



2015-2020
TMDL Implementation Plan
Updated Matrix



2015-2020
Public Works Department
City of Woodburn
Prepared January 2016

Appendix A

Matrix 1 Bacteria

POLLUTANT: Bacteria								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTON E <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
PE-1	Reduce inputs of bacteria	a. Educate homeowners on requirements and how to detect failures	i. Provide information on Website	Funded, Staff Time		Once every year for one/two months	Complete practice	<i>Complete</i> <i>-2010 Developed Website format.</i> <i>- Every year provided educational materials at Public Participation Events.</i>
PE-2			ii. Provide info at City's booth at Public Works Week	No additional resources needed	Number of contacts	Once each year	Scheduled for Spring of 2010	<i>Complete</i> <i>-Public Works Week events were held in 2011,2013,2014,2015</i> <i>-Participation in other yearly events such as Drug Safe Event, Day of the Child, Earth Day, Pudding River Basin Community Fair, Woodburn Fire District Open House,</i>
PE-3			iii. Provide information in Water Newsletter	No additional resources needed	Number of contacts and follow up response	Once in 2010	Jan/Feb 2010 Newsletter	<i>Complete</i> <i>-Mailed information in 2010, 2011 and 2012 Water Resources News Letter.</i>
PE-4		a. Continue River Ranger Program	i. Animal waste topic is part educational program this has a back yard focus	Funded	Track contract numbers	Ongoing	Expand to other jurisdictions in Pudding River Watershed, 2011	<i>Complete</i> <i>-Performed River Ranger Program every year at various venues.</i>

PE-5		a. Public Outreach covering bacteria issues and concerns	i. Prepare resource list for the public. Storm water links to include local educational and regulatory resources	Funded, Staff time	Post on Website, Provide as handouts at community events	Ongoing	Modify webpage by end of 2010	<i>Complete</i> <i>-2011 Developed website format.</i> <i>-Community Event participation every year</i>
PE-6			ii Provide TMDL Implementation Plan for Public Review and Education	Funded, Staff time	Post on Website after DEQ approval. Mail electronic version to residents, RSS feed	June 2010	Upon DEQ approval post plan	<i>Complete</i> <i>-2011 Developed format on website and copies available at Public Works Annex</i> <i>-2012 Updated TMDL plans posted on city's website, hard copies available at Public Works Annex.</i>
PE-7			iii Earth Day Event, Provide education material on Protecting the Watershed	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete</i> <i>- Participated every year. Provided educational handouts on various water quality issues. Performed sessions of the River Ranger Program.</i>
PE-8			iv. Plant Tours, Provide education information in protecting the Watershed during Plant tours to Public	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete</i> <i>-Provide tours to Students (Grade Schools to Universities), Boy Scouts, Foreign Dignitaries, Research Groups, City Councilors.</i>
PI-1	1. Failing septic systems	a. Ensure repair of failing systems; City Ordinance prohibits the installation permits for new systems	i. Respond to reports of failing systems; work with homeowner to set a timeline for repair and connection to city wastewater	Funded, Staff time	Track # of reports, outcome of inspection (failing or not) and date of follow-up that confirmed repairs were made	Ongoing	Enforce practice	<i>Complete</i> <i>-2011, 2012 Investigate septic systems complaints and following up on repairs.</i> <i>-2013, 2014, 2015 no issues</i>

PI 2	2. Bacteria carried to waterways in storm runoff	a. Prevent pet waste from reaching waterways	ii. Continue installation and maintenance of pet Waste Stations	Funded	Maintain stations and monitor bag supply	Ongoing thru end of 2010; evaluate effectiveness based upon rate of use	Have stations in all parks by end of 2014	<p><i>Complete</i></p> <ul style="list-style-type: none"> -2011 installed waste station in 3 parks, and 5 stations on Greenway Trail. Constructed a Dog Park adjoining Centennial Park which is heavily used and monitored. -2012 -2014 Installed waste stations in 70% of improved Parks. -All stations are cleaned every day.
PI-3			iii Partnering with Schools and Community Organization in partnering in BMP execution	Funding depends on activity, Staff Time	Track Implementation of BMP	Ongoing	Complete BMP	<p><i>Complete</i></p> <ul style="list-style-type: none"> -2010 Working on Developing City Program to share at events. -2014 BMP's for City maintenance activities complete. - Every year continue providing resources to and participate with Pudding River Watershed Council and the Woodburn School System for regional approach Water Quality.
PI-4		b. Prevent dumping into storm drains	iv Storm inlet Marking (Do Not Dump Waste)	Budget for fiscal year 2010/11	Number of Markers installed	2010, Ongoing	Determine type of marker, Mark 20% of system 2010	<p><i>Complete</i></p> <ul style="list-style-type: none"> - Purchased Storm inlet markers every year. To be installed with development of mapping system structures with unique number for GIS. -Had partnered with Boy Scouts to placed markers. Boy Scouts Placed approximately 300 Storm inlet markers in 2012. -200 markers were installed in 2014 by City's Force and 100 markers in 2015.

