

Appendix A

A1: Current TMDL Implementation Plan Matrix

A2: Proposed TMDL Implementation Plan Matrix

Appendix A1
City of Newberg TMDL Current Implementation Plan Matrix
Year 1 November 2008 to December 2009

							Pollutant				
Best Management Practice or Activity	Source	Commitment/ Implementation Strategy	Measurable Goal	Implementation Tracking/Performance Measure	Expected Implementation Timeline	BMP Implementation Status*	Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
Measure No. 1 - Public Education											
PE-1 Implement Stormwater Educational Activities	All	Ongoing Public Education Activities	Community nights, Library Open House, Chamber of Commerce, etc.	Track number of community nights, topics covered, and attendance.	Existing Practice; Ongoing	Rain garden presentation in March 2009. Compost and natural pest management booths in May 2009.	X	X	X	X	X
		Put an educational insert in utility bills	Annual mailing starting in 2009.	Track how many inserts were mailed.	June 2009, then ongoing	One insert included in June 2009 utility bills.	X	X	X	X	X
		Use City website to include stormwater quality tips and information.	Place materials on website	Track updates to website and number of hits to website.	June 2009, then ongoing	TMDL Implementation, stormwater facts, and calendar pages on city website contain stormwater information. Tracking available on TMDL page (131 hits) and stormwater facts (105). Tracking not available on calendar.	X	X	X	X	X
		Periodic News Releases	As needed	Track number of news releases and topics.	June 2009, then ongoing	No progress to report at this time.	X	X	X	X	X
PE-2 Participate in the Yamhill Basin Council	Urban Activities	Assure representation at Yamhill Basin Council Meetings	Attend meetings, exchange information between City and Council	Track number of meetings attended and meeting notes.	Existing Practice; Ongoing	meetings, 2 of 2 steering committee meetings, and 5 of 5 water-quality meetings. Assisted with 2 water-quality monitoring events. Wrote YBC-Newberg OWEB grant.	X	X	X	X	X
	Urban Activities	Contribute \$1,000 to the Yamhill Basin Council annually, as funds are available.	Keep receipts for donations on file	Track funds donated.	January 2009, then ongoing	\$1,000 donation made July 2009.	X	X	X	X	X
PE-3 Provide Environmental Marking for Storm Drains	Spills, illicit discharges	Mark storm drains in high profile areas	Mark catch basins as needed	Track number of catch basins marked per year.	Existing Practice; Ongoing	Marked 96 catch basins.	X	X	X	X	
			50 catch basins a year	Track number of catch basins marked per year.	January 2009, then ongoing	Marked 96 catch basins.	X	X	X	X	
Measure No. 2 - Public Involvement											
PI-1 Continue with Public Participation in Reviewing the Stormwater Utility Fee	All	Solicit public input for establishing appropriate stormwater rate structure	Develop ongoing Citizens' Rate Review Committee	Track meeting attendance.	Existing Practice; Ongoing	Advertised meetings in local newspaper, on website, utility bill insert, and flyer sent to every address. 4 citizens attended December meetings.	X	X	X	X	X
		Meet with existing rate committee to review funding levels	Present funding needs to rate committee	Track progress and amount agreed upon and date it is effective.	March, 2008	Committee had not determined rate as of December 31, 2009.	X	X	X	X	X

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
PI-2 Public Participation in Ordinance and Program Development	Construction site runoff, post construction controls	Solicit public input for development of new ordinances	Develop list of new ordinances needed per goals of SWMP	•Track number of ordinances needed. •Track public input received.	March, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	X
			Develop construction site runoff control program ordinance for public review	Track progress.	September, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	
			Place document on City website for 30 days.	Track comments and incorporate as appropriate.	March, 2008; Complete	Completed					
PI-3 Use the City's Website for Education and Reporting of Stormwater Concerns	Spills, illicit discharges	Update website with stormwater information and requesting information from public	Provide a method for citizens to report stormwater concerns on City website.	Track number of comments received from website feedback mechanism.	May 2009, then ongoing	City website has a 24-hour telephone number and email address for citizen concerns. Tracking procedures are being developed for 2010.	X	X	X	X	X
			Identify and train staff to respond to incoming reports	Track training dates, attendance, and topics covered.	May, 2009	Staff are trained annually in stormwater best management practices using purchased software. They are also trained to contact, listen, and answer any questions from citizens when they arrive on the scene.	X	X	X	X	X
PI-4 Establish Hotline to Receive Complaints from the Public	Spills, illicit discharges	Provide telephone line that is checked continually for incoming reports of water quality issues	Identify and train staff to respond to incoming calls	Track number of calls received, the content of the calls, and the action taken (if required).	December 2009, then ongoing	City's 24-hour telephone line is used for the entire Maintenance Division activities. Tracking procedures are being developed for 2010.	X	X	X	X	X
			Advertise hotline on website and by placing phone number on utility bills.	Track progress.	December 2009	City advertises a 24-hour telephone line and email address on website. In addition, citizens are asked to call 911 if it is an emergency.					
Measure No. 3 - Illicit Discharge Detection and Elimination (IDDE)											
ID-1 Develop IDDE Plan	Spills, illicit discharges	Respond to spills and illegal dumps	Clean up illicit dumps and implement enforcement by citing violators	Track number of citations issued.	Existing Practice; Ongoing	There were 4 complaints relating to illegal discharges in 2009.	X	X	X	X	

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Implement spill containment; respond to spills with fire department	<ul style="list-style-type: none"> Track number of spills responded to by fire department. Track sources, causes, and resulting water quality problems resulting from spills. 	Existing Practice; Ongoing	The fire department did not respond to any reportable spills in 2009.	X	X	X	X	
		Develop plan to detect illicit discharges	Develop Draft Illicit Discharge Ordinance	Track progress.	April, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	
			Ordinance Approved by City Council	Track progress.	August, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	
			Map existing outfalls	Track progress.	Existing Practice; Ongoing	Map of existing outfalls is attached as Appendix E.	X	X	X	X	
			Prepare inventory	Track progress.	December, 2009	Map of existing outfalls is attached as Appendix E.	X	X	X	X	
			Develop monitoring plan including plan to follow up on discharges identified	Track progress.	June, 2010		X	X	X	X	
			Develop plan to address non-stormwater discharges	Track progress.	June, 2010		X	X	X	X	
			Develop worksheets for inspections	Track progress.	July, 2010		X	X	X	X	
ID-2 Train City Employees to Implement IDDE	Spills, illicit discharges	Inform staff, public employees, businesses and general public of hazards, new regulations, and proper disposal of waste	Develop training material and program	Track progress.	August, 2010		X	X	X	X	

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Implement training and notification of staff and public employees; use public education measures to inform businesses and general public	Track training provided and attendance.	October, 2010		X	X	X	X	
			Seek free relevant stormwater webcasts for lunch & learns for interested employees	<ul style="list-style-type: none"> •Track number of stormwater webcast lunch & learns put on for employees . •Track topics of webcasts chosen •Track attendance to webcast brown bags. 	January 2009; then ongoing	Stormwater staff are trained annually to look for and remedy illicit discharges. Tracking procedures are being developed for 2010.	X	X	X	X	
ID-3 Implement IDDE plan	Spills, illicit discharges	Conduct illicit discharge inspections	Conduct field screening of outfalls and other elements of plan developed in ID-1	Track number of field screenings performed, results of field screenings, and any follow up actions taken.	October 2010; then ongoing		X	X	X	X	
			Follow up on reports of spills and illicit discharges	<ul style="list-style-type: none"> •Track number of reports received for spills or illicit discharges. •Track follow up actions taken. 	October 2010; then ongoing		X	X	X	X	
ID-4 Hazardous Waste Collection Program	Illicit discharges	Provide opportunity for residents to dispose of hazardous waste	Offer free hazardous waste collection service twice per year to City residents.	Track volume of waste received during collection events.	Existing practice; Ongoing	Collection programs are held every May and October by Yamhill County Solid Waste. 39 tons of hazardous waste were collected in 2009.					
Measure No. 4 - Construction site stormwater runoff control											
CS-1 Develop Ordinance to Control Construction Site Runoff for less than one acre	Construction Site Runoff	Erosion control on public works projects	Use of biobags, haybales, wattles, and other construction practices on construction sites	Track number of construction projects with erosion control measures.	Existing Practice; Ongoing	Procedures are being developed to track erosion control measures in 2010.	X	X	X	X	
		Develop erosion control ordinance.	Prepare draft ordinance.	Track progress.	February, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Ordinance approved by City Council	Track progress.	September, 2009	Draft code is pending internal review. Public comment period will be offered once code emerges from internal review.	X	X	X	X	
			Select guidance manuals for program implementation	Track progress.	July, 2009	Draft code is pending internal review. As part of code research, several manuals were selected that will be merged to create city-specific manual.	X	X	X	X	
CS-2 Train City Employees Regarding Construction Site Controls	Construction Site Runoff	Identify and train employees for plan review, inspection and enforcement of erosion control ordinance	Develop training materials	Track progress.	December, 2010		X	X	X	X	
			Conduct training for staff	Track progress.	January, 2011		X	X	X	X	
			Seek free relevant stormwater webcasts for lunch & learns for interested employees	<ul style="list-style-type: none"> •Track number of stormwater webcast lunch & learns put on for employees. •Track topics of webcasts chosen. •Track attendance to webcast brown bags. 	January 2009; then ongoing	Staff from the Building Division are required to take classes to maintain their plumbing inspection certification, however these classes may not include erosion control. Procedures are being developed to track training for 2010.	X	X	X	X	
CS-3 Conduct Plan Reviews, Inspections, and Enforcement for Construction Sites	Construction Site Runoff	Implement erosion control program	City responds to erosion control complaints	<ul style="list-style-type: none"> •Track number of complaints received and follow up actions taken by City. •Track number of notices of non-compliance per year . 	Existing Practice; Ongoing	In 2009, there were 0 complaints and 0 notices of noncompliance.	X	X	X	X	
			Conduct plan review	Track number of plans reviewed per year.	February 2011; then ongoing		X	X	X	X	
			Conduct site inspections, enforcement, as necessary	<ul style="list-style-type: none"> •Track number of erosion control inspections conducted per year. •Track number of notices of non-compliance per year. 	February 2011; then ongoing		X	X	X	X	

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Measure No. 5 - Post-Construction Stormwater Runoff Control											
DS-1 Develop Ordinance to Control Runoff from New and Redevelopment	New Development	Develop ordinance for on-site facilities to prevent or minimize pollutants from new development	Prepare draft ordinance	Track progress.	August, 2010		X	X	X	X	
			Ordinance approved by City Council	Track progress.	December, 2010		X	X	X	X	
			Develop standards and guidelines for on-site facilities	Track progress.	November, 2010		X	X	X	X	
			Evaluate Retrofit Opportunities	Track number of sites reviewed and result of evaluation.	February 2011; then ongoing		X	X	X	X	
			Evaluate Opportunities for Implementing Regional Facilities for Existing and New Development	Track number of sites reviewed and result of evaluation.	August 2010; then ongoing		X	X	X	X	
DS-2 Train City Employees Regarding New Development Standards	New Development	Identify staff and train staff on standards, guidelines, plan review, and inspections	Develop training materials	Track progress.	December, 2010		X	X	X	X	
			Implement training	Track when training occurred and attendees.	December 2010; then ongoing		X	X	X	X	
			Notification to development community of new requirements	Track progress.	December, 2010		X	X	X	X	
			Seek free relevant stormwater webcasts for lunch & learns for interested employees	•Track number of stormwater webcast lunch & learns put on for employees. •Track topics of webcasts chosen. •Track attendance to webcast brown bags.	January 2009; then ongoing	Stormwater staff are trained annually in stormwater best management practices and are encouraged to attend seminars through APWA. Engineering and Planning staff attended seminars on Low Impact Development in 2009. Procedures are being developed to track training for 2010.	X	X	X	X	
DS-3 Conduct Plan Reviews, Inspections, Enforcement for New Development	New Development	Implement program for on-site requirements to address stormwater quality	Conduct pre-construction conference	Track number of pre-construction conferences per year.	Existing practice; Ongoing	There were 5 pre-construction conferences from November 2008 to December 2009.	X	X	X	X	

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Encourage use of water quality facilities for new development	Track number of water quality facilities installed for new development.	Existing practice; Ongoing	The number of water-quality facilities installed for new development was not formally tracked in 2009. Procedures are being developed to formally track facilities for 2010.	X	X	X	X	
			Require plan submittals, conduct plan reviews	Track number of plan submittals and reviews conducted per year.	Existing practice and March 2011; Ongoing		X	X	X	X	
			Start inspection of new facilities	•Track number of inspections done per year. •Track inspection results.	March 2011, then ongoing		X	X	X	X	
Measure No. 6 - Pollution prevention in Municipal Operations											
OM-1 Develop a Water Quality Sensitive Operations and Maintenance Manual	Public Operations and Maintenance Practices	Develop water quality friendly practices	Place trash racks over major inlets	Track inlets installed with trash racks.	Existing Practices; Ongoing	Trash racks are installed on stormwater inlets in areas of concern.	X	X	X	X	X
			Review existing operation and maintenance practices	Track progress.	Existing Practices	Maintenance stormwater staff are primarily out in the field and have little extra time for reviewing existing practices. Due to current economic climate, only 3 of the 6 requested stormwater staff positions have been funded.					
			Develop manual of existing practices, modifications, and new practices from other programs	Track modifications to manual.	September, 2009	Maintenance stormwater staff are primarily out in the field and have little extra time for developing a manual. Due to current economic climate, only 3 of the 6 requested stormwater staff positions have been funded.	X	X	X	X	X
OM-2 Train City Employees Regarding Revised O&M Practices	Public Operations and Maintenance Practices	Implementation of water quality friendly O&M practices	Review practices with staff	Track progress.	December, 2009	Maintenance stormwater staff are primarily out in the field and have little extra time for developing a manual. Due to current economic climate, only 3 of the 6 requested stormwater staff positions have been funded.	X	X	X	X	X
			Review new manual with staff	Track progress.	January, 2010		X	X	X	X	X

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Seek free relevant stormwater webcasts for lunch & learns for interested employees	<ul style="list-style-type: none"> •Track number of stormwater webcast lunch & learns put on for employees. •Track topics of webcasts chosen. •Track attendance to webcast brown bags. 	January 2009; then ongoing	Staff are trained annually in stormwater best management practices and are encouraged to attend APWA seminars and conferences. Procedures for documenting training are being developed for 2010.	X	X	X	X	X
OM-3 Conduct Catch Basin and Storm Drain Cleaning	Stormwater Runoff	Catch Basin Cleaning	Catch Basins cleaned on an as needed basis	Track number of catch basins cleaned per year.	Existing Practice; Ongoing	78 catch basins were cleaned from Nov 2008 to Dec 2009.	X	X	X	X	
		TV, inspect, and clean stormdrains	TV, inspect and clean storm drains as needed	Track length of storm drain cleaned and number of inspections.	Existing Practice; Ongoing	5,691 feet of storm line was inspected and 18.807 feet of storm line was cleaned from Nov 2008 to Dec 2009.	X	X	X	X	
		Repair pipe and culverts	Repair pipe and culverts as needed	<ul style="list-style-type: none"> •Track amount of pipe and # of culverts repaired per year. •Track number of culverts repaired per year. 	Existing Practice; Ongoing	80 feet of line were replaced from Nov 2008 to Dec 2009.	X	X	X	X	
		Optimize catch basin maintenance practices for water quality	Develop routine catch basin cleaning program	Track progress.	December, 2009	The city is upgrading catch basins to larger grates and a 12" or greater sump. It is also retrofitting areas of the stormwater system. A routine catch basin cleaning program is being developed for 2010.	X	X	X	X	
			Implement catch basin cleaning program	Track progress.	January 2010; then ongoing		X	X	X	X	
OM-4 Conduct Street Sweeping	Street Debris	Street sweeping	Street sweeping occurs on select streets every 4 to 6 weeks	Track miles swept per year.	Existing Practice; Ongoing	5,242 curb miles were swept from Nov 2008 to Dec 2009.	X	X	X	X	
		Optimize street sweeping practices for water quality	Evaluate street sweeping program and develop routine street sweeping program to optimize water quality benefits	Track modifications done to street sweeping program.	March, 2009	Streets are swept every 6 weeks to minimize debris entering the stormwater system. An average 7 cubic feet of debris were removed per curb mile swept from Nov 2008 to Dec 2009.	X	X	X	X	

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			Implement street sweeping program	Track progress.	April 2009; then ongoing	Streets are swept every 6 weeks to minimize debris entering the stormwater system. An average 7 cubic feet of debris were removed per curb mile swept from Nov 2008 to Dec 2009.	X	X	X	X	
*Timeline represents target completion or goal implementation date. Some goals that are being implemented are not currently being tracked. Tracking measures for these goals will be implemented upon acceptance of this TMDL plan by ODEQ.											
** See separate Temperature Implementation Plan in Section 3.0 of this plan											

Appendix A-2
City of Newberg TMDL Implementation Plan
Proposed Revised Matrix

							Pollutant				
Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change	Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
Measure No. 1 - Public Education											
PE-1 Implement Stormwater Educational Activities	All	Ongoing Public Education Activities	Stormwater booth at public venues.	Track number of events.	Annually	The original goal included specific types of public education. The city would like to expand the opportunities available for this goal.	X	X	X	X	X
		Put an educational insert in utility bills	Annual mailing starting in 2009.	Track how many inserts were mailed.	June 2009, then ongoing		X	X	X	X	X
		Use City website to include stormwater quality tips and information.	Place materials on website	Track updates to website and number of hits to website.	June 2009, then ongoing		X	X	X	X	X
		Educate citizen groups	Present stormwater information to interested citizen groups	Track number of presentations	Annually	The original goal was to send out news releases. The city would like to have more direct contact with citizens.					
PE-2 Participate in the Yamhill Basin Council	Urban Activities	Assure representation at Yamhill Basin Council Meetings	Attend meetings, exchange information between City and Council	Track number of meetings attended and meeting notes.	Existing Practice; Ongoing		X	X	X	X	X
	Urban Activities	Contribute \$1,000 to the Yamhill Basin Council annually, as funds are available.	Keep receipts for donations on file	Track funds donated.	January 2009, then ongoing		X	X	X	X	X
PE-3 Provide Environmental Marking for Storm Drains	Spills, illicit discharges	Mark storm drains in high profile areas	Mark 50 catch basins a year until all are marked	Track number of catch basins marked per year.	Existing Practice; Ongoing	City requests that this goal be updated to reflect the second (deleted) goal from the original matrix.	X	X	X	X	
				50 catch basins a year		City requests this goal be deleted as it is the same as the previous line	X	X	X	X	
Measure No. 2 - Public Involvement											
PI-1 Continue with Public Participation in Reviewing the Stormwater Utility Fee	All	Solicit public input for establishing appropriate stormwater rate structure	Develop ongoing Citizens' Rate Review Committee	Track meeting attendance.	Existing Practice; Ongoing		X	X	X	X	X
		Meet with existing rate committee to review funding levels	Present funding needs to rate committee	Track progress and amount agreed upon and date it is effective.	March, 2008		X	X	X	X	X
PI-2 Public Participation in Ordinance and Program Development	Construction site runoff, post construction controls	Solicit public input for development of new ordinances	Develop list of new ordinances needed per goals of SWMP	•Track number of ordinances needed. •Track public input received.	March, 2009		X	X	X	X	X

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Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change	Pollutant				
							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Develop construction site runoff control program ordinance for public review	Track progress.	September, 2009		X	X	X	X	
			Place document on City website for 30 days.	Track comments and incorporate as appropriate.	March, 2008; Complete						
PI-3 Use the City's Website for Education and Reporting of Stormwater Concerns	All	Update website with stormwater information and requesting information from public	Provide a method for citizens to report stormwater concerns on City website.	Track number of comments received from website feedback mechanism.	May 2009, then ongoing		X	X	X	X	X
		Provide venues for active citizen involvement	Create volunteer opportunities	Track volunteer dates and number of volunteers.	Annually	Original goal was to train staff to respond to incoming reports. City would like to expand active citizen involvement in stormwater issues and believes that volunteer work will accomplish that task.	X	X	X	X	X
PI-4 Establish Hotline to Receive Complaints from the Public	Spills, illicit discharges	Provide 24-hour telephone line that receives citizen complaints	Identify and train staff to respond to incoming calls	Track number of stormwater work orders resulting from calls received on the 24-hour telephone line.	December 2009, then ongoing	Establishing a 24-hour hotline with current staff levels is problematic and citizens are requested to call 911 in an emergency. The 911 calls that do not result in a work order are difficult to track.	X	X	X	X	X
			Advertise hotline on website and by placing phone number on utility bills.	Track progress.	December 2009						
Measure No. 3 - Illicit Discharge Detection and Elimination (IDDE)											
ID-1 Develop IDDE Plan	Spills, illicit discharges	Respond to spills and illegal dumps	Clean up illicit dumps and implement enforcement by citing violators	Track number of citations issued.	Existing Practice; Ongoing		X	X	X	X	
			Implement spill containment; respond to spills with fire department	<ul style="list-style-type: none"> •Track number of spills responded to by fire department. •Track sources, causes, and resulting water quality problems resulting from spills. 	Existing Practice; Ongoing		X	X	X	X	

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							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
		Develop plan to detect illicit discharges	Develop Draft Illicit Discharge Ordinance	Track progress.	April, 2009		X	X	X	X	
			Ordinance Approved by City Council	Track progress.	August, 2009		X	X	X	X	
			Map existing outfalls	Track progress.	Existing Practice; Ongoing		X	X	X	X	
			Prepare inventory	Track progress.	December, 2009		X	X	X	X	
			Develop monitoring plan including plan to follow up on discharges identified	Track progress.	June, 2010		X	X	X	X	
			Develop plan to address non-stormwater discharges	Track progress.	June, 2010		X	X	X	X	
			Develop worksheets for inspections	Track progress.	July, 2010		X	X	X	X	
ID-2 Train City Employees to Implement IDDE	Spills, illicit discharges	Inform staff, public employees, businesses and general public of hazards, new regulations, and proper disposal of waste	Develop training material and program	Track progress.	August, 2010		X	X	X	X	
			Use public education measures to inform businesses and general public	Track educational materials	October, 2010	Staff training was deleted from this goal since it is included in the following goal. Tracking training dates were replaced with tracking educational material sent out.	X	X	X	X	
			Train employees in illicit discharge investigation	Track training events.	January 2009; then ongoing	City proposes that training be expanded to include all opportunities available to staff	X	X	X	X	
ID-3 Implement IDDE plan	Spills, illicit discharges	Conduct illicit discharge inspections	Conduct field screening of outfalls and other elements of plan developed in ID-1	Track number of field screenings performed, results of field screenings, and any follow up actions taken.	October 2010; then ongoing		X	X	X	X	
			Follow up on reports of spills and illicit discharges	<ul style="list-style-type: none"> •Track number of reports received for spills or illicit discharges. •Track follow up actions taken. 	October 2010; then ongoing		X	X	X	X	

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Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change	Pollutant				
							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
		Current Practices	Clean up illicit dumps and implement enforcement by citing violators	Track number of citations issued.	Existing Practice; Ongoing	The city proposes to have this goal moved from the Develop section to the Implementation section since current practices reflect implementation and not development.					
		Current Practices	Implement spill containment; respond to spills with fire department	<ul style="list-style-type: none"> •Track number of spills responded to by fire department. •Track sources, causes, and resulting water quality problems resulting from spills. 	Existing Practice; Ongoing	The city proposes to have this goal moved from the Develop section to the Implementation section since current practices reflect implementation and not development.					
ID-4 Hazardous Waste Collection Program	Illicit discharges	Provide opportunity for residents to dispose of hazardous waste	Offer free hazardous waste collection service twice per year to City residents.	Track volume of waste received during collection events.	Existing practice; Ongoing						
Measure No. 4 - Construction site stormwater runoff control											
CS-1 Develop Ordinance to Control Construction Site Runoff for less than one acre	Construction Site Runoff	Erosion control on public works projects	Use of biobags, haybales, wattles, and other construction practices on construction sites	Track number of construction projects with erosion control measures.	Existing Practice; Ongoing		X	X	X	X	
		Develop erosion control ordinance.	Prepare draft ordinance.	Track progress.	February, 2009		X	X	X	X	
			Ordinance approved by City Council	Track progress.	September, 2009		X	X	X	X	
			Select guidance manuals for program implementation	Track progress.	July, 2009		X	X	X	X	
CS-2 Train City Employees Regarding Construction Site Controls	Construction Site Runoff	Identify and train employees for plan review, inspection and enforcement of erosion control ordinance	Develop training materials	Track progress.	December, 2010		X	X	X	X	
			Conduct training for staff	Track progress.	January, 2011		X	X	X	X	
			Train staff in erosion and sediment control techniques.	Track training events.	January 2009; then ongoing	City proposes that training be expanded to include all opportunities available to staff	X	X	X	X	

Appendix A-2
City of Newberg TMDL Implementation Plan
Proposed Revised Matrix

Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change	Pollutant				
							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
CS-3 Conduct Plan Reviews, Inspections, and Enforcement for Construction Sites	Construction Site Runoff	Implement erosion control program	City responds to erosion control complaints	<ul style="list-style-type: none"> Track number of complaints received and follow up actions taken by City. Track number of notices of non-compliance per year . 	Existing Practice; Ongoing		X	X	X	X	
			Conduct plan review	Track number of plans reviewed per year.	February 2011; then ongoing		X	X	X	X	
			Conduct site inspections, enforcement, as necessary	<ul style="list-style-type: none"> Track number of erosion control inspections conducted per year. Track number of notices of non-compliance per year. 	February 2011; then ongoing		X	X	X	X	
Measure No. 5 - Post-Construction Stormwater Runoff Control											
DS-1 Develop Ordinance to Control Runoff from New and Redevelopment	New Development	Develop ordinance for on-site facilities to prevent or minimize pollutants from new development	Prepare draft ordinance	Track progress.	August, 2010		X	X	X	X	
			Ordinance approved by City Council	Track progress.	December, 2010		X	X	X	X	
			Develop standards and guidelines for on-site facilities	Track progress.	November, 2010		X	X	X	X	
			Evaluate Retrofit Opportunities	Track number of sites reviewed and result of evaluation.	February 2011; then ongoing		X	X	X	X	
			Evaluate Opportunities for Implementing Regional Facilities for Existing and New Development	Track number of sites reviewed and result of evaluation.	August 2010; then ongoing		X	X	X	X	
DS-2 Train City Employees Regarding New Development Standards	New Development	Identify staff and train staff on standards, guidelines, plan review, and inspections	Develop training materials	Track progress.	December, 2010		X	X	X	X	
			Implement training	Track when training occurred and attendees.	December 2010; then ongoing		X	X	X	X	
			Notification to development community of new requirements	Track progress.	December, 2010		X	X	X	X	

Appendix A-2
City of Newberg TMDL Implementation Plan
Proposed Revised Matrix

Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change	Pollutant				
							Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
			Train staff in erosion and sediment control techniques and investigations.	Track training events.	December 2010; then ongoing	City proposes that training be expanded to include all opportunities available to staff	X	X	X	X	
DS-3 Conduct Plan Reviews, Inspections, Enforcement for New Development	New Development	Implement program for on-site requirements to address stormwater quality	Conduct pre-construction conference	Track number of pre-construction conferences per year.	Existing practice; Ongoing		X	X	X	X	
			Encourage use of water quality facilities for new development	Track number of water quality facilities installed for new development.	Existing practice; Ongoing		X	X	X	X	
			Require plan submittals, conduct plan reviews	Track number of plan submittals and reviews conducted per year.	Existing practice and March 2011; Ongoing		X	X	X	X	
			Start inspection of new facilities	•Track number of inspections done per year. •Track inspection results.	March 2011, then ongoing		X	X	X	X	
Measure No. 6 - Pollution prevention in Municipal Operations											
OM-1 Develop a Water Quality Sensitive Operations and Maintenance Manual	Public Operations and Maintenance Practices	Develop water quality friendly practices	Place trash racks over major inlets	Track inlets installed with trash racks.	Existing Practices; Ongoing		X	X	X	X	X
			Review existing operation and maintenance practices	Track progress.	Existing Practices						
			Develop manual of existing practices, modifications, and new practices from other programs	Track modifications to manual.	September, 2009		X	X	X	X	X
OM-2 Train City Employees Regarding Revised O&M Practices	Public Operations and Maintenance Practices	Implementation of water quality friendly O&M practices	Review practices with staff	Track progress.	December, 2009		X	X	X	X	X
			Review new manual with staff	Track progress.	January, 2010		X	X	X	X	X
			Train staff in stream-friendly O&M practices	Track training events.	January 2009; then ongoing	City proposes that training be expanded to include all opportunities available to staff	X	X	X	X	X
OM-3 Conduct Catch Basin and Storm Drain Cleaning	Stormwater Runoff	Catch Basin Cleaning	Catch Basins cleaned on an as needed basis	Track number of catch basins cleaned per year.	Existing Practice; Ongoing		X	X	X	X	

Appendix A-2
City of Newberg TMDL Implementation Plan
Proposed Revised Matrix

Best Management Practice or Activity	Source	Strategy	Measurable Goal	Performance Measure	Expected Implementation Timeline	Explanation of Proposed Change		Pollutant				
								Nutrients	Bacteria	Total Suspended Solids	Mercury	Temperature**
		TV, inspect, and clean stormdrains	TV, inspect and clean storm drains as needed	Track length of storm drain cleaned and number of inspections.	Existing Practice; Ongoing			X	X	X	X	
		Repair pipe and culverts	Repair pipe and culverts as needed	<ul style="list-style-type: none"> Track amount of pipe repaired per year and culvert repairs. Track number of culverts repaired per year. 	Existing Practice; Ongoing			X	X	X	X	
		Optimize catch basin maintenance practices for water quality	Develop routine catch basin cleaning program	Track progress.	December, 2009			X	X	X	X	
			Implement catch basin cleaning program	Track progress.	January 2010; then ongoing			X	X	X	X	
OM-4 Conduct Street Sweeping	Street Debris	Street sweeping	Street sweeping occurs on select streets every 4 to 6 weeks	Track miles swept per year.	Existing Practice; Ongoing			X	X	X	X	
		Optimize street sweeping practices for water quality	Evaluate street sweeping program and develop routine street sweeping program to optimize water quality benefits	Track modifications done to street sweeping program.	March, 2009			X	X	X	X	
			Implement street sweeping program	Track progress.	April 2009; then ongoing			X	X	X	X	

*Timeline represents target completion or goal implementation date. Some goals that are being implemented are not currently being tracked. Tracking measures for these goals will be implemented upon acceptance of this TMDL plan by ODEQ.

