I. Permittee Information

Permittee Name Yakima County	**Permittee Coverage Number** #WAR04-6014
Contact Name Terry Keenhan	**Phone Number** 509.574.2300
Mailing Address 128 North 2nd Street, Room #408	
City Yakima	**State** WA **Zip + 4** 98901-2639
Email Adddress terry.keenhan@co.yakima.wa.us	

II. Regulated Small MS4 Location

	Entity Type: Put an X in the box that applies		
Jurisdiction	**County**	**City/Town**	**Other**
Yakima County	X		
Major Receiving Water(s) Naches River, Yakima River, Wide Hollow Creek			

III. Relying on another Governmental Entity

If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. ***Attach a copy of your agreement with the other entity to provide additional detail (unless previously submitted).***

Name of Entity:	**Permit Obligation(s):**

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that Qualified Personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations.

Name	[signature]	Title	DIRECTOR	Date	3/29/2012
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	

VI. Status Report Covering Calendar Year 2011 — Jurisdiction: Yakima County

PLEASE label information in any attachments with corresponding question numbers.
PLEASE fill out your jurisdiction name in line 1 above.
PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
For additional clarification on how to answer questions, put cursor over cell with red flagged corners.
PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
1	**Attached** annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.3 and S9.	Y		RSWMP5.pdf
2	**Attached** a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3.	Y	Copies of annexation decisions attached.	AllAnnexations_2011.pdf
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	2010 Information provided to Yakima County and presented to RSPG.	
4	Developed and fully implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y	Included in previous RSWMP Years 1-4 and current RSWMP year 5. http://www.yakimacounty.us/Stormwater/documents.html	RSWMP5.pdf
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y	In addition to the activity summary document, the results of the initial survey, specific public outreach actions, and examples of brochures are attached	Public Education and Involvement Summary_2011.pdf; Five Myths Stormwater
5	Implementing a program or policy with opportunities for the public to participate in the decision making processes involving the development, implementation, and updates of the SWMP. (S5.B.2.a and S9.E.2.c)	Y	Public meeting held March 31, 2011. No comments received during calendar year.	Public Input Meeting Notes_31Mar2011.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
6	Made the most current version of the SWMP available to the public. If posted on website, list address in *Comments* field. (S5.B.2.b)	Y	http://www.yakimacounty.us/stormwater/documents/RSWMP5.pdf	NA
7	Completed at least two-thirds of the map of your MS4. (S5.B.3.a)	Y		
7a	**Attached** a sumary of the status of the mapping and updated storm drainage infrastructure information; do not include the map. (S5.B.3.a)	Y	Included with Regional Mapping Summary.	Regional Stormwater Mapping Summary 2011.pdf
8	Developed and fully implemented an ongoing program to detect and address non-stormwater discharges to the MS4, including spills and illicit connections. (S5.B.3.c.i through iv)	Y		
9	Field assessed at least three high priority water bodies to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	All water bodies were field assessed and outfall locations verified by end of 2010.	YakimaCounty_Treatment&FlowControl_Inspec_2007to2011.pdf
9a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	All outfalls mapped by 2010. Most inspected again in 2011 during roadside ditch mapping. No illicit discharges were detected in the MS4 during mapping.	YakimaCounty_Treatment&FlowControl_Inspec_2007to2011.pdf
10	Distributed appropriate information to target audiences to inform public employees, businesses, and the general public of hazards associated with illicit discharges. (S5.B.3.d.i)	Y	Incorporated in most facets of the of Public Education and Outreach program.	
11a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y	http://www.yakimacounty.us/stormwater/illicit_discharges.html	NA
11b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	Y	Three reports received.	IDDE Log Report_2011.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
12	Provided adequate training to all staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections. (S5.B.3.f)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/documents/IDDE%20Procedures.pdf Training held in 2010 and is ongoing.	Employee Stormwater Training Master Version.pdf
13	Provided training to all municipal field staff that as part of their normal job resonsibilities might come into contact with or otherwise observe an illicit discahrge or illicit connection to the MS4, including office personnel who might receive reports of illicit discharges. (S5.B.3.g)	Y	Training held in 2009 and 2010; is ongoing.	Employee Stormwater Training Master Version.pdf
14	Adopted and implemented procedures for IDDE program evaluation and assessment. (S5.B.3.e)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/docume	NA
14a	**Attached** summary of numbers and types of illicit discharges identified; inspections made; and any feedback received from public education efforts. (S5.B.3.e)	Y	Three reports investigated and resolved.	IDDE Log Report_2011.pdf
15	Adopted and implemented procedures for construction site plan review. (S5.B.4.b)	Y		
16	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	NA	No qualifying sites within permit area.	
16a	Number of site plans reviewed during the reporting period:	NA		
16b	Number of SWPPPs reviewed during the reporting period:	NA		
16c	Number of site plans approved during the reporting period:	NA		
17	Adopted and implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
18	Provided adequate training for all staff involved in permitting, plan review, field inspection and enforcement for construction site runoff control. (S5.B.4.b.i and S5.B.4.c.ii)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
19	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	NA	No qualifying sites within permit area. Attached report documents that field visits were conducted to verify that none qualified.	Yakima County Construction Inspections_2011.pdf
19a	Number of sites inspected during the reporting period:	NA		
19b	Number of enforcement actions taken during the reporting period:	NA		
20	Provided information to construction site operators about training available on how to comply with requirements in Appendix I and the BMPs in the *Stormwater Management Manual for Eastern Washington,* or an equivalent document. (S5.B.4.d and S5.B.5.e)	Y	Training opportunities list available on regional stormwater website http://www.yakimacounty.us/Stormwater/training.html	
21	Adopted and implemented procedures for post-construction site plan review. (S5.B.5.b)	Y		
22	Adopted and implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y		
23	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	NA	No qualifying sites within permit area.	
23a	Number of sites inspected during the reporting period:	NA		
23b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	NA		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
23c	Number of enforcement actions taken during the reporting period:	NA		
24	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	NA	No qualifying sites within permit area.	
24a	Number of structural BMPs inspected during installation during the reporting period:	NA		
25	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
26	Developed and fully implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y	Plans developed in 2009. Any new BMPs not already being implemented began to be implemented in 2010.	
27	Inspected stormwater treatment and flow control facilities owned or operated by the Permittee at least once. (S5.B.6.a.i)	Y	Inspected 37 during 2011. All others were inspected in 2009 and 2010.	YakimaCounty_Treatment&FlowControl_Inspec_2007to2011.pdf
27a	Number of known facilities:	Y	50 (most are roadside ditch outfalls)	
27b	Number of facilities inspected during the reporting period:	Y	Inspected 37 during 2011.	YakimaCounty_Treatment&FlowControl_Inspec_2007to2011.pdf
28	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	Y	C3196 Hennessy Road Improvement Project, WAR125235	
29	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y	Inspected 37 of 50 flow control and treatment facilities after May 2011 10 year plus event. No significant damage was observed.	YakimaCounty_Treatment&FlowControl_Inspec_2007to2011.pdf; Yakima Air Terminal 24

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
30	Provided adequate training for staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Y	Training held in 2010. Additional follow-up training developed in 2011 and is ongoing.	Employee Stormwater Training Master Version.pdf
31	**Attached** information identifying the BMP(s) selected for runoff treatment BMP effectiveness, and describes that status of identification of sites, if applicable. (S8.C.2.b)	Y	One BMP and site originally identified in 2010 and reported for that year. Site list has been updated with a BMP facility constructed during 2011 (section 3 of attached document).	Stormwater Monitoring Preparation_Yakima County_Update2011.pdf
32	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Y	Public education and outreach NOV response letter sent to Ecology.	Signed NOV response letter.pdf
33	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	Y	Ecology received report of illicit discharge indirectly to DID 48 from resident and forwarded to City of Yakima and Yakima County. Other illicit discharges were to UICs.	
34	Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)	Y	City of Yakima and Health Dept. enforcing disconnect on DID 48 sanitary sewer connection. Yakima County monitoring status.	
35	**Attached** a summary of the status of implementation of any actions taken pursuant to S4.F and the results of monitoring, assessment, and evaluation efforts conducted during the reporting period. (S4.F.3.d)]	NA	No actions taken	NA

Question	Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable

REMINDER: Save your work as you go. Did you answer each question, provide necessary background information in the *Comments* field, and attach and/or note the filename and page number of all required documentation in the *Attachment* field? Proceed to the **Info Collection (Monitoring)** tab next.

Information Collection, S8.B.1 Description of Monitoring Studies

If applicable, you are required to provide information to fulfill permit requirement S8.B.1 in each annual report. You must describe any stormwater monitoring or studies conducted by you during the reporting period. If stormwater monitoring was conducted on your behalf, or if studies or investigations conducted by other entities were reported to you, you must briefly describe the type of information gathered or received during the reporting period.

Please note in row #1 of the table below if you have no information to report.

NOTE: Please limit your entries to 255 characters per cell. You may include additional information in your Supplemental Documentation attachment and reference it below with the page number.

Information Collection

	Briefly describe any stormwater monitoring, studies, or type of information collected and analyzed during the reporting period. (S8.B.1)	Who/how to contact for additional information?
1.	No information to report	
2.		
3.		
4.		
5.		
6.		

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part B for all annual reports.

B. SWMP Evaluation

You are required to assess the appropriateness of the BMPs you have selected to implement your SWMP. This evaluation is necessary to evaluate whether the MEP standard set by the permit is protective of water quality in your receiving water bodies. This assessment may be entirely qualitative. Answer **NA** if you are not yet implementing BMPs for a component of the SWMP. (S8.B.2 and S9)

	Question	Y/N/NA	Comments (50 word limit)
1.	Are the BMPs selected and implemented for Public Outreach appropriate to minimize pollutants in the MS4 to the MEP?	Y	Identification of target audiences has helped focus the public education message to those areas with high percentage impervious surface land cover. Distribution of the RSWMP using the Regional Stormwater website is a cost effective means of distribtuion compared to conventional hardcopy distribution. While two initial public random surveys indicate that there is a fair understanding of stormwater issues, future surveys will better gauge the effectiveness of billboards and brochure materials.
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	Public attendance and input at one public meeting on March 31, 2011 was attended by both concerned citizens and agency/partner staff compared to the 2009 meeting attend exclusively by stakeholders that have been involved in the Regional Stormwater process for an extended time.

3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	Improvements in water quality should result from removal of illicit discharges and connections during mapping and smoke testing has identified illicit connections to be removed, responding to hotline call reports, increased investigation effeciency from the developed procedures manual, and staff training.
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	Education and enforcement actions related to the ordinance have helped keep sediment and other pollutants out of the MS4. Training opportunities on the regional website provide contractors and others a listing of available stormwater related courses and conferences held by other entities. This is an inexpensive method for distributing this information and this webpage has been visited regulary.
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	Site plan review training was held and should help reviewers insure future projects are compliant with the ordinance and function properly. Site plan review should improve water quality indirectly by identifying any treatment/flow control structure defiencies prior to construction.
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	While no quantitive studies have been done to assess water quality improvement, street sweeping, employee training to decrease O&M related illicit discharges, and increased catch basin and flow control/treatment facility cleaning should be leading to not only improved water quality but better system functionality.

REMINDER: Answer each question Y/N/NA and provide necessary background information in the *Comments* field. Proceed to the next tab.

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part C for all annual reports.

C. Changes in BMPs or objectives (S8.B)

If any of the BMPs or objectives is being changed, list the old BMP and objective, the new BMP and objective, and a justification for the change below. (S8.B.2., and S9)

NOTE: You may choose to attach additional documentation justifying Changes in BMPs or objectives. Note such attachments in the *Justification for change* field.

	Old BMP	Old Objective	New BMP	New Objective	Justification for Change
1	No BMPs changed				
2					
3					
4					
5					
6					
7					

REMINDER: Provide necessary background information. This is the final tab of the Annual Report worksheet. Please review the entire worksheet for completeness and accuracy and save this document. Email this Annual Report file PLUS any identified attachments to: **PH2_EAnnRpt@ecy.wa.gov** no later than March 31, 2012. Mail two hard copies of the entire package to the address listed on the Certification tab.

I. Permittee Information

Permittee Name City of Yakima	**Permittee Coverage Number** #WAR04-6013
Contact Name Scott Schafer	**Phone Number** 509.249.6815
Mailing Address 129 N. 2nd Street	
City Yakima	**State** WA **Zip + 4** 98901
Email Adddress sschafer@ci.yakima.wa.us	

II. Regulated Small MS4 Location

	Entity Type: Put an X in the box that applies		
	County	**City/Town**	**Other**
Jurisdiction City of Yakima		X	
Major Receiving Water(s) Naches River, Yakima River, Wide Hollow Creek			

III. Relying on another Governmental Entity

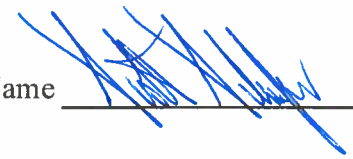
If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. ***Attach a copy of your agreement with the other entity to provide additional detail (unless previously submitted).***

Name of Entity:	**Permit Obligation(s):**
Yakima County	Per attached ILA

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that Qualified Personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations.

Name		Title	WASTEWATER DIVISION MANAGER	Date	3/20/12
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	

VI. Status Report Covering Calendar Year 2011 — Jurisdiction: City of Yakima

PLEASE label information in any attachments with corresponding question numbers.
PLEASE fill out your jurisdiction name in line 1 above.
PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
For additional clarification on how to answer questions, put cursor over cell with red flagged corners.
PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
1	**Attached** annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.3 and S9.	Y		RSWMP5.pdf
2	**Attached** a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3.	NA	No annexations during reporting period.	NA
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	2010 Information provided to Yakima County and presented to RSPG.	
4	Developed and fully implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y	Included in previous RSWMP Years 1-4 and current RSWMP year 5. http://www.yakimacounty.us/Stormwater/documents.html	RSWMP5.pdf
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y	In addition to the activity summary document, the results of the initial survey, specific public outreach actions, and examples of brochures are attached	Public Education and Involvement Summary_2011.pdf; Five Myths Stormwater
5	Implementing a program or policy with opportunities for the public to participate in the decision making processes involving the development, implementation, and updates of the SWMP. (S5.B.2.a and S9.E.2.c)	Y	Public meeting held March 31, 2011. No comments received during calendar year.	Public Input Meeting Notes_31Mar2011.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
6	Made the most current version of the SWMP available to the public. If posted on website, list address in *Comments* field. (S5.B.2.b)	Y	http://www.yakimacounty.us/stormwater/documents/RSWMP5.pdf	NA
7	Completed at least two-thirds of the map of your MS4. (S5.B.3.a)	Y		
7a	**Attached** a sumary of the status of the mapping and updated storm drainage infrastructure information; do not include the map. (S5.B.3.a)	Y	Included with Regional Mapping Summary.	Regional Stormwater Mapping Summary 2011.pdf
8	Developed and fully implemented an ongoing program to detect and address non-stormwater discharges to the MS4, including spills and illicit connections. (S5.B.3.c.i through iv)	Y		
9	Field assessed at least three high priority water bodies to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	All water bodies were field assessed and outfall locations verified by end of 2010. Additional work was completed on the drainage system discharging to Buchanan Lake during the	
9a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	Buchanan Lake documents attached.	DOE Smoke-Test Buchanan Lake.pdf; Further Info for Buchanan Lake Notification.pdf
10	Distributed appropriate information to target audiences to inform public employees, businesses, and the general public of hazards associated with illicit discharges. (S5.B.3.d.i)	Y	Incorporated in most facets of the of Public Education and Outreach program.	
11a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y	http://www.yakimacounty.us/stormwater/illicit_discharges.html	
11b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	Y		2011 Stormwater Yakima Illicit Discharge Connections and Outreach Rpt.pdf; 2011 Stormwater Yakima Illicit

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
12	Provided adequate training to all staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections. (S5.B.3.f)	Y	IDDE Procedures document available in 2009. http://www.yakimacounty.us/stormwater/documents/IDDE%20Procedures.pdf Training held in 2010 and is ongoing.	Employee Stormwater Training Master Version.pdf
13	Provided training to all municipal field staff that as part of their normal job resonsibilities might come into contact with or otherwise observe an illicit discahrge or illicit connection to the MS4, including office personnel who might receive reports of illicit discharges. (S5.B.3.g)	Y	Training held in 2010 and is ongoing.	Employee Stormwater Training Master Version.pdf
14	Adopted and implemented procedures for IDDE program evaluation and assessment. (S5.B.3.e)	Y	IDDE Procedures document available in 2009. http://www.yakimacounty.us/stormwater/documents/IDDE%20Procedures.pdf	
14a	**Attached** summary of numbers and types of illicit discharges identified; inspections made; and any feedback received from public education efforts. (S5.B.3.e)	Y		2011 Stormwater Yakima Illicit Discharge Connections and Outreach Rpt.pdf
15	Adopted and implemented procedures for construction site plan review. (S5.B.4.b)	Y		
16	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	Y		
16a	Number of site plans reviewed during the reporting period:	Y	Reviewed 8 sites plans.	
16b	Number of SWPPPs reviewed during the reporting period:	Y	Reviewed 8 SWPPPs.	
16c	Number of site plans approved during the reporting period:	Y	Approved 7 site plans.	
17	Adopted and implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
18	Provided adequate training for all staff involved in permitting, plan review, field inspection and enforcement for construction site runoff control. (S5.B.4.b.i and S5.B.4.c.ii)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
19	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	Y		
19a	Number of sites inspected during the reporting period:	Y	Inspected 10 sites.	
19b	Number of enforcement actions taken during the reporting period:	Y	Enforcement action taken on 6 sites.	
20	Provided information to construction site operators about training available on how to comply with requirements in Appendix I and the BMPs in the *Stormwater Management Manual for Eastern Washington,* or an equivalent document. (S5.B.4.d and S5.B.5.e)	Y	Training opportunities list available on regional stormwater website http://www.yakimacounty.us/Stormwater/training.html	
21	Adopted and implemented procedures for post-construction site plan review. (S5.B.5.b)	Y		
22	Adopted and implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y		
23	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	NA	No qualifying sites within permit area.	
23a	Number of sites inspected during the reporting period:	NA		
23b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	NA		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
23c	Number of enforcement actions taken during the reporting period:	NA		
24	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	Y		
24a	Number of structural BMPs inspected during installation during the reporting period:	Y	Inspected 9.	
25	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
26	Developed and fully implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y	Plans developed in 2009. Any new BMPs not already being implemented began to be implemented in 2010.	
27	Inspected stormwater treatment and flow control facilities owned or operated by the Permittee at least once. (S5.B.6.a.i)	Y	File data available at Collections - Records will be computerized starting in 2012.	
27a	Number of known facilities:	Y	1 filter system, 59 swales, and 39 outfalls.	
27b	Number of facilities inspected during the reporting period:	Y	1 filter system and 59 swales.	
28	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	Y	Lincoln Ave. Grade Separation, WAR012233A	
29	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y	Performed after May 2011 10 yr. event.	CoY Spot Inspections_May2011 10 yr event.pdf; CoY Spot

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
30	Provided adequate training for staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Y	Training held in 2010. City staff held informal brief training on catch basin filter fabric for Public Works employees. Extensive powerpoint training held on June 15.	Employee Stormwater Training Master Version.pdf; CoY O&M Training SignIn_15Jun11.pdf
31	**Attached** information identifying the BMP(s) selected for runoff treatment BMP effectiveness, and describes that status of identification of sites, if applicable. (S8.C.2.b)	Y	Sites identified in 2010 and reported for that year.	NA, submitted in previous year.
32	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	NA	No known non-compliance.	NA
33	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	Y	Ecology was either notified immediately if the discharge constituted a threat or the ERTS report originated from Ecology. All official correspondence relating to Stormwater cases cced to Ecology.	2011 Stormwater Yakima Illicit Discharge Connections and Outreach Rpt.pdf
34	Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)	Y	Summarized in spreadsheet and Buchanan Lake documents.	2011 Stormwater Yakima Illicit Discharge Connections and Outreach Rpt.pdf; DOE Smoke-Test Buchanan Lake.pdf; Further Info for Buchanan Lake
35	**Attached** a summary of the status of implementation of any actions taken pursuant to S4.F and the results of monitoring, assessment, and evaluation efforts conducted during the reporting period. (S4.F.3.d)]	Y	Buchanan Lake investigation.	DOE Smoke-Test Buchanan Lake.pdf; Further Info for Buchanan Lake Notification.pdf

Question	Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable

REMINDER: Save your work as you go. Did you answer each question, provide necessary background information in the *Comments* field, and attach and/or note the filename and page number of all required documentation in the *Attachment* field? Proceed to the **Info Collection (Monitoring)** tab next.

Information Collection, S8.B.1 Description of Monitoring Studies

If applicable, you are required to provide information to fulfill permit requirement S8.B.1 in each annual report. You must describe any stormwater monitoring or studies conducted by you during the reporting period. If stormwater monitoring was conducted on your behalf, or if studies or investigations conducted by other entities were reported to you, you must briefly describe the type of information gathered or received during the reporting period.

Please note in row #1 of the table below if you have no information to report.

NOTE: Please limit your entries to 255 characters per cell. You may include additional information in your Supplemental Documentation attachment and reference it below with the page number.

Information Collection

	Briefly describe any stormwater monitoring, studies, or type of information collected and analyzed during the reporting period. (S8.B.1)	Who/how to contact for additional information?
1.	No information to report	
2.		
3.		
4.		
5.		
6.		

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part B for all annual reports.

B. SWMP Evaluation

You are required to assess the appropriateness of the BMPs you have selected to implement your SWMP. This evaluation is necessary to evaluate whether the MEP standard set by the permit is protective of water quality in your receiving water bodies. This assessment may be entirely qualitative. Answer **NA** if you are not yet implementing BMPs for a component of the SWMP. (S8.B.2 and S9)

	Question	Y/N/NA	Comments (50 word limit)
1.	Are the BMPs selected and implemented for Public Outreach appropriate to minimize pollutants in the MS4 to the MEP?	Y	Identification of target audiences has helped focus the public education message to those areas with high percentage impervious surface land cover. Distribution of the RSWMP using the Regional Stormwater website is a cost effective means of distribtuion compared to conventional hardcopy distribution. While two initial public random surveys indicate that there is a fair understanding of stormwater issues, future surveys will better gauge the effectiveness of billboards and brochure materials.
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	Public attendance and input at one public meeting on March 31, 2011 was attended by both concerned citizens and agency/partner staff compared to the 2009 meeting attend exclusively by stakeholders that have been involved in the Regional Stormwater process for an extended time.

3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	Improvements in water quality should result from removal of illicit discharges and connections during mapping and smoke testing has identified illicit connections to be removed, responding to hotline call reports, increased investigation effeciency from the developed procedures manual, and staff training.
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	Education and enforcement actions related to the ordinance have helped keep sediment and other pollutants out of the MS4. Training opportunities on the regional website provide contractors and others a listing of available stormwater related courses and conferences held by other entities. This is an inexpensive method for distributing this information and this webpage has been visited regulary.
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	Site plan review training was held and should help reviewers insure future projects are compliant with the ordinance and function properly. Site plan review should improve water quality indirectly by identifying any treatment/flow control structure defiencies prior to construction.
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	While no quantitive studies have been done to assess water quality improvement, street sweeping, employee training to decrease O&M related illicit discharges, increased catch basin and flow control/treatment facility cleaning, and retrofits at city facilities should be leading to not only improved water quality but better system functionality.

REMINDER: Answer each question Y/N/NA and provide necessary background information in the *Comments* field. Proceed to the next tab.

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part C for all annual reports.

C. Changes in BMPs or objectives (S8.B)

If any of the BMPs or objectives is being changed, list the old BMP and objective, the new BMP and objective, and a justification for the change below. (S8.B.2., and S9)

NOTE: You may choose to attach additional documentation justifying Changes in BMPs or objectives. Note such attachments in the *Justification for change* field.

	Old BMP	Old Objective	New BMP	New Objective
1	No BMPs changed			
2				
3				
4				
5				
6				
7				

REMINDER: Provide necessary background information. This is the final tab of the Annual R
Please review the entire worksheet for completeness and accuracy and save this document.
Report file PLUS any identified attachments to: **PH2_EAnnRpt@ecy.wa.gov** no later than M
two hard copies of the entire package to the address listed on the Certification tab.

Justification for Change

Report worksheet.
Email this Annual
March 31, 2012. Mail

I. Permittee Information

Permittee Name City of Sunnyside	**Permittee Coverage Number** #WAR04-6009
Contact Name Shane Fisher	**Phone Number** (509) 837-5399
Mailing Address 818 E. Edison Ave.	
City Sunnyside	**State** WA **Zip + 4** 98944-2206
Email Adddress sfisher@ci.sunnyside.wa.us	

II. Regulated Small MS4 Location

	Entity Type: Put an X in the box that applies		
	County	**City/Town**	**Other**
Jurisdiction City of Sunnyside		X	
Major Receiving Water(s) Sulphur Creek Wasteway			

III. Relying on another Governmental Entity

If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. ***Attach a copy of your agreement with the other entity to provide additional detail (unless previously submitted).***

Name of Entity:	**Permit Obligation(s):**
Yakima County	Per attached ILA

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that Qualified Personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations.