CS -1	Reduce Sediment from reaching waterways	Prevent material from reaching waterways	i Conduct Staff Training in regard to current Regulatory requirement	Funded	Track Meeting and findings	2010	Coordinate with stakeholders	<i>Complete</i> <i>- Continue staff training of regulatory requirements for activities affecting waters of the state</i>
CS -2			ii Continue requiring DEQ 1200 Series Permits on construction sites.	Funded, Staff time	Track staff progress	2010,	Coordinate with Public Works Engineering Division	<i>Complete</i> <i>-Engineering Department coordinates and monitor with contractors on the requirements of the 1200 series DEQ Permits.</i>
CS-3		Erosion Control	iii Develop and implement program to address erosion control for sites under one acre	Funded, Staff	Complete	2014	Complete task	<i>Complete</i> <i>-All construction sites are being monitored.</i> <i>- City's requirements follows the current Oregon Standard Specifications for Construction for all projects in addition to the 1200 series DEQ permits.</i> <i>-Minimal new development or reconstruction projects from 2010-2015.</i>
DS-1		Post Construction Flow Control	Modify/ develop plan/programs to incorporate Low Impact Development	Funded, Staff	Complete	2015	Complete task	<i>Incomplete</i> <i>-Construction sites are being monitored.</i> <i>-During the plan review process Engineering promotes the use of LID methods.</i>
ID 1		c. Prevent human waste (from cross connections), oil, grease, paint, and other pollutants from entering the storm system	i Continue Administration and public education of existing Sewer Use Ordinance No 2176	Funded, Staff time	Track issues and results	Ongoing	Quantify incidents, action, results and inquiries.	<i>Complete</i> <i>-2011-2015 Tracking incidents as part of the SWQMP in CMMS.</i> <i>Continue participation at public events.</i>

ID 2			ii Internal Training	Funded, Staff time	Conduct Training	2010	Complete Task	<i>Complete -Sharing SWQMP & BMP's with other maintenance sections.</i>
ID 3		Reinforce, Develop and implement Illicit discharge Program	Develop Regulatory Mechanism illicit discharge	Staff time	Implementation	2014	Complete Task	<i>Complete -continue effort to reinforce current Illicit Discharge Ordinances and Programs.</i>
OM-1			iii Inlet Cleaning	Funded, Staff time	Track Progress	2010, Ongoing	Clean 15% of City system Annually	<i>Complete -2011 Cleaning 456 catch basins. -2012 & 20013 clean approx.. 400 catch basins each year -2014 approx. 200 catch basin were cleaned -2015 89 catch basin were cleaned.</i>
OM-2			iv Storm Drain Pipe and Culvert Cleaning	Funded, Staff time	Track Progress	2010, Ongoing	Clean 15% of City system annually	<i>Complete -2011-2012 Clean 15% laterals lines from catch basins to mainline each year -2014 Clean and mapped 21,500 lineal feet of storm sewer collection system -2015 Clean and mapped 3, 520 lineal feet of storm sewer collection system. - Ongoing Mapping storm water system as cleaned; updating current GIS map.</i>
OM-3			v Street Sweeping	Funded	Track Progress	2010, Ongoing	Clean all Streets within City Jurisdiction monthly	<i>Complete -2011-2013 Streets swept monthly -2014-2015 Street swept monthly by private contractor, additional swept by city's forces during the fall as needed.</i>