** See separate Temperature Implementation Plan in Section 3.0 of this plan

Appendix B

B1: Rain Garden Presentation

B2: Utility Bill Educational Insert

B3: Sample of Stormwater Tips on Website

B4: 2010 Newberg Stormwater Calendar

The ABC's of Rain Gardens

Presented by Douglas Reynolds for the Yamhill Basin Council
March 2009

Explanation

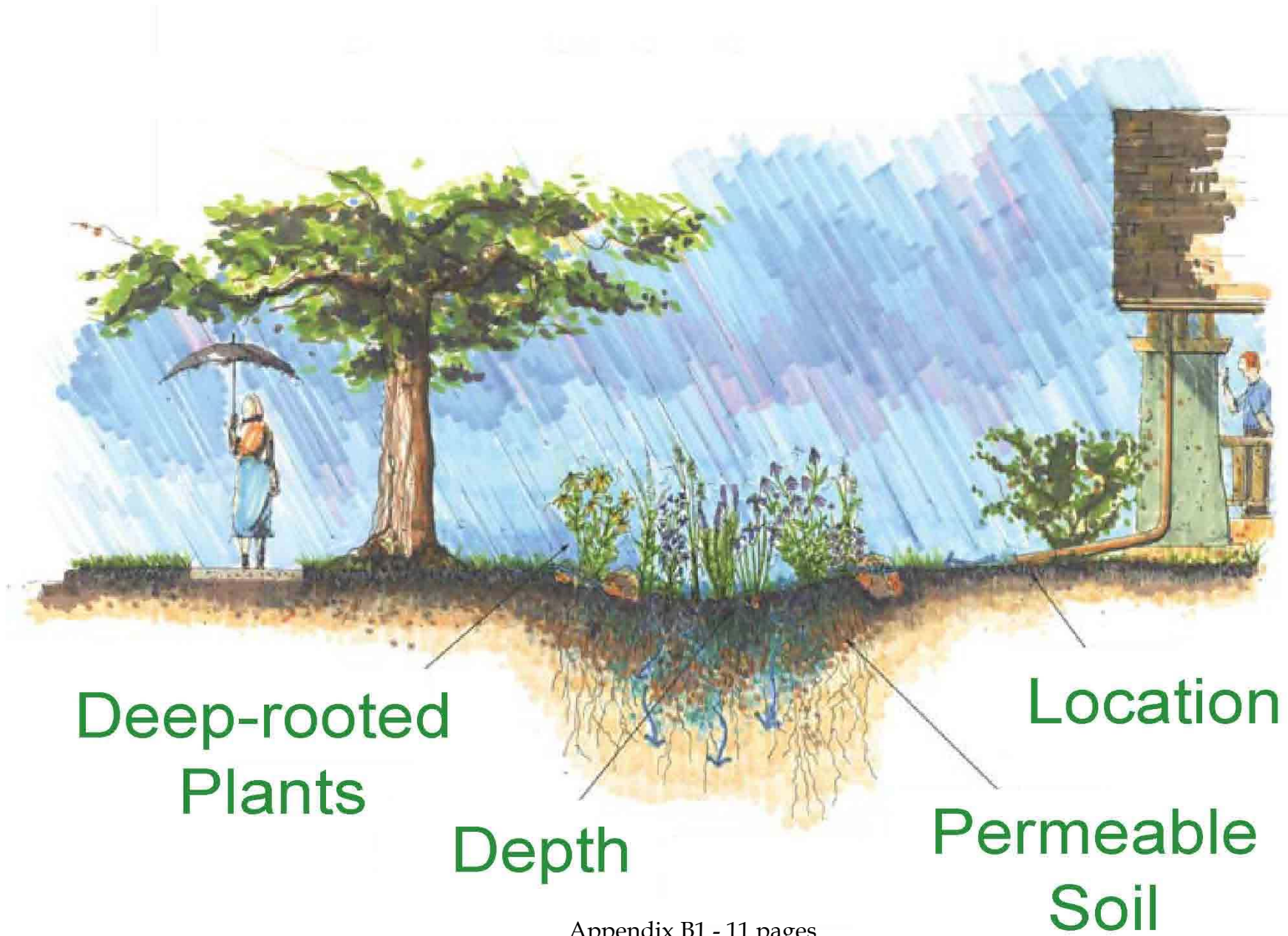
- How is a rain garden different from a standard garden or landscape feature?
 - A rain garden's primary purpose is to improve water quality.
 - The secondary purpose is to create a design that removes pollutants in water and foster water conservation.

The ABC's of Rain Gardens

"A"

Site Consideration

- What & Why : A rain garden collects rainwater from impervious surfaces and through natural process / design removes contaminants from the water.
- Where: Rainwater runs from impervious surfaces and is transported to a rain garden or "bioretention area".
- Proximity: Locations of rain gardens are commonly connected to gutter outflows, bottoms of slopes, and near storm drain access.

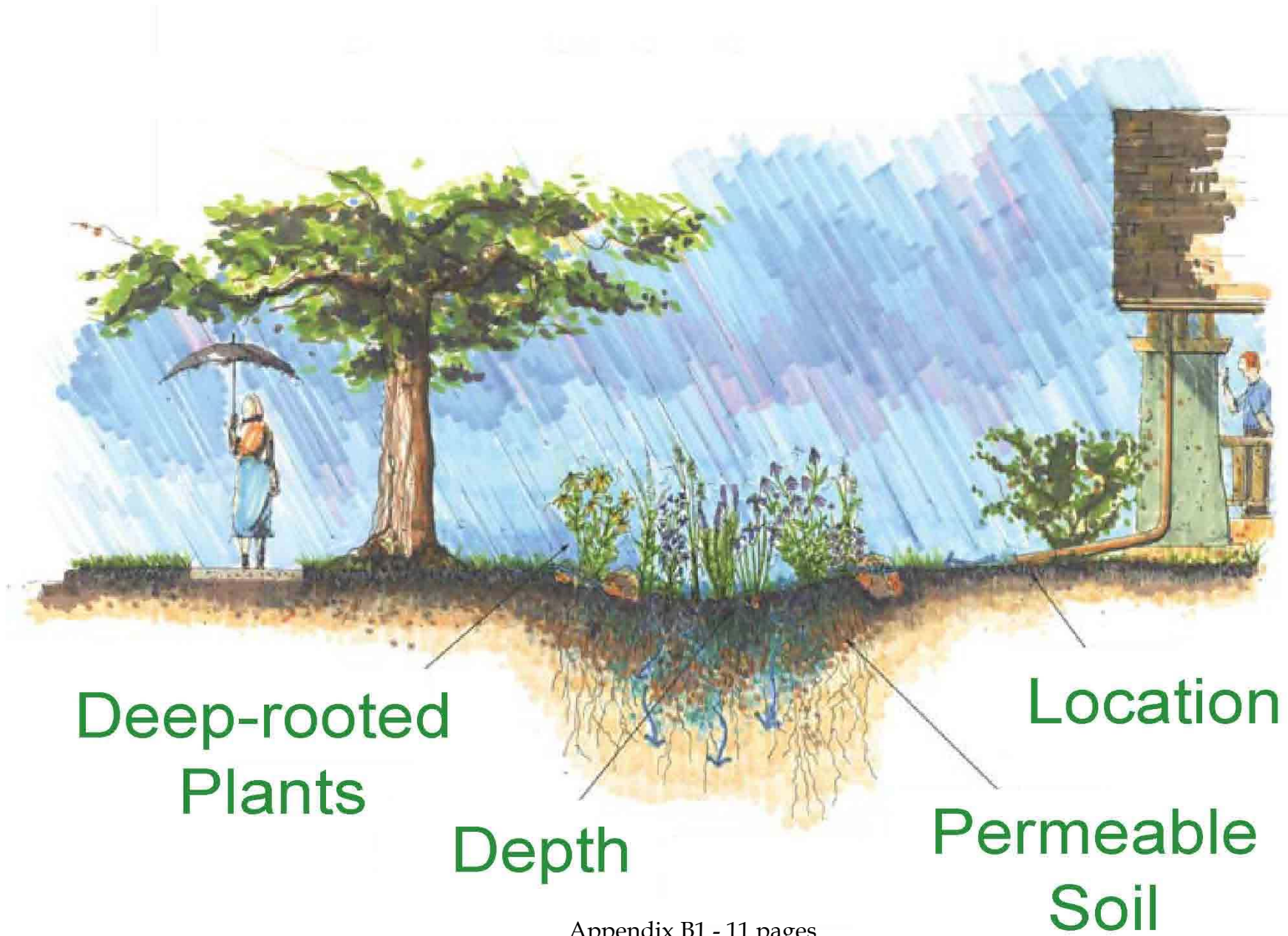


The ABC's of Rain Gardens

"B"

The 3 Design Needs

- Water catchment
 - A man made depression designed to hold or transport rain water
- Soil
 - Test soil for water retention
- Vegetation
 - Picking your plants



The ABC's of Rain Gardens

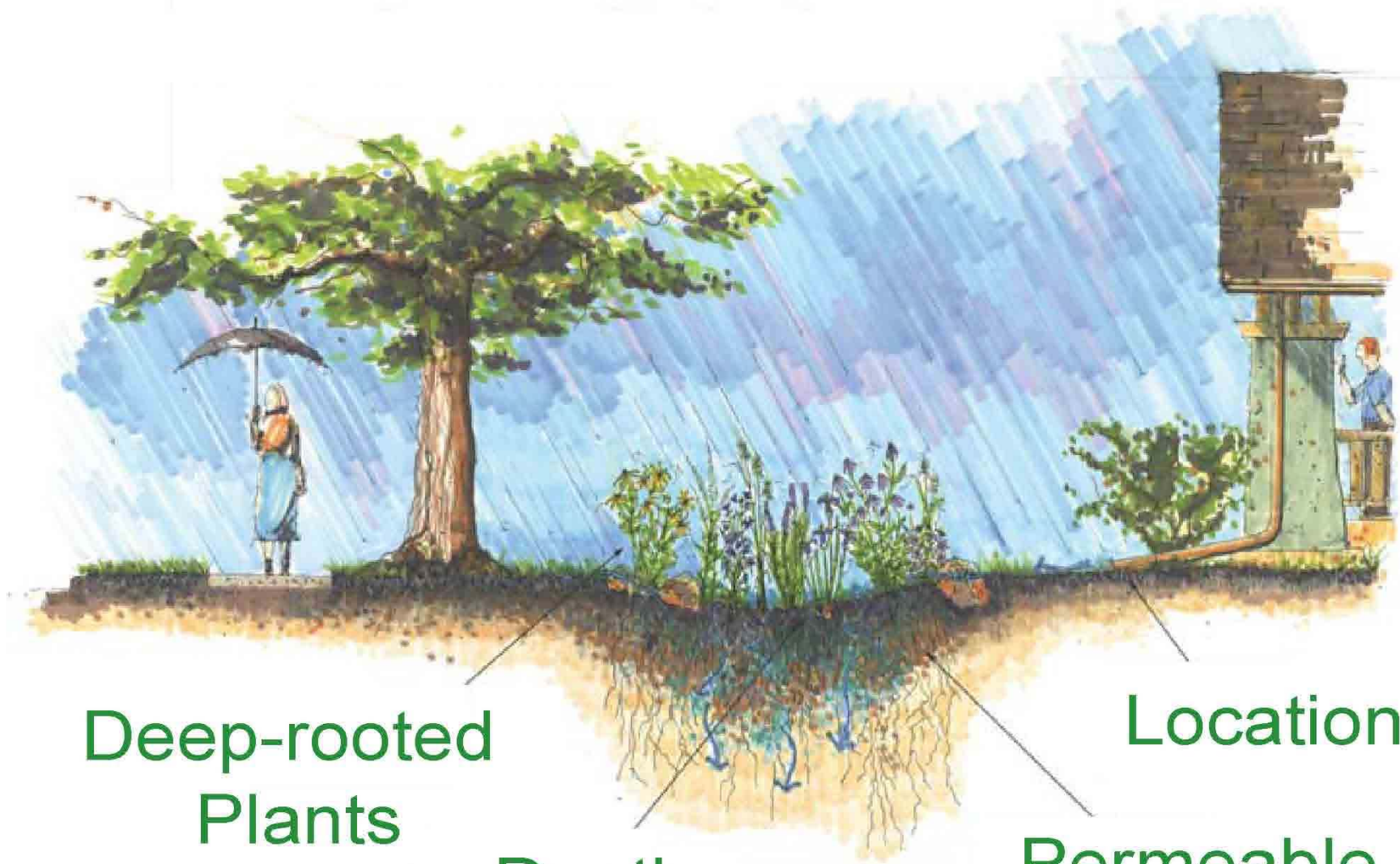
"C"

Don't flood your neighbors basement!

- The shape of the garden is not as important as the area available for bioretention.
- Do you have access to storm drains?
- Water accumulation

What is the average rain fall

The big storm?



Deep-rooted
Plants

Depth

Location

Permeable
Soil

WHY

- Flood prevention
- Removes large debris
- Filters chemical before entering waterways
- Reduces sediment and other pollutants
- Cools water temperature
- Reduces irrigation demand and sometimes never irrigate again.
- Beauty



THE END

CONSERVATION NEWS

CITY OF NEWBERG

SPECIAL POINTS OF INTERESTS:

- Want to save water? The City of Newberg is offering water conserving shower heads, faucet aerators, hose nozzles, and much more free of charge. Come to City Hall at 414 E First Street to pick up your water conservation kit.
- Feel like taking a walk? Walk to the Water Wise Garden located near the Newberg Public Library at the corner of Hancock & Blaine Streets. You will see ideas on how to use water wisely in your garden.
- Adjusting your automated irrigation timers to water in the mornings and evenings will reduce water evaporation and reduce your water bill.
- A fun activity for kids is to play in the sprinklers. Encourage them to play in the sprinklers during the scheduled watering cycle.
- Don't waste water on your driveway and sidewalks. Make necessary adjustments so that the water you are using is watering only the plants.

TAKING A LOOK AROUND

The physical beauty that defines Oregon is not seen in every state. Natural resources are not appreciated in every town as they are in Newberg. Most towns don't have newsletters that inform the community of local sustainability news, efforts, and handy conservation tips. A revived effort towards conservation is occurring here in Newberg, Oregon. Look forward to receiving the new Conservation Newsletter included with your water bill several times a year. If you have any suggestions or recommendations for future articles please see the contact information at the bottom of this page.

WORKING THE RAIN GARDEN

Newberg is fortunate to have open green parks, tree lined sidewalks, and rows of crops. Lately, city officials, engineers, planners, and community representatives have noticed a growing interest in rain gardens. City code for rain gardens currently does not exist which means they are not permitted. City staff is currently engaged in an effort to write the necessary code to allow rain gardens. Log onto the City of Newberg's website for updates.

Rain gardens play a number of beneficial roles. Rain gardens are efficient, fun, beautiful, and a great way to protect Newberg's natural waterways. Rain gardens function as a natural buffer between rainwater falling from the sky and the ground beneath your feet. Rainwater falling from the sky and soaking into the ground is natural, but when that rain water comes into contact with road grit, chemicals, fertilizers, trash, and other substances the water can become contaminated and cause damage to streams. Rain gardens are a way you can help rainwater leave your property as clean as it was when it fell from the sky.

A rain garden is bowl shaped which helps to channel and hold rainwater. Proper well draining soils matched with suitable types of plants can filter the rainwater by absorbing pollutants and nutrients, and by removing unsuitable debris.

Rainwater runs directly into storm drains and eventually enters rivers and streams untreated. This flow of water has the potential to create pollution and flooding concerns. Rain gardens are a great way to mitigate these events.

Newberg is already a responsible water-using City. The City is offering ways that you can also conserve and protect our water. Efforts are underway to develop safe and functional design standards for residential rain gardens. Rain gardens will soon be a useful tool you can use to help conserve and protect our waterways.



Turn your lawn into a garden while offering rent free housing to birds and food for bees!

If you would like to contribute or have questions, please contact: Douglas Reynolds at douglas.reynolds@ci.newberg.or.us

FISHY STENCILS

We all may have seen the fish painted next to storm drains. The purpose of these stencils are to remind visitors, residents, and businesses that water in the street drains into nearby creeks and rivers. When it rains, water washes over roofs, streets, driveways, sidewalks, parking lots, and land surfaces. As it moves from these surfaces into the street drains, it picks up a variety of pollutants such as oil, degreaser, pesticides, metals, chemicals, and sediment. The stencils are good reminders for people to consider the impact of what they put down the drain or what may go down the drain when it rains.

Newberg uses non-toxic stencils to place this message on storm drains. By making efforts to keep contaminants from entering the storm drains we

can take another step towards being stewards of our watershed and continue to keep our surface water clean, clear, and flowing. For more information regarding stormwater and ways to reduce your stormwater discharge visit the water conservation table located at Newberg City Hall (414 E. First Street).

DRAINS TO STREAM



KEEP IT CLEAN

NEWBERG COMPOSTS BIOSOLIDS

Yes, Newberg processes biosolids collected at the Wastewater Treatment Plant into a compost fertilizer. "Newgrow" compost is an excellent soil amendment (the best soil amendments increase the



water and nutrient holding capacity of the soil and improve aeration and water infiltration). Newgrow is rated by the Environmental Protection Agency as a Class A "Exceptional Quality Biosolids" product with no restrictions on its use. Newgrow provides slow release of nitrogen, phosphorus and potassium which improves the ability of your soil to retain water and resist compaction. By using the biosolids from the treatment facility to make compost, we reduce our impact on the environment. Newberg is one of only a

few cities in the country that recycles their biosolids. Newberg is leading the way for other cities to create new uses with their waste. You can purchase Newgrow at the Wastewater Treatment Plant (2301 Wynookski). Compost is available weekdays from 8:30-3:30 for \$10 a cubic yard. Cash and checks are accepted and it is recommended that you call in advance to check availability, 503-537-1252.

NEWBERG NOT OLDBERG?

The City of Newberg is working for you and is working all around you. This summer you will see city employees working on roads and utilities. You will see employees mowing grass and planting flower pots. The City's phones are ringing and computer mice are clicking. The staff is working hard to provide for the community and prepare for the future. Now is the time to weigh-in on what's on your mind. If you have praise, questions, concerns, or comments, please feel free to contact City Hall at 503-537-1240 or come in and let us know.



The Public Works Department is now offering additional environmental services. If you would like to know more about environmental services, please feel free to call 503-537-1282 or come by City Hall. There is a lot going on around Newberg this year and we look forward to the summer of 2009!



Example Stormwater Tips for 2009

Put a layer of mulch around trees and plants and save 750 to 1,500 gallons of water per month. Chunks of bark, peat moss or gravel slow down evaporation

Plant trees or shrubs this Fall! During the leafy season, they keep your bills low by shading your house. They help with soil erosion and stormwater runoff by soaking up the rain. Plant them near a streambank and they help keep the creek cool. If you plant fruit or nut trees, they help with your food bill and if you plant flowering trees they offer something beautiful to look at. Be kind to Oregon, though, and plant [native trees](#).

Make sure the fertilizer goes on the lawn and not on sidewalks or in the street. The single greatest source of pollution from lawn fertilizers is the fertilizer that ends up in the street and becomes part of the stormwater runoff.

Leave an unfertilized buffer zone of native vegetation next to the waterway and plant native plants in the buffer zone. You'll have less lawn to mow, keep your topsoil, and waste less fertilizer.



Newberg Library

Photo Credit: Karen Tarnichael, Public Works

Newberg 2010

10 Easy Ways to Conserve Water:

1. Keep a pitcher of water on the counter or in the refrigerator.
2. Turn off the faucet when brushing your teeth.
3. Take shorter showers and use low-flow showerheads.
4. Don't use your toilet as a trashcan.
5. Only wash full loads in the dishwasher and clothes washer.
6. Wear your clothes more than once and use your towels more than once.
7. Water the lawn in the early morning or late evening.
8. Think before you let water go down the drain. Can you use it to water plants?
9. Fix dripping faucets.
10. Stop using the disposal and start composting.

10 Easy Ways to Keep Our Streams Clean:

1. Wash your car at a car wash or on a grassy area.
2. Recycle your used oil and antifreeze.
3. Create a rain garden.
4. Look at the weather forecast before you water your lawn. Is it going to rain soon?
5. Pick up after your pet.
6. Sweep your patio and sidewalks instead of hosing them off.
7. Recycle your yard trimmings; putting them in the ditch makes culverts and catch basins clog and causes flooding.
8. Keep the streets clean of litter and leaves.
9. Use the minimum amount of pesticides and herbicides; use natural products whenever possible.
10. Plant a tree. They reduce stormwater runoff, shade your house, and convert carbon dioxide into oxygen.

10 Easy Ways to be Sustainable:

1. Bring a re-useable bag with you whenever you shop whether it is to get groceries, clothing, or lightbulbs.
2. Use the off switch. Turn off the lights, unplug your electronics, and turn off the faucet.
3. Get financial statements emailed to you and pay bills online.
4. Buy compact fluorescent lightbulbs when you need to replace your incandescent bulbs.
5. Think about your spending habits. Do you really need 50 shirts or a TV in every room?
6. Keep your tires inflated to the proper tire pressure and change the oil regularly.
7. Set your water heater to 120 degrees and wrap it in a water heater blanket.
8. Bring your own mug instead of using the paper cups at the coffee shop. Use a refillable water bottle.
9. Consolidate your trips or choose to carpool, bike, or walk to your destination.
10. Eat local food. Go to the farmer's markets or sign up with a Community Supported Agriculture (CSA) farm.



Francis Square

Photo Credit: Scott Canfield, Public Works

January

Snowmen fall from heaven... unassembled. Anon

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: New efficient dishwashers use 1/3 of the water than older ones. Wash full loads and use the light or economy cycle to conserve water, energy, and time.	Beginning Jan. 1, 2010, it is illegal for consumers and businesses to dispose of computers, monitors and televisions in the garbage or at disposal sites. Oregon has a list of sites at oregon.gov or you can call 1.888.532.9253 to find out where to take your e-waste. The time is always right to do what is right. ~ Martin Luther King, Jr					1 Redwoods Natl Park Established New Year's Day	2
	3	4	5	6	7	8	9
PROTECT: Shovel snow as it falls to minimize your use of de-icers. Use non-toxic types such as cracked corn or sand to keep our streams clear and clean.	10	11	12	13	14 ●	15	16
	17	18 Martin Luther King Jr. Day	19	20	21	22	23
SUSTAIN Pull out your refrigerator and clean the coils on the back and it will use less energy.	24/31	25	26	27	28	29 🌐	30



Fountain at Hayes and Brutscher, Newberg

Photo Credit: Scott Canfield, Public Works

February

A lot of people like snow. I find it to be an unnecessary freezing of water. ~Carl Reiner

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: Wash clothes in cool instead of hot water and save 30% in energy. Use towels and clothes twice before adding them to the laundry to save water, energy and time!		1	2	3	4	5	6
	7	8	Wetlands Day 9	10	11	12	13 ●
PROTECT: Get ready for Spring! Pick up litter that has built up over the winter. Plastic cups, bottles, and bags either end up in the stream or clog storm drains and flood local streets.	14	15	16	17	18	19	20
	Valentine's Day 21	President's Day 22	23	24	25	26	Engineers Day 27
SUSTAIN Got a new cell phone? Donate the old one to a charitable organization to use for 911 calls.	28 ●	<p>Still using your cell phone while driving? Starting in January, the Oregon Legislature made it illegal to use a wireless communication device without a hands-free accessory if you are 18 years or older. If you are under 18 years old, you cannot use <i>any</i> type of mobile communication device including texting.</p> <p>Feb 12-14: Winter Wings Festival, Klamath Falls</p>					
						Denali, Grand Teton, and Grand Canyon Natl Parks Established	



Camellias in Newberg

Photo Credit: Scott Canfield, Public Works

March

Springtime is the land awakening. The March winds are the morning yawn. ~ Lewis Grizzard

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: When planning your vegetable or flower garden, group plants according to their water and light needs to save water this summer.		1	2	3	4	5	6
		Yellowstone Natl Park Established	Mount Rainier National Park Est.				
	7	8	9	10	11	12	13
PROTECT: It's time for spring cleaning! Think about using non-toxic cleaners as you make your to-do list. The fish will appreciate it. Volunteer for the Beach Cleanup on March 20.	14	15 ●	16	17	18	19	20
	Daylight Savings (Spring Ahead)			St Patrick's Day			SOLV's Beach Cleanup Day First Day of Spring
	21	22	23	24	25	22	27
		World Water Day	World Meteorological Day				
SUSTAIN 66% of our trash is food waste. Get a composter at the Newberg Recycling Center and start today!	28	29 ●	30	31	Make your own non-toxic cleaners. There are lots of great recipes on the internet to help you! Mar 3-15: National Wildlife Week Mar 20-27: Whale Watching Week, Oregon Coast		



Hess Creek

Photo Credit: Karen Tarmichael, Public Works

April

Spring - an experience in immortality. ~ Henry D. Thoreau

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: You'll need to water less this summer if you add mulch to plants to moderate soil temperature. Add it a couple inches below ground to increase moisture around the plant roots.	Volunteer on Earth Day! Find a project at Hands on Portland or SOLV Apr 4-10: National Ocean Week Apr 11-17: National Library Week Apr 18-24: National Turn Off the TV Week				1	2	3
	4	5	6	7	8	9	10
	Easter				April Fool's Day	North Pole Discovered	
PROTECT: Use only the fertilizer amount required for your lawn. Extra fertilizer ends up in the streams and creates algae blooms. Better yet, think about xeriscaping and getting rid of the grass.	11	12	13	14 ●	15	16	17
	18	19	20	21	22	23	24
SUSTAIN Help on Earth Day and every day - plant trees, pull ivy, or clean up a stream.	25	26	27	28 🌕	29	30	
					Earth Day	Arbor Day	Astronomy Day



George Fox University

Photo Credit: Karen Tarmichael, Public Works

May

Clouds come floating into my life, no longer to carry rain....but to add color to my sunset sky. ~Rabindranath Tagore

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: We drink only 3% of the water used in our homes. Save water by putting your water in a pitcher in the refrigerator and be sure to drink 6-8 glasses every day.	National Bike Month		Clean Air Month	National Transportation Month			1
	DROP OFF YOUR HOUSEHOLD HAZARDOUS WASTE MAY 15 at the Roundup!						
	May 2-8: Drinking Water Week May 9-15: National Police Week May 17-21: National Bike-to-Work Week May 23-29: National Boating Week						
	2	3	4	5	6	7	8
			Intl Firefighters Day				Migratory Bird Day
PROTECT: Don't dump anything into the storm drain. It won't be treated before it flows into the stream. Collect it for the Household Hazardous Waste Roundups in May and October.	9	10	11	12	13 ●	14	15
	Mother's Day		Glacier Natl Park Established				Household Hazardous Waste Roundup
	16	17	18	19	20	21	22
			Mount St Helens Erupted, 1980			Bike to Work Day	Crater Lake Natl Park Established
SUSTAIN It takes 120,000 gallons of water to make a car and 35 gallons to make a bicycle.	23/30	24/31	25	26	27 🌑	28	29
	30: Memorial Day						



Hess Creek

Photo Credit: Karen Tarmichael, Public Works

June

A perfect summer day is when the sun is shining, the breeze is blowing, the birds are singing, and the lawn mower is broken. ~ James Dent

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: Aerate your lawn and raise the cutting height on your lawnmower to encourage deeper roots and to keep them shaded. You will use less water this summer.			1	2	3	4	5
							National Trails Day
	6	7	8	9	10	11	12 ●
PROTECT: Keep your riparian areas healthy by planting native plants along the streambank. You'll have less erosion and more wildlife.			World Oceans Day				
	13	14	15	16	17	18	19
		Flag Day	World Wind Day				
	20	21	22	23	24	25	26 🌕
SUSTAIN Take a local vacation. Save gas and get to know Oregon!	Father's Day	Summer Solstice		Public Service Day			
	27	28	29	30	National Rivers Month Contact the Yamhill Basin Council to volunteer for habitat restoration projects. Jun 6-12: Great Outdoors Week		
			Olympic Natl Park Established				