Name	Shane Smith	Title	Public Works Superintendent	Date	3/20/12
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	

VI. Status Report Covering Calendar Year 2011

Jurisdiction: City of Sunnyside

PLEASE label information in any attachments with corresponding question numbers.
PLEASE fill out your jurisdiction name in line 1 above.
PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
For additional clarification on how to answer questions, put cursor over cell with red flagged corners.
PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
1	**Attached** annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.3 and S9.	Y		RSWMP5.pdf
2	**Attached** a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3.	Y	Copies of annexation decisions attached.	AllAnnexations_2011.pdf
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	2010 Information provided to Yakima County and presented to RSPG.	
4	Developed and fully implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y	Included in previous RSWMP Years 1-4 and current RSWMP year 5. http://www.yakimacounty.us/Stormwater/documents.html	RSWMP5.pdf
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y	In addition to the activity summary document, the results of the initial survey, specific public outreach actions, and examples of brochures are attached	Public Education and Involvement Summary_2011.pdf; Five Myths Stormwater
5	Implementing a program or policy with opportunities for the public to participate in the decision making processes involving the development, implementation, and updates of the SWMP. (S5.B.2.a and S9.E.2.c)	Y	Public meeting held March 31, 2011. No comments received during calendar year.	Public Input Meeting Notes_31Mar2011.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
6	Made the most current version of the SWMP available to the public. If posted on website, list address in *Comments* field. (S5.B.2.b)	Y	http://www.yakimacounty.us/stormwater/documents/RSWMP5.pdf	NA
7	Completed at least two-thirds of the map of your MS4. (S5.B.3.a)	Y		
7a	**Attached** a sumary of the status of the mapping and updated storm drainage infrastructure information; do not include the map. (S5.B.3.a)	Y	Included with Regional Mapping Summary.	Regional Stormwater Mapping Summary 2011.pdf
8	Developed and fully implemented an ongoing program to detect and address non-stormwater discharges to the MS4, including spills and illicit connections. (S5.B.3.c.i through iv)	Y		
9	Field assessed at least three high priority water bodies to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	All water bodies were field assessed and outfall locations verified by end of 2010.	
9a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	No illicit discharges discovered during reporting period.	
10	Distributed appropriate information to target audiences to inform public employees, businesses, and the general public of hazards associated with illicit discharges. (S5.B.3.d.i)	Y	Incorporated in most facets of the of Public Education and Outreach program.	
11a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y	http://www.yakimacounty.us/stormwater/illicit_discharges.html	NA
11b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	NA	No reports received	NA

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
12	Provided adequate training to all staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections. (S5.B.3.f)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/documents/IDDE%20Procedures.pdf Training held in 2010 and is ongoing.	Employee Stormwater Training Master Version.pdf
13	Provided training to all municipal field staff that as part of their normal job resonsibilities might come into contact with or otherwise observe an illicit discahrge or illicit connection to the MS4, including office personnel who might receive reports of illicit discharges. (S5.B.3.g)	Y	Training held in 2009 and 2010; is ongoing.	Employee Stormwater Training Master Version.pdf
14	Adopted and implemented procedures for IDDE program evaluation and assessment. (S5.B.3.e)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/docume	NA
14a	**Attached** summary of numbers and types of illicit discharges identified; inspections made; and any feedback received from public education efforts. (S5.B.3.e)	NA	No illicit discharges discovered during reporting period.	NA
15	Adopted and implemented procedures for construction site plan review. (S5.B.4.b)	Y		
16	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	NA	No qualifying sites within permit area.	
16a	Number of site plans reviewed during the reporting period:	NA		
16b	Number of SWPPPs reviewed during the reporting period:	NA		
16c	Number of site plans approved during the reporting period:	NA		
17	Adopted and implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
18	Provided adequate training for all staff involved in permitting, plan review, field inspection and enforcement for construction site runoff control. (S5.B.4.b.i and S5.B.4.c.ii)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
19	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	NA	No qualifying sites.	
19a	Number of sites inspected during the reporting period:	NA		
19b	Number of enforcement actions taken during the reporting period:	NA		
20	Provided information to construction site operators about training available on how to comply with requirements in Appendix I and the BMPs in the *Stormwater Management Manual for Eastern Washington,* or an equivalent document. (S5.B.4.d and S5.B.5.e)	Y	Training opportunities list available on regional stormwater website http://www.yakimacounty.us/Stormwater/training.html	
21	Adopted and implemented procedures for post-construction site plan review. (S5.B.5.b)	Y		
22	Adopted and implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y		
23	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	NA	No qualifying sites within permit area.	
23a	Number of sites inspected during the reporting period:	NA		
23b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	NA		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
23c	Number of enforcement actions taken during the reporting period:	NA		
24	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	NA	No qualifying sites within permit area.	
24a	Number of structural BMPs inspected during installation during the reporting period:	NA		
25	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
26	Developed and fully implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y	Plans developed in 2009. Any new BMPs not already being implemented began to be implemented in 2010.	
27	Inspected stormwater treatment and flow control facilities owned or operated by the Permittee at least once. (S5.B.6.a.i)	Y		
27a	Number of known facilities:	Y	82 outfalls and swales mapped. All but five are outfalls. Many outfalls may actually only go to	
27b	Number of facilities inspected during the reporting period:	Y	Inspected 71 during this reporting period.	
28	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	NA	No projects during reporting period	NA
29	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y	Spot checks conducted during 2011 mapping by consultant after May 2011 10 year plus event.	

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
30	Provided adequate training for staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Y	Training held in 2010. Additional follow-up training developed in 2011 and is ongoing.	Employee Stormwater Training Master Version.pdf
31	**Attached** information identifying the BMP(s) selected for runoff treatment BMP effectiveness, and describes that status of identification of sites, if applicable. (S8.C.2.b)	NA	Below population threshold for requirement.	NA
32	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Y	Public education and outreach NOV response letter sent to Ecology.	
33	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	NA	No known discharges.	
34	Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)	NA	No known discharges.	
35	**Attached** a summary of the status of implementation of any actions taken pursuant to S4.F and the results of monitoring, assessment, and evaluation efforts conducted during the reporting period. (S4.F.3.d)]	NA	No actions taken.	

Question	Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable

REMINDER: Save your work as you go. Did you answer each question, provide necessary background information in the *Comments* field, and attach and/or note the filename and page number of all required documentation in the *Attachment* field? Proceed to the **Info Collection (Monitoring)** tab next.

Information Collection, S8.B.1 Description of Monitoring Studies

If applicable, you are required to provide information to fulfill permit requirement S8.B.1 in each annual report. You must describe any stormwater monitoring or studies conducted by you during the reporting period. If stormwater monitoring was conducted on your behalf, or if studies or investigations conducted by other entities were reported to you, you must briefly describe the type of information gathered or received during the reporting period.

Please note in row #1 of the table below if you have no information to report.

NOTE: Please limit your entries to 255 characters per cell. You may include additional information in your Supplemental Documentation attachment and reference it below with the page number.

Information Collection

	Briefly describe any stormwater monitoring, studies, or type of information collected and analyzed during the reporting period. (S8.B.1)	Who/how to contact for additional information?
1.	No information to report	
2.		
3.		
4.		
5.		
6.		

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part B for all annual reports.

B. SWMP Evaluation

You are required to assess the appropriateness of the BMPs you have selected to implement your SWMP. This evaluation is necessary to evaluate whether the MEP standard set by the permit is protective of water quality in your receiving water bodies. This assessment may be entirely qualitative. Answer **NA** if you are not yet implementing BMPs for a component of the SWMP. (S8.B.2 and S9)

	Question	Y/N/NA	Comments (50 word limit)
1.	Are the BMPs selected and implemented for Public Outreach appropriate to minimize pollutants in the MS4 to the MEP?	Y	Identification of target audiences has helped focus the public education message to those areas with high percentage impervious surface land cover. Distribution of the RSWMP using the Regional Stormwater website is a cost effective means of distribtuion compared to conventional hardcopy distribution. While two initial public random surveys indicate that there is a fair understanding of stormwater issues, future surveys will better gauge the effectiveness of billboards and brochure materials.
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	Public attendance and input at one public meeting on March 31, 2011 was attended by both concerned citizens and agency/partner staff compared to the 2009 meeting attend exclusively by stakeholders that have been involved in the Regional Stormwater process for an extended time.

3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	Improvements in water quality should result from removal of illicit discharges and connections during mapping and smoke testing has identified illicit connections to be removed, responding to hotline call reports, increased investigation effeciency from the developed procedures manual, and staff training.
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	Education and enforcement actions related to the ordinance have helped keep sediment and other pollutants out of the MS4. Training opportunities on the regional website provide contractors and others a listing of available stormwater related courses and conferences held by other entities. This is an inexpensive method for distributing this information and this webpage has been visited regulary.
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	Site plan review training was held and should help reviewers insure future projects are compliant with the ordinance and function properly. Site plan review should improve water quality indirectly by identifying any treatment/flow control structure defiencies prior to construction.
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	While no quantitive studies have been done to assess water quality improvement, street sweeping, employee training to decrease O&M related illicit discharges, and increased catch basin and flow control/treatment facility cleaning should be leading to not only improved water quality but better system functionality.

REMINDER: Answer each question Y/N/NA and provide necessary background information in the *Comments* field. Proceed to the next tab.

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part C for all annual reports.

C. Changes in BMPs or objectives (S8.B)

If any of the BMPs or objectives is being changed, list the old BMP and objective, the new BMP and objective, and a justification for the change below. (S8.B.2., and S9)

NOTE: You may choose to attach additional documentation justifying Changes in BMPs or objectives. Note such attachments in the *Justification for change* field.

	Old BMP	Old Objective	New BMP	New Objective
1	No BMPs changed			
2				
3				
4				
5				
6				
7				

REMINDER: Provide necessary background information. This is the final tab of the Annual R
Please review the entire worksheet for completeness and accuracy and save this document.
Report file PLUS any identified attachments to: **PH2_EAnnRpt@ecy.wa.gov** no later than M
two hard copies of the entire package to the address listed on the Certification tab.

Justification for Change

Report worksheet.
Email this Annual
March 31, 2012. Mail

I. Permittee Information

Permittee Name City of Union Gap	**Permittee Coverage Number** #WAR04-6010
Contact Name Dennis Henne	**Phone Number** 509.248.0432
Mailing Address 102 West Ahtanum	
City Union Gap	**State** WA **Zip + 4** 98944-2206
Email Adddress ugpwdirector@cityofuniongap.com	

II. Regulated Small MS4 Location

	Entity Type: Put an X in the box that applies		
	County	**City/Town**	**Other**
Jurisdiction City of Union Gap		X	
Major Receiving Water(s) Yakima River, Wide Hollow Creek, Spring Creek East			

III. Relying on another Governmental Entity

If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. ***Attach a copy of your agreement with the other entity to provide additional detail (unless previously submitted).***

Name of Entity:	**Permit Obligation(s):**
Yakima County	Per attached ILA

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that Qualified Personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations.

Name Dennis Henne Dennis Henne Title Public Works Director Date 3/20/12

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

VI. Status Report Covering Calendar Year 2011 — Jurisdiction: City of Union Gap

PLEASE label information in any attachments with corresponding question numbers.
PLEASE fill out your jurisdiction name in line 1 above.
PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
For additional clarification on how to answer questions, put cursor over cell with red flagged corners.
PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
1	**Attached** annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.3 and S9.	Y		RSWMP5.pdf
2	**Attached** a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3.	NA	No Annexations	NA
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	2010 Information provided to Yakima County and presented to RSPG.	
4	Developed and fully implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y	Included in previous RSWMP Years 1-4 and current RSWMP year 5. http://www.yakimacounty.us/Stormwater/documents.html	RSWMP5.pdf
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y	In addition to the activity summary document, the results of the initial survey, specific public outreach actions, and examples of brochures are attached	Public Education and Involvement Summary_2011.pdf; Five Myths Stormwater
5	Implementing a program or policy with opportunities for the public to participate in the decision making processes involving the development, implementation, and updates of the SWMP. (S5.B.2.a and S9.E.2.c)	Y	Public meeting held March 31, 2011. No comments received during calendar year.	Public Input Meeting Notes_31Mar2011.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
6	Made the most current version of the SWMP available to the public. If posted on website, list address in *Comments* field. (S5.B.2.b)	Y	http://www.yakimacounty.us/stormwater/documents/RSWMP5.pdf	NA
7	Completed at least two-thirds of the map of your MS4. (S5.B.3.a)	Y		
7a	**Attached** a sumary of the status of the mapping and updated storm drainage infrastructure information; do not include the map. (S5.B.3.a)	Y	Included with Regional Mapping Summary.	Regional Stormwater Mapping Summary 2011.pdf
8	Developed and fully implemented an ongoing program to detect and address non-stormwater discharges to the MS4, including spills and illicit connections. (S5.B.3.c.i through iv)	Y		
9	Field assessed at least three high priority water bodies to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	All water bodies were field assessed and outfall locations verified by consultant during 2011 (Spring Creek East, Bachelor Creek, and Wide Hollow Creek)	
9a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	Outfall list attached. Many outfalls may actually only go to infiltration ponds/swales with no overflow. No illicit discharges discovered.	City of Union Gap_Outfalls.pdf
10	Distributed appropriate information to target audiences to inform public employees, businesses, and the general public of hazards associated with illicit discharges. (S5.B.3.d.i)	Y	Incorporated in most facets of the of Public Education and Outreach program.	
11a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y	http://www.yakimacounty.us/stormwater/illicit_discharges.html	NA
11b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	NA	No reports received.	NA

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
12	Provided adequate training to all staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections. (S5.B.3.f)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/documents/IDDE%20Procedures.pdf Training held in 2010 and is ongoing.	Employee Stormwater Training Master Version.pdf
13	Provided training to all municipal field staff that as part of their normal job resonsibilities might come into contact with or otherwise observe an illicit discahrge or illicit connection to the MS4, including office personnel who might receive reports of illicit discharges. (S5.B.3.g)	Y	Training held in 2009 and 2010; is ongoing.	Employee Stormwater Training Master Version.pdf
14	Adopted and implemented procedures for IDDE program evaluation and assessment. (S5.B.3.e)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/docume	NA
14a	**Attached** summary of numbers and types of illicit discharges identified; inspections made; and any feedback received from public education efforts. (S5.B.3.e)	NA	No reports received.	NA
15	Adopted and implemented procedures for construction site plan review. (S5.B.4.b)	Y	IDDE Procedures document available April 10, 2009. http://www.yakimacounty.us/stormwater/docume	NA
16	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	Y		
16a	Number of site plans reviewed during the reporting period:	Y	1 site plan reviewed.	
16b	Number of SWPPPs reviewed during the reporting period:	NA	1 SWPPP reviewed.	
16c	Number of site plans approved during the reporting period:	NA		
17	Adopted and implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
18	Provided adequate training for all staff involved in permitting, plan review, field inspection and enforcement for construction site runoff control. (S5.B.4.b.i and S5.B.4.c.ii)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
19	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	Y		
19a	Number of sites inspected during the reporting period:	Y	1 site inspected, ongoing construction.	
19b	Number of enforcement actions taken during the reporting period:	NA		
20	Provided information to construction site operators about training available on how to comply with requirements in Appendix I and the BMPs in the *Stormwater Management Manual for Eastern Washington,* or an equivalent document. (S5.B.4.d and S5.B.5.e)	Y	Training opportunities list available on regional stormwater website http://www.yakimacounty.us/Stormwater/training.html	
21	Adopted and implemented procedures for post-construction site plan review. (S5.B.5.b)	Y		
22	Adopted and implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y		
23	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	Y		
23a	Number of sites inspected during the reporting period:	Y	6 sites inspected.	
23b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	NA		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
23c	Number of enforcement actions taken during the reporting period:	NA		
24	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	Y		
24a	Number of structural BMPs inspected during installation during the reporting period:	Y	6 BMPs inspected.	
25	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y	Site plan review training held September 28, 2011.	Site Plan Review Training.pdf; Plan Review Training Sign In_28Sep2011.pdf
26	Developed and fully implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y	Plans developed in 2009. Any new BMPs not already being implemented began to be implemented in 2010.	
27	Inspected stormwater treatment and flow control facilities owned or operated by the Permittee at least once. (S5.B.6.a.i)	Y	All facilities inspected by consultant during 2011 mapping.	City of Union Gap_Outfalls.pdf
27a	Number of known facilities:	Y	74 outfalls mapped. Many outfalls may actually only go to infiltration ponds/swales with no	
27b	Number of facilities inspected during the reporting period:	Y	Inspected 74 outfalls.	
28	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	NA	No projects during reporting period	NA
29	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y	Spot checks conducted after May 2011 10 year plus event.	Spot Inspections_10 yr event_17May11.pdf

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
30	Provided adequate training for staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Y	Training held in 2010. Additional follow-up training developed in 2011 and is ongoing.	Employee Stormwater Training Master Version.pdf
31	**Attached** information identifying the BMP(s) selected for runoff treatment BMP effectiveness, and describes that status of identification of sites, if applicable. (S8.C.2.b)	NA	Below population threshold for requirement.	NA
32	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Y	Public education and outreach NOV response letter sent to Ecology.	
33	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	NA	No known discharges.	
34	Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)	NA	No known discharges.	
35	**Attached** a summary of the status of implementation of any actions taken pursuant to S4.F and the results of monitoring, assessment, and evaluation efforts conducted during the reporting period. (S4.F.3.d)]	NA	No actions taken.	

Question	Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable

REMINDER: Save your work as you go. Did you answer each question, provide necessary background information in the *Comments* field, and attach and/or note the filename and page number of all required documentation in the *Attachment* field? Proceed to the **Info Collection (Monitoring)** tab next.

Information Collection, S8.B.1 Description of Monitoring Studies

If applicable, you are required to provide information to fulfill permit requirement S8.B.1 in each annual report. You must describe any stormwater monitoring or studies conducted by you during the reporting period. If stormwater monitoring was conducted on your behalf, or if studies or investigations conducted by other entities were reported to you, you must briefly describe the type of information gathered or received during the reporting period.

Please note in row #1 of the table below if you have no information to report.

NOTE: Please limit your entries to 255 characters per cell. You may include additional information in your Supplemental Documentation attachment and reference it below with the page number.

Information Collection

	Briefly describe any stormwater monitoring, studies, or type of information collected and analyzed during the reporting period. (S8.B.1)	Who/how to contact for additional information?
1.	No information to report.	
2.		
3.		
4.		
5.		
6.		

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part B for all annual reports.

B. SWMP Evaluation

You are required to assess the appropriateness of the BMPs you have selected to implement your SWMP. This evaluation is necessary to evaluate whether the MEP standard set by the permit is protective of water quality in your receiving water bodies. This assessment may be entirely qualitative. Answer **NA** if you are not yet implementing BMPs for a component of the SWMP. (S8.B.2 and S9)

	Question	Y/N/NA	Comments (50 word limit)
1.	Are the BMPs selected and implemented for Public Outreach appropriate to minimize pollutants in the MS4 to the MEP?	Y	Identification of target audiences has helped focus the public education message to those areas with high percentage impervious surface land cover. Distribution of the RSWMP using the Regional Stormwater website is a cost effective means of distribtuion compared to conventional hardcopy distribution. While two initial public random surveys indicate that there is a fair understanding of stormwater issues, future surveys will better gauge the effectiveness of billboards and brochure materials.
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	Public attendance and input at one public meeting on March 31, 2011 was attended by both concerned citizens and agency/partner staff compared to the 2009 meeting attend exclusively by stakeholders that have been involved in the Regional Stormwater process for an extended time.

3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	Improvements in water quality should result from removal of illicit discharges and connections during mapping and smoke testing has identified illicit connections to be removed, responding to hotline call reports, increased investigation effeciency from the developed procedures manual, and staff training.
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	Education and enforcement actions related to the ordinance have helped keep sediment and other pollutants out of the MS4. Training opportunities on the regional website provide contractors and others a listing of available stormwater related courses and conferences held by other entities. This is an inexpensive method for distributing this information and this webpage has been visited regulary.
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	Site plan review training was held and should help reviewers insure future projects are compliant with the ordinance and function properly. Site plan review should improve water quality indirectly by identifying any treatment/flow control structure defiencies prior to construction.
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	While no quantitive studies have been done to assess water quality improvement, street sweeping, employee training to decrease O&M related illicit discharges, and increased catch basin and flow control/treatment facility cleaning should be leading to not only improved water quality but better system functionality.

REMINDER: Answer each question Y/N/NA and provide necessary background information in the *Comments* field. Proceed to the next tab.

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part C for all annual reports.

C. Changes in BMPs or objectives (S8.B)

If any of the BMPs or objectives is being changed, list the old BMP and objective, the new BMP and objective, and a justification for the change below. (S8.B.2., and S9)

NOTE: You may choose to attach additional documentation justifying Changes in BMPs or objectives. Note such attachments in the *Justification for change* field.

	Old BMP	Old Objective	New BMP	New Objective
1	No BMPs changed			
2				
3				
4				
5				
6				
7				

REMINDER: Provide necessary background information. This is the final tab of the Annual R
Please review the entire worksheet for completeness and accuracy and save this document.
Report file PLUS any identified attachments to: **PH2_EAnnRpt@ecy.wa.gov** no later than M
two hard copies of the entire package to the address listed on the Certification tab.

Justification for Change

Report worksheet.
Email this Annual
March 31, 2012. Mail

REGIONAL STORMWATER MANAGEMENT PROGRAM

FOR

YAKIMA COUNTY AND THE CITIES OF YAKIMA, UNION GAP, AND SUNNYSIDE

IN COMPLIANCE WITH THE EASTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT

WAR04-6009, CITY OF SUNNYSIDE

WAR04-6010, CITY OF UNION GAP

WAR04-6013, CITY OF YAKIMA

WAR04-6014; YAKIMA COUNTY

PROGRAM - YEAR 5

MARCH, 2012

TABLE OF CONTENTS

Section **Page**

Contents

Tables and Figures **Page**

Abbreviations and Acronyms

AKART – All Known, Available, and Reasonable methods of control and Treatment

BMP – Best Management Practice

Co-permittees – Yakima County, City of Yakima, City of Union Gap, City of Sunnyside

DDD - Dichlorodiphenyldichloroethane

DDE – Dichlorodiphenyldichloroethylene

DDT – Dichlorodiphenyltrichloroethane

Ecology – Washington State Department of Ecology

ESA – Endangered Species Act

GIS - IDDE – Illicit Discharge Detection and Elimination

ILA – Interlocal Agreement or Intergovernmental Local Agreement

LID – Low Impact Development

MEP – Maximum Extent Practicable

MS4 – Municipal Separate Storm Sewer System

NOI – Notice of Intent

NPDES – National Pollutant Discharge Elimination System

O&M – Operation and Maintenance

PAH – Polyaromatic Hydrocarbon

POTW – Publicly Owned Treatment Works

RCW – Revised Code of Washington State

RSL – Regional Stormwater Lead

RSPG – Regional Stormwater Policy Group

RSWG – Regional Stormwater Working Group

RSWMP – Regional Stormwater Management Program

SWPPP – Stormwater Pollution Prevention Plan

TBD – to be determined

TMDL – Total Maximum Daily Load

TSS – Total Suspended Solids

UA – Urbanized Area

UGA – Urban Growth Area

UIC – Underground Injection Control

USEPA – United States Environmental Protection Agency

VE – Value Engineering

WAC – Washington Adminstrative Code

YCHD – Yakima County Health District

1 Introduction

The Eastern Washington Phase II Municipal Stormwater Permit issued by the Washington State Department of Ecology (Ecology) requires written documentation of stormwater management programs developed and implemented by permittees. Four permittees: Yakima County, City of Yakima, City of Union Gap, and City of Sunnyside; discharge stormwater from their Municipal Separate Storm Sewer Systems (MS4s) and have obtained permit coverage from Ecology as regional co-permittee partners described by an interlocal governmental agreement (ILA) signed July 5, 2007. The agreement describes specific permit compliance activities that the regional partners will implement during the first three years of the permit. A table of activities, implementation and due dates, and responsibilities is provided at Appendix A.

Permittees must develop stormwater management programs that contain minimum performance measures in eight required program elements. Descriptions of the performance measures that the regional co-permittees will perform are the core of this document. For context, the regulatory and physical environment as related to stormwater is provided to support the performance measures. Each performance measure identifies whether it is part of the ILA, contains a goal, describes existing or related activities, presents measurable activities to meet the goal, identifies documentation needed for assessment, and describes responsibilities.

The Regional Stormwater Management Program (RSWMP) is based on the permit requirements, previous work by consultants and an intergovernmental agreement between the communities for stormwater permit coverage. It builds on those works by specifying actions, setting measurable activities and identifying how to measure the success of the actions. Full implementation of the stormwater program will be a long-term, iterative process, thus this document is designed as a living document, easily adapted as performance measures are implemented, evaluated, and revised, if needed. The Surface Water Management Division of Yakima County Public Services, in collaboration with other city and county departments developed this document. Copies, and other regional stormwater information, can be obtained in the 4th Floor Courthouse main lobby, the Regional Stormwater website, or by contacting the Stormwater Management Program at 509-574-2300.

1.1 Regulatory Environment

The Clean Water Act, enacted in 1972, contains the legal requirement for protecting the quality of waters of the nation. The Act authorizes the Administrator of the US Environmental Protection Agency (USEPA) to carry out its requirements. USEPA initially focused water quality improvement efforts on reducing discharges of pollutants from pipes (point sources), primarily wastewater from industrial processes and municipal sewer treatment facilities.

Diffuse sources of pollutants (non-point sources) also contribute to water pollution nationwide. Runoff from stormwater can collect pollutants as it flows across the landscape and discharges to surface and ground water. As a result, USEPA has begun to regulate urban stormwater discharges by requiring municipalities to obtain National Pollutant Discharge Elimination System (NPDES) permits for stormwater.