OM-4		Map/GIS System	vi Continue Efforts in Mapping and GIS Effort of existing Storm Water System	Funded, Staff time	Complete new system mapping annually	2010, Ongoing	Complete Mapping and entering into GIS format 2015	<i>Complete</i> - <i>Mapping storm water system as cleaned, updating current GIS map.</i>
OM-5		Continue I & I program as required by the Current NPDES permit	vii Continue efforts to identify cross connections between the Sanitary and Storm sewer collection system	Funded, Staff time	Corrections, inflow removal	2010, Ongoing	Annual program	<i>Complete</i> - <i>Report Completed for every fiscal year</i>
OM-6		Public Works Staff Training	viii Implement Internal Training in preventing/reducing Bacteria	Funded, Staff time	Conduct Training	2010, Ongoing	Complete Task	<i>Complete</i> - <i>Continue to Develop and train staff on BMP's for public works maintenance activities.</i> - <i>Providing documentation on SWQMP & BMP's with other maintenance sections.</i>

Matrix 2 Mercury

<i>POLLUTANT: Mercury</i>								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTONE <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
PE-1	Reduce Sediments delivered to waterways	a. Public Outreach covering mercury issues and concerns	i Prepare resource list for the public. Storm water links to include local educational and regulatory resources	Funded, Staff time	Post on Website, Provide as handouts at community events	Ongoing	Modify webpage by end of 2010	<i>Complete</i> - <i>2010 Developed Website Format..</i> - <i>Every year provided educational materials at Public Participation Events,</i>

PE-2			ii Continue River Ranger Program	Funded	Track contract numbers	Ongoing	Expand to other jurisdictions in Pudding River Watershed, 2011	<i>Complete</i> -Presented River Ranger Program to Woodburn Schools and community events.
PE-3			iii Provide TMDL Implementation Plan for Public Review and Education	Funded, Staff time	Post on Website after DEQ approval. Mail electronic version to residents, RSS feed	2010	DEQ approval and posting/mailing	<i>Complete</i> -2011 Developed format on website and copies available at Public Works Annex -2012 Updated TMDL plans posted on city's website, hard copies available at Public Works Annex.
PE-4			iv Earth Day Event, Provide education material on Protecting the Watershed	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete</i> Participated every year. Provided educational handouts on various water quality issues, tools to properly dispose of household grease, performed sessions of the River Ranger Program
PE-5			v Plant Tours, Provide education information in protecting the Watershed during Plant tours to Public	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete</i> Provided tours to all ages of students, Grade school to Universities, Boy Scouts to Foreign Dignitaries, and Research Groups to City Councilors. Provided education material during tours

PI-1			i Partnering with Schools and Community Organization in partnering in BMP execution	Funding depends on activity, Staff Time	Track Implementation of BMP	Ongoing	Complete BMP	<p><i>Complete</i></p> <p><i>-2010 Working on Developing City Program to share at events.</i></p> <p><i>-2014 BMP's for City maintenance activities complete.</i></p> <p><i>- Every year continue providing resources to and participate with Pudding River Watershed Council and the Woodburn School System for regional approach Water Quality</i></p>
PI-2			ii Storm inlet Marking (Do Not Dump Waste)	Budget for fiscal year 2010/11	Number of Markers installed	2010, Ongoing	Determine type of marker, Mark 20% of system 2010	<p><i>Complete</i></p> <p><i>Purchased Storm inlet markers every year. To be installed with development of mapping system structures with unique number for GIS.</i></p> <p><i>Had partnered with Boy Scouts to placed markers. Boy Scouts Placed approximately 300 Storm inlet markers in 2012. 200 markers were installed in 2014</i></p>
ID-1		a. Illicit Discharge Detection	i Continue Education of local Dentistry offices through the Pre-treatment Program	Funded, Staff time	Continue Public Education, Contact new and dentist office at start up	Ongoing	Number contacts	<p><i>Complete</i></p> <p><i>-Pre-treatment coordinator continues to contact new and existing dentists.</i></p>