Willamette River south of Newberg

Photo Credit: Karen Tarmichael, Public Works

July
In summer, the song sings itself. ~William Carlos Williams

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
SAVE: Water in the morning to prevent slugs and fungus growth. Water early or late in the day to reduce evaporation. Windy days increase evaporation.	Parks & Recreation Month			Smart Irrigation Month		1	2	3
	Newberg’s Old-Fashioned Festival is July 22-25; come and have some fun!							
	Find a farmer's market near you or sign up for a CSA (Community Supported Agriculture) farm for fresh food throughout the year.							
	4	5	6	7	8	9	10	
	Independence Day							
PROTECT: Keep your street clean so trash doesn’t clog the storm drains. Use cloth instead of plastic bags. It costs you money through increased taxes to have them picked up from the streets, storm drains, streams, and beaches.	11 ●	12	13	14	15	16	17	
		Lowest Tide of The Summer						
	18	19	20	21	22	23	24	
SUSTAIN Buy food at your farmer's market and decrease the miles from farm to table.	25 🌙	26	27	28	29	30	31	



Public Works Day, Newberg

Photo Credit: Scott Canfield, Public Works

August

Deep summer is when laziness finds respectability. ~ Sam Keen

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: Does your lawn need water? Step on the grass. If it springs back up, it doesn't need water. If it stays flat, it is time to water.	1	2	3	4	5	6	7
	Hawaii Volcanoes Natl Park Created 8	9 ●	10	11	12	13	14
PROTECT: Washing your car affects local streams. Wash it at a car wash that recycles the water. Or use a bucket, sponge, and a hose that has a shut-off nozzle to minimize your water use.	15	16	17	18	19	20	21
	22	23	24 ●	25	26	27	28
SUSTAIN Got too much produce? Donate it to the local food bank or homeless shelter.	29	30	31	National Water Quality Month National Farmer's Market Month Find out how much to water your lawn at conserveh2o.org Aug 27-29: Oregon Shorebird Festival, Coos Bay			



Tranquil Lane, Newberg

Photo Credit: Scott Canfield, Public Works

September

*By all these lovely tokens September days are here, with summer's best of weather and autumn's best of cheer.
~ Helen Hunt Jackson*

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: Save water while cooking: use a lid to keep steam from escaping, turn down the heat when the pot is boiling, and add only enough water to cover the vegetables until they are done.	National Honey Month			1	2	3	4
	Learn simple steps you can take to keep your environment clean.			Sequoia Natl Park Established			
	Sep 19-26: Pollution Prevention Week			8 ●	9	10	11
PROTECT: Start planning a rain garden for next year. Watch where stormwater naturally flows and research native plants to use in the garden.	5	6	7				
		Labor Day					
	12	13	14	15	16	17	18
SUSTAIN 1 out of 5 cars are taking kids to school; carpool, walk, bike or use the bus instead.	19	20	21	22	23 ●	24	25
				First Day of Fall		Park(ing) Day	
	26	27	28	29	30		Public Lands Day



Photo Credit: Karen Tarmichael, Public Works

October

Autumn is a second spring when every leaf is a flower. ~ Albert Camus

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: 95% of the water in our homes goes down the drain. Shut off the faucet when you brush your teeth. Catch the water from rinsing vegetables and water your plants.	National Community Planning Month Make your home more energy-efficient and get Federal and State tax credits. Oct 3-9 Fire Prevention Week Oct 9-10: Salmon Festival, Gresham Oct 11-17: National Wildlife Refuge Week					1	2
	3	4	5	6	7 ●	8	Change a Light Day
PROTECT: Rake your leaves and keep your storm drains clear. Plant trees and ornamental grasses to catch and slow down stormwater.		World Habitat Day					
	10	11	12	13	14	15	16
		Columbus Day					
	17	18	19	20	21	22 🌕	23
SUSTAIN Change furnace air filters and weatherstrip windows & doors to save energy.	24/31	25	26	27	28	29	30
	24: Climate Change Day 31: Halloween						



Photo Credit: Scott Canfield, Public Works

November

Gratitude is the memory of the heart. ~Jean Baptiste Massieu

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: A leaky faucet will lose 5 gallons per day and a leaky toilet will lose 200 gallons per day. You can lose up to 6,000 gallons and pay an extra \$25/month through leaks.		1	2	3	4	5 ●	6
	7	8	9	10	11	12	13
	End Daylight Savings (Fall Back)				Veteran's Day		
PROTECT: Keep litter out of the stream such as grass clippings, tree branches, leaves, plastic bottles and other trash. They plug the storm drains and cause flooding.	14	15	16	17	18	19	20
		Natl Recycling Day					
	21 ●	22	23	24	25	26	27
SUSTAIN Put LED Christmas lights up this year and save energy.	28	29	30				
				Become a master recycler. Contact Yamhill County Master Recycler Program . Nov 13-20: National Recycling Week Nov 17-18: Leonids Meteor Shower Nov 21-28: National Maintenance Week			



Photo Credit: Karen Tarmichael, Public Works

December

Christmas waves a magic wand over this world, and behold, everything is softer and more beautiful.

~Norman Vincent Peale

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SAVE: If you are heating water in a kettle or pot, please put only the water you need in it. You'll save time, energy, and water!	Have a great Holiday Season!			1	2	3	4
	Dec 26-Jan 1: Whale Watching Week, Oregon Coast						
	5 ●	6	7	8	9	10	11
	Volunteer Day						Intl Mountain Day
PROTECT: Buy a live Christmas tree; they provide shade in the summer and catch rainwater all year long. Donate it to a worthy organization if you don't have room to plant it!	12	13	14	15	16	17	18
			South Pole Discovered (1911)				
	19	20	21 ●	22	23	24	25
			Winter Solstice			Christmas Eve	Christmas Day
SUSTAIN Be creative with gift wrap! Use fabric, comics, or brown paper bags with your own design.	26	27	28	29	30	31	
						New Year's Eve	

Appendix C

C1: YBC Minutes

C2: YBC-Newberg Grant Partnership

C3: YBC Donation Receipt

YAMHILL BASIN COUNCIL MEETING MINUTES

November 13, 2008, Water Reclamation Facility Conference Room, 6:00 - 8:30p.m.

	YBC Members	Organization
P	Anthony, Terry	Student Representative
E	Blaha, Rich	Agriculture
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
E	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of the Grand Ronde
A	Landauer, Skye	Watershed Resident
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
A	Thomson, Tom	Polk Co./SWCD
P	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Small Cities
	Vacant	Student Representative
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
P	Eric Butler	Linfield Student
P	Darey Shell	Watershed Resident
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
P	Ginger Lofftus	Intern

Others Present	
Richard McJunkin	Watershed Resident
Tim Stieber	SWCD

6:00-7:00 pm: Committee Meetings: Fiscal, Habitat, and Water Quality.

Topic	Key Discussion Points	Action/Task/Decision Log	Responsible Persons	Due Date
Introductions and Approval of Minutes	Stan Christensen called the meeting to order at 7:01pm. Council members and other attendees introduced themselves. We had 12 voting members present, (plus 1 voting by proxy), thus a quorum was reached. Brandy noted one spelling correction in the October minutes (“steel” weights).	<i>Leonard made a motion and Dave H. seconded: the corrected Oct. 2008 minutes were adopted by consensus.</i>	Stan	

Committee Reports	<p>Fiscal: Stan handed out copies of the October Fiscal Expense Detail. We are in the black.</p> <p>Habitat: Deer Creek: Contractor completed work on September 30th. It looks good. Gooseneck: Construction will start in the summer.</p> <p>New Grants: Jones/Drabkin Culvert Small Grant was not approved.</p> <p>Water Quality: OWEB Water Quality Monitoring Grant: Field work is done for the season as of Nov. 2nd. After Jan. 1 they will meet with the new manager of the WRF to discuss the next sampling period. DEQ Pesticide Monitoring: Conducted 2 days of sampling in Oct. Kevin Masterson will be here in Dec. to present results. Education: Steve Covey is involved with the Career Pathways Program at MHS. Chemistry students have toured the WRF to learn about the lab. GIS: Ginger will meet with them to discuss their needs and timeline. Safety: A grant for safety equipment is available through the SWCD. Denise and Corissa will make a list and bring it next month for approval. Terry suggested asking for donations just for these items. Patricia mentioned reflector vests and hard hats.</p>	<p><i>Leonard made a motion to approve the expense report. Patricia seconded. The report was approved by consensus.</i></p>	<p>Stan</p> <p>Dave</p> <p>Denise</p>	
Old Business	<p>Model Watershed Letter of Intent: Jean completed the last draft before going to the OWEB Conference. Terry finalized the letter with input from others on the committee and submitted the letter by the deadline of Nov. 7th. We should find out by the next meeting if we made it into the “Top 6” to continue on in the process.</p> <p>Celebrate Our Watersheds” Fundraising Event, Nov. 1: Final numbers are not in yet. The event was attended by about 70 people. Everyone Jean spoke with said they enjoyed the food, music, and silent auction.</p> <p>Wells and Septic Systems Workshop, October 16: The workshop at Amity High School was attended by 15 people. All the evaluations were all positive.</p> <p>Presentation for the Sunrise Rotary Club, McMinnville, October 22: Jean spoke to a group of 30 people about the YBC and what we do. They had some interesting questions about the health of the watershed.</p> <p>OWEB Biennial Conference, Eugene, November 5-7: Jean attended many workshops, talked to lots of people, and got lots of great information to use in the future.</p> <p>Presentation for the Noon Rotary Club, Newberg, November 12: Jean spoke to a group of 50 people about the YBC and what we do, specifically what we hope to work on in Newberg this coming year.</p>		<p>Jean</p>	

New Business	<p>SWCD/YBC Fiscal Policy: Currently YBC employees are on “contract” as SWCD employees since they are our fiscal agent and are managed more by Tim than by the YBC. It would be better to have the YBC manage its own employees and be more involved with them. A memo from SWCD was handed out with a new proposal for the YBC employees to be on contract as “sole proprietors” (similar to “independent contractors”). Memo stated date of Jan. 1, 2009 for the switch. The Council said that’s too soon, and asked Tim to change it to July 1, 2009 since that’s the start of the Fiscal Year. A Council Member would be responsible for signing employee timesheets. Employees would submit invoices to the SWCD to be paid. The YBC will need to write Employee Policies, insurance, Workman’s Comp, taxes, and other details. Stan asked for volunteers to meet with Tim and iron out the details. Committee: Leonard, Mark V., Patricia, Dave H., and Brandy.</p> <p>Work Plan Development: (As people arrived at the meeting, Jean had them use stickers to mark lists of their most important objectives for the next biennium.) Each committee filled in worksheets detailing accomplishments, on-going activities, and planned activities for 2009-2011. We will use this information next month to define the work plan.</p>	<i>Discussion</i>	Stan, Jean	
Public Comment	Ginger reported on the Well Depth Measuring Class she took from Abby Brown, OSU Sea Grant Fellow. Ginger is now trained to measure static well depth on private wells. Tim said the SWCD will purchase an “e-tape” to measure wells if we tell him what kind to get.	<i>Announcements</i>		
Announcements & Upcoming Events	<ul style="list-style-type: none"> November 20: Jean’s Presentation for the Yamhill County Association of Realtors 	<i>Announcements</i>	Jean	
Adjourn	Stan adjourned the meeting at 8:29 pm by consensus.		Stan	

YAMHILL BASIN COUNCIL MEETING MINUTES

December 11, 2008, Water Reclamation Facility Conference Room, 6:00 - 9:00p.m.

	YBC Members	Organization
E	Anthony, Terry	Student Representative
E	Blaha, Rich	Agriculture
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
E	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of the Grand Ronde
A	Landauer, Skye	Watershed Resident
E	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
A	Thomson, Tom	Polk Co./SWCD
P	Vroman, Mark	Hampton Tree Farms
E	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Small Cities
	Vacant	Student Representative
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
P	Eric Butler	Student
P	Darey Shell	Watershed Resident
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
E	Ginger Lofftus	Intern

Others Present	
Ernie Strahm	City of McMinnville (WRF)
Kevin Masterson	DEQ
Koto Kishida	DEQ
Marganne Allen	ODF

6:00-7:00 pm: Committee Meetings: Fiscal, Habitat, and Water Quality.

Topic	Key Discussion Points	Action/Task/Decision Log	Responsible Persons	Due Date
Introductions and Approval of Minutes	Stan Christensen called the meeting to order at 7:10 pm. Council members and other attendees introduced themselves. We had 9 voting members present, plus 2 voting by proxy, thus a quorum was reached.	<i>Leonard made a motion to approve the Nov. minutes. Dave H. seconded. Nov. 2008 minutes were adopted by consensus.</i>	Stan	

<p>Presentation</p>	<p>Speaker: Kevin Masterson, DEQ: Pesticide Monitoring Results</p> <p>The YBC has worked with the Pesticide Stewardship Partnership for the past two years to monitor levels of pesticides entering local streams and rivers by drift or run-off. DEQ identified several streams with elevated pesticide levels, and they are asking for voluntary BMP's to reduce pollution. They hope to do follow-up monitoring over time, and see improvements.</p> <p>We monitored eight sites in 2008. We chose the sites based on agricultural land use, broad geographic range, one mainstem, two urban sites, one near the South Yamhill, and others on different forks of one creek. Most were on sites with right-of-way access, but some were on private property where we received landowner permission to access the sites.</p> <p>In 2007 & 2008, DEQ tested for twelve organophosphate insecticides; six were found in the Yamhill basin (in lower amounts than at other monitoring locations such as on the Clackamas or Pudding Rivers). Only one site, W. Fork Palmer Creek, had all six chemicals present. Drift is the major method of transport in this area. Denise said it only rained about 20% of sampling days, so it wasn't necessarily caused by run-off.</p> <p>Chemicals can break down after 10-20 days into substances that last longer and are equally toxic. DEQ wants to look at the correlation between turbidity and pesticide levels. Decreasing erosion should decrease the pesticide levels in streams.</p> <p>In 2009, DEQ will test for ~100 additional chemicals. They also want to add some forested sites higher in the basin to cover forestry along with urban and agricultural areas that are currently monitored. DEQ is also working with OSU Extension on an "Integrated Pest Management" (IPM) program to work with different commodity groups to try to reduce the use of chemicals. We might also try to add a site to capture vineyard land use.</p>	<p><i>PowerPoint Presentation and Discussion</i></p>	<p>Jean</p>	
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Committee Reports	<p>Fiscal: Stan handed out the Expense Detail for Nov. 2008 and the Fiscal Report as of Nov. 2008. Everything looks fine. We are in the black.</p> <p>Habitat: Deer Creek: Sedges will be transplanted soon.</p> <p>Gooseneck: Plans will be finalized soon so we can start working on permits.</p> <p>Water Quality:</p> <p>Safety Grant: Denise is making a list of items to include in the SWCD grant.</p>	<i>Reports</i>	Stan Dave Denise	
Old Business	<p>BEF Model Watershed Meeting: On Dec. 3rd we met with Todd Reeve and Robert Warren of BEF, and Eric Jones of MMT to discuss our Letter of Intent. We explained the background, partner roles, and ideas for the program. We discussed several sub watersheds which might be possible locations for study. We remain hopeful for a positive result!</p>	<i>Report</i>	Jean	
New Business	<p>New Members: Two “new” people requested Council membership: Darey Shell, Associate Member, and Eric Butler, former Intern. Welcome new members!</p> <p>New Meeting Format: Leonard handed out a memo outlining a proposed new format for meetings: Committee Meetings from 6-7pm, Business Meeting 7-7:15pm, and Public Meeting with a speaker 7:15-8:30pm. Speakers would draw more people to the meetings and be good outreach for the YBC. He also proposed creating a new Executive Committee (EC) to work closely with Jean and oversee day-to-day Council operations. The EC would likely meet before the regular meeting, say 5-6pm. (May need to update Charter and Rules.)</p> <p>Election: New Officer Election. Stan will continue as Council Chair (and thus as EC Chair). Others who volunteered to be on the EC: Darey, Brandy, Patricia, Steve C., Leonard, Dave H., Mark. Tim Stieber, SWCD, will be a non-voting member of the EC.</p> <p>Work Plan: Since the meeting is running over time, Jean will email out the Work Plan Development sheets for Council Members to look over. Please email any additional comments to Jean. The entire January YBC meeting will be devoted to work plan development and the OWEB Council Support Grant Application.</p>	<p><i>Leonard made a motion to approve Darey and Eric as members. Dave H. seconded. Memberships were approved by consensus.</i></p> <p><i>Leonard made a motion to consider creating an Executive Committee. Dave H. seconded. Motion was approved by consensus.</i></p> <p><i>Steve C. nominated Stan to continue as Council Chair and EC Chair. Dave H. seconded. Motion was approved by consensus.</i></p>	Stan, Jean	

New Business (con't)	<p>DEQ/Sheridan: We have an opportunity to do a small restoration project in Sheridan. Please think about possible projects and bring ideas next month. The deadline to apply is Jan. 23rd. Frank Sheridan will be working on it with us.</p> <p>BLM/Panther Creek: I will email out this information since we are out of time for tonight.</p>			
Public Comment	none	<i>Announcements</i>		
Announcements & Upcoming Events	<ul style="list-style-type: none"> ▪ December 12: Volunteer Day to get plants from the BLM Seed Orchard in Colton and plant at Deer Creek County Park and at Miller Woods. We need 4 volunteers. Please sign up with Jean. Thanks! ▪ Dec. 18-31: OWEB Small Grant applications accepted ▪ Dec. 27: Natural Connections Volunteer Work Day at Miller Woods, 9:30am-12:30 ▪ Jan. 10: Natural Connections Volunteer Work Day at Miller Woods, 9:30am-12:30 ▪ Jan. 24: Natural Connections Volunteer Work Day at Miller Woods, 9:30am-12:30 ▪ Jan. 30: OWEB Council Support Grant Application Due 	<i>Announcements</i>	Jean	
Adjourn	Stan adjourned the meeting at 9:00 pm by consensus.		Stan	

YAMHILL BASIN COUNCIL MEETING MINUTES

January 8, 2009, Water Reclamation Facility Conference Room, 6:00 - 9:00p.m.

	YBC Members	Organization
E	Anthony, Terry	Student Representative
A	Blaha, Rich	Agriculture
P	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
E	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of the Grand Ronde
A	Landauer, Skye	Watershed Resident
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
P	Shell, Darey	Watershed Resident
A	Thomson, Tom	Polk Co./SWCD
P	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Small Cities
	Vacant	Student Representative
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
E	Corissa Kunze	WQ Assistant
E	Ginger Lofftus	Intern

Others Present	
Richard McJunkin	Landowner
Frank Sheridan	City of Sheridan

Topic	Key Discussion Points	Action/Task/Decision Log	Responsible Persons	Due Date
Call to Order	Stan Christensen called the meeting to order at 6:10 pm. We had 13 voting members present, plus 1 voting by proxy, thus we exceeded a quorum. We ignored the January agenda, skipped regular committee meetings and introductions, and started directly with the Water Quality Committee discussion with the full council.		Stan	

Water Quality Committee Meeting	<p>Safety Grant: Denise made a list of items to include in the SWCD Safety grant such as first aid kits, antimicrobial soap, hard hats, safety vests, and waterproof wading poles. The current total is \$2207. The grant will pay for half of that amount. YBC will pay the other half. The maximum grant total is \$6000, so we can add more items if we can afford to pay for half. Steve Wegner suggested adding non-bulky PFDs (Personal Floatation Devices) that can be inflated with a gas cartridge in case of an emergency. Other items were also discussed. Denise will add more items for a total grant of up to \$3000 (\$1500 paid by YBC from the Council Support grant).</p> <p>Mapping Software: Denise requested that the YBC purchase a “De Lorme Topo Mapping (Western USA)” software program. She said it's inexpensive (\$50) and easier to use than any of the free on-line mapping tools.</p> <p>Electronics: Denise requested that the YBC purchase a new digital camera and a GPS unit. She will research models and bring a price list to the next meeting.</p>	<p><i>Reports, discussion, and vote</i></p> <p><i>Dave H. made a motion to spend up to \$1500. Leonard seconded. The motion was approved by consensus.</i></p> <p><i>Leonard made a motion to spend up to \$50. Dave H. seconded. The motion was approved by consensus.</i></p>	Denise	
Habitat Committee Meeting	<p>BLM/NFWF Culvert Survey: BLM is writing the full proposal. Jean asked him to make sure that we have enough time allotted to do outreach before the survey crew begins working.</p> <p>BLM/Panther Creek: Jean emailed out information on this research group. No definite plans yet.</p> <p>Gooseneck Project: The Tech Team meeting is Thursday, Jan. 15th to finalize the design plans.</p> <p>Riedman Projects: Dave R. reported that they lost many of their big riparian trees in the winter storms in Dec. Beavers also took many of the alders. He said the more heavily grassed areas survived better than areas with less grass. He suggested seeding other projects more heavily than recommended to avoid erosion.</p> <p>Deer Creek Project: Dave. H. said the whole field is covered with water, and he doesn't think check dams will be necessary. The water appears to be spreading out nicely as we hoped. The County Parks crew planted the sedges from the seed orchard in the ditch along the parking lot since the planned planting site was too wet to access. This is an equally good spot for the plants.</p>		Jean	

Approval of Minutes	Stan asked us to approve the Dec. 2008 minutes.	<i>Leonard made a motion to approve the Dec 2008. minutes. Dave H. seconded. Dec. 2008 minutes were adopted by consensus.</i>	Stan	
Officer Elections	<p>Chair: Stan we re-elected as Chair during the December meeting</p> <p>Vice-Chair: Patricia nominated Leonard for vice-chair. Brandy seconded. The election was approved by consensus.</p> <p>Treasurer: Darey volunteered. Patricia seconded. The election was approved by consensus.</p> <p>Secretary: Jean volunteered to continue doing the minutes.</p>		Stan	
Fiscal Committee Report	Darey handed out the Expense Detail for Dec. 2008. We are in the black. Jean will check on the end date for Deer Creek, and the remaining amounts for the DEQ Pesticide project and the OWEB Water Quality Monitoring project. The new Gooseneck Project will be added to the spreadsheet next month.		Stan & Darey	
Old Business	<p>Sheridan/DEQ Violation SEP Project: Frank Sheridan and Jean explained the history and the project idea to restore the South Yamhill riverbank along Hwy 18 upstream of Bridge Street. Instead of paying the \$3600 fine to DEQ, they can spend the money on a habitat restoration project. The City of Sheridan will put in at least an additional \$1200. The plan is to hire local crews to clear the blackberries and plant native plants on the slope below the new sidewalk and railing in the spring, and spot spray in the fall. They may have to put it out for a bid. Frank will take care of doing that. For the budget, Leonard suggesting writing a planting plan for 50 ft. of riverbank, and then budgeting for as large an area as they can afford to do. Jean will send out a draft to the Council before it is submitted to DEQ.</p> <p>(New Sheridan Park Property: Frank also wanted to mention that the City of Sheridan recently acquired 3600 acres along the South Yamhill River west of Sheridan near Rock Creek. It's currently agricultural open space and trees along the river. They plan to leave it as open space since it's in the floodplain and can't be developed.)</p>	<i>Leonard made a motion to approve working on this project. Dave H. seconded. The project was approved by consensus.</i>	Jean	

New Business	<p>Work Plan: Jean reviewed the vote tally from when we chose our favorite things in the Action Plan. A variety of topics all earned votes, and all these topics are covered in the new Council Support grant in question #31.</p> <p>OWEB Council Support Grant: We went over the grant section by section with Jean asking for input on certain questions. We discussed many edits. Some Council Members will edit certain questions and send them to Jean by Jan. 16th for compiling into a final draft. Jean will send the final draft out to the Council for final approval before submission to OWEB by (or on) Jan. 30th.</p> <p>Newsletter: Our current 2-page limit is not enough. Jean will investigate if we can add more pages to the SWCD newsletter, or go back to solo publishing.</p> <p>New Executive Committee: Leonard explained the purpose and duties of the new committee. Leonard suggested that Jean make big spreadsheets showing timelines for all projects and council activities.</p> <p>OWEB Board Meeting: Wendy Hudson (OWEB) asked Jean to make a short presentation at the meeting on Jan. 21st. Jean will send the PowerPoint presentation to the Council for review beforehand.</p>	<i>Reports and discussion</i>	Jean	
Public Comment	<p>Landfill Issues: Dave Riedman showed us the latest issue of Discover Magazine (Jan. 2009) that has a wonderful article about leaky landfills. He encouraged everyone to read it!</p> <p>Events: Patricia requested that events from other organizations be included on the agenda event list. Jean responded that in trying to keep the agenda to one page, only YBC and partner events are included. Notice of other events is sent out via email.</p>	<i>Announcements</i>	Stan	
Announcements & Upcoming Events	<ul style="list-style-type: none"> ▪ Jan. 10: Natural Connections Volunteer Work Day at Miller Woods, 9:30am-12:30 ▪ Jan. 24: Natural Connections Volunteer Work Day at Miller Woods, 9:30am-12:30 ▪ Jan. 30: OWEB Council Support Grant Application Due ▪ Feb. 12: YBC Meeting ▪ Feb. 12-14: SWCD Native Plant Sale: Volunteers needed! 	<i>Announcements</i>	Jean	
Adjourn	Stan adjourned the meeting at 8:50 pm.		Stan	

YAMHILL BASIN COUNCIL MEETING MINUTES

February 12, 2009, McMinnville Public Library Carnegie Room, 6:00 - 8:40p.m.

	YBC Members	Organization
P	Anthony, Terry	Student Representative
A	Blaha, Rich	Agriculture
P	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
E	Covey, Steve	City of McMinnville
P	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
A	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Landauer, Skye	Watershed Resident
E	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
E	Shell, Darey	Watershed Resident
A	Thomson, Tom	Polk Co./SWCD
E	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Small Cities
	Vacant	Student Representative
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
E	Ginger Lofftus	Intern

Others Present	
John Cassady	Palomar Gas Transmission
Bruce Andrews	agriculture consultant
Kris Bledsoe	watershed resident
Sarah Shipley	watershed resident
Greg Wildhaber	watershed resident
Grace Wildhaber	watershed resident
Richard McJunkin	watershed resident
Waldon Riggs	watershed resident
Neil Lockhart	watershed resident
Sam Sweeny	watershed resident
Dave Cruickshank	watershed resident

Committee Meetings held from 6:05-6:30pm

1.) Call to Order, Introductions, Late Agenda Items, and Approval of Minutes

Comments and Discussion	Stan Christensen called the meeting to order at 6:30 pm. We had 10 voting members present, plus 3 voting by proxy (SC, DR, MV), thus we exceeded a quorum.
Action Item	Larry Fain made a motion to approve the January 2009 minutes. Leonard Rydell seconded. The motion was approved by consensus.

2.) Committee Report: Fiscal

Comments and Discussion	Stan Christensen handed out copies of the “Profit and Loss” statement and the monthly Fiscal Report summary for January 2009. All the numbers still look good. We are in the black.
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3.) Committee Report: Habitat

Comments and Discussion	Jean gave a summary of current projects. Deer Creek County Park: Jean and 3 volunteers planted the sedges at Miller Woods to use as a future seed source at Deer Creek. Riedman Phase 3: Many mature trees were damaged in the winter storms, and beaver took some trees in the riparian area. Gooseneck Creek Restoration: The Technical Team met and made a few suggestions to the engineers. They will finalize the plans soon so we can work on getting the permits. Sheridan DEQ/SEP: The work crew cleared most of the blackberries from the riverbank. There is lots of unstable rip rap. They have asked ODOT for advice on how to proceed. They may not be able to plant the native trees yet. NFWF/BLM Culvert Surveys: BLM submitted the grant. Now we just wait to hear if it was approved.
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4.) Committee Report: Water Quality

Comments and Discussion	Denise discussed the potential new DEQ pesticide monitoring grant. We need to have a planning meeting to discuss logistics. We may need to hire someone to do the field work and volunteer coordination. The OWEB grant is her main priority, and she’s not sure she can do both.
Action Item	a.) Jean will write a job description and send to Denise for comments. b.) Jean will also check with DEQ and OWEB about using the OWEB grant as match for the DEQ grant
Responsible Person and Due Date	a.) Jean by February 20, 2009 b.) Jean by February 20, 2009

Break

5.) Welcome and Introduction

Leonard Rydell and Jean introduced the speaker. Jean also mentioned the SWCD Native Plant sale going on Thursday-Saturday at the SWCD office. Leonard gave an overview of current YBC projects.

6.) Speaker: John Cassady, Land and Environment Lead, Palomar Gas Transmission

Mr. Cassady spoke about the proposed pipeline.

7.) Speaker: Bruce Andrews, Agricultural Consultant to Palomar

Mr. Andrews spoke about the proposed pipeline's agricultural mitigation plan.

8.) Speaker: John Cassady

He made a few more comments.

9.) Questions from the audience

10.) Speaker: Sam Sweeney, local landowner against the pipeline

Mr. Sweeny spoke in opposition to the proposed pipeline.

11.) Speaker: Dave Cruickshank, local landowner against the pipeline

Mr. Cruickshank spoke in opposition to the proposed pipeline.

12.) Questions from the audience

13) Adjourn

Leonard Rydell (Vice-Chair) adjourned the meeting at 8:40pm.