Phase I of the NPDES Stormwater Program began in 1990. Large and medium size municipalities with populations greater than 100,000 were required to develop and implement stormwater management programs. Phase II of the regulations requires

small municipalities (<100,000) and contiguous areas with smaller – but still urban – communities to develop and implement stormwater management programs. In February of 2007, the Department of Ecology issued the Eastern Washington Phase II Municipal Stormwater Permit, requiring Yakima County and the Cities of Yakima, Union Gap, and Sunnyside to submit a Notice of Intent (NOI) seeking coverage and to comply with the terms of the permit.

Phase II communities must implement performance measures that reduce pollutants in stormwater to the "maximum extent practicable" (MEP). MEP is the technology-based standard established by Congress in CWA §402(p)(3)(B)(iii). The RSWMP focuses on performance measures that are technically sound and cost effective, while meeting permit requirements.

1.2 Development of the Regional Stormwater Management Program

Regional stormwater programs began in 1994 when Yakima County and the City of Yakima completed a Yakima Regional Stormwater Management Plan. A coalition formed in 2001 between local cities and the County to conduct a planning project that better defined regulatory requirements and costs, and developed a funding mechanism. Upon approval of an inter-local agreement (ILA), stormwater planning, financial, and public relations consultants were selected in May 2002. The consultants developed a minimum program ensuring compliance with proposed stormwater regulations by examining the requirements of NPDES, Underground Injection Control (UIC, or drywell) regulations, and actions to control Endangered Species Act (ESA) stormwater impacts. Staff participated in several state and regional activities (advisory groups to Ecology for the *Stormwater Management Manual for Eastern Washington*, the *Model Municipal Stormwater Program for Eastern Washington*, and the Stormwater Policy Advisory Committee) to ensure that the regulatory requirements were well known. A detailed list of required activities prepared for each jurisdiction was systematically examined (interviews with city and county staff, etc.) and any activity that was already partially or wholly occurring was noted so that only additional costs over and above current expenditures (a funding gap) would be tallied. After the gap analysis was completed, a stormwater utility ordinance was prepared based on examples of ordinances from recently established utilities in other areas, recent court decisions, and direction from a legal consultant. In response to comments made at the public hearings, primarily from agricultural interests, the City of Yakima suggested development of a "regional" joint stormwater utility ordinance for only the urban areas. A joint ordinance was prepared, however, only the City of Yakima adopted it in November 2004. Yakima County and the City of Union Gap took no further action. By fall of 2005, a new guidance group, the Regional Stormwater Policy Group (RSPG), consisting of elected officials from the City of Yakima, Union Gap, Sunnyside, and Yakima County formed to re-review overall program costs and explore mechanisms for further cost savings by regional consolidation. The RSPG commissioned a Value Engineering (VE) study to re-examine the costs of individual stormwater programs for each municipality. The VE study, completed in October of 2006, found some expected cost savings based on changes in timing from earlier permit drafts, removal of a demonstration component from the UIC program, and changes in the idea of what constituted a minimum program. Upon completion of the VE study, the RSPG re-hired the VE consultant to conduct an analysis of additional savings based on a regional approach. The HDR regional report concluded in January of 2007 that a sizeable savings over the VE study costs was achievable with a regional program, especially in the first three years of the permit. Ecology issued

individual permits to the parties on February 16, 2007 and a three-year ILA for regional permit compliance was signed on July 5, 2007. An NOI for joint permit coverage was submitted in August 2007 and development of the RSWMP began. Ecology issued co-permittee status for participating RSPG parties on October 1, 2007, identifying Yakima County as the "lead entity". To reduce confusion and provide consistent nomenclature, the regional parties are identified as follows:

Regional Stormwater Lead (RSL): Yakima County Public Services staff with responsibility to implement the regional tasks identified in the ILA.

Regional Stormwater Working Group (RSWG): City of Yakima, Sunnyside, and Union Gap staff with responsibility to support the RSL by providing data on reportable and other stormwater activities relevant to the ILA and for other permit actions not identified as the responsibility of the RSL.

Regional Stormwater Policy Group (RSPG): Appointed officials from each of the four regional partners that oversee and guide the RSWG and RSL as they implement the conditions of the permit.

An ILA for years 4 and 5 of the permit was signed by the regional partners on November 10, 2009. Specific performance measures identified in this document have been updated to reflect new ILA obligations. An ILA extension was signed on June 21, 2011 extending the existing ILA obligations during the time period that Ecology has extended the existing NPDES permit.

1.3 Physical and Economic Environment

Yakima County lies east of the Cascade Range in the south-central region of Washington (Figure 1). The terrain ranges from the steep, forested slopes of the Cascade Range to relatively flat agricultural lands lying south of Ahtanum Ridge and west of the Yakima River, centered on the town of Harrah. Four generally west-northwest to east trending ridges (Umtanum, Yakima, Toppenish and Ahtanum) bisect the Yakima River basin, creating broad valleys separated by ridgeline gaps. The altitude of the County ranges from 8,184 ft (feet) above sea level in the Cascade Range to about 630 ft along the Yakima River near Grandview. The Yakima River basin contains a variety of landforms, including the glaciated peaks and deep valleys of the Cascade Range, broad river valleys, and the lowlands of the Columbia Plateau. Much of the area is undeveloped. Agriculture, urban development, and most of the population are concentrated in a 10- to 15-mile-wide band along the Yakima River. Agricultural production, which ranks first in Washington with a value of $900 million per year, is the base of the county economy. Fertile silt-loam soils of the Yakima River Valley and the availability of irrigation; yields a diversified range of farm products. Farm and forest production in the county supports a variety of manufacturing and other activities in the urbanized areas. Food processing, including fruit and vegetable canning, sugar production, viticulture and meat packing, are the dominant industries. Trade is the largest of the non-farm industry sectors, accounting for 17 percent of the non-farm employment (13,200 jobs). Yakima County has a high concentration of wholesale trade business reflecting warehousing of food products. Regional distribution centers, Interstate Highway 82 and one of the main Burlington Northern Santa Fe rail lines make the area a transportation focus in the central part of the state.

Sixty-six percent of the county population resides within incorporated communities, of which the City of Yakima is the largest, with an estimated population of 91,630 in

2011(Table 1). The Cities of Yakima and Union Gap (population 6,055) are located between Selah Gap in the Yakima Ridge and Union Gap in the Ahtanum Ridge south of the confluence of the Naches and Yakima Rivers (Figure 1). The City of Sunnyside is located in the south-east part of the county, in the lower Yakima River basin between the Horse Heaven Hills and the Rattlesnake Hills, approximately three miles north of the Yakima River (Figure 1).

Table 1. Summary of population and area for regional co-permittees.

City/County	Population	Statewide Rank (within type)	Land Area (Square Miles)
Yakima County	244,700*	8	4311
- Unincorporated County	84,300*	9	4197.2
- Incorporated County	160,400*	7	113.8
- County UGA + 2000 Census Urban	22,934	n/a	37.5
City of Yakima	91,630*	11	27.3
City of Union Gap	6,055*	108	5.1
City of Sunnyside	16,010*	63	6.6

*State of Washington Office of Financial Management, April 1, 2011 estimate

Summer weather of the Yakima River basin is hot and dry, typical of a continental climate. Winters are moderately cold and relatively dry due primarily to the maritime influence of the prevailing westerly circulation from the Pacific Ocean and a rain shadow effect by the Cascade Mountains. Approximately 75 percent of the annual precipitation occurs from October through March. Annual precipitation varies from more than 100 inches in the Cascade Range to less than 10 inches in the lower elevations. Snowfall in excess of 400 inches falls on the higher slopes of the Cascade Range, and the lower valleys receive from 15 to 20 inches. Stormwater runoff typically occurs under rapid warming events that melt accumulated snow or during localized early summer thunderstorms. Winter temperatures normally range from approximately 20°F at night to approximately 30°F during the day. Temperatures of 0°F or below can be expected in January or February. Normal summer temperatures reach 90°F during the day but cool rapidly to near 60°F at night. Temperatures exceeding 100°F are unusual; however, a few readings over 110°F have been recorded.

1.4 Regional Receiving Waters and Water Quality Standards

Stormwater from the regional MS4 is discharged to the following receiving waters: Naches and Yakima Rivers, Spring, Ahtanum, Bachelor, Cottonwood and Wide Hollow Creeks; and the Sulfur Creek Wasteway. Washington Department of Ecology assigns beneficial uses to these waters that determine water quality standards. Numeric criteria promulgated at Chapter 173-201A WAC protect designated beneficial uses. Regional receiving waters have a range of designated beneficial uses including salmonid spawning, domestic consumption, primary and secondary contact recreation, and

aesthetics. Sulphur Creek Wasteway is assigned lesser quality beneficial uses including secondary contact recreation, industrial and stock watering, and wildlife habitat.

1.5 Potential Stormwater Pollutants and Impacts on Water Quality

The RSWMP and the permit do not focus on specific pollutants. Rather, the permit contains provisions that require an evaluation of land uses, target communities (such as specific area or type of industry), and monitoring to detect likely pollutants. Once monitoring detects a pollutant at a concentration of concern, a set of BMPs specific to that pollutant can be identified, and a pollutant-specific approach adopted. Where TMDLs are required for a detected pollutant, regional municipalities will participate in their development and implementation.

Pollutants typically found in urban runoff include sediments, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, and pesticides and herbicides. To date, no comprehensive analysis of stormwater runoff from the regional MS4 has been conducted to determine relative magnitude of these potential pollutants in regional stormwater; however, specific pollutants have been identified in some regional receiving waters. Documentation of other illicit stormwater pollutant discharges is anecdotal or limited in documentation in County records (e.g. anti-freeze and apple process wastewater from a fruit packing warehouse).

The following is a description of typical stormwater pollutants that may occur in the regional stormwater discharge and their impacts.

Sediment is a common component of stormwater and can be a pollutant when it is detrimental to aquatic life (primary producers, benthic invertebrates, and fish). Sediment can interfere with photosynthesis, respiration, growth, reproduction, and oxygen exchange between aquatic organisms and the surrounding water. In addition, sediment can transport other pollutants that attach to it including nutrients, trace metals, and hydrocarbons. Sediment is the primary component of total suspended solids (TSS), a common water quality analytical parameter. Ecology conducted a total maximum daily load (TMDL) evaluation of the lower Yakima River basin in 1994-1995. Historical and TMDL data indicated significant correlations between TSS and turbidity, and between TSS and total DDT.

Nutrients (typically nitrogen and phosphorous) are the major plant nutrients used for fertilizing and are often found in stormwater. Nutrients can accelerate growth of vegetation, particularly algae, resulting in excessive concentrations that impair use of water in lakes and other sources of water supply. In addition, un-ionized ammonia (one of the nitrogen forms) can be toxic to fish. A study by USGS and the South Yakima Conservation District on nutrient enrichment processes in the lower Yakima River is underway to determine sources of nutrients and economical performance measures in response to violations of dissolved oxygen and pH standards caused by excess nutrient loads.

Pathogens (bacteria and viruses) are common contaminants of stormwater. Sources of these contaminants include animal excrement, sanitary sewer overflow or cross connection, and soil. A TMDL for total coliform bacteria is in place for Selah Ditch, primarily due to stormwater sources from the City of Selah stormwater system. Sulphur Creek Wasteway is under development of a TMDL because it has not met State criteria for fecal coliform.

Oil and grease includes a wide array of petroleum hydrocarbons, some of which are toxic to aquatic organisms at low concentrations. The main sources of oil and grease are leakage from engines, spills at fueling stations, overfilled tanks, restaurant waste or illegal oil disposal. No TMDL studies for oil and grease are currently underway in the Yakima River basin.

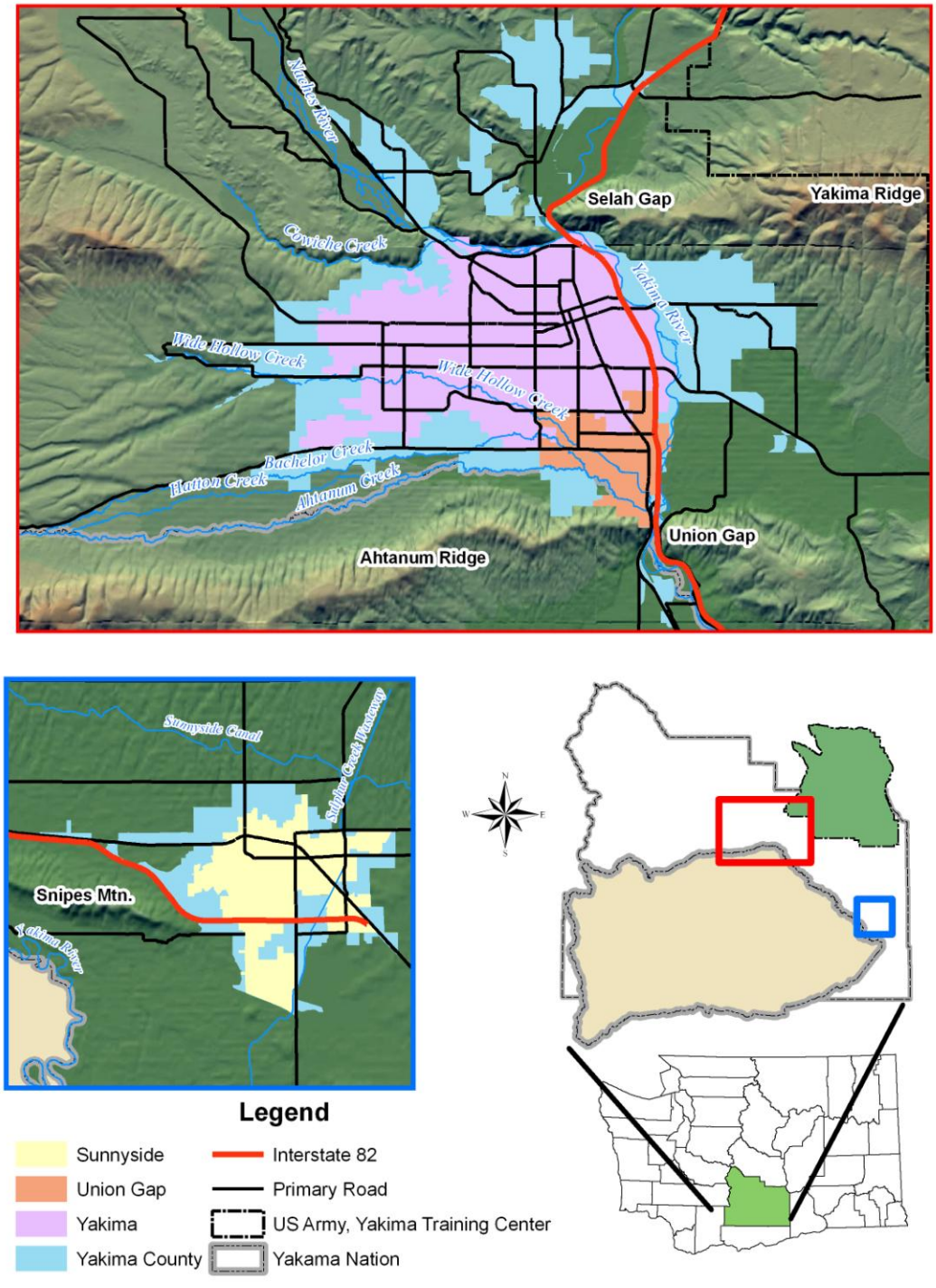
Metals (including lead, zinc, cadmium, copper, chromium and nickel) are commonly found in stormwater. Many of the artificial surfaces of the urban environment (e.g., galvanized metal, paint, automobiles, or preserved wood) contain metals, which enter stormwater as the surfaces corrode, flake, dissolve, decay, or leach. Metals are of concern because they are toxic to aquatic organisms, can bio-accumulate (accumulate to toxic levels in aquatic animals such as fish), and have the potential to contaminate drinking water supplies. In 2000, Ecology reported low concentrations of copper, cadmium, mercury, silver, zinc and lead in the Upper Yakima River (Kittitas County). No TMDL studies for metals are currently underway in the Yakima River basin.

Organic compounds (including toxic synthetic compounds such as adhesives, cleaners, sealants, and solvents) are widely applied and may be improperly stored and disposed. In addition, deliberate dumping of these chemicals into storm drains and inlets causes environmental harm to waterways. No TMDL studies for organic compounds are currently underway in the Yakima River basin.

Pesticides (including herbicides, fungicides, rodenticides, and insecticides) have been repeatedly detected in urban stormwater around the country. As use of pesticides has increased, so too have concerns about the potential adverse effects of pesticides on the environment and human health. Accumulation of these compounds in simple aquatic organisms, such as plankton, provides an avenue for bio-magnification through the food web, potentially resulting in elevated levels of toxins in those organisms that feed on them, such as fish and birds. DDT, associated with sediment in irrigation return water to the lower Yakima River basin is currently under a TMDL management plan. Additionally, the Yakima River, Moxee Drain, Wide Hollow and Spring Creeks are under study for DDT, DDD, DDE, chlorpyrifos, dieldrin, and endosulfan due to past monitoring that indicated the water bodies don't meet water quality standards for those pollutants. Most of these pollutants are associated with agricultural chemicals that are no longer used and are entering streams through sediments eroding off farmland. In 2009, Ecology reported results for 12 samples collected during six rain storms for runoff in the Cities of Yakima and Union Gap. Stormwater exceeded human health criteria for DDE and PCBs in almost all samples and for DDT, DDD, and dieldrin in almost half the samples.

Gross Pollutants (trash, debris, and floatables) are common to urban environments and industrial sites and may create an aesthetic "eye sore" in waterways. Gross pollutants also include plant debris (such as leaves and lawn-clippings from landscape maintenance), animal excrement, street litter, and other organic matter. When these substances decay in streams, lakes, and estuaries dissolved oxygen levels are depressed, sometimes causing fish kills. No TMDL studies for aesthetics are currently underway in the Yakima River basin.

Figure 1. Yakima RSWMP planning area showing major geographic features.



2 PROGRAM ELEMENTS AND PERFORMANCE MEASURES

This section describes the eight RSWMP elements (program elements) contained in the permit and the ILA: 1) Public Outreach and Education, 2) Public Involvement and Participation, 3) Illicit Discharge Detection and Elimination, 4) Construction Stormwater, 5) Post-Construction Stormwater, 6) Pollution Prevention and Good Housekeeping , 7) Monitoring and Program Evaluation, and 8) Reporting and Record Keeping. The RSWMP addresses the program elements above through the development of performance measures. Each performance measure contains measurable activities that describe specific actions taken to implement the performance measure.

The program elements are organized consistent with the permit structure in sections S5, S7, and S8. Each program element contains an introductory statement that discusses permit requirements and identifies other program elements related to the current program element, called supporting program elements. Fact sheets then describe the performance measures within the program element, state goals, identify existing activities, provide measurable activities, and identify assessment documents. An example performance measure fact sheet is provided (Figure 1). At the end of each program element is a table summarizing the performance measures, implementation schedules and responsible departments.

Figure 2. Performance Measure Template

PERFORMANCE MEASURE

Permit section, name of Performance Measure, implementation deadline ILA=Yes or No

GOAL

An anticipated outcome that guides the use of the performance measure.

EXISTING ACTIVITIES

This section describes existing activities associated with the performance measure. The regional municipalities may not be responsible for all activities (e.g., volunteer groups and countywide programs), but they affect the local community and represent stormwater management activities already underway. Additional actions implemented by the permittees relating to S5.B of the permit are described here.

MEASURABLE ACTIVITIES

This section lists the quantifiable activities that describe how the performance measure will be accomplished and the responsible party. Activities include such things as reviewing or developing a specific number and type of document or procedure, providing a specific number and type of training, etc.

ASSESSMENT

This section identifies documentation needed to assess performance measures as required by the permit. The RSWMP Administrator is responsible for assessment documentation.

ACCOMPLISHMENTS

This section will list measureable activities accomplished during the previous calendar year. A statement is provided if no activities were required during the previous calendar year.

APPROPRIATENESS

This section will contain an evaluation of the appropriateness of the Performance Measure, as required by permit section S8.B.2.

2.1 Public Education and Outreach Program Element

The Public Education and Outreach Program Element focuses on educating the public about the potential impact of stormwater discharges on receiving waters. Increased public knowledge about how their actions and choices affect stormwater and ultimately the area water bodies. Public Education should result in increased public acceptance and support of the stormwater program.

2.1.1 Permit Requirements for Public Education and Outreach

Section S5.B.1 of the Eastern Washington Phase II NPDES Stormwater Permit requires permittees to develop and begin implementation of a multimedia public education program to distribute educational materials to the community. Three general audiences are identified in the permit:

- the general public,
- businesses;
- engineers, construction contractors, developers, development review staff and land use planners.

Specific target audiences must be identified by permittees within three years. Strategies to reach these audiences must be developed and fully implemented no later than 180 days prior to the expiration of the permit.

Related requirements are found at sections S5.B.2.b (Public Involvement and Participation), S5.B.3.d.i (Illicit Discharge Detection and Elimination), S5.B.4.d (Construction Site Stormwater Runoff Control) and S5.B.5.d (Post-Construction Stormwater Management for New Development and Redevelopment). Permittees are required to post the stormwater management program documentation submitted with each annual report on a website, either the permittee's or Ecology's. Permittees are required to provide information to construction site operators and design professionals about training available on erosion and sediment control and how to comply with Appendix 1 and apply BMPs described in the *Stormwater Management Manual for Eastern Washington (2004).*

2.1.2 Supporting Program Elements

The Public Participation and Involvement Program Element works with the Public Education and Outreach Program Element by encouraging citizens to be informed and involved in the stormwater program. Specific outreach tasks are also identified in the Illicit Discharge and Detection Elimination, Construction and Post-Construction Program Elements.

2.1.3 Performance Measures

The 2012/2013 Stormwater Public Outreach plan (Appendix B) will be implemented. The following individual performance measures will continue to be implemented as part of this plan.

PERFORMANCE MEASURE

S5.B.1.a. Identify and Characterize Target Audience by February 2010 ILA=Yes

GOAL

Identify land uses and areas within the regulated MS4 that potentially contribute the most to stormwater pollution. Permittees can develop stormwater education messages for target audiences within the identified areas to address specific pollution concerns.

EXISTING ACTIVITIES

Input from specific interest groups was received during the 2001 – 2004 efforts to adopt a stormwater utility. These user groups are already engaged in the stormwater discussion.

Illicit discharge reports will be logged with location information. An area or community identified as having a relatively high incidence of illicit discharges may be included in a future recommendation for targeted stormwater pollution prevention outreach.

A report (link) prepared in February of 2010 indicates that impervious surfaces are more important than differences in land use and associated pollutant loads. Public education messages will be targeted to those areas with relatively high impervious surfaces with messages that focus on runoff reduction of all pollutants.

MEASURABLE ACTIVITIES

The RSL will use a simple model to estimate stormwater runoff pollutant loads from land uses found within the urban area. Results will be used to identify specific audiences, by land use, based on relative loadings. The method requires information including the sub-watershed drainage area and impervious cover, stormwater runoff pollutant concentrations, and annual precipitation. With the Simple Method, generalized pollutant values for land uses such as new suburban areas, older urban areas, central business districts, and highways can be used to calculate expected annual pollutant loads.

1. The simple model is most appropriate for comparing the relative stormflow pollutant loads from different land uses and provides a general planning estimate. Some example land uses identified in stormwater literature include:
    - Residential
    - High Density Residential
    - Commercial
    - Industrial
    - Freeways/Streets
    - Open Space

Other land uses may be used depending upon availability of runoff concentration data in the literature. Details of the simple model are at the Stormwater Center Simple Method website.

Co-permittees will provide input regarding target audiences based on interactions with their constituents.

Selected target audiences, community input and the simple model, will be the focus of public outreach activities in years four and five of the permit through presentations, mailings, bill information, specific spot ads or other outreach mechanisms. The model results may be used to identify sampling parameters and locations as required by the permit in section S8.C.1.

ASSESSMENT

1. Develop one GIS data layer identifying land uses associated with pollutant loads in the literature.
2. Produce one potential pollutant map identifying relative spatial contributions to stormwater pollution.

ACCOMPLISHMENTS

- Specific target audiences were summarized in a table with preferred means of outreach to be used (Appendix C) in conjunction with the existing general target audiences identified through the stormwater simple model.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Identification of target audiences has helped focus the public education message both to those areas with high percentage impervious surface land cover and to types of businesses that may be more likely to produce stormwater pollutants.

Performance Measure

S5.B.1a. Staff Presentation to Civic Groups by August 2011	***ILA=Yes***

GOAL

Educate the public, businesses and the development community about 1) potential pollution impacts of stormwater on receiving waters, 2) illicit discharges, and 3) the impact of development on stormwater pollution.

EXISTING ACTIVITIES

A number of presentations were developed in 2003. Minor changes will leverage the investment already made.

MEASURABLE ACTIVITIES

1. The co-permittees will develop a presentation with speaker notes for staff to present to target audiences, as requested. The presentation will contain the following:
    - Impacts of pollutants in stormwater;
    - Sources of stormwater pollutants from residential and commercial areas;
    - Actions individuals can take to avoid, reduce, minimize or eliminate the impacts of stormwater pollution and improve water quality;
    - Illicit discharge detection and prevention for businesses and the general public;
    - Proper management of toxics and hazardous materials;
    - Good housekeeping practices for commercial operations;
    - Technical standards for development;
    - Stormwater BMPs;
    - Information about the development of stormwater site plans.
2. The co-permittees will place a link on their stormwater web page to request a presentation.

ASSESSMENT

1. Track the number of presentations given to target audiences, number in the audience, and dates.
2. Incorporate appropriate community comments in presentation materials.
3. Track number of presentation requests obtained.