ID-2			ii Continue providing Hazardous Household Waste Event through the Pretreatment Program	Funded, Staff time	Continue participation and coordinating event with Marion County Public Works	Event held in Spring, Ongoing	Hold Event	<i>Complete Held HHW collection Event 2011, 2016, 2015. Event sponsored by Marion County & City of Woodburn, free mercury thermometer trade-in.</i>
ID-3			iii Continue administration and public education of exiting Sewer Use Ordinance No. 2176	Funded, Staff time	Track issues and results	Ongoing	Quantify incidents, actions, results	<i>Complete Tracking incidents as part of SWQMP in CMMS. Continuing education of public through participation @ various outreach events.</i>
ID-4		Reinforce, Develop and implement Illicit discharge Program	Develop Regulatory Mechanism illicit discharge	Staff time	Implementation	2015	Complete Task	<i>Complete -Continue effort to reinforce current Illicit Discharge Ordinances and Programs</i>
CS -1		Prevent material from reaching waterways	i Conduct Staff Training in regard to current Regulatory requirement	Funded	Track Meeting and findings	2010	Coordinate with stakeholders	<i>Complete -Continue staff training of regulatory requirements for activities affecting waters of the state.</i>
CS -2			ii Continue requiring DEQ 1200 Series Permits on construction sites.	Funded, Staff time	Track staff progress	2010,	Coordinate with Public Works Engineering Division	<i>Complete -Engineering Department coordinates and monitors with contractors on the requirements of the 1200 Series DEQ Permits.</i>

CS-3		Erosion Control	iii Develop and implement program to address erosion control for sites under one acre	Funded, Staff	Complete	2015	Complete task	<p><i>Complete</i></p> <ul style="list-style-type: none"> -All construction sites are being monitored. - City's requirements follows the current Oregon Standard Specifications for Construction for all projects in addition to the 1200 series DEQ permits. -Minimal new development or reconstruction projects from 2010-2015.
DS-1		Post Construction Flow Control	i v Modify Develop plan/programs to incorporate Low Impact Development	Funded, Staff	Complete	2015	Complete task	<p><i>Incomplete</i></p> <ul style="list-style-type: none"> -Continue efforts to incorporate Low Impact Development
OM-1		Map/GIS System	v Continue Efforts in Mapping and GIS Effort of existing Storm Water System	Funded, Staff time	Complete new system mapping annually	2010, Ongoing	Complete Mapping and entering into GIS format 2015	<p><i>Complete</i></p> <ul style="list-style-type: none"> -Mapping storm water system as cleaned, updating current GIS map.
OM-2		Public Works Staff Training	vi Implement Internal Training in preventing/reducing Mercury	Funded, Staff time	Conduct Training	2010, Ongoing	Complete Task	<p><i>Complete</i></p> <ul style="list-style-type: none"> - Continue to Develop and train staff on BMP's for public works maintenance activities. -Providing documentation on SWQMP & BMP's with other maintenance sections.

Matrix 3 Temperature

POLLUTANT: Temperature								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTONE <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
PE-1	Increase effective shade through restoration protections and natural stream hydrology	a. Public Education	i. Provide information on Website	Funded, Staff Time		Once every year for one/two months	Complete Task	<i>Complete -2010 Developed Website Format.. - Every year provided educational materials at Public Participation Events,</i>
PE-2			ii. Provide info at City's booth at Public Works Week	No additional resources needed	Number of contacts	Once each year	Scheduled for Spring of 2010	<i>Complete - Participate at Public Works Week events that were held in 2011,2013,2014,2015 -Participation in other yearly events such as Drug Safe Event, Day of the Child, Earth Day, Pudding River Basin Community Fair, Woodburn Fire District Open House,</i>
PE-3			iii. Provide information in Water Newsletter	No additional resources needed	Number of contacts and follow up response	Once in 2010	Complete Task	<i>Complete -Provide yearly information in water newsletter.</i>

PE-4			iv. Continue River Ranger Program	Funded	Track contract numbers	Ongoing	Expand to other jurisdictions in Pudding River Watershed, 2011	<i>Complete, Presented River Ranger Program to Woodburn Schools and community event at the Oregon Garden.</i>
PE-5			v. Earth Day Event, Provide education material on temperature reduction	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete Participated in 201, 2012. . Provided educational handouts on various water quality issues, tools to properly dispose of household grease, performed sessions of the River Ranger Program</i>
PE-6			vi. Wastewater Treatment Plant Tours, Provide education on City efforts on reducing temperature	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete Provided Plant tours to all ages of students, Grade school to Universities, Boy Scouts to Foreign Dignitaries, Research Groups to City Councilors. Provided education material during tours.</i>
CS-1	1. Water Resources Activity	a. Enhance degraded riparian area along Mill Creek	i. Mitigate degraded riparian areas, provide riparian restoration, wetlands	\$430,000 Funded, Staff time	Degraded Areas will be restored to provide cooling along with nutrient Removal and toxics removal	2015	Begin pre-design, 2010	<i>Deleted Lost Funding</i>

DS-1	Solar Radiation	a. Administer Woodburn Development Ordinance 2313	i Continue implementation of the Riparian Corridor and Wetlands Overlay District	Funded, Staff time	Number of Applications and enforcement	Ongoing	Protection of existing Riparian areas, ongoing	Complete -Current Ordinance Being followed, in addition, discontinued maintenance practice of vegetation removal in waterways other than obnoxious species.
OM-1		Public Works Staff Training	i Implement Internal Training in preventing/reducing Temperature	Funded, Staff time	Conduct Training	2010, Ongoing	Complete Task,	Complete -Continue to Develop and train staff on BMP's for public works maintenance activities. -Providing documentation on SWQMP & BMP's with other maintenance sections.