YAMHILL BASIN COUNCIL MEETING MINUTES

March 12, 2009, McMinnville Water Reclamation Facility, 6:00 - 9:00p.m.

	YBC Members	Organization
P	Anthony, Terry	Student Representative
A	Blaha, Rich	Agriculture
P	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
A	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
A	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Landauer, Skye	Watershed Resident
P	McJunkin, Richard	Watershed Resident
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
A	Thomson, Tom	Polk Co./SWCD
A	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Small Cities
	Vacant	Student Representative
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
E	Ginger Lofftus	Intern

Others Present	
Tim Stieber	Yamhill SWCD
Ernie Strahm	WRF Manager
Wayne Lei	PGE
Courtney Ashford	Local resident

Executive Committee Meeting held 5:15-6:10pm
Committee Meetings held from 6:10-6:45pm

1.) Call to Order, Introductions, Late Agenda Items, and Approval of Minutes

Comments and Discussion	Stan Christensen called the meeting to order at 6:45 pm. We had 12 voting members present, thus we exceeded a quorum. We welcomed a new Council Member, Richard McJunkin, Watershed Resident.
Action Item	<i>(I have no notes on if a motion was made to approve the February minutes, if it was voted on, or if consensus was reached.)</i>

2.) Committee Report: Fiscal

Comments and Discussion	Our Treasurer Darey Shell resigned from the YBC today. Stan Christensen handed out copies of the “Profit and Loss” statement and the monthly Fiscal Report summary for February 2009. All the numbers still look good. We are in the black.
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3.) Committee Report: Habitat

Comments and Discussion	No report
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4.) Committee Report: Water Quality

Comments and Discussion	Denise said that Steve Covey will now be doing the agendas for the WQ Committee meetings. He’ll talk with Jean about the OWEB and DEQ projects.
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5.) Council Business: Risk Management Seminar

Comments and Discussion	Leonard reported on the Risk Management Seminar hosted by the Network of Oregon Watershed Councils that he and Jean attended on March 5, 2009. He said it was a good, informative presentation. Jean said that we have Liability, Directors’ and Officers’, and Auto Insurance coverage in the recommended amounts.
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6.) Announcement

Comments and Discussion	Eric announced that Sue Buel School is having an event on April 18, 2009 for Earth Day. He said to contact them about having a booth. Jean reported that she had already talked with the school about it, and that she will ask the new Education and Outreach Committee for assistance in the matter.
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7.) Announcement

Comments and Discussion	Eric announced that he had participated in the EPA webcast on Green Roofs that Jean told us about. He found it very informative. He encouraged others to participate in future EPA webcasts.
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8.) Council Business: Executive Committee Report

Comments and Discussion	Jean announced that the April YBC meeting will be held at the Village Quarter Apartments in downtown McMinnville. Mark Davis of the Housing Authority of Yamhill County will be giving a tour of the building, focusing on the green roof and the rain water collection and recycling systems.
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9.) Council Business: Topics for Speakers at Future Meetings

Comments and Discussion	Council members were asked what speakers and topics they would like at future meetings. A few topics mentioned were seasonal topics, field trip to see projects, rain garden tour, and road side ditches. Jean asked Council members to email her any other topics of interest.
Action Item	All Council Members will email topics to the Coordinator
Responsible Person and Due Date	All Council Members no deadline; ongoing

10.) Council Business: Election of Secretary and Treasurer

Comments and Discussion	Stan asked for nominations for Secretary to take note and write meeting minutes. No one was nominated and no one volunteered. Patricia suggested hiring someone to take minutes.
Action Item	Leonard made a motion to hire someone to take minutes. Steve Covey seconded. The motion was approved by consensus.
Responsible Person and Due Date	Jean will advertise the position. She and Stan will look at resumes, do interviews, and hire someone by May 14, 2009.

11.) Speaker: Wayne Lei, Director of Research and Development, Portland General Electric (PGE)

Comments and Discussion	Presentation on Hess Creek in Newberg and the Potential for Restoration Projects. PGE wants to work on restoring lower reaches of Hess Creek, below the water treatment plant. It's a 2-3 mile section from there down to the Willamette River. PGE is asking for the YBC to help with outreach. PGE will pay for part of the outreach work (up to \$5,000 perhaps), and for part of a corridor study (up to \$25,000 perhaps). Maybe OWHF would pay for some of it, too. Jean showed a GIS map of landownership boundaries along the lower reaches of Hess Creek and Springbrook Creek. There are 25 landowners on the list. Patricia, Leonard, and Terry volunteered to do outreach for this project.
Action Item	Leonard made a motion to proceed with this project. Patricia seconded the motion. <i>(I have no notes on if it was voted on or if consensus was reached.)</i>
Responsible Person and Due Date	

12.) Council Business: New Education and Outreach Committee

Comments and Discussion	Jean said we need to form a committee to be involved with general education and outreach for the YBC. We need two volunteers to help plan and deliver education events.
Action Item	Richard McJunkin and Eric Butler volunteered. (Thank you!)
Responsible Person and Due Date	Jean will regularly send outreach and education information to this new committee.

13.) Council Business: Member Time Tracking

Comments and Discussion	<p>Jean explained that this information is very important since it is used as match for the OWEB Council Support grant. It must accurately reflect the efforts of the Council Members. If Jean reports only the time Council Members spend at YBC meetings, we would not reach the match amount listed on the Council Support grant application. For example, the 07-09 CS grant budget stated 1200 hours of Council Member time for match. Time reported on Time Tracking sheets so far = 912 hours. But if we only counted YBC meeting time so far = 532 hours. Thus you can see that it is important for all Council Members to complete their Time Tracking sheets and submit them to the Coordinator.</p> <p>Jean emailed out Time Tracking spreadsheet templates for you to fill in. Quarters 1 and 2 spreadsheets were emailed out on Dec. 12, 2008. Only 9 out of 19 Council Members completed and returned forms for Quarter 1. Only 5 out of 19 Council Members completed and returned forms for Quarter 2. Quarter 3 spreadsheets are due April 15, 2009.</p>
Action Item	All Council Members will complete their time tracking forms and turn them in by April 15, 2009.
Responsible Person and Due Date	All Council Members will complete their time tracking forms and turn them in by April 15, 2009.

14.) Council Business: Project Timelines

Comments and Discussion	Jean made handouts of the Project Timelines showing what needs to be accomplished on each project before the end of the 2008-2009 Fiscal Year on June 30, 2009.
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15.) Council Business: YWSF Update

Comments and Discussion	Patricia said the YWSF started another group called the Yamhill Lands Partnership. She explained the group. Leonard said he supports the group because they will do conservation easements. They are also working to preserve lands.
Action Item	Jean will forward the document from Patricia explaining the Yamhill Lands Partnership.
Responsible Person and Due Date	Jean will forward the document from Patricia explaining the Yamhill Lands Partnership.

16.) Council Business: YWSF grant application to MMT

Comments and Discussion	Patricia explained that the YWSF is applying for a grant from the Meyer Memorial Trust for planning to share resources for non-profit groups in Yamhill County. The application must be submitted to MMT by March 20, 2009, so Jean needs to complete the YBC's part of the application before that.
Action Item	Steve Covey made a motion to join them on the grant application. Steve Wegner seconded. <i>(I have no notes on if it was voted on or if consensus was reached.)</i>
Responsible Person and Due Date	Jean will complete the YBC's part of the application before March 20, 2009.

17.) Council Business: Annual Fundraiser

Comments and Discussion	Stan asked Patricia why the YWSF hasn't paid the YBC their portion of the proceeds from the November fundraising event yet. Patricia told Stan to talk to the YWSF Treasurer. Much discussion followed. Stan asked them to send their financial statements from the fundraiser so we can determine the amount due. Steve Covey said that due to the current recession we should consider not having a fundraising event this fall.
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18.) Council Business: Action Items

Comments and Discussion	Brandy requested that “Action Items” be sent out within a week of Council meetings to make sure that everyone knows their tasks and deadlines. She also requested that follow-up for “Action Items” be included on the YBC meeting agendas in the future.
Action Item	Jean will send out the Action Items as soon as possible after every monthly Council meeting.
Responsible Person and Due Date	Jean will send out the Action Items as soon as possible after every monthly Council meeting.

19.) Adjourn

Steve Covey made a motion to adjourn the meeting. Leonard seconded.

Stan adjourned the meeting at 9:00pm.

YAMHILL BASIN COUNCIL MEETING MINUTES

April 9, 2009, Village Quarter Apartments Meeting Room, 6:00 - 8:30p.m.

	YBC Members	Organization
P	Anthony, Terry	Student Representative
P	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
A	Fain, Larry	City of Newberg
A	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
E	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Landauer, Skye	Watershed Resident
P	McJunkin, Richard	Watershed Resident
P	Mustain, Alan	City of Dundee
P	Reynolds, Doug	City of Newberg
E	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co./SWCD
E	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Vacant	Watershed Resident
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
P	Ginger Lofftus	Intern

Others Present	
Mark Davis	Housing Authority of Yamhill County
Annette Frank	City of Dayton
Courtney Ashford	Watershed Resident
Tim Stieber	Yamhill SWCD
Josie Reid	Yamhill SWCD
Jim LeTourneux	Yamhill SWCD

Executive Committee Meeting: 5:20-6:10pm

Tour and Presentations: 6:10-6:55pm

1.) Tour of Village Quarter Apartments by Mark Davis of the Housing Authority of Yamhill County to see “green” features including green roof and rain water collection and re-use system.

2.) Speaker: Mark Davis, Housing Authority of Yamhill County

Mark discussed the “green” features of the building--the green roof and rain water collection and re-use system. He also talked about the building codes and the construction.

3.) Speaker: Doug Reynolds, City of Newberg Environmental Specialist

Doug defined and explained the purposes of rain gardens. He discussed site selection, soils, and vegetation.

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4.) Call to Order, Introductions, Late Agenda Items, and Approval of Minutes

Comments and Discussion	Stan Christensen called the meeting to order at 7:15 pm. We had 13 voting members present, plus 3 voting by proxy (DH, DR, and MV) thus we exceeded a quorum. We welcomed new Council Members: Alan Mustain, Doug Reynolds, and Bruce Sigloh. Brandy mentioned that the items on the March minutes were numbered incorrectly.
Action Item	Leonard made a motion to approve the March 2009 minutes as corrected. Steve Wegner seconded. March 2009 minutes as corrected were adopted by consensus.

5.) Council Business: Executive Committee Report

Comments and Discussion	Fundraising through our non-profit group, the YWFS, is being discussed by the Executive Committee. More work needs to be done on this issue. We will make sure everyone on the Council understands the issue.
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6.) Council Business: Board Training by NOWC

Comments and Discussion	Jean provided handouts on the basic responsibilities of Council Members from the training session for those people who did not attend.
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7.) Council Business: Annual Budget for 2009-2010

Comments and Discussion	Jean said we can't approve the Annual Budget for 2009-2010 until the OWEB Council Support grant is approved. We will table this item until then. (June?)
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8.) Council Business: Master Watershed Steward Program

Comments and Discussion	Jean reminded the Council that the OSU Master Watershed Steward program begins on April 17-18, 2009. A reporter from the McMinnville News-Register interviewed Jean about the program. A nice article was in the paper on Saturday, April 4, 2009, along with a photo of the river on the cover of the "Homes" section.
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9.) Council Business: Education and Outreach Events

Comments and Discussion	Jean asked for volunteers to work at a YBC booth for “Nature Day,” Saturday, April 18, 2009 at Sue Buel School in McMinnville from 10am-12 noon. Jean also requested help with a booth for an Earth Day event in Willamina on Saturday, April 25, 2009.
Action Item	Eric Butler volunteered to work in the booth on April 18, 2009.
Responsible Person and Due Date	Eric Butler will work at the YBC booth at the event on April 18, 2009.

10.) Committee Meetings: Fiscal, Habitat, and Water Quality**11.) Announcements and Upcoming Events:**

- April 17 -18: Master Watershed Steward Workshops
- April 18: Sue Buel School Nature Day booth, 10am-2pm
- April 25: Willamina Earth Day booth, 10am-2pm
- SWCD Woodland Tour: May 13 and 14, 2009
- YBC Meeting: May 14, 2009

12.) Adjourn

Leonard made a motion to adjourn the meeting. Brandy seconded.
Stan adjourned the meeting at 8:30pm.

YAMHILL BASIN COUNCIL MEETING MINUTES

May 14, 2009, McMinnville Water Reclamation Facility Conference Room, 6:00 - 8:30pm

	YBC Members	Organization
P	Anthony, Terry	Student Representative
P	Ashford, Courtney	Watershed Resident
P	Bledsoe, Kris	Watershed Resident
P	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
A	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
A	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Landauer, Skye	Watershed Resident
P	McJunkin, Richard	Watershed Resident
A	Mustain, Alan	City of Dundee
P	Reynolds, Doug	City of Newberg
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Assoc.
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co./SWCD
P	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinn. Water & Light

P= Present, A=Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Vacant	Watershed Resident
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
A	Ginger Lofftus	Intern

Others Present	
Marita Somerville	Family Matters LLC
Tim Stieber	Yamhill SWCD

Habitat and Water Quality Committee Meetings held from 6:00-7:00pm

1.) Call to Order, Introductions, Late Agenda Items, and Approval of Minutes

Comments and Discussion	Stan Christensen called the meeting to order at 7:01 pm. We had 17 voting members present, thus we exceeded a quorum.
Action Item	Leonard Rydell moved to approve last month's minutes with the correction of the spelling of Jim LeTourneau's name. Dave Hanson seconded the motion. The April minutes were approved by consensus.

2.) Executive Committee Report

Comments and Discussion	<ul style="list-style-type: none">▪ Leonard reviewed our insurance issues. Two insurance policies are due next week. We recommend that we renew only the “General Liability” policy for \$1052. We do not have the funds to renew the “Directors and Officers” policy.▪ OWEB Council Support funding for 2009-2011 is uncertain.▪ The SWCD/YBC MOU is being updated. Tim said that Council Members need to take a more active role in running the YBC.▪ We need to develop an annual work plan.
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3.) Presentation on Ground Water by Richard McJunkin, Hydrogeologist

Stan Christensen and Jean introduced the speaker Richard McJunkin. Richard gave an interesting presentation on groundwater and subsurface flow.

4.) Discussion and Questions

- The YBC might have the opportunity in the future to monitor groundwater by studying water quality from wells.
- Dave Riedman mentioned that he has two wells on his property. One well is sweet, but the other is salty. Richard said that many wells in this area are salty.

5.) Fiscal Committee Report

Comments and Discussion	Stan reported that OWEB will let us know the amount of our Council Support grant on June 4, 2009. We may hold a special council meeting to discuss budget cuts, if necessary.
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6.) Habitat Committee Report

Comments and Discussion	<p>Deer Creek County Park: Dave Hanson led a field trip there on May 9, 2009 for the Native Plant Society. The ground is wetter than usual. The grading work done last fall is working wonderfully to spread out and hold the water. We will need to spray for weeds once it's dry enough, and once more in September or October. We plan to use a no-till drill to plant tufted hair grass in October.</p> <p>Riedman Phase 3: Dave Riedman has this project under control.</p> <p>Gooseneck Creek Restoration: We are waiting for bids from contractors.</p> <p>Sheridan DEQ/SEP: The City of Sheridan is still working on cleaning up the riverbank.</p> <p>NFWF/BLM Culvert Surveys: We are still waiting to hear back from BLM.</p> <p>Beaver Creek Culverts: We need to do a culvert inventory to know which culverts are “high priority” for replacement.</p> <p>BLM Title II Funds: We are still waiting to hear back on this grant.</p> <p>Hess Creek Outreach: PGE wants to provide money to the YBC to do outreach for Hess Creek. Jean said she had spoken to Wayne Lei and he said to request a donation, not a grant. (The simpler the better; PGE doesn't want the details.) Patricia suggested that we form a committee to draft a letter.</p>
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7.) Water Quality Committee Report

Comments and Discussion	OWEB grant: Corissa passed around a sign up sheet for volunteers for the OWEB project. The field work for this grant ends this fall. DEQ Grant: The DEQ Pesticide Project is going smoothly. Future Projects: We are considering a new project to monitor water quality on the mainstem of the South Yamhill River upstream and downstream of the landfill. An OWEB grant application would be due in October. The Committee will work over the summer to decide what projects we should work on and what grants we should apply for. Ginger will have a GIS map at the next YBC meeting showing past and present water quality monitoring locations. Kris mentioned the possibility of working with an employee of Yamhill County on water quality monitoring.
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8.) Council Business: Support for the Network of Oregon Watershed Council

Comments and Discussion	Jean said the YBC received a letter from the Network of Oregon Watershed Councils asking for councils to contribute \$100-\$1,000 to support the NOWC. They provide training and support for watershed council boards and staff, so we should support them.
Action Item	Dave Riedman made a motion to donate \$100 to Network of Oregon Watershed Councils. Steve Wegner seconded the motion. The motion was approved by consensus.

9.) Council Business: Insurance

Comments and Discussion	We have two insurance policies due next week. The Executive Committee recommended that we renew only the “General Liability” policy for \$1052 since we do not have the funds to also renew the “Directors and Officers” policy. There is enough money remaining in the grant to pay ~\$900. The remainder must come out of our “Local and Other” funds.
Action Item	Leonard made a motion to renew the “General Liability” policy and use “Local and Other” funds to pay the remainder. Dave Hanson seconded the motion. The motion was approved by consensus.

10.) Public Comment:

Comments and Discussion	<ul style="list-style-type: none">• Dave Hanson said that we should have county representation at our meetings, but that no representatives from either Yamhill or Polk County come to the meetings. Kris Bledsoe said she would ask Kathy George to appoint Mike Brandt, the Water Quality person, to be the Yamhill County Representative to the YBC.• Kris Bledsoe said that the Water Quantity Committee of Yamhill County only discusses municipal water supplies. Stan said that the Governor’s office may request to have a representative from the Yamhill SWCD or YBC on the Water Quantity Committee.• Leonard Rydell discussed the YWSF. They had an attorney look over the Bylaws, Articles of Incorporation, and other documents. It was determined that: 1) The YWSF is a membership organization, 2) The original bylaws are still in effect, and 3) The original Board of Directors is still valid. The YWSF plans to hold a Special Meeting during the next YBC meeting on June 11, 2009. Stan said that we need an MOU between the YBC and the YWSF, and requested that the YWSF prepare a complete financial statement for the YBC. Patricia Farrell said they will have it done by the June YBC meeting. Leonard said he would send many documents to Council Members to prepare for the YWSF Special Meeting.
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11.) Announcements and upcoming events:

Comments and Discussion	<ul style="list-style-type: none">▪ Noxious Weed Meeting: May 20, 2009 from 10 am -12 noon at the OSU Extension auditorium.▪ Polk Outdoor School: May 29, 2009▪ Deer Creek Park Tour: May 30, 2009 at 1:30 pm at the park▪ Next YBC Meeting: June 11, 2009. Speaker: Greg Apke, ODFW Fish Passage Coordinator.
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12.) Adjourn

Stan made a motion to adjourn. Dave seconded. The meeting was adjourned at 8:40 pm by consensus.

YAMHILL BASIN COUNCIL MEETING MINUTES

June 11, 2009, McMinnville Water Reclamation Facility Conference Room
Habitat and Water Quality Committee Meetings 6:00-7:00pm
Business Meeting 7:00-9:00pm

	YBC Members	Organization
A	Anthony, Terry	Student Representative
P	Ashford, Courtney	Watershed Resident
P	Bledsoe, Kris	Watershed Resident
A	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
P	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
P	Frank, Annette	Watershed Resident
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Landauer, Skye	Watershed Resident
P	McJunkin, Richard	Watershed Resident
A	Mustain, Alan	City of Dundee
E	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Association
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co. / SWCD
P	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
P	Ginger Lofftus	Intern

Others Present	
Jeff Goebel	Goebel and Associates
Marita Somerville	Family Matters LLC
Tim Stieber	Yamhill SWCD
Jim LeTourneau	Triple Tree Farms
Walt Gowell	Attorney

1.) Call to Order, Introductions, Late Agenda Items, and Approval of Minutes

Comments and Discussion	Stan Christensen called the meeting to order at 7:04 pm. Stan also introduced Jeff Goebel, the facilitator for the workshops, and gave Jeff's background. We had 14 voting members present, thus we exceeded a quorum.
Action Item	Patricia Farrell moved to approve last month's minutes with the correction of the typo "YWSF annual meeting" to "a special meeting for the YWSF". Dave H. seconded. The June minutes were approved by consensus.

2.) Fiscal Committee Report

Comments & Discussion: There were no questions on the Fiscal Report as of the end of May 2009.

3.) Habitat Committee Report

Comments & Discussion: Gooseneck: We have received two permits for the Gooseneck project. We are still waiting for the federal permit from the Army Corps of Engineers. We were approved for the BLM / RAC Funds. Steve Wegner is working on the agreement between the BLM and the SWCD to get the funds. We have been going through the bids from contractors. Jean will call references for the top three bidders: Bateman Forest Management, Watershed Works, and C+B Construction.

4.) Water Quality Committee Report

Comments & Discussion: We have distributed a survey for everyone to fill out to help determine the direction of the Water Quality Committee. Denise will re-send the survey to make sure everyone received a copy, and we will discuss the survey results in July.

The first month of OWEB sampling (deploying temperature loggers) was completed on Memorial Day. To follow up on the Palmer Creek problem, ODA visited the site upstream that was causing the turbidity to be over 2000.

Ginger has been working on a water quality map of all the basic site locations for the YBC, ODA, DEQ, etc. monitoring. Steve Wegner informed us that BLM is putting out 10-20 temperature loggers in the Yamhill Basin. Terry Anthony has installed two temperature loggers on Dopp Creek and two on Chehalem Creek.

5.) Council Facilitation: Stan explained that the YBC felt it was necessary to hire a facilitator to settle conflicts within the YBC, and he explained the reason why the money was spent. Jeff Goebel told us the dates and times for the workshops: June 24, 25, from 1-8pm and June 26 from 9am-4:30pm. Jeff explained the format of the workshops. He said that people who have day jobs can drop in whenever they are available, but the more time you can spend in the workshops, the better.

6.) Annual Work Plan

Comments and Discussion: The Annual Work Plan was distributed with the instruction for YBC members to each fill out the amount of time that they are willing to spend working on each item. Stan read through the objectives of the Annual Work Plan and said that this is a way to track time and volunteer hours used on different objectives, and will allow us to plan for future projects. We can add new tasks to the Work Plan as necessary. Jean will e-mail out the Annual Work Plan to be approved by email vote. It must be approved before next month.

7.) Budget: Jean will e-mail out a Balanced Budget to be approved by email vote. It must be approved before next month. The Coordinator receives funding through various grants. A few small grants are needed to meet the goal for next year.

8.) MOU:

Comments and Discussion	The MOU between the Yamhill Soil and Water Conservation District and the Yamhill Basin Council needs to be updated from last year. Many changes were discussed.
Action Item	Steve Covey moved to approve the MOU between the YSWCD and the YBC with the suggested changes. Leonard seconded. The motion was approved by consensus.

9.) The YWSF Special Meeting:

Comments and Discussion	The Special Meeting for the YWSF was called to order. Patricia Farrell introduced Walt Gowell, an attorney, and gave a history of the formation and development of YWSF. Discussion followed with guidance from Walt about the difference between a “member” vs. “non-member” organization.
Action Item	Leonard moved to approve the new YWSF By-Laws which makes the YWSF a “non-member” organization. The motion passed 11-1. The YWSF then wrote a check to the YBC for \$7,733.32 to settle old fundraising debts.

10.) Council Member Comments:

Comments and Discussion	Kris Bledsoe recently joined the YBC. She already feels it is generally an ineffective organization because we never take a stand on any environmental issues. She suggested we start from scratch and restructure the organization.
Action Item	Courtney Ashford motioned to form a committee to re-write the Charter and Rules for the YBC to make it more effective in the community. Dave H. seconded. Discussion followed. The motion passed by consensus.

11.) Meeting was adjourned at 9:04.
The Next YBC meeting is July 9, 2009

YAMHILL BASIN COUNCIL MEETING MINUTES

July 09, 2009, McMinnville Water Reclamation Facility Conference Room
Habitat and Water Quality Committee Meetings 6:00-7:00pm
Business Meeting 7:00-9:00pm

	YBC Members	Organization
P	Anthony, Terry	Student Representative
E	Ashford, Courtney	Watershed Resident
P	Bledsoe, Kris	Watershed Resident
A	Butler, Eric	Student
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
P	Fain, Larry	City of Newberg
P	Farrell, Patricia	YWSF
P	Frank, Annette	Watershed Resident
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Heath, Mike	Stimson Lumber
E	Humphreys, Brandy	Confederated Tribes of Grand Ronde
P	McJunkin, Richard	Watershed Resident
A	Mustain, Alan	City of Dundee
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Association
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co. / SWCD
P	Vroman, Mark	Hampton Tree Farms
E	Wegner, Steve	BLM
P	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
P	Ginger Lofftus	Intern

Others Present	

1.) Call to Order, Late Agenda Items, and Approval of Minutes:

Comments and Discussion	Stan Christensen called the meeting to order at 6:55 pm. Stan added one late agenda item: a new intern. We had 14 voting members present (and 2 members voting by proxy) thus we exceeded a quorum.
Action Item	Patricia mentioned that the amount of the check from the YWSF needed to be corrected in Item 9 of the June 2009 minutes. Steve Covey moved to approve last month's minutes with the correction. Larry Fain seconded. The June 2009 minutes were approved by consensus.

2.) Introductions:

Council Members were asked to introduce themselves with Name and Representation, and then answer two questions: "What is the interest of your group as a stakeholder in the Yamhill Basin?", and "How do you feel about being here right now?" (This followed the format of the facilitated workshops last month.) Everyone was given the opportunity to speak.

3.) Greeting Circle:

Dave Riedman explained this exercise that we learned during the facilitated workshops last month. Everyone had the opportunity to shake hands and greet others around the circle twice.

4.) Council Facilitation Workshop Summary:

Remarks:

- The facilitated workshops last month were very helpful. We should incorporate all that we learned to improve the way the Council functions.
- The "string exercise" was helpful to realize that we all have relationships within and outside of the group that affect the way the group works.
- It showed how much energy can be wasted unnecessarily.
- First impressions aren't always correct. We need to listen or read more carefully to have a better understanding.
- Everyone should get a chance to speak once before anyone speaks a second time.
- The Greeting Circle was impressive.
- Don't shy away from conflict. Use it as a springboard for discussion.
- Participants took turns acting as either the "facilitator" or the "recorder".
- The "facilitator" guides the discussion; the "recorder" writes accurately word-for-word what the speaker said.
- We will try to use this format at all our meetings in the future.

5.) Fiscal Committee Report:

There were no questions on the Fiscal Report as of the end of June 2009.

6.) Habitat Committee Report:

Gooseneck: We have received two permits for the Gooseneck project. We are still waiting for the federal permit from the Army Corps of Engineers. We were approved for the BLM / RAC Funds. Steve Wegner is working on the agreement

between the BLM and the SWCD to get the funds. The construction contract was awarded to Bateman Forest Management of Monroe, OR.

Deer Creek Park: Rich Owens' company sprayed ~12 acres of the site for grasses and broadleaf weeds on June 23, 2009. Dave Hanson was on site to show him where to avoid spraying to protect some plants.

Riedman Phase 3: Dave will spot-spray more herbicides in August to kill weeds. He'll have the contractor cut and remove more invasive weeds in September.

Sheridan Riverbank: Work crews removed more brush in June. Crews will remove more blackberries in the fall and apply herbicides to the stems. They will plant native plants in the fall or in the spring.

7.) Water Quality Committee Report:

Terry put out four temperature loggers in Chehalem Creek. City of Newberg is providing match funding. Yamhill River TMDL meetings are coming soon. The committee is still seeking responses to the survey about the future direction of water quality monitoring. Much discussion about what to do for next season, and the possibility of writing a new WQ grant. Ask DEQ and OWEB for suggestions. Plan a special meeting before the next YBC meeting to plan for the next WQ grant.

OWEB WQ Grant: Denise said they just did the second month of sampling.

8.) New AmeriCorps/LINKS Intern:

Comments and Discussion	Stan explained that we have to opportunity to get another intern from AmeriCorps/LINKS this year. We would like someone to do Education and Outreach Activities. The cost is \$300. The intern would do 300 hours of work. AmeriCorps/LINKS would pay the intern a stipend of \$1,500 at the end of the term of service.
Action Item	Leonard moved to get a new AmeriCorps/LINKS intern. Dave R. seconded. The motion was approved by consensus.

9.) Annual Work Plan: It was approved in June by an email vote (7 Yes: 4 No). Council members should still send in the hours they intend to work on certain items. This will be added to the spreadsheet.

10.) Annual Budget: The original balanced budget was approved in June by an email vote (12 Yes: 4 No). Stan read a list of updates since June 30 which was just emailed out to the Council. Next year the Fiscal Committee will start working on it in February or March.

11.) Well Water Measuring Program: Stan said that the Yamhill SWCD received a grant to hire a program coordinator to set up the well monitoring. We have several people who took the volunteer training program through the Oregon Water Resources Department (OWRD) to help measure static well depth. Jean explained that we plan to start with just wells owned by YBC Members, SWCD Board Members, and the people who attended either the YBC wells workshops last year or the OWRD training sessions. The program will expand in future years to hopefully include wells in the groundwater-limited areas. Richard explained the reason for measuring well depth.