ACCOMPLISHMENTS

- Presentation available and announcement for speaker requests posted on the homepage of the regional website (link). A list of civic groups was developed for specific advertising of availability of speakers.

APPROPRIATENESS

This Performance Measure has not been fully implemented, therefore appropriateness cannot be evaluated.

Performance Measure

S5.B.1a. Distribute Paper Materials by August 2011	***ILA=Yes***

GOAL

Educate the public, businesses and the development community about 1) stormwater pollution impacts on receiving waters, 2) illicit discharges, and 3) the impact of development on water quality.

EXISTING ACTIVITIES

Messages were developed and presented to the RSPG on November 4, 2010. A pre-message survey will be followed by message distribution by August 16, 2011.

MEASURABLE ACTIVITIES

The co-permittees will develop printed materials address the specific audiences required by the permit: general public, businesses with illicit discharge potential, the development community including engineers, construction contractors, developers, development review staff and land use planners. The printed materials will contain the following:

- Impacts of pollutants in stormwater;
- Sources of stormwater pollutants from residential and commercial areas;

The printed materials targeting the general public will contain:

- Actions individuals can take to avoid, reduce, minimize or eliminate the impacts of stormwater pollution and improve water quality;

The printed materials for businesses will contain:

- Information about what constitutes an illicit discharge;
- Illicit discharge detection and prevention for businesses and the general public;
- Proper management of toxics and hazardous materials;
- Good housekeeping practices for commercial operations;

The paper materials for developers and contractors will contain:

- Technical standards for development;
- Stormwater BMPs;
- Information about the development of stormwater site plans.

ASSESSMENT

1. Maintain a file of current and past information products.
2. Track distribution of outreach material including audience, quantity, and date.
3. Document any comments or suggestions made by the community regarding outreach materials.

ACCOMPLISHMENTS

- A “Five Myths About Stormwater in Yakima County” brochure was developed and printed in English and Spanish (Appendix D). Three thousand were distributed to 11 locations throughout the regional jurisdictions. City jurisdictions also developed and distributed additional brochures aimed as specific businesses in addition to information included with utility bills and city newsletters.
- The City of Yakima staff had a stormwater awareness booth at the fair. Residents from all over Yakima County might have viewed this display thus providing stormwater public education and outreach to residents of all regional jurisdictions.
- Stormwater billboard campaign held during eight week run from October to December. Nine billboards were located throughout the regional group jurisdictions.
- An initial phone survey was conducted in September 2011 to determine current public awareness of stormwater issues. Results indicate that 50% of those surveyed have a good basic understanding of stormwater issues (Appendix E)

APPROPRIATENESS

This Performance Measure has been recently implemented, therefore appropriateness cannot be evaluated. A random phone surveys to identify citizens current knowledge of stormwater issues prior to the brochure distribution and after has been completed, but the difference in the results was within the margin of error. Future random phone surveys will hopefully show improvement if the printed materials are effective.

PERFORMANCE MEASURE

S5.B.1.b & S5.B.2.b RSWMP on the County Web Site by May 2008 ***ILA=Yes***

GOAL

Inform the public about the Regional Stormwater Management Program. Provide access to documents, educational materials, regulations, and other stormwater materials of public interest. Post written documentation of the RSWMP (this document) and training opportunity information required by the permit in sections S5.B.4 and 5.

EXISTING ACTIVITIES

The County maintains a Recycling and Waste Prevention Education, Outreach, and Promotion Program under the Solid Waste Management Plan. Education and incentives for recycling offered through the Solid Waste program may reduce illicit discharges to the MS4. These materials are available on the County website (link). The City of Yakima maintains online information on their stormwater program (link). The City of Sunnyside provides information on ways the public can help reduce storm drain maintenance cost at this link.

MEASURABLE ACTIVITIES

A Regional Stormwater Management Program website will be developed by the RSL, with assistance from County Technology Services, and will be published on the County's existing website. Specifically, the website will:

- Provide the latest version of the program documentation (this document) available to the public;
- Provide information about stormwater construction and post-construction training opportunities for construction site operators and design professionals.
- Publicly list a local telephone number for public reporting of spills or illicit discharges to the regional MS4.

Co-permittees will link to the Regional web page from their local stormwater page, and should publish or link to the illicit discharge phone number.

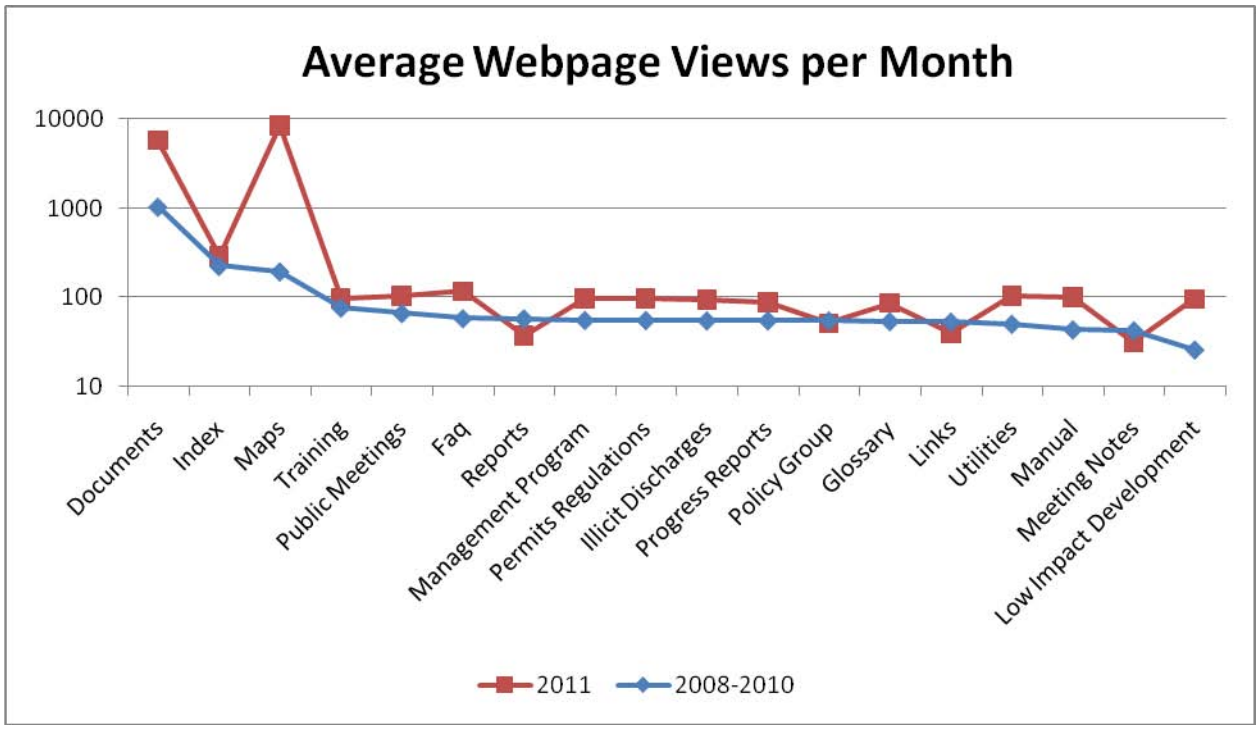
ASSESSMENT

1. Retain annual reports of website traffic provided by County Technical Services webmaster.
2. Keep a log of website changes.
4. Document comments or suggestions made by the community and responses regarding the content of the website.

ACCOMPLISHMENTS

- The March 2011 RSWMP document posted to the regional stormwater website.
- Training opportunities were published monthly to the regional stormwater website. An archive of progress reports and training opportunities is provided (link).
- Website traffic for the regional stormwater website is available for January-December 2011. This is presented by the average webpage views per month. Overall, web traffic increased on most webpages during 2011. Consistent with past years, the "Documents" page was one of the most visited, indicating that a large benefit of the

stormwater website is to distribute information by providing documents published by the RSL and others. Views of the maps page increased significantly in 2011 making it the most viewed page.



APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Distribution of the RSWMP using the Regional Stormwater web site is a cost effective means of distributing the program document compared to conventional hardcopy distribution.

Table 2. Public Education and Outreach – Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees	GIS	Tech. Services		
1. Identify and Characterize Target Audience												
A. Identify land uses using GIS							1		2			
B. Model estimated pollutant loadings using literature values for pollutant loads from land use types							1					
C. Identify land use areas with highest expected pollutant loadings							1	3				
2. Staff Presentation to Civic Groups												
A. Develop a model speaker's presentation and provide speakers as requested.								1				
B. Place speaker request on permittee website								1				
3. Distribute Paper Materials												
A. Develop and distribute printed materials for target audiences described in the permit								1				
B. Keep records of distribution of printed materials								1				
4. RSWMP Information on a Website												
A. Set up and maintain a separate web page for the RSWMP web page.							1	4		2		
B. Establish links to the Regional Stormwater Management website from co-permittee websites								2				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.2 Public Involvement and Participation Program Element

The Public Involvement and Participation Program Element provides opportunities for the public to become involved in decisions related to reducing pollutants in stormwater. Through participation, the public provides valuable input and assistance in program development and implementation. Increased public involvement and participation result in increased public acceptance and support of the program, and help to ensure a successful and effective program.

2.2.1 Permit Requirements for Public Involvement and Participation

The Eastern Washington Phase II NPDES Stormwater Permit requires the regional communities to comply with State and local public notice requirements when implementing the Regional Stormwater Management Program. In addition, permittees are required to:

1. Adopt a program or policy directive to involve the public in the continuing development, refinement and implementation of the activities described in this document;
2. Allow the public to review this document, making latest update available on a website by May 31, 2008.

2.2.2 Supporting Program Elements

The regional stormwater website (Public Education and Outreach Program Element) will provide an accessible means of disseminating the RSWMP information.

2.2.3 Performance Measures

PERFORMANCE MEASURE

S5.B.2.a & b Public Input on RSWMP by February 2008 ***ILA=Yes***

GOAL

Promote public participation in the development and review of the RSWMP. The RSWMP document provides the blueprint for regional compliance with the Permit. Public input will be solicited on this document to ensure all interested parties have a voice in activities that are conducted to comply with the Permit and reduce potential impacts associated with stormwater discharge from the regional co-permittees.

EXISTING ACTIVITIES

The regional municipalities comply with existing State and local public notice requirements regarding the adoption of public plans or policies implemented by their respective jurisdictions. Legal notices are advertised in the local newspaper, the Yakima Herald – Republic or, for Sunnyside, the Daily Sun News.

The Regional Stormwater Policy Group, an advisory group to the City Councils and Board of County Commissioners, was formed to find the most cost effective mechanism for permit compliance by member municipalities. As a result of their efforts, a minimal, but compliant, regional program has been adopted. Any action by the RSL or RSWG that may have an additional financial burden is subject to review by the RSPG.

MEASURABLE ACTIVITIES

1. The RSL will draft one model resolution to create opportunities for the public to provide input during the decision making processes involving the development, implementation and update of the RSWMP.
2. Co-permittees will adopt resolutions for public input policy in each municipality.
3. The RSL will post the RSWMP document on the Regional Stormwater web page and update at least annually.
4. The RSL will notify stakeholder groups that the RSWMP document is available for review and comment.
5. The RSL will implement a process for interested parties to provide input to the program, specifically by inviting comment during annual revision of the program documentation.
6. The RSL will provide the RSWMP document to the RSPG for review prior to submittal of annual reports required by the permit.

ASSESSMENT

1. Post links on the regional website to co-permittee resolutions adopting public input policies.
2. Receive, address and log comments received regarding the RSWMP.

ACCOMPLISHMENTS

- Meeting notes from one Public Input meeting are located in Appendix F.
- No program comments were received by the County during the past calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Public attendance and input at one public meeting on March 31, 2011 was attended by both concerned citizens and agency/partner staff compared to the 2009 meeting attended exclusively by stakeholders that have been involved in the Regional Stormwater process for an extended time. As public education efforts are implemented, it is anticipated that greater public involvement will occur.

Table 3. Public Involvement and Participation Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees				
1. Public Input on RSWMP												
A. Comply with State and local public notice requirements for the adoption and periodic revision of the RSWMP.							1	4				
B. Notify stakeholder groups that the RSWMP is available for review and comment.							1	4				
C. Update the RSPG members and participants concurrently with submittals of Permit Compliance Reports.							1					
D. Develop model resolution describing public input to RSWMP.							1					
E. Adopt resolutions.								1				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.3 Illicit Discharge Detection and Elimination (IDDE) Program Element

Most urban storm drain systems convey flows other than stormwater. These non-stormwater discharges enter the storm drain system from a variety of sources, such as landscape irrigation or car washing, and illicit discharges: sources of pollutants that enter the storm drain system through illicit connections and illegal dumping. An illicit connection is a physical connection to a storm drain that has not been approved by an agency and that conveys a prohibited pollutant. Illegal dumping is the intentional or inadvertent dumping of prohibited materials into the conveyance system, streets, inlets or basins, and the improper disposal of material on land that is then discharged to the municipal MS4 when it rains.

Non-stormwater contributions and illicit discharges are potential sources of pollutants discharged from the MS4 that may adversely impact receiving waters. The Eastern Washington Phase II NPDES Stormwater Permit requires the co-permittees to "detect and eliminate" non-stormwater discharges to the storm drain system.

2.3.1 Permit Requirements for Illicit Discharges

The Eastern Washington Phase II NPDES Stormwater Permit requires the regional co-permittees to develop, implement and enforce a program to detect and eliminate illicit discharges into the storm drain system. At a minimum, the permittees must:

1. Develop a storm sewer system map showing the location of known connections to the MS4; outfalls; the names and locations of all waters of the state that receive discharges from those outfalls; and areas served by discharges to ground;
2. Adopt an ordinance or other regulatory mechanism to effectively prohibit non-stormwater discharges into the storm sewer system and implement escalating enforcement procedures and actions;
3. Develop and implement a program to detect and address non-stormwater discharges to the MS4, including spills, illicit connections and illegal dumping;
4. Inform public employees, businesses, and the general public of hazards including human and environmental health risks associated with illegal discharges and improper disposal of waste;
5. Set up and publish an illicit discharge hotline;
6. Adopt and implement procedures for assessment of the illicit discharge and detection elimination program element;
7. Provide adequate training for three classes of employees:
    - Those employees responsible for IDDE;
    - Those employees that might come into contact with illicit discharges or observe a discharge or connection;
    - Those employees who will receive initial reports of illicit discharges.

The local ordinance does not need to prohibit the following types of non-stormwater discharges:

- Diverted stream flows
- Rising ground waters
- Uncontaminated ground water infiltration

- Foundation drains
- Uncontaminated pumped groundwater
- Air conditioning drains
- Irrigation water from agricultural sources that is commingled with urban stormwater
- Springs
- Water from crawl space pumps
- Footing drains
- Flow from riparian habitats and wetlands

The following non-stormwater discharges must be addressed unless the stated conditions are met. These discharges include:

Discharge	**Permit Condition**
Potable water sources including waterline flushing, hyperchlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water	Dechlorinated to a concentration of 0.1 ppm or less, pH adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4
Lawn watering or irrigation runoff	Minimized through public education and water conservation.
Swimming pool discharge	Dechlorinated to a concentration of 0.1 ppm or less, pH adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4. Swimming pool wastewater or filter backwash shall not be discharged to the MS4.
Street and sidewalk wash water	Minimized through public education and water conservation.
Other non-stormwater discharges	Shall be in compliance with a stormwater pollution plan reviewed by the permittee.

2.3.2 Supporting Program Elements

Many City and County operations such as hazardous waste pickup activities, MS4 and DID maintenance, street sweeping and roadwork, partially address this program element's intent. Regional co-permittees generally have some form of prohibition in their code making it illegal to pollute the storm drain system. The Public Education and Outreach Program and Municipal Operations/Good Housekeeping Program elements also inform public employees, businesses, and the public of hazards including human and environmental health risks associated with illegal discharges and improper disposal of waste.

2.3.3 Performance Measures

PERFORMANCE MEASURE

S5.B.3.a 1/3rd MS4 Map by February 2010 ***ILA=Yes***

GOAL

A map of the MS4 is required to effectively identify extent of the storm drain system, identify where pollutants may enter the system and prevent illicit discharges. Ecology requires a 1/3rd map of the permittees' MS4 by the end of year three of the permit, a 2/3rds map by the end of year 4 and a complete map by the end of year 5 of the permit.

EXISTING ACTIVITIES

The MS4 has been mapped to some extent in the County and cities. Geographic Information System (GIS) in the County contain a variety of data layers of manholes, catch basins, and storm drain pipes. Accuracy and completeness of these data layers is unknown.

The Construction Activities and Post-Construction Stormwater Management Program Elements both require knowledge of the MS4 location to determine if proposed activity will discharge to the MS4 and is therefore regulated. A general permit requirement is to conduct spot checks of the MS4 following storms with a return frequency greater than the 10 year event. A knowledge of the system location is critical to this task.

MEASURABLE ACTIVITIES

To develop a 1/3rd map product, the RSL will utilize existing GIS information. The following GIS layers will be collected from the co-permittees and GIS, including:

- Catch Basins
- Stormwater Manholes
- Stormwater Pipes
- Drainage Improvement Districts
- Roads
- Elevation
- Land Uses

Using the 1/3rd product will allow the regional municipalities to identify how much information and effort will be required to complete the map.

ASSESSMENT

1. List existing data layers collected from permittees.
2. Identify data layers and geographic areas requiring additional data collection.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Mapping, followed by smoke testing to confirm connections, has resulted in removal of illicit and non-

stormwater connections from the MS4. Improvements to water quality should result from removal of illicit connections.

PERFORMANCE MEASURE

S5.B.3a.i. Complete MS4 Map by February 2012 ***ILA=Yes***

GOAL

Finish the map of the co-permittees' MS4 in accordance with the permit.

EXISTING ACTIVITIES

1/3rd and 2/3rd map products and data gap analyses have been completed.

MEASURABLE ACTIVITIES

1. The co-permittees will collect the data in the areas identified to generate a 2/3rds map by end of year 4.
2. The co-permittees will QC the map and generate a complete product by the end of the permit period:
   - Provide to municipal maintenance staff for review. Adjust per review.
   - Conduct an accuracy assessment by field verifying a random sample of MS4 facilities. Accuracy will be defined as a given percent, based on how many random locations correctly match the GIS data.
3. The co-permittees will finalize and distribute the map.

ASSESSMENT

1. GIS data layers of new information.
2. Results of reviewer comments and accuracy assessment.

ACCOMPLISHMENTS

- Remaining data was collected by the jurisdictions for the complete map and atlas development began before the end of the calendar year. Quality control and feedback was provided by the RSL.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Mapping, followed by smoke testing to confirm connections, has resulted in removal of illicit and non-stormwater connections from the MS4. Improvements to water quality should result from removal of illicit connections. Mapping will also allow for more frequent maintenance of structures which could remove pollutants from the MS4 and assist with future monitoring which should have improve water quality.

PERFORMANCE MEASURE

S5.B.3.b Illicit Discharge Ordinance by August 2009 ***ILA=Yes***

GOAL

Develop an ordinance to prohibit illicit discharges to the storm drain system and provide for detection and elimination enforcement of the ordinance.

EXISTING ACTIVITIES

Yakima County Health District (YCHD) enforces County ordinances for solid waste disposal, sewage disposal and does outreach, inspections, and enforcement particularly as relates to septic tanks and septic tank pumps. YCHD investigates improper sewage disposal practices as reported by the public. These activities reduce the likelihood of stormwater contamination from improperly maintained or sited septic systems.

Illicit discharges that harm receiving waters in Yakima County are prohibited by County code (§12.05.340 (2)). The City of Yakima and City of Union Gap prohibit discharges to public storm drains unless suitable treatment has been provided (Yakima §7.65.030, Union Gap §12.12.030).

Garbage collection is voluntary in the unincorporated County, although there are ordinances against unauthorized dumping and unlawful accumulation. Garbage service is required in Yakima, Sunnyside and Union Gap.

MEASURABLE ACTIVITIES

1. The RSL will develop a model ordinance prohibiting illicit discharges to the MS4 in accordance with the permit requirements and work with co-permittees to adopt the ordinance with minor modifications to ensure regional consistency. To accomplish this, the RSL will:
   - Review and evaluate existing City and County ordinances regulating illicit discharges, specifically those to the storm drain system;
   - Coordinate with County Counsel, the Health District, and Solid Waste to identify areas of regulatory overlap regarding illicit discharges;
   - Evaluate available model ordinances for applicability;
   - Develop a model illicit discharge ordinance.
2. All regional permittees must adopt an illicit ordinance no later than 30 months from the date of permit issuance: August 16th, 2009.

ASSESSMENT

2. List City and County ordinances reviewed in context of illicit discharges.
3. List model ordinances reviewed in context of illicit discharges.
4. Record adoption of Illicit Discharge Ordinances in the Regional communities.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Water quality should improve over time as code enforcement personnel contact potential violators, public education messages highlight the new requirement and illicit connections are removed as a result of the ordinance.

PERFORMANCE MEASURE

S5.B.3.c IDDE Activities by August 2011 ***ILA=Yes***

GOAL

Provide procedures for consistent regional investigations to detect and address non-stormwater discharges to the regulated MS4, including spills, illicit connections, and illegal dumping.

EXISTING ACTIVITIES

The regional co-permittees have programs to address spills and illegal dumping of hazardous materials, including those that may reach the MS4. In the event of a spill, local emergency response agencies within the County are supplemented by a Regional Response Team and Ecology. Illegal dumping of hazardous materials is regulated by State Dangerous Waste requirements (WAC 173-303-145) and the Uniform Fire Code.

MEASURABLE ACTIVITIES

1. The RSL will provide written procedures for the following activities required by the permit:
    - Locating priority areas;
    - Dry weather field assessments of outfalls or facilities serving priority areas;
    - Characterizing discharges found by or reported to the Permittees;
    - Tracing the source of illicit discharges;
    - Ending the discharge.

The collection of procedures and their implementation shall constitute the illicit discharge detection and elimination "program" required by §S5.3.c of the permit.

2. Co-permittees will conduct the illicit discharge and detection activities and report annual activities to the RSL.
3. The RSL will report all co-permittee illicit discharge activity in the annual reports.

ASSESSMENT

1. Develop written procedures for the above measured activities for use by the municipalities to identify and eliminate non-stormwater discharges.
2. Record citizen complaints and responses regarding illicit discharges to the storm drain system.
3. Record illicit discharges identified, investigated, including date and location of incident, type and quantity of material dumped or discharged, and municipal response.
4. Document enforcement actions taken to eliminate illicit discharges.

ACCOMPLISHMENTS

- Three (3) incidents were logged in the Regional IDDE database. The City of Sunnyside and City of Union Gap reported zero incidents, and 28 incidents were reported by the City of Yakima.

APPROPRIATENESS

Identification and removal of illicit discharges and connections will improve water quality discharged from the regional MS4s to area water bodies.

PERFORMANCE MEASURE

S5.B.3.d Illicit Discharge Hotline by February 2009 ***ILA=Yes***

GOAL

Establish, advertise, and maintain a regional hotline for receipt of calls reporting illicit discharges. A hotline or telephone number for receiving public observations or complaints related to illicit discharge is required by the Permit.

EXISTING ACTIVITIES

Related activities include those systems in place to take emergency calls related to hazardous materials or illegal dumping.

MEASURABLE ACTIVITIES

1. The RSL will establish a hotline for receipt of illicit discharge reports.
2. The RSL will develop and use a call log database to track illicit discharge reports and follow-up actions.
3. Co-permittees will forward calls to the hotline when appropriate, or notify County stormwater staff when illicit discharge calls are received by their jurisdictions.

ASSESSMENT

1. Document establishment of the hotline;
2. Maintain a database of calls received and follow-up actions taken.

ACCOMPLISHMENTS

- Hotline established 2007. No database log events received in 2011 were hotline or calls directly to Public Services. This compares to zero (0) calls in 2010 and four (4) calls in 2009.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. It is anticipated that hotline use will increase as the public becomes more aware stormwater problems though the public education program.

PERFORMANCE MEASURE

S5.B.3.f IDDE Staff Training by February 2012 ***ILA=Yes***

GOAL

Train staff that 1) receives calls about illicit discharges, 2) may encounter illicit discharges in the course of their work, and 3) will investigate illicit discharges. Training will be tailored to each group of employees and focus on specific procedures developed under other Performance Measures in this Program Element.

EXISTING ACTIVITIES

Most employee groups already conduct some form of regular training on procedures, safety, or trade specific practices. Illicit discharge training will be coordinated with existing training to minimize interruption of staff duties.

Training on the stormwater program, IDDE observation, investigation, and O&M procedures was provided to employees as follows during 2009 and 2010:

City of Sunnyside	2 trainings, 24 employees
City of Union Gap	2 trainings, 22 employees
City of Yakima	9 trainings, 191 employees
Yakima County	6 trainings, 126 employees
Total:	19 Trainings, 363 employees

MEASURABLE ACTIVITIES

1. The RSL will develop three training presentations, one for each group above.
2. The RSL will train employees annually in each jurisdiction.
3. Co-permittees will identify appropriate personnel and provide opportunities for staff to be trained.

ASSESSMENT

1. Document training events. Include number of employees, class rosters, locations.
2. Maintain training presentations for each group of employees.

ACCOMPLISHMENTS

- Two (2) refresher trainings were provided to 44 City of Yakima employees after a near illicit discharge incident. The presentation rosters are provided in Appendix G.