Matrix 4 Pesticides

POLLUTANT: Pesticides								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTONE <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
PE-1	Pesticides associated with precipitation, higher stream flows and pipe systems and erosion	a. Public Outreach covering pesticide issues and concerns	i Prepare resource list for the public. Storm water links to include local educational and regulatory resources	Funded, Staff time	Post on Website, Provide as handouts at community events	Ongoing	Modify webpage by end of 2010	<i>Complete -2010 Developed Website Format.. - Every year provided educational materials at Public Participation Events, -Hard copy available at Public Works Annex since 2011</i>
PE-2			ii Continue River Ranger Program	Funded	Track contract numbers	Ongoing	Expand to other jurisdictions in Pudding River Watershed, 2011	<i>Complete -A number of sessions are presented of the River Ranger Program to Woodburn Schools and community events every year.</i>

PE-3			iii Provide TMDL Implementation Plan for Public Review and Education	Funded, Staff time	Post on Website after DEQ approval. Mail electronic version to residents, RSS feed	2010	DEQ approval and posting/mailing	<i>Complete -2011 Developed format on website and copies available at Public Works Annex -2012 Updated TMDL plans posted on city's website, hard copies available at Public Works Annex.</i>
PE-4			iv. Earth Day Event, Provide education material on Protecting the Watershed	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete Participated in 2011, 2012, 2013, 2014 events. Provided educational handouts on various water quality issues, tools to properly dispose of household grease. Performed sessions of the River Ranger Program.</i>
PE-5			v. Provide education information in protecting the Watershed during Plant tours to Public	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete Provided tours to all ages of Students, Citizens and various Service Groups. Provided education material during tours</i>

<p>PI-1</p>			<p>vi Partnering with Schools and Community Organization in BMP execution</p>	<p>Funding depends on activity, Staff Time</p>	<p>Track Implementation of BMP</p>	<p>Ongoing</p>	<p>Complete BMP</p>	<p><i>Complete</i> <i>-2010 Working on Developing City Program to share at events.</i> <i>-2014 BMP's for City maintenance activities complete.</i> <i>- Every year continue providing resources to and participate with Pudding River Watershed Council and the Woodburn School System for regional approach Water Quality</i></p>
<p>PI-2</p>			<p>vii Storm inlet Marking (Do Not Dump Waste)</p>	<p>Budget for fiscal year 2010/11</p>	<p>Number of Markers installed</p>	<p>2010, Ongoing</p>	<p>Determine type of marker, Mark 20% of system 2010</p>	<p><i>Complete</i> <i>-Purchased Storm inlet markers every year. To be installed with development of mapping system structures with unique number for GIS.</i> <i>-Had partnered with Boy Scouts to placed markers. Boy Scouts Placed approximately 300 Storm inlet markers in 2012.</i> <i>200 markers were installed in 2014</i></p>

ID-1		a. Illicit Discharge Detection	i Continue administration and public education of exiting Sewer Use Ordinance No. 2176	Funded, Staff time	Track issues and results	Ongoing	Quantify incidents, actions, results	<i>Complete Tracking incidents as part of SWQMP in CMMS every year. This is mainly administered through our Wastewater Section, through our Industrial Waste Coordinator and Public Outreach. Continuing</i>
ID-2		Reinforce, Develop and implement Illicit discharge Program	Develop Regulatory Mechanism illicit discharge	Staff time	Implementation	2014	Complete Task	<i>Complete Continue effort to reinforce current Illicit Discharge Ordinances and Programs.</i>
CS -1		Prevent material from reaching waterways	i Conduct Staff Training in regard to current Regulatory requirement	Funded	Track Meeting and findings	2010	Coordinate with stakeholders	<i>Complete continue staff training of regulatory requirements for activities affecting waters of the state.</i>
CS -2			ii Continue requiring DEQ 1200 Series Permits on construction sites.	Funded, Staff time	Track staff progress	2010,	Coordinate with Public Works Engineering Division	<i>Complete -Engineering Department coordinates and monitors with contractors on the requirements of the 1200 Series DEQ Permits.</i>