12.) Restructuring: Today we incorporated some of the things we learned at the facilitated workshops. We will continue to make changes one step at a time to improve the way the Council functions. At upcoming meetings, the whole Council will discuss restructuring options or re-writing the “Charter and Rules” to define individual roles and responsibilities and to clarify the goals of the YBC. Dave R. suggested people attend a seminar “Re-Charting the Organization” on October 12, 2009 offered at The National Land Conservation Conference in Portland October 11-14, 2009.

13.) Council Member Comments:

Leonard gave a summary of a meeting he attended yesterday to discuss low-impact development and stormwater management. He also mentioned the “Salmon in the City” event. He also suggested a regularly scheduled workshop every month to get more public involvement. Charge \$10 and have sandwiches for lunch.

Kris said she went to a Town Hall meeting last night. The Attorney General’s office now has the means to prosecute polluters as a criminal offense.

Annette said Dayton will be having a workshop on Low-Impact Development and water quality next month. She will email out the information.

14.) Adjourn

Annette moved to adjourn the meeting. Dave H. seconded. The motion was approved by consensus since everyone got up to leave.

Stan thus adjourned the meeting at 8:45pm.

The next YBC meeting is August 13, 2009.

YAMHILL BASIN COUNCIL MEETING MINUTES

August 13, 2009, McMinnville Water Reclamation Facility Conference Room
Habitat and Water Quality Committee Meetings 6:00-7:00pm
Business Meeting 7:00-9:00pm

	YBC Members	Organization
P	Anthony, Terry	Student Representative
P	Bledsoe, Kris	Watershed Resident
P	Christensen, Stan	Yamhill SWCD
P	Covey, Steve	City of McMinnville
P	Fain, Larry	City of Newberg
P	Frank, Annette	Watershed Resident
A	George, Kathy	Yamhill County
A	Hanson, Dave	NPSO –Cheahmill Chapter
A	Heath, Mike	Stimson Lumber
E	Humphreys, Brandy	Confederated Tribes of Grand Ronde
P	Johnson, Sonja	City of Newberg
P	McJunkin, Richard	Watershed Resident
A	Mustain, Alan	City of Dundee
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Association
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co. / SWCD
A	Vroman, Mark	Hampton Tree Farms
E	Wegner, Steve	BLM
P	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant
P	Ginger Lofftus	Intern

Others Present	
Greg Apke	ODFW
Tresa Apke	
Morgan Apke	
Tim Stieber	YSWCD

1.) Call to Order, Introductions, and Late Agenda Items

Stan Christensen called the meeting to order at 7:00 pm. We had 12 voting members present, thus we exceeded a quorum. Late agenda items: Well-depth measuring, and BEF grant application.

2.) Speaker: Greg Apke, ODFW Fish Passage Coordinator

Greg gave a great presentation on fish passage and its importance to the health of the watershed. A few notes:

Juvenile salmon need cool water temperatures to survive. Juvenile coho stay in fresh water for one year prior to their migration to the ocean. Generally, juvenile chinook migrate out to the ocean during their first year. Adult salmonids return to their natal streams in the fall when the water is cooler and flows are higher. Good instream fish habitat provides food sources, rearing opportunities, and shelter from predators. Juvenile fish typically prefer quiet water to migrate upstream. Juvenile trout and salmon generally swim at approximately 2 ft/second. Water velocities greater than 2 ft/second can be problematic for these fish that need to migrate. Adult salmonids generally need a minimum of 12" water depth to migrate. When fish ladders are designed, a 12" minimum water depth is typically a design standard for adult upstream migration and a 6" minimum for juveniles.

The expanding human population continues to put increasing demands and pressures on fish and wildlife and their habitat. The majority of fish passage problems in the Yamhill basin occur at roads and dams. Many road stream crossing culverts are too small in diameter and do not provide the appropriate flow conditions and often preclude upstream fish passage. Such culverts should be removed or replaced with larger diameter culverts or a bridge crossing that simulates or mimics the natural stream channel conditions, which provides fish passage. These natural stream channel conditions generally include mimicking the stream's active channel width, slope, streambed composition, and streambed stability.

The Oregon Territorial Constitution of 1848 (Section 12) required fish passage be provided and maintained. Repairing old structures and dams that presently impede fish passage requires compliance with the new fish passage rules, which were adopted into Oregon Law in 2001 (*Oregon Revised Statutes 509.580 – 509.645*). Fish passage is required at flows within the design streamflow range which is between the base flow (95% exceedance flows) and High Water flow (5% exceedance flows).

ODFW is currently working on developing culvert inventories, assessments, and priority rankings for replacement of artificial obstructions to fish passage. They have a cost-share program to replace priority culverts where ODFW pays 60%, owner pays 40%.

For more information on Oregon's Fish Passage Laws, or the ODFW Cost-Share Program, please see the ODFW Fish Passage Program internet site at: [ODFW Fish Passage](#) or contact Greg Apke, the ODFW Statewide Fish Passage Program Coordinator at 503-947-6228.

3.) Water Quality Committee Report

Comments & Discussion: Terry reviewed current projects. We may apply for a new OWEB grant to do WQ monitoring on the South Yamhill River. We hope to get another grant from DEQ to continue with the pesticide monitoring. We'd like to do education programs about pesticides. There are also opportunities to work on TMDL compliance in the future. Denise and Corissa are doing E. coli sampling starting August 24 and 25, and continuing every Monday and Tuesday for five weeks in a row. They need volunteers to help. Council members are encouraged to sign up.

4.) Habitat Committee Report

Comments & Discussion: Dave R. reviewed current projects. **Deer Creek:** We had a good kill of weeds and other plants after spraying the site with herbicides. **Gooseneck:** We are still waiting for the federal permit from the Army Corps of Engineers, but it should be here next week. We were approved for the BLM / Title II Funds. We have permission to spend this grant, and we expect BLM will send us the grant agreement soon. The construction may begin as soon as August 24, 2009. **Future projects:** The Yamhill County Road Dept. has requested our help with a habitat project on Deer Creek. We might try to package it with some culvert replacement projects on Beaver Creek, a tributary of Deer Creek. **Outreach:** Dave suggested to his neighbor not to put her burn pile in the flood plain. She listened to him and hauled it to the dump instead.

5.) Fiscal Committee Report

Comments & Discussion: There were no comments on the Fiscal Report as of the end of July 2009.

6.) Approval of Minutes

Action Item	Annette moved to approve last month's minutes. Steve C. seconded. The July minutes were approved by consensus.
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7.): Insurance

Comments and Discussion: Jean reported that we received a bill for renewing our property and auto insurance package. We need this coverage for our business property and for autos since we have so many volunteers involved in water quality monitoring.

Action Item	Larry moved to approve spending \$382.08 from “Local and Other” funds to pay for Property and Auto insurance. Annette seconded. The expenditure was approved by consensus.
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8.)New Water Quality Monitoring grant possibilities

Comments and Discussion:

Terry, Denise, and Jean commented on some ideas for new grants. One suggestion is to do WQ monitoring on the mainstem of the South Yamhill River just downstream from major tributaries, or at the lower end of the major tributaries themselves.

DEQ may give us another grant to continue with pesticide monitoring.

9.)Well Depth Monitoring

Comments and Discussion: Tim Stieber, Yamhill SWCD, reported that they now have the equipment to do well depth measuring. They will hire someone part time to lead the program and to work with volunteers to help. We need to find certain landowners who have easily accessible wells. Please sign up with Jean if you are interested. We will start small and expand the program in the future.

10.)BEF Model Watershed

Comments and Discussion: Jean has been researching the BEF grant process. She has talked with BEF and several potential partners to determine what our best option might be. She commented that the opportunity to work with the Tualatin WC did not materialize, so our best remaining option is to work with the other most successful conservation organizations in the Yamhill watershed: the Yamhill SWCD and the Natural Resources Conservation Service. They are very interested in working with us. Tim Stieber, Yamhill SWCD, talked about what each of our organizations brings to the partnership. He wrote a “Conservation Progress Report” showing how successful we’ve each been. We could bring in other partners later, but the three of us would be a good core partnership. Tim also commented that the YSWCD and the NRCS just received a “Pilot Watershed” grant from the USDA to work in the North Yamhill watershed, so if chose to do the BEF Model Watershed in that sub-basin, we could potentially double our impact.

Jean will write a Letter of Interest with help from Tim and Chad. Sign up with Jean if you are interested in helping to finalize the letter. The Council will have the opportunity to approve it before it is submitted by September 12, 2009.

Action Item	Jean asked for a show of hands if people supported partnering with the YSWCD and the NRCS on this letter of interest. The majority approved.
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11.)Restructuring: Roles and Responsibilities

Comments and Discussion: It's getting late so the Council members present chose to discuss this topic at a separate meeting outside of a regular council meeting. A council member suggested that we invite Wendy Hudson of OWEB to discuss it with us. Jean will check with Wendy and see when she is available.

12.)Additional Topics

Future: Leonard said we need to be politically active to provide comments on zoning and such. Larry said we need to work in an "advisory" capacity to local governments, but we need to have a plan first. Terry said that the Oregon Environmental Council has a good stormwater program. Council member Kathy George, a County Commissioner, recently went to a water quantity meeting. Jean will invite her to speak at a meeting to tell us what she learned there.

13.) Adjourn: Annette moved to adjourn. Leonard seconded. The motion was approved by consensus. Stan adjourned the meeting at 9:05pm.

The Next YBC meeting is September 10, 2009.

YAMHILL BASIN COUNCIL MEETING MINUTES

September 10, 2009, McMinnville Water Reclamation Facility Conference Room
WQ Committee Meeting at SWCD 3:00-5:00 PM
Special Council Meeting 6:00-8:00 PM (Council Members and Staff only)
Council Business Meeting 8:00-8:45 PM

	YBC Members	Organization
P	Anthony, Terry	Student Representative
P	Bledsoe, Kris	Watershed Resident
P	Christensen, Stan	Yamhill SWCD
E	Covey, Steve	City of McMinnville
P	Fain, Larry	City of Newberg
P	Frank, Annette	Watershed Resident
A	George, Kathy	Yamhill County
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
A	Johnson, Sonja	City of Newberg
P	McJunkin, Richard	Watershed Resident
A	Mustain, Alan	City of Dundee
P	Riedman, David	Watershed Resident
P	Rydell, Leonard	Small Woodlands Association
P	Sigloh, Bruce	Watershed Resident
A	Thomson, Tom	Polk Co. / SWCD
A	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused
Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
E	Denise Schmit	WQ Technician
E	Corissa Kunze	WQ Assistant
E	Ginger Lofftus	Intern

Others Present	
Wendy Hudson	OWEB

1.) Call to Order, Introductions

Wendy Hudson called the meeting to order at 6:05 pm. We had 13 voting members present, thus we exceeded a quorum.

2.) Special Topic: Council Member Roles and Responsibilities, Facilitated by: Wendy Hudson, OWEB Regional Representative

Wendy used the Appreciative Inquiry (AI) method for exploring what gives life to organizations that allows them to function at their best. Instead of assuming an organization is a problem to be solved, AI assumes it is a challenge to be embraced. AI is a “glass half-full” approach that focuses participants on what is working as a means of illuminating what could be done differently or better. Due to time constraints, the group engaged in a very modified AI, working through an abbreviated “4-D Cycle” of Discovery, Dream, Design, and Destiny.

During the discussion, Kris volunteered to be the Chair. Stan then resigned.

Action Item	Leonard nominated Kris. Bruce seconded. Kris was elected Chair by consensus.
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3.) Approval of Minutes: August 2009

Action Item	Leonard moved to approve last month’s minutes. Dave H. seconded. The August 2009 minutes were approved by consensus.
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4.) Council Business: BEF Grant Application

Comments and Discussion: Jean wrote a Letter of Interest with help from Tim (SWCD) and Chad (NRCS) and sent it to the Council members for review. Steve W. said he showed it to a co-worker who said it was “well-crafted.” Others also voiced their approval.

Action Item	Council members will read the letter and send edits to Jean early Friday so she can mail it before 5pm.
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5.) Council Business: New Water Quality Monitoring Grant Possibilities

Terry and Jean commented on some ideas for new grants. One suggestion is to do WQ monitoring on the mainstem of the South Yamhill River just downstream from major tributaries, or at the lower end of the major tributaries themselves.

Action Item	Jean will talk with DEQ about monitoring locations. Jean will talk with the McMinnville WRF to determine if they are available to do analysis of the water samples. Jean will write the OWEB grant if our partners are available to help us. Jean will look into DEQ 319 grants.
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6.) Council Business: Fundraising/Volunteer Appreciation Event

Jean said that her idea for the event would be a free casual dinner for volunteers. Others would pay to attend. Maybe have a speaker or slide show of activities. Jean reserved the ballroom for Nov. 7, and checked prices with one caterer. Cost would be ~\$1,350. Discussion followed. Perhaps it would be better to have

a project site tour of Gooseneck Creek, Riedman's, and Deer Creek Park with a picnic at the last stop.

Action Item	Dave H. moved to have the event at Deer Creek Park on October 10. Annette seconded. The event idea was approved by consensus. Jean will check with County Parks to see if this is okay, and if they have a tent /shelter available in case of rain.
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7.): Public Comment:

Leonard stated that the Yamhill Watershed Stewardship Fund is having their fundraising event at the McMinnville ballroom on Nov. 14. They asked to have the banner that we bought together last year. Jean mentioned that the YBC name and logo are prominently displayed on the banner, and since their event is not a fundraiser for the YBC, that would cause some confusion. Leonard stated that they would cover it up with tape.

Action Item	Leonard moved to approve the YBC loaning the banner to the YWSF for their event. Brandy seconded. The loan of the banner was approved by consensus.
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8.): Upcoming Event:

Annette stated that the Dayton Harvest Festival is this Saturday, September 12. She paid for booth space for the YBC. Jean and Annette will be in the booth trying to sign up volunteers to help with removing invasive English ivy from the Dayton Trail to Palmer Creek.

9.): Upcoming Event:

Kris mentioned that she has already registered for the Network of Oregon Watershed Councils (NOWC) Watershed Gathering in Klamath Falls, Oct. 27-30. She encouraged others to register soon.

10.): Additional Comment:

Larry Fain mentioned that he might be able to get the City of Newberg to let us have a used, surplus vehicle for water quality monitoring so the technicians don't have to drive their own vehicles.

11.): Additional Comment:

Someone asked about forming a committee to revise the YBC Charter and Rules.

Action Item	Jean will send out an email to have Council Members sign up to work on this new committee.
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12.) Adjourn: Stan adjourned the meeting at 8:25pm.

The Next YBC meeting is October 8, 2009.

YAMHILL BASIN COUNCIL MEETING MINUTES

October 8, 2009, McMinnville Water Reclamation Facility Conference Room
Habitat and Water Quality Committee Meetings 6:00-7:00pm
Business Meeting 7:00-9:00pm

	YBC Members	Organization
P	Anthony, Terry	Student Representative
P	Bledsoe, Kris	Watershed Resident
P	Christensen, Stan	Yamhill SWCD
A	Fain, Larry	City of Newberg
E	Frank, Annette	Watershed Resident
A	George, Kathy	Yamhill County
P	Gillenardo, Ron	City of McMinnville
P	Hanson, Dave	NPSO –Cheahmill Chapter
P	Humphreys, Brandy	Confederated Tribes of Grand Ronde
P	Johnson, Sonja	City of Newberg
E	McJunkin, Richard	Watershed Resident
E	Mustain, Alan	City of Dundee
P	Riedman, David	Watershed Resident
A	Rydell, Leonard	Small Woodlands Association
P	Sigloh, Bruce	Watershed Resident
E	Strahm, Ernie	City of McMinnville
A	Thomson, Tom	Polk Co. / SWCD
A	Vroman, Mark	Hampton Tree Farms
P	Wegner, Steve	BLM
P	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
P	Jean Reiher	Watershed Coordinator
P	Denise Schmit	WQ Technician
P	Corissa Kunze	WQ Assistant

Others Present	
Ginger Lofftus	Volunteer

1.) Call to Order, Introductions, and Late Agenda Items

Kris called the meeting to order at 7:07 pm. We had 11 voting members present, plus two voting by proxy, thus we exceeded a quorum. We welcomed a new member representing the City of McMinnville, Ron Gillenardo. Kris, the new YBC Chair introduced herself saying she doesn't have scientific knowledge, but she does have a passion for the watershed.

2.) Approval of Minutes

Action Item	Dave H. moved to approve last month's minutes. Steve Wegner seconded. The September minutes were approved by consensus.
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3.) Fiscal Committee Report

Comments & Discussion: Jean had already emailed out the Fiscal Report as of the end of September 2009. Stan said we are in the red right now, but it's okay since project grant funds have been requested from OWEB. Jean said that the SWCD covers us until the funds come in. Kris added that SWCD doesn't charge us interest on the loan. Jean also mentioned that we received additional funds from OWEB for Council Support, and that the annual budget has been updated.

4.) Habitat Committee Report

Comments & Discussion: Dave R. reviewed current projects.

Deer Creek: We have a site visit on Wednesday with Ken Huffer of County Parks to decide what to do next. Steve Smith of USFWS was also invited. We need to find a no-till drill if we decide to seed now.

Gooseneck: The construction was completed on September 25, 2009. It looks good!

Riedman Phase 3: Contractor removed more blackberries and invasive weeds this week. It's all done for now.

Sheridan and Carlton SEPs: Jean is a consultant on their habitat restoration projects.

Culvert Surveys: The BLM finally received funding for this from NFWF. We will hire an outreach person and begin work in early 2010.

Future projects:

Yamhill County Road Dept: They requested our help with a habitat project on Deer Creek. We might try to package it with some culvert replacement projects on Beaver Creek, a tributary of Deer Creek.

Fish Surveys: A BLM Fish Biologist suggested we get a grant to do fish surveys ("rapid bio-assessments") to determine fish distribution in the watershed.

VIP Tour: Maybe invite VIPs to tour completed projects next spring. Sites may include Baker Creek (2004), Upper Gooseneck Creek (2005), Jackass Creek (2006), and Lower Gooseneck Creek (2009).

5.) Water Quality Committee Report

Comments & Discussion:

OWEB Monitoring grant application: Terry said the committee is focused on grant writing right now. They decided to move the new water quality monitoring focus from the South Yamhill River to the Chehalem watershed. The OWEB grant application is due in one week. Terry said he will write the new grant based on the application Jean was writing for water quality monitoring on the South Yamhill River. Jean said she will be out of town over the weekend, so she won't be available to help with last minute things or delivering the grant to OWEB. Terry said he would take care of it.

DEQ 319 grants: The application period isn't open yet. We hope to write an application to fund data management and database development.

MMT: Terry suggested getting a grant to fund long-term planning for monitoring. The grant applications will be accepted in mid-November. Only 501-c-3 organizations can apply. The YBC is not 501-c-3, so we need to find a group to apply for us.

Student Watershed Research Program at PSU: Program teaches high school kids about macroinvertebrate sampling. The YBC provided a letter of support, but did not promise any funding.

Volunteers: Sonja said that she could put YBC announcements requesting volunteers on the City of Newberg website.

6.) Coordinator's Report: Jean emailed the Staff Report to everyone. She went over a few items such as the outreach booth at the Dayton Harvest Festival.

7.) Council Business

New Chair Report:

Volunteers: Kris said we recognize the efforts of volunteers. We'll plan a volunteer appreciation event for next spring. She'll make a planning committee to work on it for 3 months.

Charter and Rules: A new committee will work on a new Charter and Rules. Kris, Annette, Brandy, Bruce, Dave H., Larry, and Jean will begin meeting in Nov. Send Kris lists of what works and what doesn't. We may reformat meetings, or change meeting night or time. Maybe do Committee Meetings on other nights, on their own schedules. Kris said we'll have "open dialog and sharing" at regular meetings. The current Charter isn't bad, it's just vague. We will also look at Council representations and may create other stakeholder positions.

Office Space: The FSA has one desk space available (\$109/month). Current office space can be used as storage for now. In the future, we may get a storage area built at Miller Woods. In the next few years, the SWCD may build a new office at Chegwyn Farm where there will be space for the YBC. To move to FSA, our current computer access will need to be re-done. We'll have to go through a private company (\$130/month) to connect to the Yamhill County system where our files are stored. Discussion of computers: Before moving, make sure it will

work to have this connection to the county system. Discussion of building keys and access on nights and weekends.

Action Item	Stan moved to approve moving the office to the FSA desk. Dave H. seconded. The move was approved by consensus.
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Annual Review: Jean has a review at the end of October. Please email your comments to Tim at the SWCD by Oct. 22.

Meeting Review: Kris invited attendees to comment on the meeting tonight.

8.) Additional Comments and Announcements

Well Measuring: Dave R. is having his well depth measured tomorrow. He invites attendees out to watch or participate to get them interested in enrolling in the new SWCD/YBC program.

SWCD Annual Dinner: The event is on October 15 from 5:30-8:00pm at the McMinnville Grand Ballroom. The speaker is Dr. Brenda Bateman of the Oregon Water Resources Department. Her topic is "Developing Oregon's First Integrated Water Resources Strategy."

Next YBC Meeting: November 12, 2009

9.) Adjourn: Stan moved to adjourn. Steve Wegner seconded. The motion was approved by consensus. Kris adjourned the meeting at 8:35pm.

YAMHILL BASIN COUNCIL MEETING MINUTES

November 12, 2009, McMinnville Water Reclamation Facility Conference Room
Habitat and Water Quality Committee Meetings 6:00-7:00pm
Business Meeting 7:00-9:00pm

	YBC Members	Organization
	Anthony, Terry	Student Representative
	Bledsoe, Kris	Watershed Resident
	Christensen, Stan	Yamhill SWCD
	Fain, Larry	City of Newberg
	Frank, Annette	Watershed Resident
	George, Kathy	Yamhill County
	Gillenardo, Ron	City of McMinnville
	Hanson, Dave	NPSO –Cheahmill Chapter
	Humphreys, Brandy	Confederated Tribes of Grand Ronde
	Johnson, Sonja	City of Newberg
	McJunkin, Richard	Watershed Resident
	Mustain, Alan	City of Dundee
	Riedman, David	Watershed Resident
	Rydell, Leonard	Small Woodlands Association
	Sigloh, Bruce	Watershed Resident
	Strahm, Ernie	City of McMinnville
	Thomson, Tom	Polk Co. / SWCD
	Vroman, Mark	Hampton Tree Farms
	Wegner, Steve	BLM
	Wendell, Steve	McMinnville Water & Light

P = Present, A = Absent, E = Excused Absence

	YBC Members	Organization
	Vacant	Agriculture
	Vacant	Business or Community Association
	Vacant	Utilities
	Associate Members	
	Staff/Interns	
	Jean Reiher	Watershed Coordinator
	Denise Schmit	WQ Technician
	Corissa Kunze	WQ Assistant

Others Present	

1.) Call to Order, Introductions, and Late Agenda Items

Kris called the meeting to order at 7:xx pm. We had xx voting members present, plus two voting by proxy, thus we exceeded a quorum.

2.) Approval of Minutes

Action Item	xxx moved to approve last month's minutes. xxx seconded. The October minutes were approved by consensus.
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3.) Fiscal Committee Report

Comments & Discussion: Jean had already emailed out the Fiscal Report as of the end of October 2009. Stan said we are in the black again.

4.) Habitat Committee Report

Comments & Discussion: xxx reviewed current projects.

Deer Creek:

Gooseneck:

Riedman Phase 3:

Sheridan and Carlton SEPs: Jean is a consultant on their habitat restoration projects.

Culvert Surveys:

Future projects:

Yamhill County Road Dept: They requested our help with a habitat project on Deer Creek. We might try to package it with some culvert replacement projects on Beaver Creek, a tributary of Deer Creek.

Fish Surveys: A BLM Fish Biologist suggested we get a grant to do fish surveys ("rapid bio-assessments") to determine fish distribution in the watershed.

VIP Tour: Maybe invite VIPs to tour completed projects next spring. Sites may include Baker Creek (2004), Upper Gooseneck Creek (2005), Jackass Creek (2006), and Lower Gooseneck Creek (2009).

5.) Water Quality Committee Report

Comments & Discussion:

OWEB Monitoring grant application:

DEQ 319 grants: We are writing an application to fund data management and database development.

MMT: Terry suggested getting a grant to fund long-term planning for monitoring. The grant applications will be accepted in mid-November. Only 501-c-3 organizations can apply. The YBC is not 501-c-3, so we need to find a group to apply for us.

Student Watershed Research Program at PSU:

Volunteers:

6.) Coordinator's Report: Jean emailed the Staff Report to everyone. She went over a few items such as

7.) Council Business

8.) Additional Comments and Announcements

Next YBC Meeting: December 10, 2009

9.) Adjourn: xxx moved to adjourn. xxx seconded. The motion was approved by consensus. Kris adjourned the meeting at 8:xx pm.

**YAMHILL BASIN COUNCIL
MEETING MINUTES**

December 10, 2009 6:30 - 9:00 p.m.

McMinnville Water Reclamation Facility Conference Room

Members Present:

Kris Bledsoe, Chair
Leonard Rydell, Vice Chair
Stan Christensen
Terry Anthony (left at 8:30)
Annette Frank
Brandy Humphreys
Sonja Johnson
Bruce Sigloh
Ernie Strahm
Steve Wendell

Staff/Interns Present:

Bernadette Hansen, YBC Administrator
Ginger Lofftus, Intern

Others Present:

Rand Eaps, Guest (RiverMetrics)

1) Call to Order and Introductions

The chair called the meeting to order at 6:40 p.m.. Ten members in attendance - a quorum is present. Introduction of new staff member, Bernadette Hansen (Interim Watershed Administrator). Roundtable introduction of members and guest (Rand Eaps).

2) Approval of November 2009 Minutes

Moved and seconded that minutes of the last meeting be accepted and filed, carried.

3) Fiscal Report

Mr. Christensen reviewed the fiscal report - no comments from members. Moved and seconded that the fiscal report be accepted and filed, carried.

4) Council Business

Miscellaneous Information

The chair discussed the cleaning and re-organization of the two YBC offices currently located in the YCAP building. A storage unit was rented and water quality monitoring equipment and old files were moved there. The plan is to convert the room that previously housed the equipment into an office space for the Interim Watershed Administrator.

YBC Member Expectations

The vice-chair led a discussion relating to council member representation. After much discussion, the chair clarified that if a council member represents a governmental agency or interest group, it is that member's responsibility to make sure that they report back to their respective represented agency/group. In addition, it is that member's responsibility to know and represent their respective agency/group issues at the meeting.

OWEB Small Grant Team

The OWEB Small Grant Team meeting is scheduled for December 15 at the Polk County SWCD office. Bruce Sigloh volunteered to attend the meeting and represent the council. He will update the council at the next meeting.

Water Quality/Temperature Trading 319 Grant

Mr. Anthony reported on a DEQ 319 grant relating to water quality and temperature trading. Mr. Anthony will send a copy of the application to council members. A decision will be made in late January 2010. Moved and seconded that the Council support the grant. Carried.

Discussion of YBC Politics

The chair led a discussion relating to the Council becoming too political. The chair affirmed and the members agreed that YBC is not a political organization nor should they conduct themselves as such. Ms. Johnson agreed and indicated that the YBC's role should be to obtain and disseminate scientific data to members to use for their respective constituencies. In addition, members discussed and agreed that when acting as a representative of the YBC in other forums, they must have the approval of the Council.

The chair announced that she is running for County Commissioner. She indicated that this will not interfere with her work as chair of YBC and wants to make sure everyone is comfortable with her running a campaign while concurrently serving as chair.

Nominations

Mr. Christensen announced that nominations for chair would be taken at the January meeting. The vice-chair moved that the Council support Ms. Bledsoe remaining as YBC chair for the continuing year with the understanding that she is running for County Commissioner. Moved and seconded that the Council support Ms. Bledsoe remaining as YBC chair for the continuing with the understanding that she is running for County Commissioner. Carried.

YBC Charter and Rules

The vice-chair led a discussion relating to amending of the YBC Charter & Rules. The amendment relates to consensus decision making and stakeholder representation. The new language reads, "Any stakeholder representative with a conflict of interest may abstain from voting for an item not consistent with their capacity as a stakeholder." There was a brief discussion of consensus versus voting. To be voted on at January meeting.

Creation of an Executive Committee

The chair led a discussion relating to changing the Council management structure to an Executive Committee consisting of Past Chair, Chair and Chair Elect. The change will be voted on at the January 2010 meeting. Stan Christiansen agreed to be on the Executive Committee as Past Chair. The duties of the Executive Committee will be staff and administrative management (e.g., sign checks, review grants, etc.). The chair indicated that the Charter and Bylaws needed to be amended to incorporate the term "Executive Committee" with references to the three chairs. The vice-chair volunteered to draft language. To be voted on in February or March meeting. Nominations open for Executive Committee positions.

Moved and seconded that Vice Chair be changed to Chair Elect in the YBC Charter and Rules. Carried.

New Council Members and Training Program

The chair led a discussion relating to the need to create a “probationary period” for new Council members. Under “Cooperative Membership” of the YBC Charter & Rules, it reads, “A non-voting associate member will serve for a two year period from the time appointed.” The vice-chair recommended the time period be changed to “three months”. No action taken.