APPROPRIATENESS

It is anticipated that as employee awareness goes up, the number of reported discharges to the MS4 will also increase, and the number of municipal spills will go down.

Table 4. Illicit Discharge Detection and Elimination Program Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees	GIS	Legal	Envir. Health	
1. 1/3rd MS4 Map												
A. Review and evaluate existing GIS data.							1	3	2			
B. Identify where additional data collection is required; collect as needed							1	2	2			
2. Complete MS4 Map												
A. Collect additional GPS data.								1	2			
B. QC map: staff review and accuracy assessment								1	2			
3. Illicit Discharge Ordinance												
A. Review and evaluate existing City and County ordinances regarding illicit discharges to the storm drain system							1	3				
B. Evaluate available model ordinances for applicability and develop model							1	3			3	
C. Assist co-permittees with modification of the model to fit code formats and ensure required elements are retained							1	2		3		
D. Adopt ordinances with legally enforceable fine schedule for ordinance violators								1		2		
4. Illicit Discharge Detection and Elimination Activities												
A. Prepare procedures for locating priority areas; dry weather field assessments of outfalls; characterizing discharges; tracing the source of illicit discharges; ending the discharge.							1	2				
B. Keep records of illicit discharges found and follow-up actions.							1	4				
5. Illicit Discharge Hotline							1	4				
6. IDDE Staff Training												
A. Develop training presentations							1					
B. Identify and train employees annually							1	4				
C. Keep records of training							1	4				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.4 Construction Activities Program Element

Stormwater draining from construction sites can be a significant source of sediment and attached pollutants. Failure to implement adequate erosion and sediment performance measures can result in higher contributions of sediment to waters than previously contributed from undisturbed land. Excessive sediment loading can result in impacts to water quality. In addition, erosion and sediment transport are vehicles for other pollutants associated with construction activities (such as solvents, petroleum products, trash, pesticides, fertilizers, concrete and paint).

2.4.1 Permit Requirements for Construction Activities

The Eastern Washington Phase II NPDES Stormwater Permit requires the regional municipalities "to reduce pollutants in any stormwater runoff to the MS4 from construction activities that disturb one acre or more, and from construction projects of less than one acre that are part of a common plan of development or sale." In the first three years of the permit, the permittees must:

1. Develop and adopt an ordinance (or other regulatory mechanism) to require erosion, sediment, and other pollution controls at the construction sites, as well as sanctions to ensure compliance, to the extent allowable under federal, state or local law;
2. Require construction site operators to implement appropriate and effective erosion and sediment control BMPs;
3. Document how the requirements of the ordinance protect water quality, reduce pollutant discharge to the MEP, and satisfy the AKART requirements. Documentation shall include:
    - How stormwater BMPs were selected;
    - Pollutant removal expected from the selected BMPs
    - The technical basis supporting the performance of the selected BMPs;
    - How the selected BMPs will comply with state water quality standards and meet the AKART requirement.

    The Stormwater Management Manual for Eastern Washington, or another manual approved by Ecology, may be used to satisfy these requirements.
4. Implement procedures for receipt of and response to information submitted by the public;
5. Provide information to construction site operators about training available on how to install and maintain effective erosion and sediment controls.

2.4.2 Supporting Program Elements

Local citizens will be more aware of the importance of protecting stormwater quality through public outreach activities. The public participation and IDDE program elements provide mechanisms for the public to notify co-permittee inspectors of potential water quality issues.

2.4.3 Performance Measures

PERFORMANCE MEASURE

S5.B.4.a Construction Site Stormwater Ordinance by February 2010 ILA=Yes

GOAL

Adopt an ordinance to require implementation and maintenance of BMPs for erosion and sediment controls at defined construction sites.

EXISTING ACTIVITIES

Construction Stormwater Permits are required by State regulation – but not local ordinance – for construction sites impacting one acre or more.

Ordinances were adopted in February 2010 as follows:

Jurisdiction	Date Adopted	Ordinance/Resolution Number
Yakima County	February 16, 2010	1-2010
City of Yakima	February 16, 2010	2010-08
City of Sunnyside	February 8, 2010	2010-3
City of Union Gap	February 8, 2010	2660

MEASURABLE ACTIVITIES

1. The RSL will develop a model ordinance with language that requires planning, implementation, and inspection of practices and controls on construction sites to eliminate or minimize sediment and other pollutants from entering the MS4. The model ordinance will be adjusted to fit the co-permittees' code and ensure that critical elements required for compliance are retained. The process is outlined as follows:
   - Review the existing Washington State Construction Activities Stormwater General Permit.
   - Evaluate available model ordinances for applicability in the region.
   - Develop a regional design and standards manual for construction site stormwater BMPs applicable to local conditions.
   - Draft a model stormwater ordinance to control the discharge of sediment and other construction site pollutants into the storm drain system. The ordinance will require submittal of SWPPPs to the permittees for review. The ordinance will contain enforcement provisions and provide for an "erosivity waiver" for 1 – 5 acre sites when appropriate, consistent with Ecology's Construction Activities Stormwater General Permit.
2. Co-permittees will adopt the model or equivalent ordinance in the four co-permittee jurisdictions.

ASSESSMENT

1. List example ordinances reviewed in developing the County ordinance for construction activities.
2. Obtain Ecology approval of the local stormwater design manual.
3. Record adoption of Construction Stormwater Ordinances.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Water quality should improve over time as code enforcement personnel contact potential violators, public education messages highlight the new requirement and illicit discharges are removed as a result of the ordinance.

Performance Measure

S5.B.4.b. Construction Site Plan Review by February 2011 ILA=Yes

GOAL

Establish and implement procedures for review and approval of stormwater best management practices used during construction activities.

EXISTING ACTIVITIES

Construction and development projects are currently required to obtain coverage under the Ecology General Permit for Construction Sites, using BMPs and standards found in the *Stormwater Management Manual for Eastern Washington*.

MEASURABLE ACTIVITIES

1. The co-permittees will develop a review procedure for consistent construction plan review.
2. The co-permittees will review construction project plans that require erosion and sediment control BMPs identified in the ordinance adopted in §S5.B.4.a of the permit.
3. The co-permittees will conduct annual training sessions for construction plan review staff.

ASSESSMENT

1. One procedure checklist or guidance document.
2. Record the number of erosion and sediment control plans received, reviewed, and approved/disapproved by staff.
3. Document training events. Include number of employees, class rosters, locations.
4. Maintain training presentations appropriate for each group of employees.

ACCOMPLISHMENTS

- Developed review procedure and training. Six (6) employees attended training held on September 28, 2011.
- Number of construction site plans reviewed and approved in 2011:

	Plans reviewed	Plans approved
City of Sunnyside	0	0
City of Union Gap	1	0
City of Yakima	8	7
Yakima County	0	0
Total:	9	7

Yakima County and the City of Sunnyside did not have any qualifying sites.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. The procedure and training should help reviewers assure projects are compliant with the ordinance and minimize construction stormwater runoff and improving water quality.

Performance Measure

S5.B.4.c. Construction Site Inspection by February 2011	***ILA=Yes***

GOAL

Implement a construction site inspection program to ensure that BMPs are installed and functioning correctly to protect receiving water quality.

EXISTING ACTIVITIES

The regional municipalities have established construction inspection programs that ensure building code compliance. Inspectors visit each site during active phases of construction to record the activities conducted at the site and to ensure construction is being completed according to plans.

Public complaints for construction activities are routed to local building departments. Response generally consists of a site visit to view the problem, checks for violations of building standards, and enforcement actions, if necessary. Erosion and sediment control permit issues are referred to the Washington Department of Ecology.

MEASURABLE ACTIVITIES

1. The co-permittees will develop a procedure for use in the field that addresses the following items:
    - Erosion and sediment performance measures, waste management measures, proper storage, use and disposal of construction materials, and chemicals, and any other relevant BMPs.
    - Non-stormwater discharges that are not allowed into the storm drain system (e.g., chlorinated waters from main line testing, concrete wash water, dust control water, and equipment rinse water).
2. The co-permittees will develop a procedure for keeping records of inspections and enforcement actions by staff.
3. The co-permittees will develop and provide training to construction site inspection staff including:
    - Conducting pre-construction meetings about the regional stormwater quality issues and policies.
    - Erosion and sediment controls and other stormwater quality control requirements for construction activities.
    - Procedures for enforcing code compliance, such as issuance of citations or notices of noncompliance.

ASSESSMENT

1. Develop an inspection procedure checklist or document.
2. Document training events. Include number of employees, class rosters, locations.
3. Maintain training presentations appropriate for each group of employees.
4. Record the number of inspections and enforcement actions performed by staff.

ACCOMPLISHMENTS

- Developed procedure and training. Six (6) employees attended training held on September 28, 2011.
- Number of construction site inspections and enforcement actions in 2011:

	Site Inspected	Enforcement Actions
City of Sunnyside	0	0
City of Union Gap	1	0
City of Yakima	10	6
Yakima County	0	0
Total:	11	6

Yakima County and the City of Sunnyside did not have any qualifying sites.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. The procedure and training should help inspectors assure projects are compliant with the ordinance during inspections. The inspections should help resolve any deficiencies in BMP selection or installation this minimizing construction stormwater runoff and improving water quality.

PERFORMANCE MEASURE

S5.B.4.d Provide Construction Training Opportunity Info. by February 2007 ILA=Yes

GOAL

Gather and provide information on training opportunities in the Pacific Northwest and nationally that are applicable to the proper selection, installation, and maintenance of construction site sediment control BMPs.

EXISTING ACTIVITIES

The RSL provides monthly reports containing training opportunities to the RSPG members. Training information is available on the Regional Stormwater Management website.

MEASURABLE ACTIVITIES

1. The RSL will provide a monthly list of erosion and sediment control BMP training opportunities on the RSMP website. Sources will include the world wide web (internet), trade magazines, and product mailings.
2. Co-permittees will provide information they receive on training opportunities through professional contacts or other sources.

ASSESSMENT

1. Maintain a record of training opportunities identified and made available.

ACCOMPLISHMENTS

- A current list of training opportunities is provided on the regional stormwater web site (link).
- Previous monthly progress reports and training opportunities are also available (link)

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Training opportunities were regularly visited pages on the Regional Stormwater web site.

Table 5. Construction Activities Program Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees	Local Planning	Local Building	Legal	Roads
1 Stormwater Ordinance for Construction Sites												
A. Review the Construction Activities Stormwater General Permit.							1					
B. Evaluate available model ordinances for applicability.							1					
C. Adopt a Stormwater Ordinance with construction site provisions and an enforcement program with penalties.												
i. Draft the ordinance with an enforcement penalty.							1					
ii. Develop manual of design standards and specifications.							1	3	3	3		3
iii. Adopt the ordinance in each regional municipality.							2	1			3	
2. Construction Site Plan Review												
A. Develop procedures for Construction Plan review								1	2	2		
B. Review construction plans requiring erosion and sediment control BMPs								1	3	3		
C. Train construction plan review staff annually								1				
3. Construction Site Inspection												
A. Develop procedures for construction site inspection.								1		2		
B. Inspect construction sites requiring erosion and sediment control BMPs								1				
C. Train construction site inspection staff annually								1				
4. Provide Construction Stormwater Training Opportunity Information							1	4				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.5 Post-Construction Stormwater Management Program Element

Impacts to water quality caused by development can be minimized through implementing post-construction stormwater quality performance measures. The performance measures and tasks outlined in this section require new development and major redevelopment projects to incorporate post construction stormwater BMPs and to ensure that the measures are operated and maintained once construction is complete.

2.5.1 Permit Requirements for Post-Construction Stormwater Management

The Eastern Washington Phase II NPDES Stormwater Permit requires the permittees to address post-construction stormwater runoff to the MS4 from new development and redevelopment projects within the permit area. The program must ensure that long-term BMPs that prevent or minimize water quality impacts are incorporated into the design of these projects. At a minimum, the program must:

1. Develop and adopt an ordinance requiring adherence to minimum technical requirements, including:
    a. BMP selection;
    b. Design, installation, operation and maintenance standards;
    c. Pollutant discharge reduction to the MEP;
    d. Satisfy the State AKART requirements;
    e. Ensure long term maintenance.
2. Document how the requirements of the ordinance protect water quality, reduce pollutant discharge to the MEP, and satisfy the AKART requirements. Documentation shall include:
    - How stormwater BMPs were selected;
    - Pollutant removal expected from the selected BMPs
    - The technical basis supporting the performance of the selected BMPs;
    - How the selected BMPs will comply with state water quality standards and meet the AKART requirement.

The Stormwater Management Manual for Eastern Washington, or another manual approved by Ecology, may be used to satisfy these requirements.

2.5.2 Supporting Program Elements

Public education and outreach programs promote awareness of the importance of stormwater quality controls. Public participation in the development and implementation of the RSWMP will be critical to the plan's success. The Construction Program works in parallel with this program element as sites are inspected during construction and post-construction.

2.5.3 Performance Measures

PERFORMANCE MEASURE

S5.B.5.a Post-Construction Stormwater Ordinance by February 2010 ILA=Yes

GOAL

Develop and adopt an ordinance to address post-construction stormwater runoff to the MS4 from new development or re-development projects.

EXISTING ACTIVITIES

Regional municipalities currently require new developments to retain stormwater on site, up to a 25 year design storm, using methods found in the Stormwater Management Manual for Eastern Washington. To obtain short or long subdivision approval, proposed development projects in Yakima County require a site drainage plan demonstrating how stormwater will be retained and infiltrated on site (County Ordinance 14.48.100). Likewise, the City of Yakima requires all off street parking drainage to be disposed of on site (Yakima Municipal Code 15.06.110). For building projects over 4,000 square feet in Sunnyside, a professional architect or engineer must prepare a stormwater disposal system to obtain a building permit.

Ordinances were adopted in February 2010 as follows:

Jurisdiction	Date Adopted	Ordinance/Resolution Number
Yakima County	February 16, 2010	1-2010
City of Yakima	February 16, 2010	2010-08
City of Sunnyside	February 8, 2010	2010-3
City of Union Gap	February 8, 2010	2660

MEASURABLE ACTIVITIES

1. The RSL will develop a model ordinance with language requiring use of post-construction BMPs on development projects to minimize pollutants from entering the MS4. The process is outlined as follows:
   - Evaluate available model ordinances for applicability in the region.
   - Review available post-construction site stormwater BMPs for application in the region.
   - Develop a manual of design standards and specifications for post-construction site stormwater BMPs, including Low Impact Development (LID) methods, applicable to local conditions.
   - Draft a model stormwater ordinance to control the post-construction discharge of sediment and other site pollutants into the storm drain system. The ordinance will contain enforcement provisions.
2. Co-permittees will adopt the model or equivalent ordinance in their jurisdictions.

ASSESSMENT

1. List example ordinances reviewed in developing the County ordinance for post-construction activities.
2. Obtain Ecology approval of the local stormwater design manual.
3. Record adoption of Post-Construction Stormwater Ordinances.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Water quality should improve over time as code enforcement personnel contact potential violators, public education messages highlight the new requirement and BMP facilities are constructed to the proper specifications as a result of the ordinance.

Performance Measure

S5.B.5.b. Stormwater Plan Review by February 2011	***ILA=Yes***

GOAL

Establish conditions of review and approval for stormwater best management practices used during post-construction activities to prevent or minimize water quality impacts.

EXISTING ACTIVITIES

The municipalities have standard designs for curb, gutter, sewer, manholes, and other capital improvements for land development.

To comply with SEPA requirements for subdivision development applications, necessary mitigation measures are specified to ensure that significant environmental impacts will not occur due to land development.

MEASURABLE ACTIVITIES

1. The co-permittees will develop review procedure for consistent post-construction stormwater plan review.
2. The co-permittees will review construction project plans that require post-construction stormwater BMPs identified in the ordinance adopted in §S5.B.5.a of the permit.
3. The co-permittees will conduct annual training sessions for post-construction plan review staff.

ASSESSMENT

1. One procedure checklist or guidance document.
2. Record the number of post-construction stormwater control plans received, reviewed and approved/disapproved by staff.
3. Document training events. Include number of employees, class rosters, locations.
4. Maintain training presentations appropriate for each group of employees.

ACCOMPLISHMENTS

- Developed review procedure and training. Six (6) employees attended training held on September 28, 2011.
- Number of post-construction site plans reviewed and approved in 2011:

	Plans reviewed	Plans approved
City of Sunnyside	0	0
City of Union Gap	0	0
City of Yakima	29	24
Yakima County	0	0
Total:	29	24

Yakima County, City of Union Gap, and City of Sunnyside did not have any qualifying sites.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Water quality should improve over time as code enforcement personnel contact potential violators, public education messages highlight the new requirement and that proper BMP facilities are selected and designed correctly as a result of the ordinance.

Performance Measure

S5.B.5.c. Post-Construction Site Inspections by February 2011	***ILA=Yes***

GOAL

Implement a post-construction site inspection program to ensure appropriate BMPs are installed and functioning correctly.

EXISTING ACTIVITIES

The co-permittees have established construction inspection programs. Inspectors visit each construction site during active phases of public improvements and private development to record the activities conducted at the site and to ensure construction is completed according to approved plans. No similar program exists for follow-up once construction is completed.

Public complaints for flooding and water quality are routed to the Yakima County Flood Control Zone District, city public works, or wastewater departments. Response generally consists of a site visit to view the problem and check for physical obstruction, blockage or source control needs to resolve the complaint.

MEASURABLE ACTIVITIES

1. The co-permittees will develop an inspection procedure for use in the field. The procedure will address the following items:
    - BMP type, size, expected pollutants, and any other relevant information to BMP performance.
    - Presence of conditions that may interfere with function of the BMP.
2. The co-permittees will implement a post-construction inspection schedule that ensures timely review of newly constructed BMPs and annual review of existing BMPs.
3. The co-permittees will develop and provide training to post-construction site inspectors including:
    - BMP types and functions;
    - Post-Construction stormwater BMPs requirements for new development and significant redevelopment;
    - Procedures for enforcing code compliance, such as issuance of citations or notices of noncompliance. Develop one standard inspection form or checklist used for inspection of post-construction control at development or re-development sites.

ASSESSMENT

1. Develop an inspection procedure checklist or document.
2. Document training events. Include number of employees, class rosters, locations.
3. Maintain training presentations appropriate for each group of employees.
4. Record the number of post-construction stormwater control site inspections performed by staff.

ACCOMPLISHMENTS

- Developed procedure and training. Six (6) employees attended training held on September 28, 2011.
- Number of post-construction site inspections in 2011:

	Site Inspected
City of Sunnyside	0
City of Union Gap	6
City of Yakima	10
Yakima County	0
Total:	16

Yakima County and the City of Sunnyside did not have any qualifying sites.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. The procedure and training should help inspectors assure projects are compliant with the ordinance during inspections. The inspections should help resolve any deficiencies in BMP installation improving water quality by providing for adequate treatment and flow control.

PERFORMANCE MEASURE

S5.B.4.e Provide Post-Construction Training Info. by February 2007 ILA=Yes

GOAL

Gather and provide information on training opportunities in the Pacific Northwest and nationally applicable to the proper selection, installation, and maintenance of post-construction stormwater control BMPs.

EXISTING ACTIVITIES

The RSL provides monthly reports containing training opportunities to the RSPG members. Training information is available on the Regional Stormwater Management website.

MEASURABLE ACTIVITIES

1. The RSL will provide a monthly list of post-construction BMP training opportunities on the RSMP website. Sources will include the world wide web (internet), trade magazines, and product mailings.
2. Co-permittees will provide information they receive on training opportunities through professional contacts or other sources.

ASSESSMENT

1. Maintain a record of training opportunities identified and made available.

ACCOMPLISHMENTS

- A current list of training opportunities is provided on the regional stormwater web site (link).
- Previous monthly progress reports and training opportunities are also available (link)

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Training opportunities were regularly visited pages on the Regional Stormwater web site.

Table 6. Post-Construction Stormwater Management Program Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees	Local Planning	Local Building	Legal	Roads
1. Post-Construction Stormwater Ordinance												
A. Review existing County ordinances and policy statements.							1	2	2	2		
B. Evaluate available model ordinances for applicability in the region.							1	2	2	2		
C. Adopt a Stormwater Ordinance that incorporates the inclusion of post-construction stormwater BMPs, if necessary.												
i. Draft the ordinance.							1	3	3	3	2	
ii. Develop manual of design standards and specifications.							1	3	3	3		3
iii. Finalize and adopt the ordinance.							2	1	3	3	2	
2. Stormwater Plan Review												
A. Develop stormwater review procedures.								1	2			
B. Review construction and development plans that require post-construction stormwater BMPs								1	2			
C. Train stormwater plan review staff annually.								1				
3. Post-Construction Site Inspections												
A. Develop stormwater site inspection procedures.								1		2		
B. Review development sites that require post-construction stormwater BMPs								1		3		
C. Train stormwater plan review staff annually.								1				
4. Provide Post-Construction Training Opportunity Information							1	4				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.6 Pollution Prevention & Good Housekeeping for Municipal Operations Program Element

Stormwater discharges from municipal operations conducted by public agencies with permitted MS4's are regulated under the Eastern Washington Phase II NPDES Stormwater Permit.

2.6.1 Permit Requirements for Pollution Prevention and Good Housekeeping

Regulated communities must develop and implement an operations and maintenance program that will prevent or reduce pollutants in runoff from municipal operations. At a minimum, the permittee must:

1. Consider municipal activities and identify those that may contribute pollutants to stormwater from the following types of facilities:
   - Storm drain systems
   - Roads, highways and parking lots
   - Vehicle fleet storage, washing and maintenance areas
   - Municipal buildings
   - Parks and open space
   - Construction project sites
   - Industrial sites
   - Material and heavy equipment storage areas
   - Flood management project sites
   - Other facilities that would reasonably be expected to discharge contaminated runoff
2. Develop operation and maintenance plans (O&M) for the identified facilities that implement BMPs which will reduce or eliminate the pollutant contributions from these activities to the MEP, satisfy the State AKART requirement and contain inspection and record-keeping requirements;
3. Train new and existing employees about the impacts of stormwater pollutants from municipal activities and how to implement the BMPs selected to prevent and reduce these impacts.

2.6.2 Supporting Program Elements

Additional performance measures that partially address this program element include detecting and eliminating illicit discharges to the storm drain systems described above in Section 2.3.

Some key municipal facilities are already required to develop SWPPP plans for compliance with the Washington Department of Ecology Industrial Stormwater General Permit.

2.6.3 Performance Measures

PERFORMANCE MEASURE

S5.B.6.a O&M Plans at Municipal Facilities by February 2010 ILA=Yes

GOAL

Develop and implement Operation and Maintenance Plans (O&M Plans) for designated co-permittee facilities.

EXISTING ACTIVITIES

The regional permittees operate several properties to facilitate their operations: County Jails, County and City corporation yards in Yakima, Union Gap and Sunnyside, wastewater treatment plants in Yakima, Buena, Sunnyside, a solid waste transfer station near Granger, and the County landfill at Terrace Heights. The City of Yakima operates a golf course and cemetery as well as several parks. Many of these facilities are hazardous waste generators and must already have pollution prevention plans implemented to comply with Ecology hazardous waste regulations. Stormwater Pollution Prevention Plans (SWPPP) are required for many of these same sites under the Ecology Industrial Stormwater Permit.

MEASURABLE ACTIVITIES

1. Co-permittees will identify facilities requiring O&M Plans.
2. The RSL will develop model O&M plans for types of facilities defined in the permit.
3. The RSL will work with the co-permittees to modify model plans for use at identified facilities.
4. The co-permittees will implement O&M plans for identified municipal facilities.

ASSESSMENT

1. List of co-permittee facilities requiring O&M Plans.
2. Retain model O&M Plans for identified types of facilities.
3. Record O&M Plan implementation and monitoring of activities or operations that potentially impact stormwater quality.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year. O&M manuals were developed for regional municipal facilities identified in the permit in November of 2009.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. It is anticipated that implementation of the practices identified in the O&M plans will improve water quality discharged from the MS4.

PERFORMANCE MEASURE

S5.B.6.a.ii Spot Check MS4s Following >10 Year Events ***ILA=Yes***

GOAL

Conduct infrastructure spot checks following storm runoff events following larger storms that may damage the MS4.

EXISTING ACTIVITIES

The regional permittees have ongoing responses to major runoff and flood events. The Yakima County Flood Control Zone District has a flood response plan. A GIS data layer of runoff has been developed, based on precipitation and impervious surface.

MEASURABLE ACTIVITIES

1. The RSL will identify >10 year event conditions.
2. The RSL will develop one inspection form for use by co-permittees during inspection.
3. Co-permittees will spot check the MS4 following events meeting the >10 year event.
4. Co-permittees will repair perform needed repair or maintenance as soon as practicable pursuant to the findings of a regular inspection or spot check.
5. The RSL will collect inspection form data and compile it for the annual permit report.

ASSESSMENT

1. Document conditions likely to result in >10 year runoff events.
2. Retain inspection form.
3. Report results of inspections and repairs made following >10 year events or regular inspections

ACCOMPLISHMENTS

- Spot inspections were conducted after a storm event on May 14-15, 2011 exceeded criteria (1.4” per 24 hr event for Yakima area; 1.2” per 24 hr event for Sunnyside).

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Spot inspections are an effective method to assess any damage to stormwater flow control and treatment facilities after large storm events (10 year 24 hour recurrence interval).

PERFORMANCE MEASURE

S5.B.6.b Employee Education and Training by February 2012 ***ILA=Yes***

GOAL

Increase regional municipal employee awareness of stormwater pollutants and BMPs for reducing pollutants from municipal operations. Educate employees in facilities with stormwater O&M plans about plan implementation.