CS-3		Erosion Control	iii Develop and implement program to address erosion control for sites under one acre	Funded, Staff	Complete	2014	Complete task	<i>Complete</i> -All construction sites are being monitored. - City's requirements follows the current Oregon Standard Specifications for Construction for all projects in addition to the 1200 series DEQ permits. -Minimal new development or reconstruction projects from 2010-2015.
DS-1		Post Construction Flow Control	iv Modify Develop plan/programs to incorporate Low Impact Development	Funded, Staff	Complete	2015	Complete task	<i>Incomplete</i> -Will continue efforts in developing low impact development. Sites are being monitored however we have minimal new development or reconstruction occurring.
OM-1		Map/GIS System	v Continue Efforts in Mapping and GIS Effort of existing Storm Water System	Funded, Staff time	Complete new system mapping annually	2010, Ongoing	Complete Mapping and entering into GIS format 2015	<i>Complete</i> -Mapping storm water system as cleaned, updating current GIS map.

OM-2		Public Works Staff Training	vi Implement Internal Training in preventing/reducing Pesticides	Funded, Staff time	Conduct Training	2010, Ongoing	Complete Task	<p><i>Complete</i></p> <p><i>-Continue to Develop and train staff on BMP's for public works maintenance activities.</i></p> <p><i>-Providing documentation on SWQMP & BMP's with other maintenance sections.</i></p>
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Matrix 5 Iron

POLLUTANT: Iron								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTONE <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
PE-1	Iron associated with precipitation, higher stream flows and pipe systems and erosion	a. Public Outreach covering Iron issues and concerns	i Prepare resource list for the public. Storm water links to include local educational and regulatory resources	Funded, Staff time	Post on Website, Provide as handouts at community events	ongoing	Modify webpage by end of 2010	<p><i>Complete</i></p> <p><i>-2010 Developed Website Format..</i></p> <p><i>- Every year provided educational materials at Public Participation Events,</i></p>

PE-2			ii Continue River Ranger Program	Funded	Track contract numbers	Ongoing	Expand to other jurisdictions in Pudding River Watershed, 2011	<i>Complete Presented River Ranger Program to Woodburn Schools and community events every year.</i>
PE-3			iii Provide TMDL Implementation Plan for Public Review and Education	Funded, Staff time	Post on Website after DEQ approval. Mail electronic version to residents, RSS feed	2010	DEQ approval and posting/mailing	<i>Complete -2011 Developed format on website and copies available at Public Works Annex -2012 Updated TMDL plans posted on city's website, hard copies available at Public Works Annex.</i>
PE-4			iv. Earth Day Event, Provide education material on Protecting the Watershed	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete -Participated in 2011, 2012, 2013, 2014 events. -Provided educational handouts on various water quality issues, tools to properly dispose of household grease, performed sessions of the River Ranger Program</i>
PE-5			v. Plant Tours, Provide education information in protecting the Watershed during Plant tours to Public	Funded, Staff time	Track Contact Numbers	Ongoing	Complete Task	<i>Complete Ongoing; Provided tours to all ages of Students, Citizens and various Service Groups. Provided education material during tours.</i>

<p>PI-1</p>			<p>vi Partnering with Schools and Community Organization in partnering in BMP execution</p>	<p>Funding depends on activity, Staff Time</p>	<p>Track Implementation of BMP</p>	<p>Ongoing</p>	<p>Complete BMP</p>	<p><i>Complete</i> <i>-2010 Working on Developing City Program to share at events.</i> <i>-2014 BMP's for City maintenance activities complete.</i> <i>- Every year continue providing resources to and participate with Pudding River Watershed Council and the Woodburn School System for regional approach Water Quality</i></p>
<p>PI-2</p>			<p>vii Storm inlet Marking (Do Not Dump Waste)</p>	<p>Budget for fiscal year 2010/11</p>	<p>Number of Markers installed</p>	<p>2010, Ongoing</p>	<p>Determine type of marker, Mark 20% of system 2010</p>	<p><i>Complete</i> <i>Purchased Storm inlet markers every year. To be installed with development of mapping system structures with unique number for GIS.</i> <i>Had partnered with Boy Scouts to placed markers. Boy Scouts Placed approximately 300 Storm inlet markers in 2012. 200 markers were installed in 2014</i></p>