Ms. Frank volunteered to work on creating a “Training Program” for new members. Ms. Frank requested that ideas be sent to her.

Moved and seconded that a “letter of interest” be drafted and sent to current Council members regarding nominations and voting at the January meeting. Carried.

Yamhill Partnership for Land and Water

Ms. Humphreys led discussion relating to the Yamhill Partnership for Land and Water. Currently, the YBC is not a member of the group. Moved and seconded that the YBC join the Yamhill Partnership for Land and Water. Carried.

6.) Administrator’s Report

Ms. Hansen reported that Milli Chennell is working with the SWCD to plan the Gooseneck plantings. Ms. Chennell also visited the Deer Creek site to discuss a new project with Yamhill County Roads Department and to assess the current status of the Deer Creek Prairie Restoration.

Water Quality Monitoring

Denise and Corissa retrieved the final 2 temperature loggers. Temperature logger data download is scheduled for first week in January. Denise and Corissa working on data analysis, data management guidelines, and water quality report, all to be completed next spring. Presentations and Volunteer appreciation to occur in the spring as well.

Pesticide Partnership with DEQ

Submitted budget estimates (per DEQ request) for next year's pesticide monitoring. Will be up to 15 sampling events, depending on DEQ funding and DEQ lab abilities. Denise and Milli will work together to get final report to DEQ for 2009 sampling to DEQ before December 31st deadline.

SDAO Safety Grant 50/50 with SWCD

Denise working on final purchases for SDOA Safety Grant. Will work with Milli to get grant completed.

7.) Additional Comments and Announcements

The vice-chair announced that he would not be at the next meeting.

Next YBC Meeting: January 14, 2010 6:00 - 8:00 p.m.

8.) Adjourn: Kris adjourned the meeting at 8:45 p.m..

Section I

APPLICANT INFORMATION

Complete Sections I and II.

Name of project: Assessing Riparian Habitat, Aquatic Habitat and Water Quality in the Chehalem Valley Watershed

OWEB funds requested: \$147,735.00

Total cost of project: \$272,868.00

Project location:

This project occurs at (check one):

☐ A single site

☒ Multiple sites

Willamette River Chehalem Creek

Yamhill

T3S, R3W, S08; T3S,

R3W, S09; T3S, R3W, S04; T3S, R3W, S10; T3S, R3W, S11; T2S, R3W, S35; T3S, R3W, S14; T3S, R3W, S13;

T3S, R3W, S24; T3S, R2W, S19; T3S, R2W, S20; T3S, R2W, S08; T3S, R2W, S21; and T3S, R2W, S15

Watershed(s)

County or counties

Township, Range, Section(s)
(e.g., T1N, R5E, S12)

45.35235, -123.0121 by 45.261336, -123.001095 North to South

45.313614, -122.9228 by 45.31741, -123.090709 East to West

1709000704

Longitude, Latitude (e.g., -123.789, 45.613)

Subbasin(s) – Please note the 10-digit hydrological unit code,
previously 5th Field HUC

Applicant

Project Manager

Name: Sonja Johnson	Name: Jean Reiher
Organization: City of Newberg	Organization: Yamhill Basin Council
Address: 414 E. First Street, PO Box 970	Address: 2200 SW 2 nd Street
Newberg, OR 97132	McMinnville, OR 97128
Phone: 503 537 1282	Phone: 503 472 1474
Fax: 503 537 1277	Fax: 503 472 2459
Email: sonja.johnson@newbergoregon.gov	Email: ybc_coordinator@co.yamhill.or.us

Fiscal Agent

Landowner(s)

Name: Tim Stieber	<input type="checkbox"/> Public: Agency:
Organization: Yamhill SWCD	<input type="checkbox"/> Private: Name(s):
Address: 2200 SW 2 nd Street	
McMinnville, OR 97128	
Phone: 503 472 1474	
Fax: 503 472 2459	
Email: tim.stieber@or.nacdnet.net	

CERTIFICATION:

I certify that this application is a true and accurate representation of the proposed work for watershed restoration and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements (*see Application Instructions*) of an OWEB grant and are prepared to implement the project if awarded.

Applicant Signature: _____ Date: _____

Print Name: _____ Title: _____

Co-Applicant Signature: _____ Date: _____

Section II

PROJECT INFORMATION

1. **Abstract.** In the space provided, and in 150 words or fewer, state 1) the problem, 2) the proposed solution, 3) other partners involved, and 4) how OWEB funds will be used.

Problem: Riparian habitat, aquatic habitat, and stream water-quality in the Chehalem Valley watershed is affected by urbanization, agriculture, and climate change. Riparian and aquatic habitat and most water quality parameters have not been updated since 2001. There are scattered sites in the basin with data on E.Coli, dissolved oxygen and temperature but those sites were last monitored in 2004.

Proposed Solution: The YBC will collect water-quality data and measure discharge at 16 sites in the watershed. In addition, they will document the riparian and aquatic habitat at 7 sites for 1 year. Using this data, the YBC will prioritize restoration projects to increase (1) the number and length of continuous cold-water refuge miles and (2) water quality in the watershed.

Project Partners: Department of Agriculture, Oregon DEQ, Yamhill SWCD, and Newberg.

Use of OWEB funds: Funds will be used for staff, contracted services, some analyses, supplies, equipment, and production costs

2. **Was this application submitted previously?** ☐ Yes ☒ No

If yes, what was the application number?

3. **Is this project a continuation of a previously OWEB-funded project(s)?** ☐ Yes ☒ No

If yes, what was the application number(s)?

4. **Project Partners.** Show all anticipated funding sources, and indicate the dollar value for cash or in-kind contributions. Be sure to provide a dollar value for each funding source. If the funding source is providing in-kind contributions, briefly describe the nature of the contribution in the Funding Source Column. Check the appropriate box to denote if the funding status is secured or pending. In the Amount/Value Column, provide a total dollar amount or value for each funding source.

Funding Source Name the Partner and what their contribution is.	Cash	In-Kind	Secured (x)	Pending (x)	Amount/Value
OWEB	\$147,735	\$	<input type="checkbox"/>	X	\$147,735
Landowner:	\$	\$	<input type="checkbox"/>	<input type="checkbox"/>	\$
City of Newberg	\$	\$67,460	<input type="checkbox"/>	X	\$67,460
Yamhill County SWCD	\$	\$7,700	<input type="checkbox"/>	X	\$7,700
Department of Agriculture	\$	\$2,160	<input type="checkbox"/>	X	\$2,160
Oregon Dept of Environmental Quality	\$	\$7,713	<input type="checkbox"/>	X	\$7,713
OR Dept of Fish and Wildlife	\$	\$2,160		X	\$2,160
Yamhill Basin Council	\$	\$38,000	X	<input type="checkbox"/>	\$38,000
Total Estimated Funds (add all amounts in the far-right Column):					*\$272,928

*The total should equal the total cost of the project in Section I of this application.

5. **Have any conditions been placed on other funds that may affect project completion?**

☐ Yes ☒ No

If yes, explain:

* The next six questions, 6 through 11, are required for federal reporting purposes. OWEB receives a portion of its funds from the federal government and is required to report how its grantees will use those funds. Please respond as applicable.

***6. Salmon/Steelhead Populations Targeted and Expected Benefits to Salmon/Steelhead**

The information provided will be used to by OWEB to better meet federal and state reporting requirements. Completion of this section is required but will not be used to evaluate this application for funding.

☐ This project is **NOT** specifically designed to benefit salmon or steelhead.

► If you check this box, STOP here and GO TO Question #7 on the next page.

Targeted Salmon/Steelhead Populations: Select one or more of the salmon ESUs (Evolutionary Significant Unit) or steelhead DPSs (Distinct Population Segment) that the project will address/benefit. For species where the ESU/DPS name is not known or determined, use the species name with unidentified ESU (e.g., Chinook salmon – unidentified ESU). Additional information on the designation and location of the salmon/steelhead populations can be found at <http://www.nwr.noaa.gov/ESA-Salmon-Listings/Salmon-Populations/Maps/Index.cfm>.

Chinook Salmon (<i>Oncorhynchus tshawytscha</i>)		Coho Salmon (<i>O. kisutch</i>)	
<input type="checkbox"/>	Deschutes River summer/fall-run ESU	<input type="checkbox"/>	Lower Columbia River ESU
<input type="checkbox"/>	Lower Columbia River ESU	<input type="checkbox"/>	Oregon Coast ESU
<input type="checkbox"/>	Mid-Columbia River spring-run ESU	<input type="checkbox"/>	Southern Oregon/Northern California ESU
<input type="checkbox"/>	Oregon Coast ESU	<input type="checkbox"/>	unidentified ESU
<input type="checkbox"/>	Snake River Fall-run ESU	Steelhead (<i>O. mykiss</i>)	
<input type="checkbox"/>	Snake River Spring/Summer-run ESU	<input type="checkbox"/>	Klamath Mountains Province DPS
<input type="checkbox"/>	Southern Oregon and Northern California Coastal ESU	<input type="checkbox"/>	Lower Columbia River DPS
<input type="checkbox"/>	Upper Klamath-Trinity Rivers ESU	<input type="checkbox"/>	Middle Columbia River DPS
<input checked="" type="checkbox"/>	Upper Willamette River ESU	<input type="checkbox"/>	Oregon Coast DPS
<input type="checkbox"/>	unidentified ESU	<input type="checkbox"/>	Snake River Basin DPS
Chum Salmon (<i>O. keta</i>)		<input type="checkbox"/>	Washington Coast DPS (SW Washington)
<input type="checkbox"/>	Columbia River ESU	<input checked="" type="checkbox"/>	Upper Willamette River DPS
<input type="checkbox"/>	Pacific Coast ESU	<input type="checkbox"/>	Steelhead/Trout unidentified DPS
<input type="checkbox"/>	unidentified ESU		

Expected Benefits: Write a brief description of the goals and purpose of the project and how it is expected to benefit salmon/steelhead or salmon/steelhead habitat. **See Application Instructions for helpful examples.**

The goal of the YBC for this project is to identify specific areas with water quality and aquatic habitat that is high quality or can be restored to a natural state. The YBC will create a database of the the condition of the tree canopy cover, riparian habitat, and aquatic habitat with photographs taken with a digital camera to show the riparian habitat at 7 sites in the basin. The 7 sites have been chosen to provide a variety of channel habitats. Solar radiation will be simulated using LIDAR data to show the effect of tree shade at the riparian and aquatic sites. By analyzing this data in conjunction with water quality and discharge data of the streams, the YBC will prioritize restoration projects that increase (1) the number and length of continuous cold-water refuge miles and (2) water quality in the watershed.

***7. Is the project identified as an essential or needed project in an assessment or recovery plan?**

☒ Yes ☐ No

If yes, provide name of document (Author, date, title, source, source address. Endnote citation format).

Yamhill Basin Council, Chehalem Creek Assessment,
<http://www.co.yamhill.or.us/ybc/assessments.htm>, June 2001

***8. Report the stream miles and/or acres that will be monitored or assessed under this monitoring application.**

43,399 acres

***9. Is this project a part of a comprehensive monitoring strategy/program?**

☒ Yes ☐ No

If yes, provide name of document (Author, date, title, source, source address. Endnote citation format).

Yamhill Basin Council Action Plan, <http://www.co.yamhill.or.us/ybc/actionplan.htm>, June 2005

***10. Are other organizations cooperating with this project by concurrently conducting field work on other components of a comprehensive strategy/program?**

☐ Yes ☒ No

***11. Estimate how many reports will be prepared by this project? This includes OWEB progress reports, monitoring reports, or final reports as well as other non-OWEB reports.**

1. OWEB Final Report 2012 (Assessing Riparian Habitat, Aquatic Habitat and Water Quality in the Chehalem Valley Watershed), 2. Annual Monitoring Report 2011, 3. Effects of Urbanization and Changing Agricultural Uses on Streams in Newberg

12. Identify the type of monitoring proposed. (See Instructions for descriptions.) Check all that apply.

<input checked="" type="checkbox"/> Baseline	<input type="checkbox"/> Implementation	<input checked="" type="checkbox"/> Status and Trend
<input type="checkbox"/> Effectiveness	<input type="checkbox"/> Other:	

13. Identify the parameters that will be measured. (See Instructions for descriptions.) Check all that apply.

<input checked="" type="checkbox"/> Adult fish presence/absence/abundance/distribution survey(s)	<input checked="" type="checkbox"/> Riparian vegetation
<input checked="" type="checkbox"/> Juvenile fish presence/absence/abundance/distribution survey(s)	<input type="checkbox"/> Spawning surveys
<input type="checkbox"/> Salmon/steelhead harvest monitoring	<input type="checkbox"/> Upland vegetation
<input checked="" type="checkbox"/> Instream habitat surveys	<input checked="" type="checkbox"/> Water quality
<input type="checkbox"/> Macroinvertebrates	<input checked="" type="checkbox"/> Water quantity
<input type="checkbox"/> Noxious weeds	<input type="checkbox"/> Other:

If you checked Water Quality above, exactly which parameters will you be monitoring? Check all that apply.

<input checked="" type="checkbox"/> Bacteria	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> Temperature
<input checked="" type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/> Pesticides	<input type="checkbox"/> Toxics
<input checked="" type="checkbox"/> Nitrates	<input checked="" type="checkbox"/> Phosphorus	<input checked="" type="checkbox"/> Turbidity
<input checked="" type="checkbox"/> Heavy Metals (name):		<input checked="" type="checkbox"/> Nutrients (name):
<input checked="" type="checkbox"/> Other (explain): Heavy metal is mercury, nutrients are ammonia and nitrite in addition to nitrates and total phosphorus		

If you checked Riparian or Upland Vegetation above, exactly which parameters will you be monitoring? Check all that apply.

<input checked="" type="checkbox"/> Canopy cover	<input checked="" type="checkbox"/> Invasive species presence/absence	<input type="checkbox"/> Plant survival
<input checked="" type="checkbox"/> Percent cover	<input type="checkbox"/> Other (explain):	

14. What is the format in which the data will be stored? Check all that apply.

<input type="checkbox"/> Spreadsheet	<input checked="" type="checkbox"/> Database	<input checked="" type="checkbox"/> GIS layers
<input type="checkbox"/> Other (name):		

Attachments — Complete and attach to the back of your application:

► See Application Instructions for assembling multiple maps/photos/designs.

- ☒ ***Project Maps:** On a topographic or aerial backdrop, draw the extent of your project area(s) and note the center of the project area with the latitude, longitude coordinate (e.g., -123.789, 45.613). If the project has multiple sites, provide an additional map for each project area. Go to <http://www.oregon.gov/OWEB/GRANTS/projectlocationguidance.shtml> for a suggested online tool for creating your map and coordinate information. **Provide maps on 8½" x 11" pages and include a legend.**
- ☐ **Photographs:** Provide photographs to aid in understanding the situation. If color photos are necessary to convey information important for application review, supply 20 copies of each photo. **Note: If your project is funded, pre-project photos will be required in the final project completion report.**
- ☐ **Letters of Support** from key partners or others.

IMPORTANT: Avoid color and detail that will not photocopy clearly. Otherwise, provide 20 color copies of any maps/photos/designs that you want OWEB reviewers to see in color. If more than one map, photo or design, assemble them as a set and staple the set. For example: you have 20 copies of a map, 20 copies of a photo and 20 copies of a design; staple one map, one photo and one design together to make a set. Provide 20 sets for distribution to reviewers. This is the only exception to the use of staples.

Section III SPECIFIC MONITORING PROJECT ACTIVITY

These essay questions and their answers are designed to step you and reviewers through a logical process from understanding and identifying the problem to measuring for success. **Refer to the Application Instructions for clarification and helpful examples.**

You may use the application form to respond to the questions, using additional sheets of paper as necessary **OR** answer the questions on separate pages. Be sure to include the question numbers and text of the questions before you begin typing your answers to assist the reviewers in evaluating your application. Please use 8½" x 11" paper. All pages must be single spaced, single-sided, numbered and unbound except for sets of maps/photos/designs (see Page 3 of the application instructions). Use a 12 pt type size to answer the questions and a 10-pt type size for the tables. Use bullets where appropriate. Use **bold face** and *italics* for emphasis only. If the project involves multiple sites, be specific for each.

M1 What is the present situation? Describe the issue or opportunity the project seeks to address.

- Over the last 10 years, the Chehalem Creek Watershed has undergone modifications due to urbanization, changes in agriculture, and climate change. These changes are affecting areas that are suitable for fish habitat and affecting the water quality of the watershed. Smart growth in the watershed depends on understanding the current situation and balancing the needs of urban versus agricultural versus aquatic life.
- The increase in vineyards, agritourism, and population in the Chehalem Valley along with the Willamette Implementation Plan for Newberg that DEQ approved, has created a perfect opportunity to work in an integrated fashion to increase the number and miles of continuous cold water refugia.
- There has been very little, if any, systematic watershed-wide work completed to determine the baseline water-quality and aquatic viability of the Chehalem Valley watershed. Long-term basic data is needed to make cost-effective decisions regarding restoration projects.

- The OWRD has designated Chehalem Mountains, or Chehalem Watershed, as a Groundwater Limited Area and has restricted future uses of groundwater in the area. Therefore, it is important to understand and protect the surface water in the area.
- The YBC Chehalem Valley Assessment in June 2001 identified areas of the watershed with non-existent riparian habitat, incised channels, and wetland loss. These types of watershed modifications decrease the area of viable aquatic habitat. The streams in the watershed have historically provided habitat for Spring Chinook salmon, cutthroat trout and potentially winter steelhead. It is unknown whether these fish are currently living in the watershed. Determining if there are chinook, steelhead, or cutthroat populations will influence the type and location of restoration projects.
- There is interest by PGE and others to do restoration work on the lower reaches of Hess Creek and Springbrook Creek due to potential development near the headwaters of both streams. In our current economic climate however, restoration projects should be prioritized in order to provide the most effective restoration remedies.
- Current riparian conditions increase soil erosion and sediment loading to the Willamette River which is 303(d) listed for sediment. Conducting riparian surveys will allow the YBC to concentrate restoration projects in those areas where sediment loading is most critical to the Willamette River.
- The YBC has determined that integrated comprehensive restoration techniques are the most cost-efficient method for increasing stream water-quality and restoring riparian and aquatic habitat.

M2 What are you proposing to do? Supply sufficient detail to match the project's complexity and technical difficulty so that its technical viability can be evaluated.

- The YBC proposes to compare current riparian habitat and aquatic habitat at 6 sites in the watershed with the conditions found in the Chehalem Watershed Assessment completed in June 2001. The sites will be located along Chehalem Creek, Harvey Creek, Dopp Creek, Bryan Creek, Hess Creek at Newberg, Springbrook Creek, and Hess Creek at Dundee. With landowner permission, riparian and aquatic habitat will be field surveyed on both sides of a stream segment. Winter Steelhead spawn in late January to late April and Chinook spawn from September to December. Surveys will bracket these spawning periods by starting the Fall surveys in September 2010 through November 2010 and starting a Spring survey from March 2011 thorough June 2011.
- Tree Canopy Cover will be measured at the same sites as the aquatic and riparian habitat sites using aerial photos in the office and clinometers, densitometers, and digital photography in the field. Solar radiation will be simulated using LIDAR data to show the effect of tree shade at the sites. All of these data types will be used to determine the % shade cover of the streams.
- Grab samples of water will be taken at 16 sites in the watershed to provide information on total suspended solids, ammonia, nitrate, nitrite, dissolved oxygen, pH, temperature, phosphorus and E.Coli. The samples will be taken monthly unless safety issues, i.e. high flows, preclude sampling.
- Grab samples of mercury will be taken at 16 sites during October 2010 to provide information about mercury accumulation in sediment and during the summer or dry season and potential loadings to the Willamette River during the first rains of the season.
- Discharge measurements will be taken at the same time as the grab samples to provide information to calculate loading in the streams and to the Willamette River.
- Field parameters of water temperature, specific conductivity, and pH will be measured at the same time as the collection of grab samples.
- *E.Coli*, dissolved oxygen, and temperature samples will be collected once per week for 4 weeks in Aug 2010 and Aug 2011.
- Temperature data loggers will record temperature every 30 minutes and will be deployed from May to October 2010 and from March to October 2011.
- Data will be analyzed on an ongoing basis throughout the project to allow flexibility when changes occur in the watershed.

Table 1. Site Locations with Stream Type, Land Use, Monitoring Category and Channel Habitat Type

Site ID	Site Name	Primary Stream or Tributary	Land Use	Water Quality (WQ), Riparian (R), Aquatic (A), Canopy Cover (CC)**	Channel Habitat Types
1	Bryan Creek at Quarter Mile Road	Tributary	Agricultural	WQ, R, A, CC	Moderately Steep Valley
2	Dopp Creek at Dopp Road	Tributary	Agricultural	WQ, R, A, CC	Small Flood Plain
3	Chehalem Creek at Penner Ash Road	Primary	Agricultural	WQ, R, A, CC	Small Flood Plain
4	Bryan Creek at North Valley Road	Tributary	Agricultural	WQ	Small Flood Plain
5	Chehalem Creek at Highway 240	Primary	Agricultural	WQ	Small Flood Plain
6	Harvey Creek at Chehalem Creek	Tributary	Urban	WQ, R, A, CC	Low Gradient Confined
7	Tangen Creek at Chehalem Creek	Tributary	Agricultural	WQ	Low Gradient Confined
8	Chehalem Creek at Stone Rd	Primary	Agricultural	WQ	Small Flood Plain
9	Chehalem Creek at Ewing Park	Primary	Urban	WQ	Small Flood Plain
10	Chehalem Creek at Kuehne Road	Primary	Agricultural	WQ	Small Flood Plain
11	Bronson Creek at Chehalem Creek	Tributary	Urban	WQ	Low Gradient Confined
12	Hess Creek at Dundee	Primary	Urban	WQ, R, A, CC	Small Flood Plain
13	Otis Springs at Springbrook Creek	Tributary	Urban	WQ	Low Gradient Confined
14	Springbrook Creek at Wilsonville Road	Primary	Urban	WQ, R, A, CC	Low Gradient Confined
15	Hess Creek At Mountainview Drive	Primary	Urban	WQ	Small Flood Plain
16	Hess Creek at Newberg Airport	Primary	Urban	WQ, R, A, CC	Small Flood Plain
** Riparian, Aquatic, and Canopy Cover Surveys will be conducted near these sites but may not include the actual site.					

M3 What are the project's monitoring objectives? Tie monitoring objectives to watershed restoration objectives. If effectiveness monitoring is proposed, provide a specific hypothesis or monitoring question.

- Make informed decisions and maximize funds used for restoration projects to:
 - Maximize length and number of stream segments that contain vibrant aquatic habitat,
 - Maximize canopy coverage over streams to lower stream temperatures, and
 - Minimize loading to the Willamette River.
- Establish baseline data to gauge the effects of climate change and manage restoration projects to ensure the biodiversity of the aquatic life in the watershed.
- Identify high priority areas for restoration projects to protect aquatic biodiversity.
- Identify areas of high quality riparian habitat, aquatic habitat, and water quality and leverage those areas by completing restoration projects near them to increase the total area of viable aquatic habitat.
- Understand the broader implications of climate change by integrating information on the health of the aquatic habitat, riparian habitat, and water quality. Use this understanding to prioritize restoration projects.

M4 Describe in detail and provide the citation for the protocols that will be used.

Stream Discharge will be measured using protocols from the Watershed Assessment section of the *Mode of Operations Manual* (ODEQ, 2004) in conjunction with training from staff from the DEQ Volunteer Monitoring Program. Suitable sites will be chosen such that they have a cross-sectional area that is relatively uniform with stable flow geometry. Along this cross section, the stream will be divided into segments and velocity/depth vertical profiles will be measured using a Marsh-McBirney digital flow meter and calibrated depth measurement rod. Discharge will be measured and calculated using the standard velocity-area methods described in the ODEQ *Watershed Assessment Section Mode of Operations Manual* (ODEQ, 2004), USGS *Measurement and Computation of Stream flow* (Rantz, S.E., 1982), and will training as provided by the ODEQ Volunteer Monitoring Program staff.

Grab water samples will be collected and field equipment will be calibrated using the protocols outlined in the *Water Quality Monitoring Technical Guide Book* (OWEB 1999) for stream temperature, dissolved oxygen, conductivity, and pH. Dissolved oxygen measurements will be completed in the field with the YSI 63 portable meter and also measure from water samples sent to the laboratory. The laboratory test method used for dissolved oxygen is SM4500-OG.

- Protocols from *Standard Methods* (Greenberg, A.E., 1992) will be used to obtain water samples for total phosphorus, ammonia, nitrate, nitrite, mercury, total suspended solids, and *E. Coli* analyses. All water samples, with the exception of mercury samples, will be analyzed in either Newberg's WWTP laboratory or Alexin Laboratory. Columbia Analytical (Kelso, WA) will be used for the mercury analyses. The specific laboratory methods that will be used are:
 - Nitrate SM4500-NO₃-D
 - Nitrite SM4500-NO₂-B
 - Ammonia SM4500-NH₃-D
 - Total phosphorus EPA 365.3
 - Mercury EPA 1631
 - *E. Coli* Colilert
 - Dissolved Oxygen SM4500-OG
 - Conductivity SM2510B
 - pH SM4500-H⁺-B
 - TSS SM2540B

The ODFW *Aquatic Habitat Inventory* (2008) protocols will be used to survey aquatic and riparian habitat. A densitometer will be used to determine canopy cover and a clinometers will be used to determine tree and bank heights. Sites will be documented using digital cameras.

M5 Describe in detail the sampling design used to choose your sampling locations.

Sampling sites were chosen with an eye towards creating a database that could be used for long-range planning. It was important for the study's objectives that sites be:

- Available in the upper reaches of the watershed to provide ambient water quality conditions and to increase the chances of finding pristine aquatic habitat with diverse fish populations,
- Upstream of urbanized areas to determine the effect of agriculture in the watershed,
- Downstream of urbanized areas to determine the effect of urbanization in the watershed,
- Near the mouths of Springbrook Creek, Hess Creek at Newberg, Chehalem Creek, and Hess Creek at Dundee to determine loading into the Willamette River, and
- In differing agricultural uses of the watershed, e.g. woodlands, foothills, and lowlands. Hess Creek at Newberg and Springbrook Creek sites were chosen because of their critical habitat designation.

With that in mind, sampling locations were researched for:

- Use in previous studies,

- Availability for long-term monitoring, i.e. public access,
- Ease of access and safety,
- Suitability for installation of temperature data loggers, grab sampling, and discharge measurements, and
- Changes in land use or channel habitat.

M6 Describe how the information to be gathered augments existing available data.

Most of the data available for the area is in the form of continuous temperature data with only a couple sites and times with other data. This project will:

- Provide recent data to help prioritize restoration projects in the area,
- Provide long-term regularly scheduled data that may be used to extrapolate trends in the watershed as it becomes urbanized and land use changes, and
- Remove data gaps identified in the YBC Chehalem Watershed Assessment.

M7 Describe the quality control/quality assurance program for the project and who will be collecting your data.

The YBC currently follows a QA/QC program that is approved by DEQ and will continue to use that program for this project. In general:

- Water quality technicians trained in Oregon DEQ protocols will collect water samples for data analysis.
 - Volunteers will participate in the project and will be partnered with a trained YBC technician.
 - Samples will be collected as close to the center of the stream as possible to obtain a representative homogenous sample. It is anticipated that water samples will be collected from at least 90% of the selected sites unless unanticipated weather-related events, safety issues or access issues prevent sampling.
 - Duplicates will be collect on 10% of the water samples. Trip blanks will accompany the *E.Coli* and mercury samples.
- YBC technicians will be trained in ODFW protocols for assessing riparian and aquatic habitat surveys. Volunteers for the project will be partnered with the trained YBC personnel;
- Field equipment will be calibrated, inspected, and required maintenance completed before the start of each sampling day.
 - Conductivity meters will be calibrated using a low and high standard salt solution of potassium chloride.
 - The pH meter, in addition to office calibration, will also be calibrated using 7.0 and 10.0 buffer solutions at each sampling site.
 - The NIST Traceable Digital Thermometer is calibrated at the factory. It will be returned to DEQ for an accuracy check and re-certification by the manufacturer to NIST standards once a year.
 - The data loggers are calibrated at the factory. They will be calibrated prior to deployment and after deployment in the field using procedures outlined in the *Water Quality Monitoring Technical Guidebook* (OWEB, 1999), *ODEQ Watershed Assessment Mode of Operations Manual* (ODEQ, 2004), and according to DEQ Volunteer Monitoring Program staff training and technical advice. Field audits on the loggers will be conducted with the YSI 63 pH/Conductivity/Temperature meter once per month during field suite data collection events at each of the sampling sites.
- YBC technicians will be trained in DEQ-approved discharge measurements methods. Flow meters will be checked for accuracy each month following the manufacturer's protocol for "zero velocity" or "spin" tests as appropriate for the Marsh-McBirney Flow-Mate digital flow meter.
- Trained YBC members will be responsible for data entry, validation, and analyses.

M8 Other than a final report to OWEB, how else will the monitoring data collected through this project be used?

- Yamhill Basin Council staff, members, and watershed residents will be invited to presentations during regularly scheduled meetings in Spring 2011 and Spring 2012.
- Yamhill SWCD staff and watershed residents will be invited to presentations during regularly scheduled meetings in Spring 2011 and Spring 2012.