EXISTING ACTIVITIES

Training is required for staff in the illicit discharge and detection program at Section 2.3. Co-permittees have departments that currently train staff on a variety of topics including hazardous materials and safety, which overlaps with pollution prevention and stormwater. Spill prevention plans are already required for hazardous material storage and handling.

MEASURABLE ACTIVITIES

1. Co-permittees will identify groups of employees and departments that require training.
2. The RSL will develop and provide training programs for groups of employees identified above.

ASSESSMENT

1. List regional municipal staff groups identified to receive training.
2. Keep a record of training events provided and the training materials presented. Record the date, location and employees in attendance.

ACCOMPLISHMENTS

- An additional 50 slides O&M slides were added to the existing training program presentation. One training program was developed for all target groups of employees. Slides can be hidden as appropriate for different groups.
- Two trainings were provided to 44 City of Yakima employees after a near illicit discharge incident on a street during a project. The presentation rosters are provided in Appendix G.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. It is anticipated that as employees learn about and implement stormwater O&M plans, better BMP maintenance and practices will result in improved water quality discharged from the MS4.

Table 7. Pollution Prevention and Good Housekeeping Program Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees	Public Works	Roads	Facilities Maint.	Parks
1. O&M Plans at Municipal Facilities												
A. Identify facilities requiring O&M plans.							2	1	3	3	3	3
B. Develop model O&M plans for identified types of facilities including the MS4.							1	2				
C. Implement plans at identified facilities.							2	4	1	1	1	1
2. Spot Check MS4s												
A. Identify precipitation and runoff conditions likely to exceed >10 year runoff events.							1					
B. Develop and distribute a form for use by municipalities during post-storm inspections.							1	2				1
C. Inspect facilities, repair if needed, and report results of inspections.							1	4				
3. Employee Education and Training												
A. Identify groups of employees that require training.							2	1	1	1	1	1
B. Develop training programs for employees working in co-permittee facilities							1					
C. Regularly circulate educational materials on stormwater management issues to employees.							2	4	1	1		1

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

2.7 Monitoring and Program Evaluation Element

The Eastern Washington Phase II Municipal Stormwater Permit contains sampling and program evaluation requirements.

2.7.1 Permit Requirements for Monitoring and Program Evaluation

Ecology does not require permittees to collect water samples during the term of the current permit unless they are characterizing an illicit discharge or complying with a TMDL. Annual reports must include a description of any sampling conducted. The annual report must also include an assessment of the appropriateness of each component of the SWMP and, if changes are anticipated, why those changes are being implemented. Municipalities must prepare for sampling in the next permit cycle by developing a monitoring plan that identifies two monitoring questions, identifies three outfalls, and identifies at least two BMPs for effectiveness monitoring.

2.7.2 Supporting Program Elements

None to date.

2.7.3 Performance Measures

Performance Measure

S7. TMDL Technical Participation If Appropriate ***ILA=Yes***

GOAL

Increase permittee participation in the TMDL process to reduce stormwater contribution of pollutants in a specific reach of water potentially impacted by MS4 discharges.

EXISTING ACTIVITIES

No TMDLs have been established in the permit area to date that impact co-permittee MS4s. The co-permittees participate in TMDLs under development as members of technical advisory groups, including the Yakima Area Creeks projects.

MEASURABLE ACTIVITIES

1. Co-permittees will identify TMDL projects that may involve their MS4 discharges.
2. Co-permittees will participate as Technical Advisory Group members during the TMDL process.

ASSESSMENT

1. List of TMDL projects in proximity to regional co-permittee MS4 boundaries.
2. Maintain a record of TAG attendance.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.
- Status of TMDLs potentially affecting RSPG partners, as of February 24, 2012 on Ecology's web site.

Waterbody	Pollutant(s)	Status
Yakima Area Urban Creeks	Fecal coliform, Temperature	Under Development
Yakima River	Toxics	Under Development

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. It has not been fully implemented, therefore appropriateness cannot be evaluated.

PERFORMANCE MEASURE

S8.A Water Sampling by February 2007 ***ILA=No***

GOAL

Collect and report water samples in response to illicit discharge investigations and TMDL requirements.

EXISTING ACTIVITIES

Yakima County sampled discharges from two (2) outfalls to Wide Hollow Creek to determine relative contribution and potential sources of fecal coliform bacteria within County-owned Drainage Improvement District (DID) pipes located within the City of Yakima during 2010, with the results and report to be available in 2011.

MEASURABLE ACTIVITIES

1. Co-permittees will sample in accordance with the illicit discharge investigation procedure (TBD).
2. Co-permittees will report sampling activity annually to the RSL.
3. The RSL will compile sample activity reports from co-permittees and report with the annual permit report.

ASSESSMENT

1. Report sampling information in the annual report.

ACCOMPLISHMENTS

- Yakima County completed a monitoring report summarizing results of sampling discharges from two (2) outfalls to Wide Hollow Creek during 2010 to determine relative contribution and potential sources of fecal coliform bacteria within County-owned Drainage Improvement District (DID) pipes located within the City of Yakima.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. It has not been fully implemented, therefore appropriateness cannot be evaluated.

PERFORMANCE MEASURE

S8.B Evaluate Program Performance Measures by February 2008 ILA=Yes

GOAL

Assess the appropriateness of performance measures for each program element.

EXISTING ACTIVITIES

None to date.

MEASURABLE ACTIVITIES

1. The RSL will determine how assessments will be made.
2. Co-permittees will provide information and feedback on the appropriateness of each performance measure.
3. The RSL will perform assessments of the six stormwater program element performance measures identified by permit sections S5.B.1 through S5.B.6.
4. The RSL will report the assessments in each annual report.

ASSESSMENT

1. Document the assessment process.
2. Retain annual reports.

ACCOMPLISHMENTS

- This RSWMP includes an assessment of each Performance Measure for appropriateness.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP.

PERFORMANCE MEASURE

S8.C. Monitoring Preparation by December 2010 ***ILA=No***

GOAL

Prepare to participate in the implementation of a future comprehensive long-term monitoring program described in the permit.

EXISTING ACTIVITIES

The co-permittees developed monitoring questions required by the permit in December of 2010. Summaries of the requirements and questions were submitted to Ecology in December 2010 or included in the annual report.

MEASURABLE ACTIVITIES

1. Co-permittees will identify appropriate stormwater monitoring sites in accordance with the permit, §S8.C.1b.
2. Co-permittees will identify at least two suitable questions to determine the effectiveness of the permittees SWMP at controlling stormwater-related problems that are directly addressed by actions in the SWMP and select sites where monitoring would be conducted.
3. Co-permittees will prepare to conduct monitoring to evaluate the effectiveness of specific runoff treatment BMPs at specific locations within the permittees' jurisdiction.

ASSESSMENT

1. The status of activities above are required in the 4th annual report to Ecology due March 31, 2011.

ACCOMPLISHMENTS

- No activities were required during the previous calendar year.

APPROPRIATENESS

This Performance Measure is a permit requirement and is included in the SWMP. Development of monitoring questions is generally considered good practice to direct future monitoring efforts to ensure monitoring is effective and cost effective.

Table 8. Monitoring and Program Evaluation Implementation Schedule and Responsibility

Performance Measures and Measurable Activities	Implementation Schedule						Responsibility					
	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	RSL	Co-permittees				
1. TMDL Technical Participation												
A. Identify TMDLs that may involve co-permittee MS4 discharges								1				
B. Participate as TAG members during development of the TMDL								1				
2. Water Sampling												
A. Collect water samples in accordance with illicit discharge procedure TBD								1				
B. Report sampling to RSL annually							2	1				
C. Report water sample information in annual reports							1	4				
3. Evaluate Program Performance Measures												
A. Develop a process for assessment							1	2				
B. Provide information and feedback on performance measures							2	1				
C. Assess the performance measures							1	4				
D. Report assessments in annual reports							1	4				
4. Monitoring Preparation												
A. Identify monitoring sites								1				
B. Identify questions to determine effectiveness of SWMP								1				
C. Identify BMPs to monitor								1				

Continuing activity, reviewed or revised as needed throughout implementation.
One-time activity to develop or implement a measurable goal.

1 Individual or department to take lead in the development or implementation of an activity (Primary responsibility).
2 Individual or department to provide strong support in the development or implementation of an activity (Secondary responsibility).
3 Individual or department to review and provide comments and guidance during the development or implementation of an activity.
4 Co-permittees will assume responsibility at end of ILA.

Glossary

Best Management Practices (BMPs) – Best management practices are the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by Ecology that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to receiving waters.

Maximum Extent Practicable (MEP) – MEP refers to paragraph 402(p)(3)(B)(iii) of the Federal Clean Water Act, which reads as follows: Permits for discharges from municipal storm sewers shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques, and system, design, and engineering methods, and other such provisions as the Administrator or the State determines appropriate for the control of such pollutants.

Measurable Goal – Definable tasks or accomplishments that are associated with a performance measure.

Municipal Separate Storm Sewer System (MS4) – A conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains): (i) owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State Law) having jurisdiction over disposal of wastes, stormwater, or other wastes, including special districts under State Law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) designed or used for collecting or conveying stormwater; (iii) which is not a combined sewer; and (iv) which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - The national program for issuing, modifying, revoking, and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318, and 405 of the Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington State Department of Ecology.

New Development – Land disturbing activities, including Class IV general forest practices that are conversions from timber land to other uses; structural development, including construction or installation of a building or other structure; creation of impervious surfaces; and subdivision, short subdivision and binding site plans, as defined and applied in Chapter 58.17 RCW. Projects meeting the definition of redevelopment shall not be considered new development.

Outfall – Means point source as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the State and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances which connect segments of the same stream or other waters of the State and are used to convey waters of the State.

Performance Measure – An activity performed to implement one of the eight permit program elements.

Point Source – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other

floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural runoff.

Program Element – One of the eight program components included in Sections S5.B.1 through S5.B.6, S7, and S8 of the Eastern Washington Phase II Municipal Stormwater Permit.

Redevelopment - The replacement or improvement of impervious surfaces on a developed site.

Return Frequency or Recurrence Interval - A statistical term for the average expected time interval between events (e.g., flows, floods, droughts, or rainfall) that equal or exceed given conditions. Recurrence interval can be converted to probability by dividing the return frequency into one year. For example, a 100-year event has a one percent chance of occurring in any given year (1/100 = 0.01); a 5-year event has a 20 percent chance (1/5 = 0.20) of occurring in any given year.

Runoff - Water that travels across the land surface, or laterally through the ground near the land surface, and discharges to water bodies either directly or through a collection and conveyance system. Runoff includes stormwater and water from other sources (e.g. snowmelt) that travels across the land surface.

Stormwater Pollution Prevention Plan (SWPPP) – A documented plan to implement measures to identify, prevent, and control the contamination of point source discharges of stormwater.

Waters of the State – Those waters as defined as waters of the United States in 40 CFR 122.2 within the geographic boundaries of Washington State and waters of the state as defined in Chapter 90.48 RCW which includes: lakes, rivers, ponds, streams, inland waters, underground waters, salt waters and all other surface waters and water courses within the jurisdiction of the State of Washington.

Appendix A. Summary of regulatory requirements, implementation dates, due dates, and responsiblities.

NPDES Phase II Stormwater Permit Dates

Permit Section	Summary of Regulatory Requirement	2007	2008	2009	2010	2011	2012
S5.A.1	**A. Develop and Implement Stormwater Management Program**	16-Feb					
S5.A.2	A2. Fully develop and implement SWMP 180 days prior to expiration of permit	16-Feb				19-Aug	
S5.A.3	A3. Prepare written documentation of SWMP; include in annual reports	1-Sep	31-Mar	31-Mar	31-Mar	31-Mar	31-Mar
S5.A.4.a	A4. From 90 days of permit, gather, maintain and use info for SWMP	16-May					
S5.A.4.a.i	Track number of inspections, enforcement actions, public ed activities	16-Feb					
S5.A.4.a.ii	Track or estimate cost of SWMP development and implementation			1-Jan			
S5.A.4.b	Annual reports shall include an evaluation of the effectiveness of the SWMP components				31-Mar		
	B. NPDES SWMP Components (Paragraph S5.B of the Permit)						
	1. Public Education and Outreach						
S5.B.1.a.	1A. Identify and characterize Target Audiences		1-Jun		16-Feb		
S5.B.1.b.	1B. Fully develop & implement outreach 180 days prior to expiration date of permit			16-Feb		19-Aug	
	2. Public Involvement and Participation						
S5.B.2.a.	2A. Adopt policy for public input on SWMP development	1-Nov	16-Feb				
S5.B.2.a.	All permittees shall develop and implement a process for consideration of public comments on their SWMP	**No deadline specified**					
S5.B.2.b.	2B. NLT May 31, 2008, make latest SWMP available to the public & update annually		31-Mar	31-Mar	31-Mar	31-Mar	31-Mar
	3. Illicit Discharge Detection and Elimination						
S5.B.3.a	3A. Develop MS4 map showing outfalls, receiving waters and discharge areas						
S5.B.3.a.i	Complete map 1/3 - Year 3, 2/3 - Year 4, and All - Year 5		1-Mar		16-Feb	16-Feb	16-Feb
S5.B.3.a.ii	Conduct field surveys to verify outfalls, etc.					19-Aug	
S5.B.3.a.iii	Provide maps and mapping info to Ecology and other entities	**No deadline specified.**					
	3B. Prohibit through ordinance or regulation non-stormwater discharges to MS4						
S5.B.3.b.i	NLT 30 months of permit, adopt ordinance prohibiting illicit discharges to MS4		1-Sep	16-Aug			
S5.B.3.c.	3C. Develop/Implement program to detect and address non-stormwater discharges					19-Aug	
S5.B.3.c.ii	Prioritize areas likely to have illicit discharges				16-Feb		
S5.B.3.c.ii	Field assess three high priority water bodies to verify outfall locations and detect illicit discharges					16-Feb	
	Field assess at least one high priority water body to verify outfall locations and detect illicit discharges						16-Feb
	3D. Inform public employees, business, and general public of illicit discharge hazards						
S5.B.3.d.i	NLT 180 days prior to permit expiration, distribute information to target audiences					19-Aug	
S5.B.3.d.ii	NLT 2 years of permit, list and publicize spill reporting hotline & keep records		1-Aug	16-Feb			
S5.B.3.e	3E. Adopt/Implement procedures for program evaluation and assessment of spills, illicit discharges, etc.	**No deadline specified.**	1-Mar				
S5.B.3.f	3F. Provide adequate training to staff responsible for illicit discharge program	**No deadline specified.**	1-Mar				
S5.B.3.g	3G. Provide training to all municipal field staff which may observe illicit discharges	**No deadline specified.**	1-Mar				
	4. Construction Site Stormwater Control Program						
S5.B.4.a.	4A. NLT 3 year of permit, adopt ordinance on sediment and construction stormwater pollution controls		1-Jun		16-Feb		
S5.B.4.a.i	All construction sites at least one acre construction project or less if part of larger development		1-Jun		16-Feb		
S5.B.4.a.ii	Require construction operators to adhere to construction stormwater technical requirements		1-Jun		16-Feb		
S5.B.4.a.iii	Ordinance to include enforcement procedures and actions		1-Jun		16-Feb		
S5.B.4.a.iv	Enforcement strategy and implementation of the ordinance				16-Feb		
S5.B.4.b.	4B. NLT 4 years of permit, adopt/implement procedures for site plan review to review WQ impacts				16-Feb	16-Feb	
S5.B.4.b.i	Review SWPPPs for all construction one acre or more, or less if part of larger development					16-Feb	
S5.B.4.b.ii	Provide adequate training for all staff involved in permitting, planning, and review					16-Feb	
S5.B.4.c.	4C. NLT 4 years of permit, adopt and implement procedures for site inspection and enforcement				16-Feb	16-Feb	
S5.B.4.c.i	Adopt procedure for keeping records and enforcement actions by staff				16-Feb	16-Feb	

Red = Deadline, "No later than ... shall develop"
Green = Start date (if deadline provided), "No later than ... shall implement" or "Beginning no later than ... " or "From the effective date"
Blue = Local task (not in ILA)

Permit Section	Summary of Regulatory Requirement	2007	2008	2009	2010	2011	2012
S5.B.4.c.ii	Provide adequate training for all staff involved in plan review, field inspection and enforcement					16-Feb	
S5.B.4.c.iii	All new construction to be inspected at least once by qualified personnel					16-Feb	
S5.B.4.d.	4D. Provide training information to construction site operators regarding erosion and sediment controls	16-Feb					
S5.B.4.e	4E. Adopt/Implement procedures for receipt and consideration of information submitted by the public	No deadline specified					
S5.B.4.f	4F. If allowed, keep records of all construction sites with Erosivity Waiver and respond to complaints					16-Feb	
	5. Post Construction Stormwater Management for New and Re-Development						
S5.B.5.a.	5A. NLT 3 years of permit, adopt/implement ordinance that requires post-construction stormwater controls		1-Jun		16-Feb		
S5.B.5.b.	5B. NLT 4 years of permit, adopt/implement procedures for site plan review considering WQ impacts					16-Feb	
S5.B.5.c.	5C. NLT 4 years of permit, adopt/implement procedures for site inspection and enforcement					16-Feb	
S5.B.5.c.ii	Inspect BMPs once during installation					16-Feb	
S5.B.5.c.iii	Inspect BMPs once every 5 years after installation					16-Feb	
S5.B.5.d.	5D. Provide adequate training for all staff in permitting, planning, review, inspection and enforcement					16-Feb	
S5.B.5.e	5E. Provide information to design professionals about training available on permit compliance	16-Feb					
S5.B.5.f	5F. Keep records of all projects disturbing at least one acre, or less if part of larger development				16-Feb		
S5.B.5.f.i	Keep records for 5 years or until construction is completed				16-Feb		
S5.B.5.f.ii	Keep training records - dates, course descriptions, and names and positions of staff in attendance				16-Feb		
S5.B.5.f.iii	Keep copies of information that is provided to design professionals				16-Feb		
	6. Pollution Prevention and Good Housekeeping						
S5.B.6.a.i	6A. NLT 3 years of permit, develop and implement a schedule of O&M activities (an O&M Plan) including the 11 listed items on Section S5.B.6.A.i			1-Feb	16-Feb		
S5.B.6.a.i	Implement practices established in O&M Plans					19-Aug	
S5.B.6.a.ii	Minimum of 95% of stormwater facilities shall be inspected twice - Permit Year 3 and Permit Year 5	16-Feb			16-Feb		16-Feb
S5.B.6.a.ii	Conduct spot checks of MS4 after >10 year events	No deadline specified; required in all annual reports.					
S5.B.6.b.	6B. Provide training to all employees who may have primary construction, O&M functions that may impact WQ	No deadline specified.					
	C. Total Maximum Daily Load						
S7	*No requirement at this time*						
	D. Monitoring and Program Evaluation						
S8.A	8A. Report sampling pursuant to TMDL or illicit discharge investigations		31-Mar	31-Mar	31-Mar	31-Mar	31-Mar
S8.B	8B. Assessment of Effectiveness of BMPs		31-Mar	31-Mar	31-Mar	31-Mar	31-Mar
S8.C.1.a	Identify 3 outfalls for monitoring			16-Feb-10	31-Dec		
S8.C.1.b.ii	Identify at least two monitoring questions			16-Feb-10	31-Dec		
S8.C.1.b.iii	Develop a monitoring plan for questions above			16-Feb-10	31-Dec		
S8.C.1.c.ii	Identify two BMPs at two sites each for effectiveness monitoring			16-Feb-10	31-Dec		
S8.C.2.a	Describe the status of S8.B.1					31-Mar	
	E. Reporting and Recordkeeping (Paragraph S9 of the Permit)						
S9.A	9A. NLT March 31 of each year starting in 2008, submit Annual Report	1-Feb-08	31-Mar	31-Mar	31-Mar	31-Mar	31-Mar
S9.C	Keep records at least 5 years	16-Feb					

Red = Deadline, "No later than ... shall develop"
Green = Start date (if deadline provided), "No later than ... shall implement" or "Beginning no later than ... " or "From the effective date"
Blue = Local task (not in ILA)

Appendix B. 2012/2013 Stormwater Public Outreach plan.

2012/2013 Stormwater Public Outreach

For the Stormwater Programs of:

Introduction & Goals

The cities of Yakima, Sunnyside and Union Gap, along with Yakima County, are currently co-permittees under Washington Department of Ecology's Eastern Washington Phase II Municipal Stormwater Permit for stormwater discharges to local waterways. A requirement of the permit is to perform public education and outreach to three specific audiences and other audiences identified by the permittees. The current permit expires February 16, 2012. Ecology issued two versions of the next permit as directed by 2011 legislation: 1) A permit to be effective from August 1, 2012 through July 31, 2013 that is unchanged from the 2007-2012 permit; and 2) an updated permit for a 5-year permit term, to become effective beginning August 1, 2013. The current (2007) permit will remain in effect until the August 1, 2012. Activities undertaken by the co-permittees during the first permit have been completed. This plan outlines Public Education and Outreach activities to be performed by the co-permittees from February, 2102 through August, 2013.

This public outreach plan is designed to educate and help change public attitudes and behavior with respect to stormwater management. The goals for this outreach include the following:

- Residents understand the basic concepts of stormwater and the general impact of their actions.
- Residents understand that street drainage is generally untreated and anything they put on the streets ends up in area waters.
- Residents are aware that roadside ditches and street drains are for conveying road runoff and are not designed to handle residential stormwater and non-stormwater discharges.
- Residents become aware of actions they can take to reduce stormwater pollution.

- Homeowners and builders understand and comply with stormwater management requirements.
- Businesses properly manage their stormwater runoff and use business practices that are in compliance with local ordinances prohibiting illicit discharges to public stormwater facilities.

Approach

This stormwater outreach plan is intended to provide effective, achievable strategies to accomplish the program goals. The outreach plan seeks to start residents and businesses on a progression from awareness of stormwater; to adopting targeted behaviors that improve stormwater management; to encouraging others to join them in making changes. The activities will be based on; what is the problem, who is creating the problem, what outreach material and avenue would work best, what kind of confirming information is needed, and what kind of follow-up is needed. A meeting of co-permittees in December, 2102 generated a list of audiences and outreach activities for the group to pursue. The following list describes those actions.

2012/2013 Activities

- Continue outreach to business organizations and community groups by more intensive advertisement of the speaker's bureau - lead Yakima County.
- Develop and distribute general educational mailings to businesses and residents (one product for each, two languages). Develop and distribute five (5) specific business informational outreach items. Examples, trucking companies, auto repair shops, carpet cleaners, home improvement/drywall projects, landscapers, painters, janitorial services, deicing and oil tracking on roadways – Cost is staff time to copy and adapt existing materials - all jurisdictions to participate in distribution; lead Yakima County.
- Continue effort to provide general education messages on billboards and/or busses – 6 month yearly campaign $10,000 – lead Yakima County. Topics will vary, but the focus will be on general stormwater pollution and prevention.
- Conduct a follow-up phone survey of residents to measure effectiveness – yearly $5,000 – lead Yakima County.
- Provide stormwater educational videos (Public Service Announcements or PSAs) on the Yakima Public Affairs Channel (Y-PAC). Initial discussions

with Y-PAC indicate that they will run videos provided by City of Yakima staff for free. Many videos are available from EPA and Ecology. Staff time to obtain existing materials and coordinate PSAs with Y-PAC - lead City of Yakima.

- Sponsor an educational booth at the Central Washington Fair providing coloring books, pamphlets that provide education related to the goals identified in this document - lead City of Yakima.
- Update the County website with educational information on what residents and businesses can do – cost is staff time - lead Yakima County.
- Continue violation driven outreach as needed. Letters to specific businesses will come from the jurisdiction; letters to all businesses of one type will use the co-permittee letterhead – all jurisdictions.

Overall Program Evaluation

The ultimate goal of evaluation strategies is to link the outreach campaign directly to improvements in environmental quality. The objective of this plan is to develop long-term plans for conducting and maintaining outreach and evaluating and quantifying program effectiveness.

- Track number of violation notices.
- Random phone survey yearly of residents to assess understanding of stormwater system and impacts.
- Track number of calls to the Yakima County Stormwater Utility about stormwater management.
- Track number of visits to website pages.

Other Activities

Each co-permittee community may engage in additional outreach activities to meet a local stormwater audience, such as providing poop bags in parks or maintaining displays in city or county buildings.

Appendix C. Specific target audiences for public outreach identified.

