize connectivity of uplands to support wildlife corridors in all areas of the Tualatin River watershed.	$$

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