- Newberg City Council and staff, Dundee City Council and staff, and residents of Newberg and Dundee will be invited to presentations at regularly scheduled meetings of the respective city councils in the Spring of 2011 and Spring 2012.
- The YBC will provide quarterly updates to the Newberg City Council and staff, Dundee City Council and staff, and the Yamhill SWCD.
- Interested residents will be able to access the data via:
 - annual reports on the YBC website (<http://www.co.yamhill.or.us/ybc/index.htm>),
 - YBC newsletter,
 - Yamhill County SWCD newsletter,
 - Newberg city website (<http://www.newbergoregon.gov>),
 - News items and releases to the Newberg Graphic and the News Register (McMinnville),
- Annual reports will be sent to OWEB, ODFW Yamhill SWCD, Newberg, Dundee, Oregon Dept of Environmental Quality, Oregon Department of Agriculture, and Yamhill County, and
- Other interested parties will be able to request a hardcopy of the report or a presentation from the YBC. In addition, the YBC will be available to provide presentations to interested groups as time permits.
- The data will be used by the YBC to develop a comprehensive integrated watershed restoration and monitoring strategy specific to the Chehalem Valley watershed that restores and conserves essential ecological infrastructure in the area.

M9 What is the proposed schedule for the project?

Attachment C contains the schedule for this project.

M10 How many years is this monitoring program going to be conducted?

While the funding requested for this grant only encompasses 2 years, the project is part of a larger 10-year program encompassing Yamhill County that is currently under development by the YBC. The YBC's goal is to create a 10-year program that will provide enough data to understand the effects of climate change and reap the benefits of restoration projects; this grant application will provide the beginning of that program.

M11 How will the success of the project be determined?

The project will be deemed a success if the YBC is able to:

- Collect long-term regularly scheduled data that is of high quality and defensible,
- Identify specific stream segments for aquatic and riparian habitat restoration,
- Use the data to identify techniques to reduce loading from streams in the watershed to the Willamette River
- Incorporate the results into the next revision of the YBC Action Plan, and
- Capture enough data to:
 - Analyze, identify, and prioritize restoration needs and opportunities,
 - Show an increase in the water-quality of streams discharging to the Willamette,
 - Survey over 40% of the Chehalem Valley stream miles to determine the health of the riparian habitat, aquatic habitat, and tree canopy cover, and
 - motivates for groups of private citizens to complete restoration projects in their neighborhoods or acreages.

M12 Provide a detailed description of project location, including location(s) where monitoring will occur. In addition, please provide geographic coordinates as described in the Supplemental Information "Required Attachments" section of the application instructions.

Site ID	Site Name	Primary Stream or Tributary	Ambient Site	Land Use	Latitude	Longitude
1	Bryan Creek at Quarter Mile Road	Tributary	Yes	Agricultural	45.35235	-123.0121
2	Dopp Creek at Dopp Road	Tributary	No	Agricultural	45.34182	-123.0571
3	Chehalem Creek at Penner Ash Road	Primary	Yes	Agricultural	45.33001	-123.0829
4	Bryan Creek at North Valley Road	Tributary	No	Agricultural	45.32935	-123.0329
5	Chehalem Creek at Highway 240	Primary	No	Agricultural	45.31735	-123.01435
6	Harvey Creek at Chehalem Creek	Tributary	No	Urban	45.2959	-122.99755
7	Tangen Creek at Chehalem Creek	Tributary	No	Agricultural	45.31269	-123.00246
8	Chehalem Creek at Stone Rd	Primary	No	Agricultural	45.3192	-123.02545
9	Chehalem Creek at Ewing Park	Primary	No	Urban	45.2897	-122.9797
10	Chehalem Creek at Kuehne Road	Primary	Yes	Agricultural	45.31741	-123.090709
11	Bronson Creek at Chehalem Creek	Tributary	No	Agricultural	45.31056	-123.010188
12	Hess Creek at Dundee	Primary	No	Urban	45.261336	-123.001095
13	Otis Springs at Springbrook Creek	Tributary	Yes	Urban	45.313614	-122.9228
14	Springbrook Creek at Wilsonville Rd	Primary	No	Urban	45.290153	-122.941334
15	Hess Creek At Mountainview Drive	Primary	Yes	Urban	45.317625	-122.961375
16	Hess Creek at Newberg Airport	Primary	No	Urban	45.290269	-122.955724

Section IV WATERSHED MONITORING BUDGET

IMPORTANT: Read the application instructions. Attach additional lines, if necessary

***Totals automatically round to the nearest dollar**

	A	B	C	D	E	F
Itemize projected costs under each of the following categories:	Unit Number	Unit Cost	In-Kind Match*	Cash Match Funds*	OWEB Funds	Total Costs
	(e.g., # of hours)	(e.g., hourly rate)				(add columns C, D, E)
PROJECT MANAGEMENT. Includes <i>staff or contractors</i> who coordinate project implementation. Line items should identify who will be responsible for project management and their affiliation.						
Project Coordination (70% YBC and 30% Newberg)	1002	35			35,060	\$35,060
Project Coordination (70% YBC and 30% Newberg)(Newberg)	429	35	15,026			\$15,026
Report Coordination (70% YBC and 30% Newberg)	378	35			13,230	\$13,230
Report Coordination (70% YBC and 30% Newberg) (Newberg)	162	35	5,670			\$5,670
Subtotal (1)			20,696	0	48,290	\$68,985
IN-HOUSE PERSONNEL. Includes <i>only</i> applicant employee costs and the portion of their time devoted to this project.						
Water Quality Monitoring Technicians	1571	25			39,263	\$39,263
Data Mgmt Coordinator (YBC)	366	20			7,320	\$7,320
Volunteer/Outreach Coordinator (YBC)	220	19	4,180			\$4,180
Logistics Coordinator (YBC)	151	19	2,869			\$2,869
Travel to Alexin Laboratories (1 hour per sampling day* 8 sampling days per month*18 months) (YBC)	144	15	2,160			\$2,160
Internal Review of Draft Report (YBC)	24	15	360			\$360
Subtotal (2)			9,569	0	46,583	\$56,152
CONTRACTED SERVICES. Labor, supplies, and materials to be provided by <i>non-staff</i> for project implementation.						
Riparian Assessment Technician (YBC)	246	25	6,147			\$6,147
Volunteers for Riparian Assessment (YBC)	35	19	667			\$667
Aquatic Assessment Technician	246	25			6,147	\$6,147
Volunteers for Aquatic Assessment (YBC)	35	19	667			\$667
Volunteers for WQ Monitoring (YBC)	524	19	9,947			\$9,947
GIS Specialist for Solar Radiation Simulations (Newberg)	32	35	1,120			\$1,120
OR Dept Agriculture Water Quality Technical Assistance	48	45	2,160			\$2,160
DEQ Water Quality Training and Technical Assistance	48	45	2,160			\$2,160
ODFW Riparian and Aquatic Habitat Training and Technical Assistance	48	45	2,160			\$2,160
Landowner communication	70	15			1,050	\$1,050
Office space and computer access for monitoring staff (Yamhill SWCD)	24	200	4,800			\$4,800

Field Equipment Storage (Yamhill SWCD)	24	100	2,400			\$2,400
<i>E. coli</i> analyses during regular sampling ((16 sites + 2 duplicates for QA) * 18 samples per site) + (18 field blanks) (Newberg)	342	35	11,970			\$11,970
<i>E. coli</i> analyses during intensive sampling ((16 sites + 2 duplicates for QA) * 5 samples per site * 2 years) +(4 trip blanks * 2 years) (Newberg)	180	35			6,300	\$6,300
Dissolved oxygen analyses ((16 sites + 2 duplicates for QA)*18 samples per site (Newberg)	324	15			4,860	\$4,860
Dissolved oxygen analyses during intensive sampling ((16 sites + 2 duplicates for QA) * 5 samples per site * 2 years) (Newberg)	180	15			2,700	\$2,700
Total phosphorous analyses ((16 sites + 2 duplicates for QA) * 18 samples per site (Newberg)	324	30			9,720	\$9,720
Ammonia analyses (16 sites + 2 duplicates for QA) * 18 samples per site (Newberg)	324	25	8,100			\$8,100
Nitrogen (as nitrate) analyses (16 sites + 2 duplicates for QA) * 18 samples per site (Newberg)	324	20	6,480			\$6,480
Nitrogen (as nitrite) (16 sites + 2 duplicates for QA) * 18 samples per site (Newberg)	324	30	9,720			\$9,720
Total suspended solids analyses (16 sites + 2 duplicates for QA) * 18 samples per site (Newberg)	324	15	4,860			\$4,860
Mercury Analyses (16 sites+ 2 duplicates for QA+ 1 trip blank) * 1 sample per year * 1 year (Newberg)	19	60	1,140			\$1,140
Mercury Analyses - shipping for each day to Columbia Analytical in Kelso, WA (Newberg)	4	125	500			\$500
Subtotal (3)			74,998	0	30,777	105,775
TRAVEL. Mileage, per diem, lodging, etc. Must use current State of Oregon rate.						
Milage for 2 Riparian/Aquatic Assessments (YBC)	476	0.55	262			\$262
Monthly Milage for Water-Quality Monitoring plus 2 E.Coli Intensive Sampling Programs (YBC)	6600	0.55	3,630			\$3,630
Mileage to Alexin Laboratories (8sampling days/month*18months* 1hour)+(4 sampling days*1hour for Ecoli intensive*2 years) (YBC)	4408	0.55	2,424			\$2,424
Subtotal (4)			6,316	0	0	6,316
SUPPLIES/MATERIALS. Refers to items that typically are "used up" during the project. Costs to OWEB must be directly related to the technical assistance. Group similar supplies and materials on the same line.						
250 ml bottles for trip blanks (1bottle per sampling day*8sampling days per month*18 months) (Newberg)	144	2	288			\$288

Liters of distilled water for trip blanks (250ml per blank*8 sampling trips*18 months)(Newberg)	36	1	36			\$36
pH meter buffer solution (pH 7 & 10), 500 mL bottle (DEQ) ((2 ph standards *20ml per sampling day*8days per month*18months)/500 ml per bottle)	12	10	120			\$120
Conductivity Standard Solution, high and low per L (200ml * 8 sampling days * 18 months) (DEQ)	29	11	319			\$319
Bags of ice (8 days sampling * 2 bags/cooler * 18months) & <i>E.coli</i> intensive sampling (4 days * 2 bags * 5 weeks * 2 yrs) + mercury (2 bag/cooler*4days) (YBC)	368	1	368			\$368
Disposable non-latex gloves for handling samples, 100 gloves per box (16 sites*18months*2 people/site)(YBC)	6	15	90			\$90
Coolers for sampling (YBC)	3	15	45			\$45
Digital Camera for Water Quality (YBC)	1	200	200			\$200
Digital Camera for Aquatic/Riparian (YBC)	1	200	200			\$200
Densimeter	1	110			110	\$110
Clinometer/Compass	1	190			190	\$190
Riparian and Aquatic Habitat Field Guides (YBC)	2	15	30			\$30
Standard Methods for the Examination of Water and Wastewater (Newberg)	1	250	250			\$250
Field Gear - Raincoat	4	40			160	\$160
Field Gear - Hip Waders	4	75	300			\$300
Field Gear - Waterproof gloves	4	20			80	\$80
Field Gear - Safety Vests (YBC)	10	32	320			\$320
Field Gear - PFDs (YBC)	4	100	400			\$400
Field Gear - Rubber boots (YBC)	4	48			192	\$192
Field Gear - Traffic Cones (2 vehicles)	10	10			100	\$100
Rite-In-Rain all-weather notebooks	23	20			460	\$460
Fishing line, zip ties & stakes for temperature data loggers	3	9	26			\$26
Equipment Batteries: 28 AA	28	1	28			\$28
Equipment batteries: 12 9-V, 2 /pack	6	7	42			\$42
Equipment batteries: 8 Ds, 4/pack	1	11	11			\$11
Equipment Batteries: 12 rechargeable AAs (4pk price)	3	12	36			\$36
Fieldwork Incidentals e measuring tape, multi-tool pocketknife (YBC)	4	70	280			\$280
Sampling poles (YBC)	3	15	45			\$45
Hand Sanitizer (YBC)	4	4	16			\$16
First Aid Kits (YBC)	3	20	60			\$60
Subtotal (5)			3,510	0	1,292	4,802
PRODUCTION. Design, video production, printing, direct mail, film developing, etc.						
Color printing of charts & photos (3 reports, OWEB copy and YBC copy)	6	100			600	\$600

Report Print & Photo (3 reports, OWEB copy, YBC copy)	6	250			1,500	\$1,500
2011 Interim Report and Final Report sent to stakeholders. (ODFW, Yamhill SWCD, Newberg, Dundee, Oregon DEQ, Oregon Dept of Agriculture, and Yamhill County)	14	250			3,500	\$3,500
Publication of results in Yamhill SWCD and YBC newsletters (YBC and Yamhill SWCD)	2	625	1,250			\$1,250
Use of computer, 2 yrs (Yamhill)	2	250	500			\$500
Postage and handling of reports, 2 yrs (YBC)	2	100	200			\$200
Subtotal (6)			1,950	0	5,600	\$7,550
EQUIPMENT. Refers to items with a useful life of generally 2 years or more. List only portable equipment costing \$250 or more per unit.						
NIST traceable thermometer meter & probe (DEQ)	2	375	750			\$750
18 VEMCO temperature data loggers (1 per site with 2 extra for	18	135	2,430			\$2,430
VEMCO temperature logger computer interface (DEQ)	1	125	125			\$125
YSI 63 portable meter (pH, conductivity, and temperature)	1	1,400			1,400	\$1,400
Hach HI9828 portable meter (pH, conductivity, dissolved oxygen)(Newberg)	1	2,300	2,300			\$2,300
Flow meter (DEQ)	2	550	1,100			\$1,100
Top-setting rod to use while measuring flow (DEQ)	2	355	710			\$710
Garmin Rino 530 HCx (YBC)	2	370	740			\$740
Subtotal (7)			\$8,155	\$0	1,400	\$9,555
PROJECT SUBTOTAL [Add all subtotals (1-7) from above]			\$125,193	\$0	133,941	\$259,134
FISCAL ADMINISTRATION. Not to exceed 10% of Subtotal of OWEB Funds. Costs associated with accounting; auditing (fiscal management); contract management (complying with the terms and conditions of the grant agreement); and fiscal reporting expenses for the OWEB project, including final report expenses (e.g., film developing) for the grant.						
Yamhill SWCD Fiscal Administration					\$13,394	\$13,394
Final Report Expenses					\$400	\$400
Fiscal Administration Subtotal (8)			\$0	\$0	\$13,794	\$13,794
BUDGET TOTAL [Add Project Subtotal and line (8)]			\$125,193	\$0	\$147,735	\$272,928

ATTACHMENT A



MATCH FUNDING FORM

*Document here the match funding
shown on the budget page of your grant application*

OWEB accepts all non-OWEB funds as match. An applicant may not use *another OWEB grant* to match an OWEB grant. However, an applicant who benefits from a pass-through OWEB agreement with another state agency, by receiving either staff expertise or a grant from that state agency, may use those benefits as match for an OWEB grant. (Example: A grantee may use as match the effort provided by ODFW restoration biologists because OWEB funding for those positions is the result of a pass-through agreement).

At the time of application, match funding for OWEB funds requested does not have to be *secured*, but you must show that at least 25% of match funding has been sought. On this form, you do not necessarily need to show authorized signatures (“secured match”), but the more match that is secured, the stronger the application. Identify the type of match (cash or in-kind), the status of the match (secured or pending), and either a dollar amount or a dollar value (based on local market rates) of the in-kind contribution.

If you have questions about whether your proposed match is eligible or not, visit our website at www.oregon.gov/OWEB/GRANTS/grant_app_materials.shtml, or contact your local OWEB regional program representative (contact information available in the instructions to this application).

Project Name: Assessing Riparian Habitat, Aquatic Habitat and Water Quality in the Chehalem Valley Watershed

Applicant: Yamhill Basin Council

Match Funding Source	Type (√one)	Status (√one)*	Dollar Value	Match Funding Source Signature/Date*
Yamhill Basin Council	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$38,000.00	
City of Newberg	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$67,460.00	
OR Dept of Environmental Quality	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$7,713.00	
OR Dept of Fish and Wildlife	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$2,160.00	
OR Dept of Agriculture	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$2,160.00	
Yamhill Soil and Water Conservation District	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$7,700.00	
OWEB	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> pending	\$147,735.00	
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		

* **IMPORTANT:** If you checked the “Secured” box in the status Column for any match funding source, you must provide either the signature of an authorized representative of the match source in the final Column, or attach a letter of support from the match funding source that specifically mentions the dollar amount you show in the Dollar Value Column.

ATTACHMENT B



PUBLIC RECORD CERTIFICATION

Oregon Administrative Rule 695-005-0030(4) states that "All applications that involve physical changes or monitoring on private land must include certification from the applicant that the applicant has informed all landowners involved of the existence of the application and has also advised all landowners that all monitoring information obtained on their property is public record. If contact with all landowners was not possible at the time of application, explain why."

INSTRUCTIONS: All applicants must complete Part One. In Part One, if you check the first box, skip Part Two and sign and date in the signature box below. If you check the second box, you must complete Part Two and sign and date in the signature box below.

PART ONE

- ☐ Public land only (STOP: go to signature box and complete)
- ☒ Private land only, or a mix of public and private land (complete Part Two and sign and date in the signature box)

PART TWO

- ☐ I certify that I have informed all participating private landowners involved in the project of the existence of the application, and I have advised all of them that all monitoring information obtained on their property is public record. The following is a complete list of all participating private landowners. Add more lines if needed.

1.	5.
2.	6.
3.	7.
4.	8.

- ☒ I certify that contact with all participating private landowners was not possible at the time of application for the following reasons: Most of the sites were chosen because of previous activity or the availability of public access. Because of time constraints, it was not possible to contact all landowners with adjacent property.

Furthermore, I understand that should this project be awarded, I will be required by the terms of the OWEB grant agreement to secure cooperative landowner agreements with all participating private landowners prior to expending Board funds on a property.

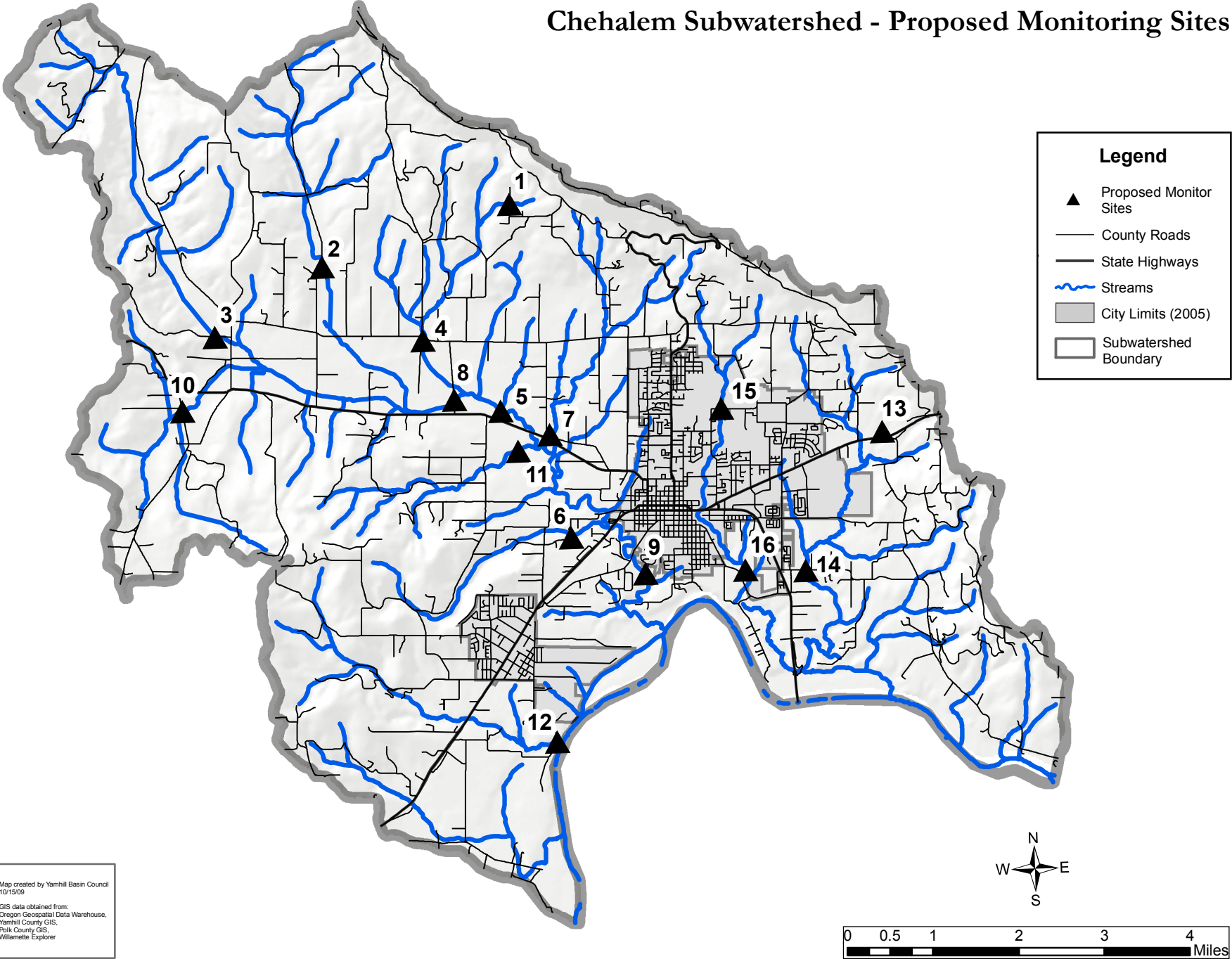
APPLICANT/CO-APPLICANT SIGNATURE

Applicant Signature	Date
Print Name	Title
Co-Applicant Signature	Date
Print Name	Agency

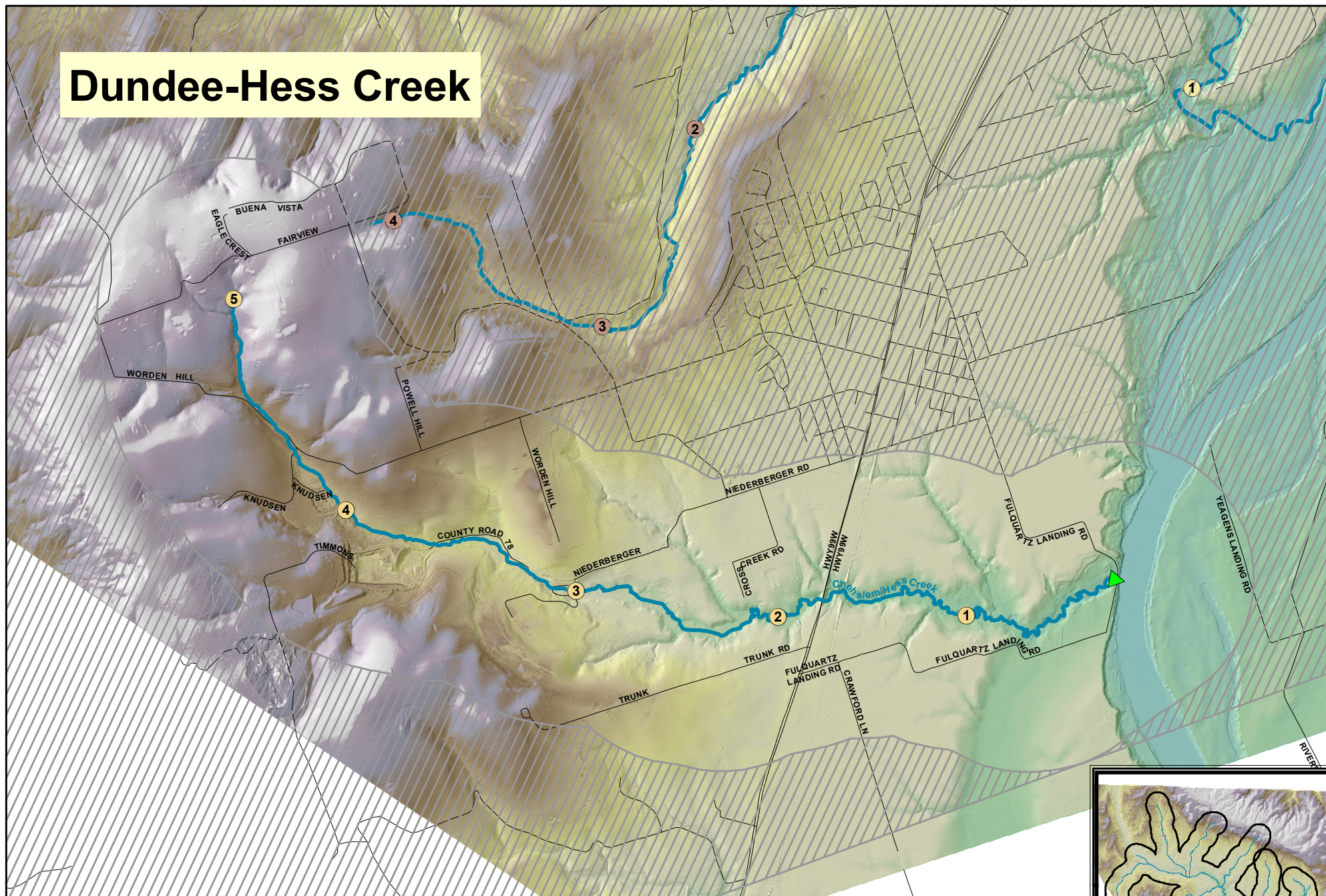
ATTACHMENT C
PROJECT SCHEDULE FROM APRIL 2010 TO MARCH 2012

Assessing Riparian Habitat, Aquatic Habitat and Water Quality in the Chehalem Valley Watershed																														
April 2011 to March 2012 Project Schedule																														
	Hours			2010												2011												2012		
	2010	2011	2012	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
Project Coordination																														
Project Meetings	72	86	9																											
Project Liason	370	490	140																											
Monthly Updates to YBC	21	27	6																											
Quarterly Updates to Partners	60	60	0																											
Yearly Updates to Public	0	45	45																											
Total Project Coordination	523	708	200																											
Riparian Habitat Coordination																														
Training	8	0	0																											
Confirm Field Sites	4	0	0																											
Field Work	84	84	0																											
Project Meetings	36	52	6																											
Total Riparian Habitat Coordination	132	136	6																											
Aquatic Habitat Coordination																														
Training	8	0	0																											
Confirm Field Sites	4	0	0																											
Field Work	108	112	0																											
Project Meetings	36	52	6																											
Total Aquatic Habitat Coordination	156	164	6																											
Water Quality Monitoring Coordination																														
Training	16	0	0																											
Confirm Field Sites	8	0	0																											
Field Work - temperature loggers	304	424	0																											
Field Work - regular schedule	480	672	0																											
Field Work - E.Coli Intensive Schedule	32	32	0																											
Project Meetings	54	66	6																											
Total Water Quality Monitoring Coordination	894	1194	6																											
Data Management																														
Data Input	70	116	0																											
Data Validation	64	116	0																											
Total Data Management	134	232	0																											
Volunteer Coordination/Public Outreach																														
Public Outreach	68	38	0																											
Scheduling Volunteers	40	34	0																											
Meet with Volunteer prior to Field Work	10	12	0																											
Write Thank-you Letters	7	11	0																											
Total Volunteer Coordination	125	95	0																											
Logistics Coordination																														
Order or Buy Supplies	41	21	0																											
Calibrate and maintain equipment	38	51	0																											
Total Logistics Coordination	79	72	0																											
Report Coordination																														
Data Analysis/ Quarterly Summaries	48	96	0																											
Background Research	52	0	0																											
Annual Report Generation																														
Draft Report	120	0	0																											
YBC Comments & Revisions	0	8	8																											
Partner Comments/Revisions	0	8	8																											
Annual OWEB Report	0	24	24																											
Final Project Report Generation																														
Draft Report	0	120	0																											
YBC Comments & Revisions	0	0	0																											
Partner Comment/Revisions	0	0	0																											
Final OWEB report	0	0	24																											

Chehalem Subwatershed - Proposed Monitoring Sites



Dundee-Hess Creek



Legend

Mile Posts in Creeks

- Bronson Creek
- Bryan Creek

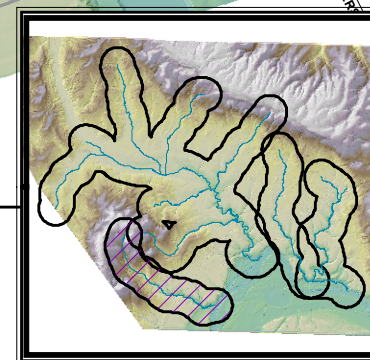
- Chehalam Creek
- Chehalam/Hess Creek
- Dopp Creek