Problems	Targets	Communication/Preferred Vehicles (how/how often)	Confirming information	Follow-up Actions
General public	All	Fair, brochure with utility bills, YPAK PSAs, website, billboards & busses	Follow-up survey, website traffic	Depends on effectiveness survey
Truck yard discharges	Truck fleets	Letter with information brochure	Complaints	Education (flyer)
Auto repair	Repair shops	Letter with information brochure	Complaints	Education (flyer)
Home improvement activities, especially drywall	Drywall installers	Letter with information brochure	Complaints	Education (flyer)
Mobile carpet cleaners	Mobile carpet cleaners	Letter with information brochure	Complaints	Education (flyer)
Landscapers	Landscaping businesses	Letter with information brochure	Complaints	Education (flyer)
Painters	Painting businesses	Letter with information brochure	Complaints	Education (flyer)
Janitorial services	Janitorial services	Letter with information brochure	Complaints	Education (flyer)
Deicing	Snow removal services	Letter with information brochure	Complaints	Education (flyer)
General business stormwater message	All	Letter with information brochure	Complaints	Education (flyer)

Other businesses for future outreach:

Any business with a parking lot paved or gravel – surface run-off/oil management

Fabrication shops plastics/metal - chemical management

Building Supply stores – contractor brochures

Feed & Seed stores – hobby farming brochures

Printing Companies - chemical management

Car Washes – surface run-off management

Janitorial Supply Stores - chemical management brochures for customers

Restaurants – grease/chemical management

Manufacturing plants- chemical management

Concrete plants/contractors – waste concrete management/truck washing

Asphalt plants – chemical management

Convenience stores – surface run-off/oil management

Kennels, Pet sitting services, veterinary – dog waste management

Dust Control contractors – chemical management

Fair Grounds – chemical/animal waste management

Farm Equipment Dealers - chemical/animal waste management brochures for customers

Fertilizer Dealers – chemical management brochure for customers

Flooring Material Dealers - chemical management brochure for customers

Fruit Packing & Warehouses – chemical management

Funeral Homes – chemical management

Furniture manufacture/repair/refinish shops – chemical management

Garden Centers – chemical/fertilizer management brochures for customers

Gas/Fuel Distributers – chemical management

Hardware Stores – chemical/paint/fertilizer management brochure for customers

Truck Stops – surface run-off/oil management

Machine Shops – chemical management

Motels & Hotels – surface run-off/oil management

Septic Tank Services – chemical/waste management

Paving Contractors – site management

Pest Control Contractors – chemical management

Photo Studios – chemical management

Plumbing Contractors – chemical management

Recreational Vehicle Dealers – chemical/waste water management brochures for customers

Paint Stores – chemical/paint management brochure for customers

Swimming pool/hot tub dealers – chemical/draining management brochure for customers

Portable Toilet Services – chemical/waste management

RV Parks - chemical/waste management

Appendix D. Five myths stormwater brochure in english and spanish.

Traducción al español en el otro lado de esta página

Five Myths About Stormwater in Yakima County

A message from Stormwater Programs of

City of Union Gap

YAKIMA COUNTY

City of Yakima

SUNNYSIDE

www.yakimacounty.us/stormwater/

Myth #1:

Drains in streets for stormwater are connected to the same sanitary sewer used for treating human waste.

Reality: NO!!

This kind of drain

flows directly to groundwater, rivers and creeks through a pipe like this:

Myth #2:

Stormwater runoff pollution is not a problem in Yakima County.

Reality: Oh, Yes it is!

Consider where stormwater runoff water goes! Stormwater pipes flow to a nearby creek. From there, it flows to the Naches or Yakima River where the water is reused for irrigation or drinking water. Pollutants in the stormwater such as copper, iron, lead, arsenic, pesticides, bacteria and are carried along in the river water and end up on crops (that you eventually eat) or in your drinking water if you get water from the river.

Really, would you want to drink any of this?

Or, to ask it another way, how diluted would this have to be before you'd drink it?

If you see dirty runoff like this contact:

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Myth #3:

Water going into stormwater drains on the street is treated before being discharged into the environment.

Reality: Rarely!!

Pipe ends do not have miniature treatment plants on the ends of them. Stormwater flows directly to adjacent waterways or infiltration areas. Anything on the ground is picked up and carried with it.

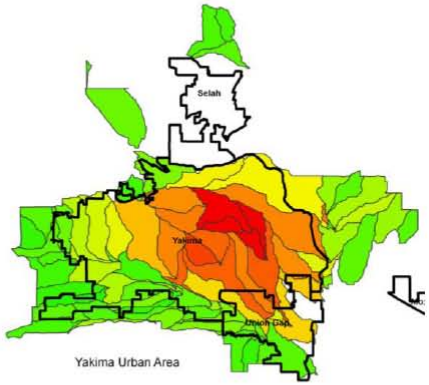
Some stormwater treatments called Best Management Practices are being used in new developments. Most treat stormwater before it is infiltrated into the ground or discharged to a nearby stream. Stormwater is directed to the swale above where it is filtered before draining into the ground.

Myth #4:

Hard surfaces such as roads, driveways, and rooftops are not significant sources of pollution in stormwater.

Reality: Oh, Yes they are!!

EVERTHING runs off hard surfaces. Not only do hard surfaces in urban areas have pollutants that are carried away, the runoff from hard surfaces is a larger volume of water in a short period of time, which affects creek channel structure, habitat functions and other processes important to healthy ecosystems.



This watershed map shows how an estimate of zinc in runoff from the urban Yakima area is related to the most developed areas. (red means higher levels, green means lower levels)

Myth #5:

Litter, oil, and dirt on streets does not cause pollution of rivers, streams, irrigation, and drinking water.

Reality: Guess again!!

Stormwater runoff from streets has been identified as a prime pollutant source to Yakima area streams & across the country.

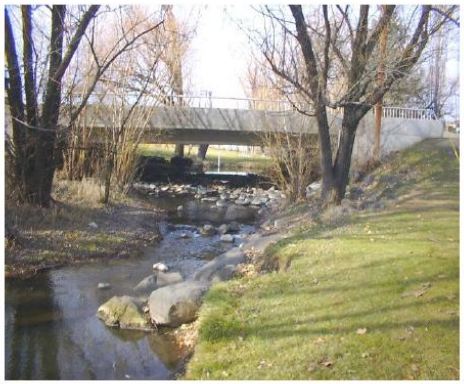
What you can do!

- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly
- Never dump anything down storm drains or in streams
- Manage and properly dispose of toxic materials, trash and plastics

Help us protect your watersheds!
Please call if you see pollution being dumped in a storm drain!!

(509) 574-2300
PublicServicesIllicitDischarge@co.yakima.wa.us

Cinco Mitos Sobre el Agua Pluvial en el Condado de Yakima



Mensage de los Programas de Agua Pluvial de

City of Union Gap

YAKIMA COUNTY

CITY OF YAKIMA

SUNNYSIDE

www.yakimacounty.us/stormwater/

Mito #1:

El alcantarillado en las calles para aguas pluviales está conectado al mismo alcantarillado sanitario que se usa para tratar desechos humanos.

Realidad: ¡NO!

Este tipo de alcantarillado

fluye directamente a aguas subterráneas, ríos y arroyos a través de tuberías como esta:

Mito #2:

La contaminación por la escorrentía de las aguas pluviales no es un problema en el Condado de Yakima.

Realidad: ¡Oh, si, lo es!

¡Piense a donde se va la escorrentía de las aguas pluviales! Las aguas pluviales fluyen por las tuberías a un arroyo cercano. De ahí, van al río Naches o al Yakima donde el agua se vuelve a usar para irrigar o para beber. Los contaminantes en el agua pluvial como el cobre, hierro, plomo, arsénico, pesticidas y bacteria son acarreados en el agua del río y terminan en cultivos (que eventualmente se comen) o en su agua para beber si usted toma agua del río.

De veras, ¿tomaría de esta agua?

O, preguntándoselo de otra manera, ¿qué tan diluida tendría que estar esta agua antes de que usted se la tomara?

Si ve agua sucia de escorrentía como esta comuníquese al:

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Mito #3:

El agua que va a las alcantarillas del agua pluvial en las calles es tratada antes de ser descargada en el medio ambiente.

Realidad: ¡Raramente!

Al final de las tuberías no hay plantas de tratamiento en miniatura. El agua pluvial fluye directamente a canales adyacentes o a áreas de Infiltración. Cualquier cosa en el suelo es recogida y acarreada en el agua.

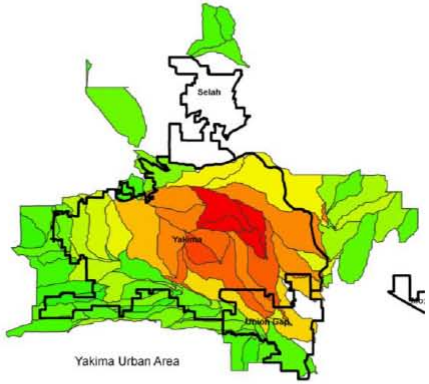
En urbanizaciones nuevas se han estado utilizando algunos tratamientos de agua pluvial llamados Mejores Prácticas de Manejo. La mayoría de estas prácticas trata el agua pluvial antes de que se infiltre en el suelo o que se descargue en una corriente cercana. El agua pluvial es dirigida al canal de drenaje arriba donde es filtrada antes de que el suelo la absorba.

Mito #4:

Las superficies duras como los caminos, entradas de vehículos y techos no son fuentes considerables de contaminación del agua pluvial.

Realidad: ¡Oh, si lo son!

TODO corre por superficies duras. No sólo las superficies duras en las áreas urbanas tienen contaminantes que son acarreados por el agua, el agua pluvial en las superficies duras es un volumen grande de agua en un periodo corto de tiempo que afecta la estructura del canal del arroyo, las funciones del hábitat y otros procesos importantes para los ecosistemas saludables.



Este mapa fluvial muestra como una estimación de zinc en el agua pluvial del área urbana de Yakima está relacionada con las áreas más desarrolladas. (Rojo significa niveles más altos, verde significa niveles más bajos).

Mito #5:

La basura, el aceite y la suciedad en las calles no causan la contaminación de los ríos, corrientes, irrigación ni del agua para beber.

Realidad: ¡Adivine otra vez!

La escorrentía del agua pluvial de las calles ha sido identificada como una fuente principal de contaminación para las corrientes del área y en todo el condado de Yakima.

¡Qué puede hacer usted!

- Lleve su carro al lavado de carros en lugar de lavarlo en su casa.
- Revise que su carro no tenga fugas y recicle el aceite del motor.
- Recoja el excremento de sus mascotas.
- Bombee su fosa séptica y pida que le inspeccionen el sistema regularmente.
- Nunca tire nada en las alcantarillas ni en las corrientes de agua.
- Maneje y deshágase apropiadamente de los materiales tóxicos, basura y plásticos.

¡Ayúdenos a proteger su medio ambiente! Por favor llame si ve que se está tirando basura en las alcantarillas.

(509) 574-2300
PublicServicesIllicitDischarge@co.yakima.wa.us

Appendix E. Stormwater public phone survey results.

Yakima County Storm Water Survey Results **Date: 9/19/2011**

City of Yakima 150 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	45	53	32	19	0	1
2	68	45	22	15	0	0
3	52	60	21	17	0	0
4	39	87	13	10	1	0
5	15	120	8	6	1	0

City of Sunnyside 21 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	6	5	8	2	0	0
2	11	4	5	1	0	0
3	7	7	5	2	0	0
4	4	10	3	4	0	0
5	4	16	1	0	0	0

City of Union Gap 11 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	4	3	1	2	1	0
2	5	5	0	1	0	0
3	3	7	1	0	0	0
4	7	4	0	0	0	0
5	3	8	0	0	0	0

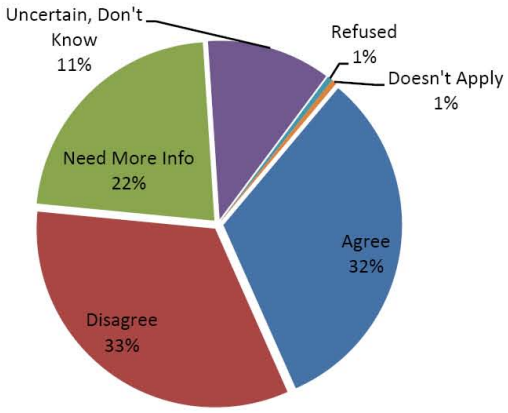
Yakima County Urban Area 32 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	14	10	7	1	0	0
2	16	9	5	2	0	0
3	12	10	7	3	0	0
4	6	24	1	1	0	0
5	1	28	1	2	0	0

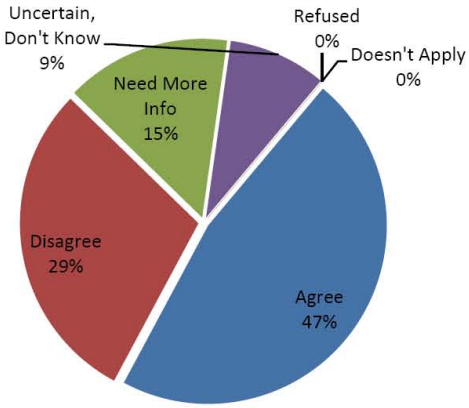
Overall

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	69	71	48	24	1	1
2	100	63	32	19	0	0
3	74	84	34	22	0	0
4	56	125	17	15	1	0
5	23	172	10	8	1	0

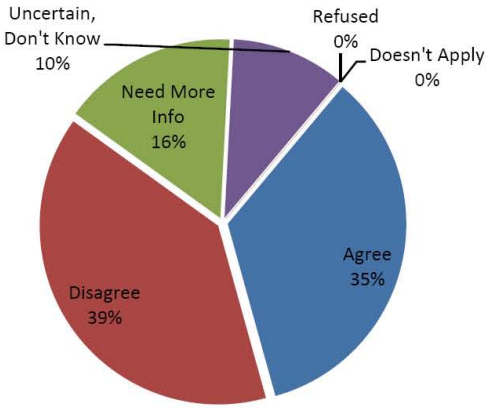
Question 1. Drains on city streets for stormwater are connected to the same sanitary sewer system used for treating human waste.



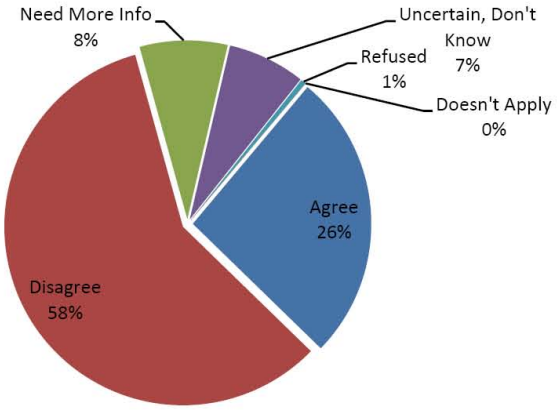
Question 2. Stormwater runoff pollution is a problem in Yakima County.



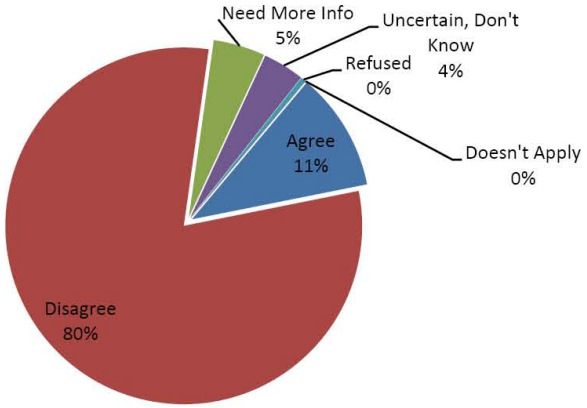
Question 3. All water going into stormwater drains on the street is treated before being discharged into the environment.



Question 4. Hard surfaces such as roads, driveways, and rooftops are not significant sources of pollution in stormwater.



Question 5. Litter, oil, and dirt on streets does not cause pollution of rivers, streams, irrigation, and drinking water.



Appendix F. Public Input Meeting notes.

Regional Stormwater Management Program Input 2011
March 31, 2011, 2-3pm
First Street Conference Center

Present:
Jennie McGhan, Daily Sun News
Steve Conduff, Yakima Speedway
Don Werst, Property Owner
Roger Roudebush, Canam Steel Corp
Mike Greene, Canam Steel Corp
Sue MacMichael, Property Owner
Bob Speer, Property Owner
Shelley Wilson, City of Yakima
Terry Wittmeier, Ecology
Jon Merz, Ecology
Brian Cochrane, Yakima County
Matt Durkee, Yakima County
Kelly Rae, Yakima County

Public Involvement

Brian explained that all Yakima County Stormwater Ordinances have to go through the public process. He stated that we also update the Regional Stormwater Working Group. This is currently our fourth year and today is the biggest audience we've had at a public meeting. It's a big challenge to get the community interested in a stormwater permit in a drier climate like Yakima County.

No public comment/question.

Public Education

Terry Wittmeier stated that the current public input meeting satisfies one of the permit requirements.

Terry Wittmeier said Yakima County can do more public education. He mentioned that there's a community up north that has door hangers. When the crew is doing maintenance on the system, they drop off door hangers. This is a two part form, (top half goes to resident and bottom half to crew supervisor). He explained that the results were easy to measure because the municipality was able to see a decline in pollutants disposed of in city drains. Community members were provided the information needed to report illegal dumping, as well. The address is written on both parts and the door hangers are distributed around the neighborhood when problems have been found (ie oil, gas, etc) in drainage. Terry has the form and said he will pass it on to Brian.

Brian brought up painting storm drains but stated that it is not real effective. He says there's a breakdown in getting a message to a certain group so that makes it hard to measure. We may consider a phone campaign to measure awareness of public.

Terry Wittmeier responded that there is also a grant for Eastern Washington being conducted in the Sultan area for education and outreach and that it also has a way of measuring.

Illicit Discharge

Terry Wittmeier explained that this component has tremendous success stories. Pollution has been pulled out of the water because of this program. It is doing what it was designed to do. Cross connections have been eliminated. He mentioned that sewage has been going into the river from as far back as the 1940s. Yakima City, Yakima County, Union Gap and Sunnyside should be applauded for efforts thus far. It's an ongoing process so there are still some items that need to be corrected.

Question: Is the Department of Ecology Industrial Stormwater a part of this?

Brian: No - each jurisdiction is responsible for what comes out at the end of their pipe. Municipalities have a separate ordinance.

Question: So which one rules - Ecology or County?

Brian: The City of Yakima has a permit to be responsible for.

Question: Do you use any of the results for monitoring?

Brian: No - the municipalities don't have to do that yet.

Question: Will there be one ordinance or continue to be two?

Brian: There will two ordinances - NPDES is an odd duck. Stormwater is very variable. There is some control over process (ie clean streets, etc) but not as much control as the industrial permit has. Industrial is about stormwater. Mixing the two - don't see it. Industrial and municipal are different. Some are similar.

Question: Eventually we'll have both an industrial and municipal fee?

Brian: Probably.

Construction

Terry Wittmeier reminded everyone that Yakima County has their own local manual along with the Eastern WA Manual.

Brian explained a bit about the Yakima County Manual.

Post Construction

No comments/questions

Good Housekeeping

Terry Wittmeier stated that the plan was due in February of this year.

Brian said that we turned ours in 2 years early. Need to spot check our stormwater system. Yakima - 1.24", Sunnyside - 1.2". Those are big events for Yakima County!

Monitoring & Record Keeping

Terry Wittmeier explained that Selah and Wilson Creek, Walla Walla, Spokane and Ellensburg were monitoring and that monitoring can get very expensive.

Questions/Comments

Shelley asked Brian to let the public know that we (City of Yakima, Sunnyside, Union Gap and Yakima County) don't know what's coming.

Brian said the next permit is under discussion. Monitoring is a question. LID is a big issue on Westside. Explained what an LID was to audience. Ecology and communities are having a discussion whether we need an LID.

Question: Who issues permit? Is it through the feds too?

Brian explained that it is authorized by the feds and Ecology issues permit.

Terry added that Ecology is a bit more stringent than the feds - one of the best!

Bill asked if it came from the Federal clean water act? Legislatures in WA?

Terry answered that the EPA gave us the authority to write NPDES permits.

Question: Who decided how much the assessment on individual properties?

Brian replied that assessments are different for each municipality. He told those at the meeting, that Yakima County has evaluated aerial maps and assigned each property units according to the amount of non-permeable surface area of the property. A residential property, he said, most likely would be assigned one unit and a commercial property might be assigned two units because it is two times the size of a residential property.

He said he doesn't know how the three cities assess rates for property owners, but Sunnyside has a "blue ribbon committee" looking at its method of assessment.

Non-permeable surface area is the best measurement for stormwater, Brian said, because stormwater runoff clearly does not filter through soil before reaching major water systems like the Yakima River.

Question: How many more times are you going to increase this? Is this a bottomless pit? I own two industrial properties - one increased 17% and another 110% - why? Both properties are located within the city of Yakima.

Brian suggested they talk to city of Yakima to find out how they measured and that he agreed that there shouldn't have that big of jump. Shelley informed them to contact Randy Meloy.

Bill suggested they ask about mitigations.

Comment: There is no water off Rudkin to get into drains.

Comment: Sunnyside doesn't have one yet either.

Brian said that Sunnyside is still working on theirs.

Question: Surface on commercial property - any consideration as to what the property is used for?

Brian replied no - the cost would be outrageous. Brian explained how it may be costed out. We're increasingly learning ways to infiltrate.

Question: Struggle with all the water, it all goes off surface, there is no drain, all surface to dirt. All of the oil is cleaned up or in our staging area. We have spill protection in place. No drainage - tire wear is all.

Brian said that there are exemptions/considerations: more in the system - cost per unit left in system is higher. As a utility, do you move the program cost? Fewer units and it becomes a subsidy.

Comment: This is not to pay for streets, gutters and roads. Street development is not in the program.

Brian concurred and said we're trying to keep a lid on the cost.

Question: What does gross revenue have to do with storm runoff?

Terry said if you're in excess of X amount dollars per year, your cap is XX and if your revenues are between $0 and $1,000. What else do we base it on?

Brian explained that we're all doing similar things - more or less alike. Education program looks alike. Specified through the interlocal agreement, task of permit - jointly and separately. He did note the program is available online to keep costs down. By keeping costs down, the ratepayers are not assessed as much.

A suggestion that was made to Brian regarding public outreach and education - a property owner advised him that although the stormwater program can be found online, not all citizens use computers. He suggested the program might include information that is available to individuals in some other format, such as a hard-copy document. Brian said the suggestion was something he appreciated because there may have been oversight on such a matter.

Meeting ended.

Appendix G. Training sign-in sheets.

City of Yakima-Public Works

Parks Maintenance-Safety Meeting

Includes Tahoma Cemetery and Fisher Golf

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1		Arias, Isidro	CE
2		Byers, Michael	S
3		Goeken, Jason	S
4		Herreid, Jim	Fi-S
5		Honanie, Cornell	
6		Johnson, Doug	
7		Julsing, Rae	
8	DM	Miller Debra	S
9		Molina, Quintin	Fi
10		Murphy, Randy	
11		Pierson, Smokey	CE
12	DR	Rodman, Dawn	S
13	JR	Rodriguez, Juan	
14		Rognlie, Chip	
15	OFF	Salinas, Margarito	
16		Arturo Cenas	
17		Kevin VanEpps	
18	JR	Juan Ramos	
19			
20			
21			

City of Yakima-Public Works

Streets-Safety Meeting

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1	TB	Burke, Tom	25		
2	DC	Catron, David	26		
3		Deason, Wayne	27		
4	CF	Ford, Casey	28		
5		Fraga, Robert	29		
6	JG	Gage, Jeff	30		
7		Hartman, Marc	31		
8		Hazen, Eugene			
9		Kendall, Jay			
10		Kern, Raymond			
11	TL	Lounsbury, Tim			
12		Morford, Dusty			
13		Parries, Jeff			
14	WHR	Renecker, Bill			
15		Richards, Michael			
16		Rivard, Kurt			
17		Rutter, John			
18		Schooley, Mark			
19		Schut, Todd			
20		Simpson, Doug			
21		Urioste, Richard			
22	EV	Vatshell, Erik			
23		Willis, Brady			
24					

City of Yakima-Public Works

Equipment Rental-Safety Meeting

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1		Haider, Mike
2		Jaquins, Joe
3		Jones, Kerry
4		Marrs, Terry
5		McDowell, Michael
6		Nugent, Michael D.
7		Petri, Stuart
8		Richey, Rhonda
9		Simpson, Earl
10		Stoothoff, David
11		Wonner, Richard
12		Williams, Steve
13		
14		

INTERGOVERNMENTAL LOCAL AGREEMENT
FOR STORMWATER PERMIT COMPLIANCE ACTIVITIES
BETWEEN
YAKIMA COUNTY
AND
THE CITIES OF
YAKIMA, UNION GAP AND SUNNYSIDE
September, 2009

THIS AGREEMENT is made and entered into between Yakima County, a municipal corporation of the State of Washington, hereinafter referred to as "County", and the Cities of Yakima, Union Gap and Sunnyside, all being municipal corporations, hereinafter referred to as "Yakima", "Union Gap" and "Sunnyside" respectively, or "Cities" when it includes all, or "City" when it is either Yakima, Union Gap or Sunnyside; and,

WHEREAS, Yakima County and the Cities of Yakima, Union Gap and Sunnyside are required to comply with the State of Washington's Eastern Washington Phase II Municipal Stormwater General Permit, hereinafter referred to as "Permit"; and,

WHEREAS, the County and Cities formed the Regional Stormwater Policy Group to ascertain the most cost beneficial course of action for the Parties in order to provide the best value to their citizens concerning NPDES II stormwater plan development for respective Municipal Separate Storm Sewer Systems; and,

WHEREAS, the consultants hired by the Regional Stormwater Policy Group to analyze Municipal Separate Storm Sewer System stormwater plans have provided value engineering of the plans and identified regional opportunities to reduce costs and; and,

WHEREAS, the County and Cities acknowledge the financial and consistency benefits of a regional plan following the above noted joint plan studies and agree to apply as primary and co-permittees to meet the Permit requirements of regulated small MS4s, as allowed under the Permit; and,

WHEREAS, the County and Cities have agreed that the County would administer and manage a Permit as the primary permittee with Cities as co-permittees for the respective Municipal Separate Storm Sewer Systems; and,

WHEREAS, the County and Cities under RCW Chapter 39.34, have the legal authority to enter into interlocal agreements for the sewerage and stormwater management programs within its boundaries consistent with relevant laws; and,

WHEREAS, the County and Cities have authority to operate and maintain storm and surface water management systems and many other services as provided for under their relevant laws; and,

WHEREAS, the County and Cities have enjoyed a strong and effective partnership under an existing ILA for permit years 1 through 3 and cooperation through the Regional Stormwater Policy Group; and,

WHEREAS, the County and the Cities have realized significant savings and cost avoidance in the amount of $295,000 in regional stormwater program partnership; and,

WHEREAS, the County and the Cities would like to continue the regional stormwater approach for public benefit; and,

NOW, THEREFORE, in consideration of the covenants and agreements to be kept and performed by the parties hereto, it is agreed as follows:

Section 1. Definition of Terms

Wherever the following terms are used in this agreement they shall have the following meaning unless otherwise specifically indicated by the context in which they appear:

A. Area of Geographic Responsibility for the Cities means the City limits as they exist at the time of execution of this ILA and as they may be amended during the existence of this Agreement. The Area of Geographic Responsibility for the County is the 2000 Census urbanized areas and the urbanized growth areas of the co-permittees under the jurisdictional control of the County. This area constitutes the geographic boundary used by Ecology to define the area of the Permit. The area does not include the city limits of other cities within the county who may be a single permittee or are otherwise exempt from the Eastern Washington Phase II Municipal Stormwater Permit.