ID-1		a. Illicit Discharge Detection	i Continue administration and public education of exiting Sewer Use Ordinance No. 2176	Funded, Staff time	Track issues and results	Ongoing	Quantify incidents, actions, results	<i>Complete Tracking incidents as part of SWQMP in CMMS. Continuing education of public through participation at various public outreach events</i>
ID-2		Reinforce, Develop and implement Illicit discharge Program	Develop Regulatory Mechanism illicit discharge	Staff time	Implementation	2013	Complete Task	<i>Complete Continue effort to reinforce current Illicit Discharge Ordinances and Programs</i>
CS -1		Prevent material from reaching waterways	i Conduct Staff Training in regard to current Regulatory requirement	Funded	Track Meeting and findings	2010	Coordinate with stakeholders	<i>Complete Continue staff training of regulatory requirements for activities affecting waters of the state.</i>
CS -2			ii Continue requiring DEQ 1200 Series Permits on construction sites.	Funded, Staff time	Track staff progress	2010,	Coordinate with Public Works Engineering Division	<i>Complete, -Engineering Department coordinates and monitors with contractors on the requirements of the 1200 Series DEQ Permits.</i>

CS-3		Erosion Control	iii Develop and implement program to address erosion control for sites under one acre	Funded, Staff	Complete	2014	Complete task	<i>Complete</i> <i>-All construction sites are being monitored.</i> <i>- City's requirements follows the current Oregon Standard Specifications for Construction for all projects in addition to the 1200 series DEQ permits.</i> <i>-Minimal new development or reconstruction projects from 2010-2015.</i>
DS-1		Post Construction Flow Control	iv Modify Develop plan/programs to incorporate Low Impact Development	Funded, Staff	Complete	2015	Complete task	<i>Incomplete</i> <i>-Will continue efforts in developing low impact development.</i>
OM-1		Map/GIS System	v Continue Efforts in Mapping and GIS Effort of existing Storm Water System	Funded, Staff time	Complete new system mapping annually	2010, Ongoing	Complete Mapping and entering into GIS format 2015	<i>Complete</i> <i>-Mapping storm water system as cleaned, updating current GIS map.</i>
OM-2		Public Works Staff Training	vi Implement Internal Training in preventing/reducing Iron	Funded, Staff time	Conduct Training	2010, Ongoing	Complete Task	<i>Complete</i> <i>-Continue to Develop and train staff on BMP's for public works maintenance activities.</i> <i>-Providing documentation on SWQMP & BMP's with other maintenance sections.</i>

Matrix 6 Management Strategies

MANAGEMENT STRATEGY								
SWMP BMP	SOURCE <i>What source of this pollutant is being addressed</i>	PRACTICE <i>What is being done, or what will be done, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS	MEASURE <i>How successful implementation or completion of this practice be measured?</i>	TIMELINE <i>When will the practice be completed?</i>	MILESTONE <i>What intermediate goals will be achieved and by when, how to know what progress is being made</i>	STATUS
DS-1	Development and implementation of post-construction guideline manual for meeting predevelopment hydrology		Updated the City's Storm Management Plan to include the requirements for control post-development peak runoff rates per City's Guidelines.		City's Storm Management Plan requires a detention facility to have a post-development 25-yr capacity with discharge orifice sized to limit outflow to no more than the undeveloped site peak run off for the existing 5-yr frequency storm.	2019		<i>Table B New</i>
DS-2	Inventory of riparian vegetation within city or county jurisdiction to establish baseline conditions and priorities for restoration		Find funding to create a riparian natural resource inventory..		Create and maintain an inventory of existing vegetation	2017		<i>Table B New</i>

DS-3	Complete at least one riparian restoration project or implement strategy to preserve existing riparian vegetation		Find funding for a riparian restoration program. Possible partnering with Pudding River Watershed Council		Implement a program to preserve existing vegetation, remove invasive species and restore areas with native shrubs and trees.	2017		Table B New

Six Minimum Control Measures

PE – Public Education
 PI – Public Involvement/Participation
 ID – Illicit Discharge
 CS – Construction Site Runoff Control
 DS – Development Standards
 OM – Operations and Maintenance