- Harvey Creek
- Hess Creek
- Springbrook Creek

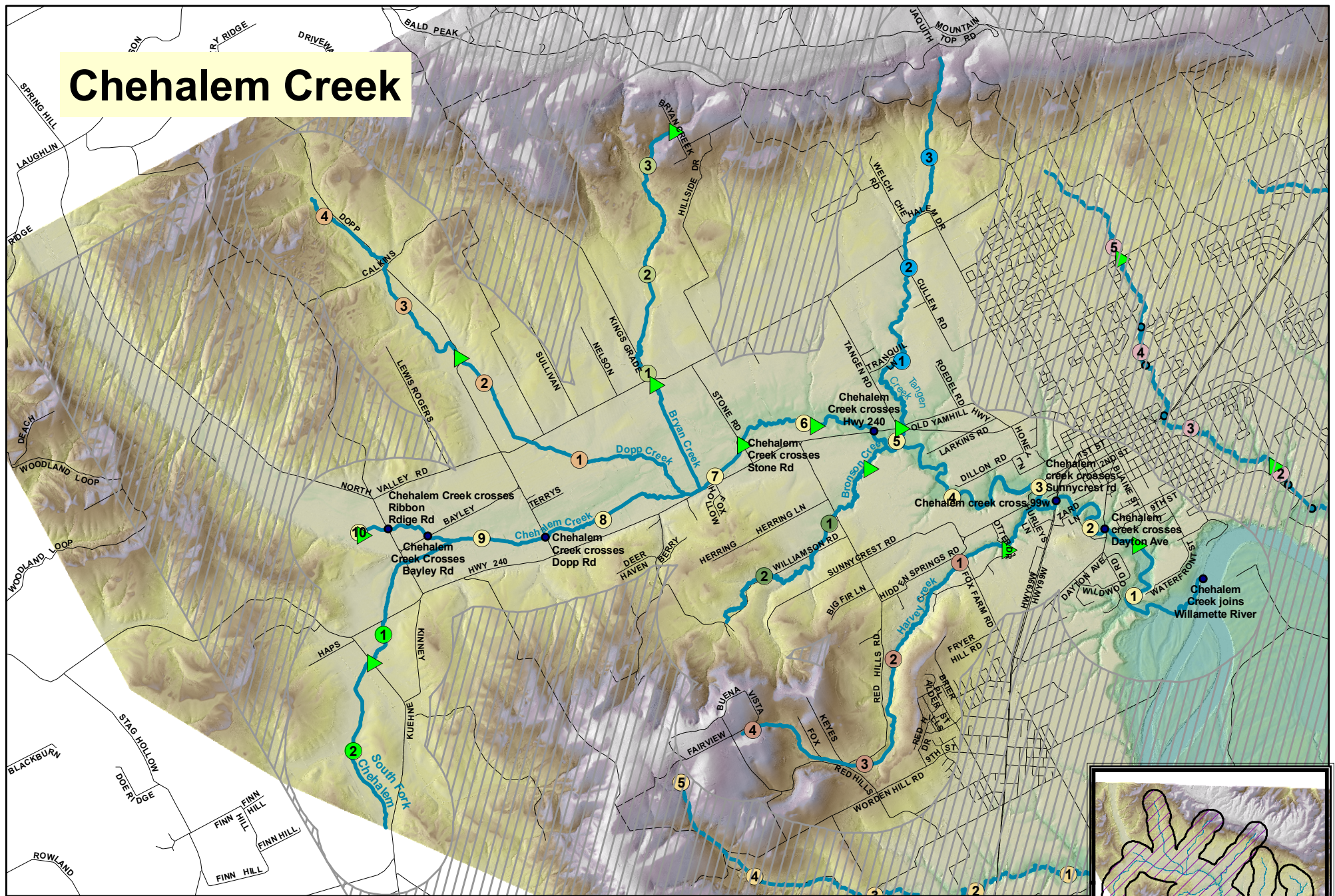
- South Fork Chehalam Creek
- Tangen Creek

- Creeks with Mile Posts
- Roads

- ▲ Monitoring Stations (existing and proposed)



Chehalem Creek



Legend

Mile Posts in Creeks

- Bronson Creek
- Bryan Creek

- Chehalem Creek
- Chehalem/Hess Creek
- Dopp Creek

- Harvey Creek

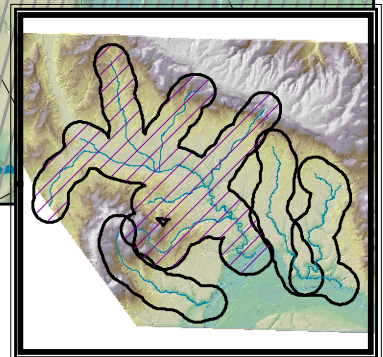
- Hess Creek
- Springbrook Creek

- South Fork Chehalem Creek
- Tangen Creek

- Creeks with Mile Posts

- Roads

- ▲ Monitoring Stations (existing and proposed)



Newberg-Hess Creek



Legend

Mile Posts in Creeks

- Bronson Creek
- Bryan Creek

- Chehalem Creek
- Chehalem/Hess Creek
- Dopp Creek

- Harvey Creek

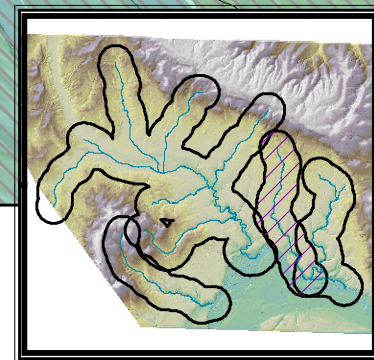
- Hess Creek
- Springbrook Creek

- South Fork Chehalem Creek
- Tangen Creek

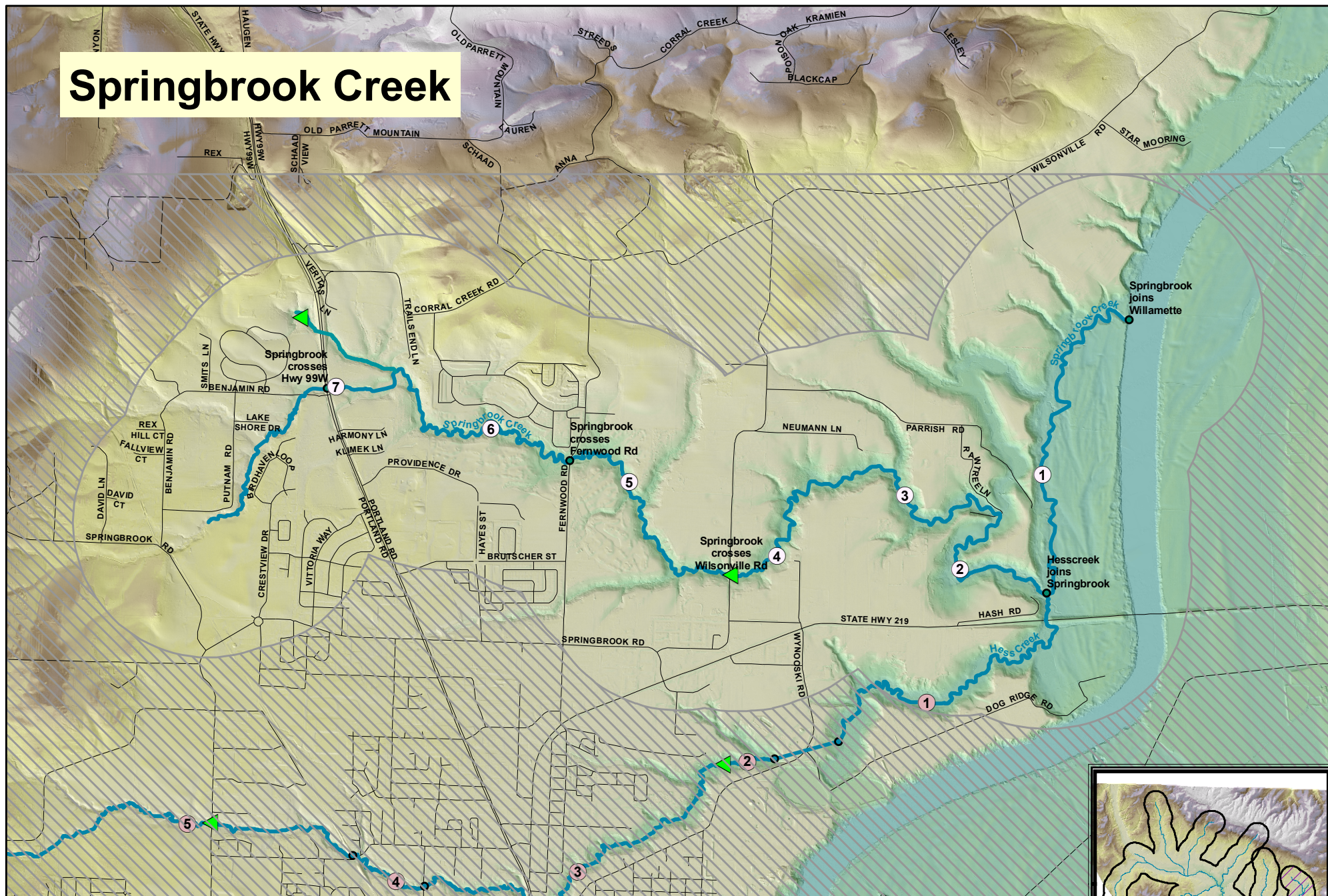
- Creeks with Mile Posts

- Roads

- Monitoring Stations (existing and proposed)



Springbrook Creek



Legend

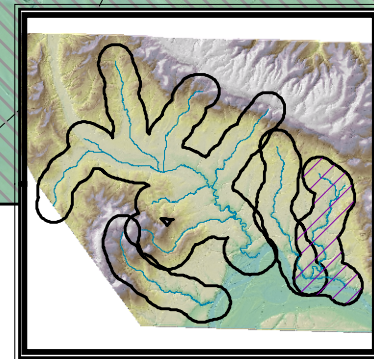
Mile Posts in Creeks

- Bronson Creek
- Bryan Creek
- Chealem Creek
- Chealem/Hess Creek
- Dopp Creek
- Harvey Creek
- Hess Creek
- Springbrook Creek

- South Fork Chealem Creek
- Tangen Creek

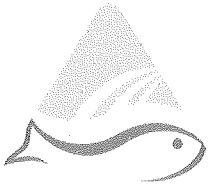
- Creeks with Mile Posts
- Roads

- ▲ Monitoring Stations (existing and proposed)



Last Update: Friday, October 16, 2009

File: P:\GIS_LandInfo\yamhillbasincouncilwork_mapbook.mxd



Yamhill Basin Council

800 NE 2nd Street
P.O. Box 1517
McMinnville, OR 97128
Phone: 503.474.1047
Fax: 503.472.2459
www.co.yamhill.or.us/ybc

Stan Christensen: Chair
Yamhill County SWCD

Leonard A. Rydell: Vice-Chair
Yamhill Co. Small Woodlands
Assoc.

Terry Anthony
Student

Courtney Ashford
Watershed Resident

Kris Bledsoe
Watershed Resident

Eric Butler
Student Representative

Steve Covey
City of McMinnville

Lawrence Fain
City of Newberg

Patricia Farrell
Watershed Resident

Annette Frank
Watershed Resident

Kathy George
Yamhill County Commissioner

Dave Hanson
Native Plant Society of Oregon

Mike Heath
Simson Lumber

Brandy Humphreys
Confed. Tribes of Grand Ronde

Richard McJunkin
Watershed Resident

Alan Mustain
City of Dundee

David Riedman
Watershed Resident

Bruce Sigloh
Watershed Resident

Tom Thompson
Polk County/SWCD

Mark Vroman
Hampton Tree Farms

Steven Wegner
Bureau of Land Management

Steve Wendell
McMinnville Water & Light

Staff:
Jean Reiher
Watershed Coordinator

Denise Schmit
Water Quality Monitoring Tech.

Corissa Kunze
Water Quality Assistant

July 13, 2009

Howard Hamilton
Public Works Director
City of Newberg
P.O. Box 970
Newberg, OR 97132

Dear Mr. Hamilton,

Thank you and the City of Newberg for supporting the Yamhill Basin Council (YBC) by providing \$1000 for operational support for the 2009-2010 fiscal year. Your support, especially during these difficult economic times, provides valuable match to grants from the Oregon Watershed Enhancement Board, the Polk SWCD, and other local agencies. The funds will be used to pay for essential operational costs such as copies, computer service, meeting and office supplies, and training for staff and council members, all of which are essential, enabling us to apply for additional grants to develop and implement projects and events.

The YBC is focused on conducting activities that will improve water quality and watershed stewardship in the Yamhill River and Chehalem watersheds. In 2009-2010, the Council will be undertaking a number of projects, including stream clean-ups, streamside plantings, fish habitat enhancement, water quality monitoring, and education and outreach for children and adults throughout the basin. We will soon begin doing outreach to landowners along the lower reaches of Hess Creek and Springbrook Creek to encourage and plan for habitat restoration projects. We are also we are involved with the trails project through Newberg, and we are planning programs to educate people about stormwater issues in our local communities.

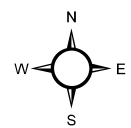
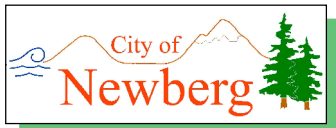
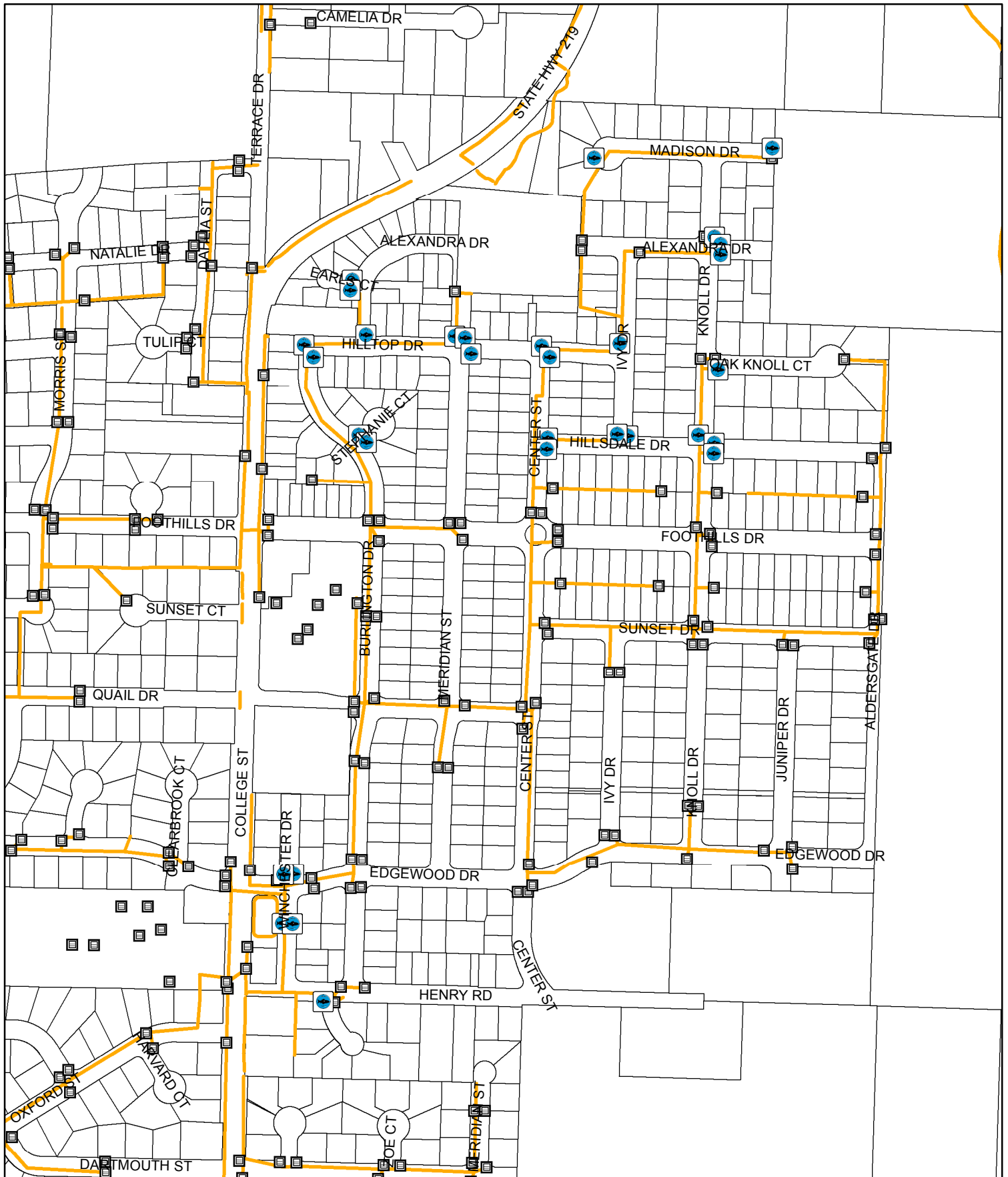
Supporting the Council provides citizens of the Yamhill Basin with an opportunity to work together in a collaborative way to improve the conditions of our watershed. We thank you for your support.




Sincerely,

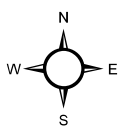
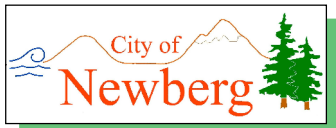
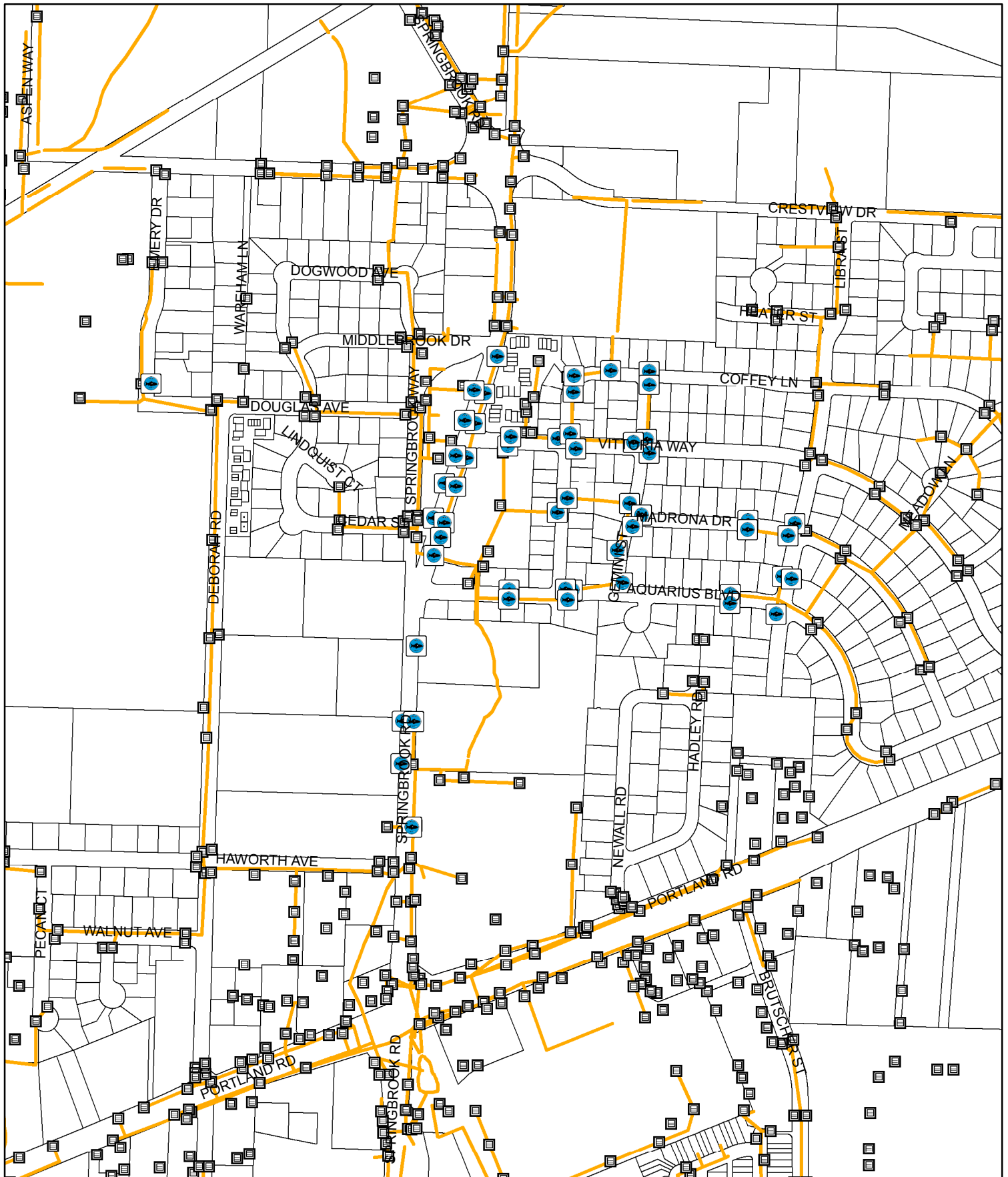
Jean Reiher
Watershed Coordinator
Yamhill Basin Council




Appendix D

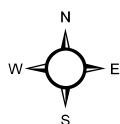
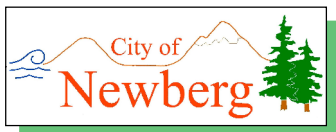
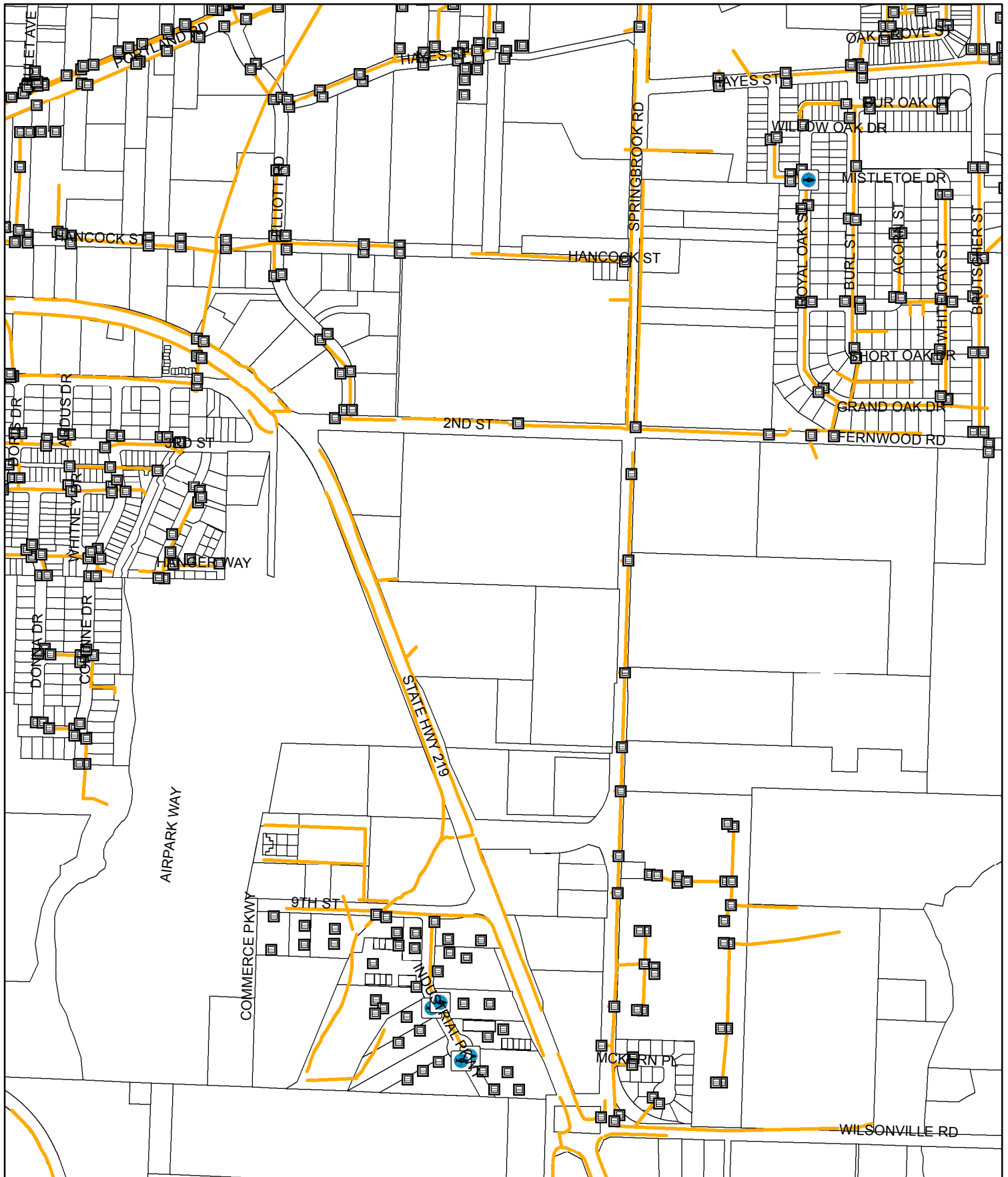
Maps of Catchbasins with Environmental Marking






- Legend**
-  Marked Catchbasins
 -  Catchbasins
 -  Storm Sewer Lines

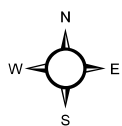
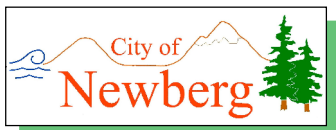
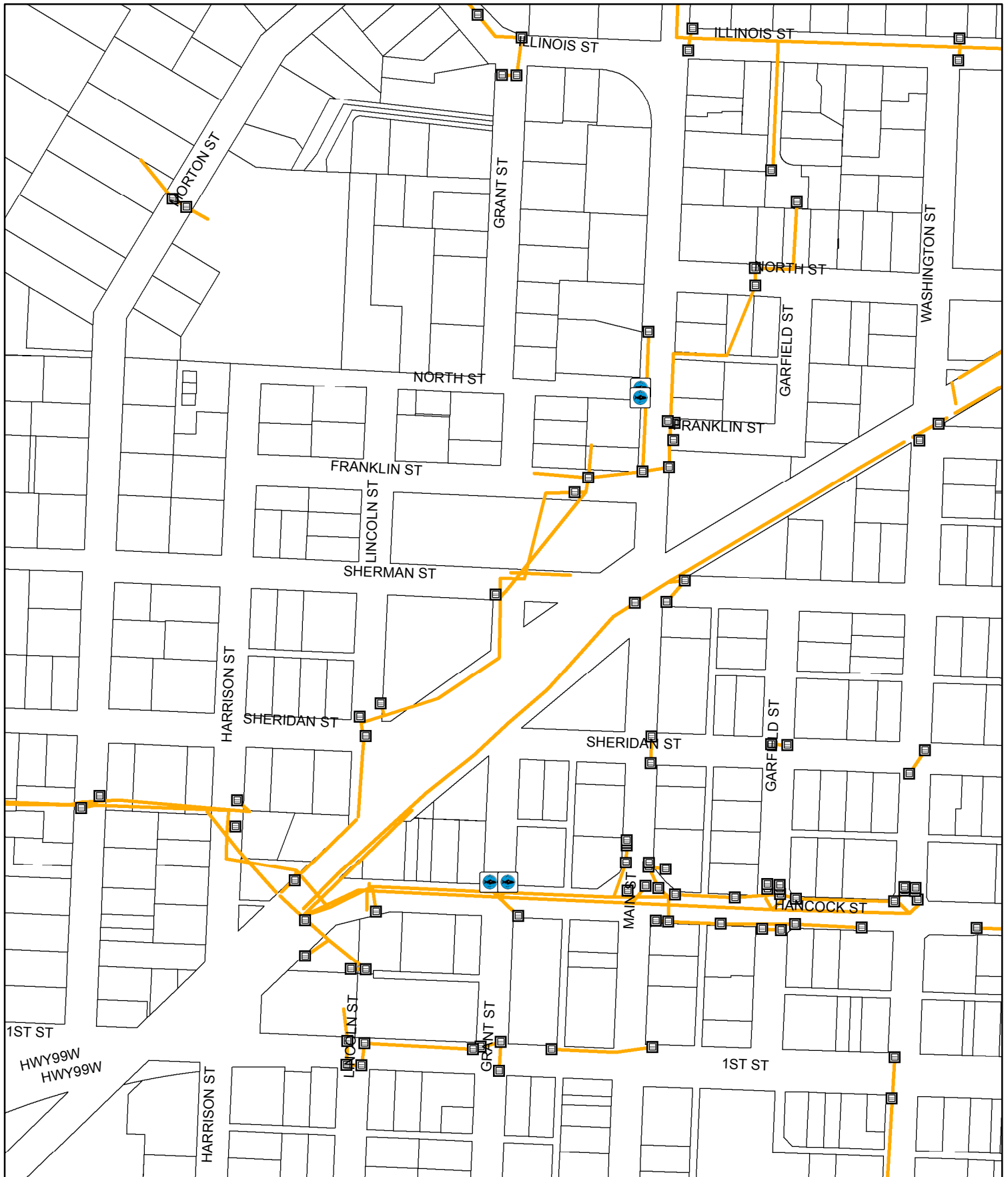


- Legend**
-  Marked Catchbasins
 -  Catchbasins
 -  Storm Sewer Lines






Legend

-  Marked Catchbasins
-  Catchbasins
-  Storm Sewer Lines



Legend

-  Marked Catchbasins
-  Catchbasins
-  Storm Sewer Lines