B. BMP means Best Management Practice and may include, but is not limited to, a schedule of activity, prohibition of practice, maintenance procedure, and structural and/or managerial practice that, when used singly or in combination, prevents or reduces the release of pollutants and other adverse impacts to receiving waters.

C. Board or BOCC means the Board of Yakima County Commissioners, its governing body.

D. Capital Improvement Project (CIP) is a constructed project facility such as a road improvement or stormwater control facility that is generally of a durable nature.

E. Chief Executive Officer (CEO) means the designated City official responsible for managing the day-to-day business affairs of City. This is either the City Manager for Council-Manager or Mayor for Mayor-Council city government.

F. Council means the City Council, governing body of a City.

G. Ecology means the Washington State Department of Ecology.

H. Monthly Service Charge means the monthly portion of the annual costs distributed between the Parties and paid to the County to perform tasks identified in this Agreement and Appendix A.

I. Municipal Separate Storm Sewer System (MS4) means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned or operated by the Parties that is designed or used for collecting or conveying stormwater; which is not a combined sewer; and which is not part of a sanitary sewer.

J. Operation and Maintenance (O&M) means the regular performance of work and corrective measures taken to repair facilities.

K. Person means the State of Washington, any individual, public or private corporation, political subdivision, governmental agency, municipality, industry, co-partnership, association, firm, trust, estate or any other legal entity whatsoever.

L. Party(ies) means the individual or collective members of this Interlocal Agreement: Yakima County, City of Yakima, City of Union Gap, City of Sunnyside.

M. Public Services Director means the designated County official responsible for managing the RSPG business affairs for Yakima County.

N. Regional Stormwater Policy Group (RSPG) is an organization formed consisting of representatives from the Parties whose main purpose is to review and make recommendations on regional stormwater policies required under the Permit as well as to assist in dispute resolution between the Parties.

O. Service Rate is a rate billed to residents and businesses within a Party's jurisdiction to support their stormwater program.

P. Systems Development Charge is a rate billed to applicants within a Party's jurisdiction proposing construction or development activities to cover the cost of review and approval of the applicant's project to ensure compliance with the Permit.

Q. Total Maximum Daily Load (TMDL) means a site-specific allocation of water-borne pollutants from all sources to a particular receiving water to comply with the State's surface water quality criteria.

R. Underground Injection Control (UIC) means a well that is a manmade subsurface fluid distribution system designed to discharge fluids into the ground and consists of an assemblage of perforated pipes, drain tiles, or similar mechanisms, or a dug hole that is deeper than the largest surface dimension (WAC 173-21-030). UIC systems include drywells, pipe or French drains, drain fields, and other similar devices that are used to discharge stormwater directly into the ground.

Section 2. Transfer of Responsibility

A. Purpose. The purpose for this Agreement is for the Cities to transfer the responsibility and authority for the management of the Permit to the County with certain responsibilities retained by the Cities as specified in Appendix A of this document. The responsibilities of the Parties are defined in this Section and Appendix A.

B. Limitations. The ownership and maintenance of facilities remains the responsibility of the Parties within their respective jurisdictions unless specifically noted otherwise. The following stormwater program items for each Party, are not covered under this Agreement and are not included in the estimated program costs:

- Stormwater Equipment Funding
- CIP Funding
- Program Funding Mechanism

- Stormwater Program Reserve Funding
- UIC Program requirements of Chapter 173-218 WAC

C. Division of Responsibilities

1. County will administer the Permit with the Cities maintaining specific functions, as defined in Appendix A and Exhibit A.
2. Parties will collect rates within their respective jurisdictions to support the Permit and program activities defined by this Agreement.
3. Cities will provide those items and activities to the County necessary to run the program and maintain compliance in accordance with the Permit schedule, formats developed in accordance with Section 3B of this Agreement and annual reporting requirements.
4. During the term of this Agreement, Parties will maintain all stormwater facilities at a level as specified in the Permit and in order to retain Permit compliance.

Section 3. Ordinances, Plans, and Standards.

A. The Permit requires implementation of ordinances that prohibit illicit discharges to the MS4, require erosion and sediment controls at construction sites, and require post-construction stormwater controls at new development and re-development sites. Cities agree to notify County of apparent violations of the subject ordinances of which it has knowledge, and which may constitute a violation of the Permit.

B. The County will implement the requirements described in the Permit as the primary permittee of the Parties in this Agreement. In order for the County to successfully meet the Permit requirements, the County will specify the data format and timeline for those items and activities that Cities will provide to the County that are necessary to run the program and maintain compliance in accordance with the Permit schedule (Appendix A). Cities will then provide all required information in accordance with the requested format and timeframe.

Section 4. Procedure for Modifying the Division of Responsibilities

A. Responsibilities defined in this Section and Appendix A may be modified from time to time with approval in writing by each City CEO and the Public Services Director.

B. Responsibilities defined in this Section and Appendix A may be modified after mutual agreement with Cities and determining the change is necessary to comply with state and/or federal permits, laws and/or regulations. County shall not change the scope of Cities responsibilities without mutual agreement with Cities unless there is a change in the Permit or the Cities have failed to correct any identified instances of nonperformance related to said Permit.

C. Upon reasonable notice from the Cities to the County or from the County to the City(ies), the County may assume or relinquish responsibility for any portion of the program defined in this Section and Appendix A. Reasonable notice shall be at least six (6) months, unless mutually agreed to in writing by County and Cities. Corresponding adjustments to the cost allocation shall be made at the same time to reflect the change in responsibility upon implementation of such

changes. Parties shall be responsible for correcting or paying to have corrected any deficiencies from non-performance of the programs under their respective responsibility.

D. If Cities' responsibilities are not performed in a timely manner and County determines that such tasks must be performed, County may, at its sole discretion after consulting with the CEO(s) of said Cities, perform such tasks and add the cost to charges otherwise due from the responsible Cities.

Section 5. Additional Party Responsibilities

A. In order for the County to fulfill the requirements of the Permit, it is anticipated that the County will occasionally require access to the Cities' MS4. Cities will allow the County access at any reasonable time upon reasonable notice to facilitate permit compliance within City and City Area of Geographic Responsibility.

B. The Parties will continue to participate in the RSPG to coordinate the regional stormwater quality effort. The RSPG shall endeavor to meet at least quarterly, to discuss status of permit compliance and address policy questions.

C. UIC Program. Where UICs are a part of the public MS4, the Parties will manage them and report their activities in accordance with the terms of this agreement and the Permit. This does not relieve the Parties from other UIC requirements under the UIC Program administered by Ecology. (Exhibit A)

D. Parties will perform maintenance or CIP within their area of geographic responsibility when permit activities indicate a permit violation.

E. Parties will use existing and future equipment sharing agreements when possible rather than purchase new equipment to keep stormwater O&M costs down.

Section 6. Determination of Costs; Operating Procedures and Rules Relating to Expenses

A. Determination of Costs and Division of Expenses

1. Unless otherwise identified, the Costs to complete tasks identified in this agreement and Appendix A will be distributed on the following percentage basis, as agreed to by the Parties and based on relative numbers of households in each community:

- Yakima County 15%
- City of Yakima 70%
- City of Union Gap 5%
- City of Sunnyside 10%

2. Upon request, some tasks identified in this agreement and Appendix A will be billed on a case by case basis to a specific City, such as: construction plan review, post-construction plan review, illicit discharge investigation, and specific training events outside the scope of this agreement. These activities must be requested in writing by the City, acknowledged by the County, and will be billed at actual County wages with fringe benefits and overhead.

3. The distribution of costs will remain fixed for the duration of this agreement, per Section 6.A.1 above. In the event one or more of the Parties withdraws from this Agreement, the Parties shall update said Section.
4. Not later than May 15 annually, the Public Services Director shall prepare a report of the costs associated with the past permit period (February 16 - February 15), and a forecast of the cost predicted for the next permit period.
5. The County will bill for its services monthly for actual wages and benefits expenditure basis plus overhead.
6. In the event a Party withdraws from or is for any reason removed from this Agreement, then that Party shall be financially responsible for the actual percentage of that Party's total annual costs that have been expended or obligated under the Agreement on that Party's behalf as of the date of withdrawal or removal. A Party's unpaid obligations or overpayments under this subsection shall be fully compensated to the appropriate Party within forty five (45) days of the withdrawal or removal. The County's financial records for this Agreement shall be relied upon for determinations required under this subsection.

B. Operating Procedures Relating to Expenses

1. The County shall establish separate accounting codes for the purpose of tracking all expenses and service charges pursuant to the Agreement.
2. The Parties may at any reasonable time upon reasonable notice inspect and audit the books and records of the County with respect to matters within the purview of the Agreement.
3. The Parties shall each prepare and submit to the County a performance report of the Permit functions for which each is responsible. The requirements, frequency and content of the performance report will be specified in a format to be developed in accordance with Section 3B of this Agreement.
4. The Cities shall pay the monthly service charge to the County no later than the 15th day of each month.
5. Payments from Cities to the County overdue by sixty (60) days will be considered late.
6. Interest may accrue on late monthly payments to the County as specified in Section 6.B.6 of this Agreement at a rate of 1.25 times the monthly Local Government Investment Pool (LGIP) earnings rate as posted for the previous month, and will be applied each month to the unpaid balance.

C. Parties will report total stormwater program income and expenses using the Standardized Income and Expense Categories for Budget Reporting format found in Appendix B. At a minimum, parties will report annual total program income and expenses for each calendar year, due to the County no later than March 30. The County will compile the

reports and include the reports with the annual budget report identified in Section 6.A.4 (above). The RSPG may request reports more frequently.

D. Ecology permit fees are billed to regional co-permittees by identifying the co-permittee with the largest number of households, and billing that Party at the standard Ecology Stormwater Permit rate for that municipality. The City of Yakima will continue to receive an invoice for the permit fee from Ecology. The City of Yakima will submit bills to the other Parties for their respective share of the Ecology Stormwater Permit fee, according to the cost sharing schedule identified in Section 6.A.1.

Section 7. Administrative and Operating Provisions

A. Insurance. Each Party shall obtain and maintain in full force and effect for the term of this agreement, at its own expense, comprehensive general liability and automobile insurance policies for bodily injury, to include death and property damage, including coverage for owned, hired or non-owned vehicles, as applicable, for the protection of the Party, its elected and appointed officials, officers, agents, employees and volunteers. The policies shall be primary policies, issued by a company authorized to do business in the State of Washington, or in City or County Risk Pool and providing single limit general liability coverage of $2,000,000 and separate automobile coverage of $1,000,000 or the limit of liability contained in State law, whichever is greater. If either party is unable to obtain insurance as required by this paragraph, the Parties shall cooperate on amending this Section to require types and levels of insurance that are available. The certificates shall provide that the other Parties will receive thirty (30) days written notice of cancellation or material modification of the insurance contract at the address listed below. Each Party shall provide certificates of insurance to the other Parties prior to the performance of any obligation under this agreement. If requested, complete copies of insurance policies shall be provided to the other Parties. Each Party shall be financially responsible for their own deductibles, self-insurance retentions, self-insurance, or uninsured risks.

B. Indemnification. This agreement is for the benefit of the Parties only. Each Party agrees to indemnify and hold harmless the other Parties and their elected officials, officers, employees, and agents, from and against all claims, demands and causes of actions and suits of any kind or nature for personal injury, death or damage to property or the environment on account of or rising out of the operation of this Agreement, by the indemnifying Party, including the performance or non-performance of duties under this Agreement, or in any way resulting from the negligent or wrongful acts or omissions of the indemnifying Party and its officers, employees, and agents. In addition, each Party shall be solely responsible for any contract claims, delay damages or similar items arising from or caused by the action or inaction of that Party under this agreement. Inability to perform a required activity or to properly perform due to insufficient information or direction from the County per the agreements set forth herein is not a negligent act, omission or willful misconduct of the Party charged with said performance. Performance of any activity in compliance with this agreement, the permit, or the Standards as adopted by the Parties is not a negligent act or omission or willful misconduct.

C. Notice of Violation or Fine. The Parties acknowledge that County , as lead agency, may receive notices of violation or fines from state or federal agencies for violations of state or federal rules. As the lead agency and the entity that establishes Standards and controls payment, County shall be responsible for responding to notices of violations. County shall invite the responsible City to participate in any discussions with state and federal agencies regarding notices of violation involving City actions or responsibility. The responsible City will cooperate with County in the investigation and response to any notice of violation involving actions relating to actions or responsibilities of the City. County settlement of permit disputes with Ecology that involve Cities shall be only with consent of said Cities. If a fine is imposed, the responsible City shall pay the fine to the extent that the fine results from non-performance of adopted programs or non-compliance with County, state, or federal rules or policies by the City and those acting on behalf of the City. The City shall pay prior to the date due for payment of the fine. If more than one Party is responsible, each responsible City's responsibility for payment will be allocated based on the degree of responsibility and degree of fault of each responsible City. Disputes over the amount a Party is responsible for shall be resolved by the dispute resolution process set out in Section 8 of this Agreement.

D. Delegation. Nothing in this Agreement shall be construed as a limitation upon or delegation of the statutory and home rule powers of any City participating in this Agreement, nor as a delegation or limitation of the statutory powers of County. This Agreement shall not limit any right or remedy available to Cities or County against third parties arising from illegal acts of such third parties.

Section 8, Dispute Resolution; Remedies

A. In the event of a dispute between the Parties regarding their respective rights and obligations pursuant to this Agreement, the disputing Parties shall first attempt to resolve the dispute by negotiation. If a dispute is not resolved by negotiation, the exclusive dispute resolution process to be utilized by the Parties shall be as follows:

   1. Step 1. Upon failure of those individuals designated by each Party to negotiate on its behalf to reach an agreement or resolve a dispute, the nature of the dispute shall be put in writing and submitted to City's CEO and the County Public Services Director, who shall meet and attempt to resolve the issue. If the issue in dispute is resolved at this step, there shall be a written determination of such resolution, signed by City's CEO and the County Public Services Director, which determination shall be binding on the parties. Resolution of an issue at this step requires concurrence of both parties' representative. If not resolved in thirty (30) days, this issue may be taken to Step 2.

   2. Step 2. Upon failure of the City's CEO and the County Public Services Director to negotiate on its behalf to reach an agreement or resolve a dispute as provided in Step 1, the nature of the dispute shall be put in writing and submitted to the respective officials of the RSPG, who shall meet and attempt to resolve the issue. If the issue in dispute is resolved at this step, there shall be a written determination of such resolution, signed by City's CEO and the County Public Services Director, which determination shall be

binding on the parties. Resolution of an issue at this step requires concurrence of both parties' representatives. If not resolved in thirty (30) days, this issue may be taken to Step 3.

3. Step 3. In the event a dispute cannot be resolved at Step 2, the Parties shall submit the matter to mediation. The Parties shall attempt to agree on a mediator. In the event they cannot agree, the Parties shall request a list of five (5) mediators for the American Arbitration Association, or such other entity or firm providing mediation services to which the Parties may further agree. Unless the disputing Parties can mutually agree to one mediator from the list provided, each Party shall strike a name in turn, until only one name remains. The order of striking names shall be determined by lot. Any common costs of mediation shall be borne equally by the disputing Parties, who shall each bear their own costs thereof. If the issue is resolved at this step, a written determination of such resolution shall be signed by both Parties. Resolution of an issue at this step requires concurrence by both Parties.

3. Step 4. If any dispute is not settled in Step 3, either Party may request binding arbitration. The Parties shall agree, within ten (10) days, on an arbitrator who shall be an attorney licensed to practice law in Washington (or a retired attorney) or a retired Washington judge, to resolve the dispute. If they are unable to agree on an arbitrator within ten (10) days, then each Party shall appoint an arbitrator. The two arbitrators shall choose a third. If the choice of the second or third arbitrator is not made within ten (10) days of the choosing of the prior arbitrator, then either Party may apply to the presiding judge of the judicial district of Yakima County to appoint the required arbitrator. The arbitrator(s) shall proceed according to the Washington statutes governing arbitration, and the award of the arbitrator(s) shall have the effect therein provided. The arbitration shall take place in Yakima County. Costs of a single or any third arbitrator shall be shared equally by the Parties. Each Party shall pay their own arbitrator. The arbitrators may allow discovery, as provided by Washington law and may grant any remedy or relief which the arbitrator(s) deem just and equitable and within the scope of the agreement of the Parties, including, but not limited to, specific performance of any obligation created under the agreement, any interim or provisional relief that is necessary to protect the rights or property of the Parties, or imposition of sanctions for abuse or frustrations of the arbitration process.

B. Parties may mutually agree in writing to waive any of the above steps, or to enter into alternate processes or additional processes.

Section 9. Attorney Fees

In the event any Party shall institute arbitration as set forth in this Agreement (or any other dispute resolution proceeding) against any other Party to this Agreement, in any way arising out of, connected with or relating to this Agreement, the prevailing Party in that arbitration (or any other dispute resolution proceeding) shall be entitled to recover, in addition to all other appropriate relief, the prevailing Party's costs and reasonable attorney fees incurred in that

arbitration (or any other dispute resolution proceeding), said amount to be set by the arbitrator (or courts) before which the matter is tried, heard or decided.

Section 10. Modifications or Amendments

No amendment, change or modification to this Agreement shall be valid, unless in writing and adopted and signed by all the Parties hereto.

Section 11. Final Agreement/Merger

This Agreement contains the final and entire agreement between the Parties and is entered into with the understanding that all prior discussions, representations and agreements are merged into this Intergovernmental Agreement.

Section 12. Duration

This Agreement is for Years 4 and 5 of the Permit (February 16, 2010 through February 15, 2012) and will be reviewed by all Parties at the end of the fourth year (February 15, 2011) for consideration of continuing the Agreement beyond the five (5) year permit cycle, and for potential amendment of responsibilities.

A decision and written commitment to amend and/or extend the Agreement for the new five-year permit (2012-2017) is required from all Parties within the first three (3) months of the fifth permit year (May 15, 2011) or the Agreement terminates at the end of year five (February 15, 2012).

Section 13. Termination

Parties may terminate their obligations under this Agreement for the reasons listed below. The Permit requires co-permittees that share responsibilities to notify Ecology of any/all amendment or termination actions.

A. If a Party materially defaults in the terms of this Agreement and such default continues for a period of more than thirty (30) days after written notice from the Public Services Director to the defaulting Party specifying the nature of the default. If the default cannot reasonably be cured within thirty (30) days, such default shall be a material breach if the breaching Party fails within thirty (30) days of written notice to commence and pursue curative action with reasonable diligence. One Party's termination by default does not constitute termination of the Agreement by the remaining Parties. This Agreement will be modified to define financial obligation of the remaining Parties.

B. If the provisions of this Agreement become impracticable due to a change in the law or other changed circumstances, which did not exist at the time of the signing of this Agreement.

C. Any Party may withdraw from the Agreement upon thirty (30) days written notice to the other Parties. Withdrawal of one Party does not constitute termination of the Agreement by the remaining Parties. In the event of a Party's withdrawal this Agreement will be modified to define the financial obligations of the remaining Parties.

Section 14. Language; Headings

Where the context so requires the singular shall be deemed to include the plural, the plural the singular, and the masculine, feminine or neuter to mean the other. The paragraph captions shall not be used to construe or interpret this Agreement.

Section 15. Drafting; Construction

Each Party intends that this Agreement in all respects shall be deemed and construed to be equally and mutually prepared by all Parties and it is hereby expressly agreed that any uncertainty or ambiguity shall not be construed for or against any Party.

Section 16. Severability

If any provision of this Agreement shall be invalid or unenforceable in any respect for any reason, the validity and enforceability or any such provision in any other respect and of the remaining provisions of this Agreement shall not be in any way impaired.

Section 17. Effective Date / Counterparts

This Agreement may be signed in counterparts, with each Party hereto receiving copies of all participating Party's fully executed signature pages. This Agreement shall become effective when executed by all Parties hereto.

IN WITNESS WHEREOF, this instrument has been executed in duplicate by authority of lawful actions by the Councils and Board of County Commissioners.

CITY OF YAKIMA

R.A. Zais, Jr., City Manager

Date: 10/9/09

Attest:

City Clerk

CITY OF UNION GAP

Jim Lemon, Mayor

Date 11-02-09

Attest: Kathryn Thompson

City Clerk

CITY OF SUNNYSIDE

~~Pablo Garcia, Mayor~~ Jim Bridges, Interim City Manager

Date 10/29/09

Attest: Deborah Estrada

City Clerk

CITY CONTRACT NO 2009-112
RESOLUTION NO R-2009-130

BOARD OF YAKIMA COUNTY COMMISSIONERS

J. Rand Elliott, Chairman

Michael D. Leita, Commissioner

Kevin J. Bouchey, Commissioner

Constituting the Board of County Commissioners for Yakima County, Washington

Date: 11/10/09

Attest: Christina S. Steiner

Clerk of the Board

Approved as to Form:

Deputy Prosecuting Attorney

APPENDIX A

SUMMARY OF RESPONSIBILITIES BETWEEN PARTIES

RELATING TO COMPLIANCE WITH THE PERMIT

Exhibit A is a spreadsheet and is attached to help clarify the regional task to be performed by the County. Activities not listed remain the responsibility of each Party.

The specific tasks described in the Permit will be performed either by County, each City, or jointly, as follows, identified by Permit section number. All data, reports and information provided by the Cities to the County shall be in accordance with the Standards that will be agreed to in Section 3B in the main body of this Agreement.

S5.A.3 The County will prepare written documentation of the SWMP.

S5.A.4.a The Parties will gather information for the SWMP. The County will maintain and use the information in the SWMP.

S5.A.4.a.i The Parties will track and provide the number of inspections, enforcement actions, public education activities, and provide this information to the County. The County will maintain this information for the annual report.

S5.A.4.a.ii The Parties will track the costs of SWMP implementation. The County will maintain this information for the annual report and provide upon request from Ecology.

S5.A.5. The County will coordinate with Cities regarding NPDES policies, programs, and projects, especially those within adjoining or shared areas.

S5.B.1.a. The County will perform public education and outreach goals identified in the Permit and for implementation of a public education and outreach strategy in the Permit. To assess performance, a baseline survey will be conducted prior to implementing outreach, followed by outreach activities, followed by a re-survey to determine effectiveness of various outreach messages.

S5.B.2.b. The County will make the latest SWMP available to the public and update the SWMP annually in accordance with the Permit schedule. In addition, the County will conduct at least one public meeting to solicit input for the SWMP.

S5.B.3.a The County will develop a map of the Parties' MS4 using existing GIS data collected by Cities and will provide Cities with regular updates of the map in electronic format. Cities will provide GPS/GIS updates as the MS4 is changed in their area of geographic responsibility, and perform data collection where current omissions exist. The County will complete a map by the end of the Permit.

S5.B.3.a.ii The Cities, with County support, will conduct field surveys to verify outfalls within their respective jurisdictions. S5.B.3.a.iii The County, will provide maps of each Party's MS4 using the most currently available data available at the time of the request to Ecology and other entities when requested.

S5.B.3.c The Parties will implement procedures for assessment of spills and illicit discharges within their area of geographic responsibility with support from the County. The Parties will report investigation and monitoring results to the County for inclusion in the annual report to Ecology. Cities may request the County to investigate specific cases in accordance with Section 6.A.2, above.

S5.B.3.d.ii The County will create, list and publicize a spill reporting hotline, and keep records of calls and follow-up actions. In accordance with S5.B.3.e (below), the Parties respond to reported spills and perform follow-up actions in their area of geographic responsibility. Cities will provide information to the County on spills reported to them by means other than the hotline.

S5.B.3.e The County will implement procedures for program evaluation. In accordance with the Standards, Cities will provide information to the County including tracking the number and type of spills or illicit discharges identified; number of inspections; and feedback received from public education activities.

S5.B.3.f The County will develop, provide, and keep records of training sessions to instruct City and County staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges including spills, improper disposal, and illicit connections. The Cities will participate in these training sessions. If required, the City will provide training facilities at no cost to the County.

S5.B.3.g The County will develop and provide training sessions to instruct City and County staff whose normal job responsibilities might come into contact with or otherwise observe an illicit discharge or illicit connection to the MS4 and those office personnel who might receive initial reports of illicit discharges. The Cities will participate in these training sessions. If required, the Cities will provide training facilities at no cost to the County.

S5.B.4.b. The County will develop a procedure for construction site plan review that will incorporate consideration of potential water quality impacts. Cities will implement the procedure, or an equivalent procedure, unless Cities request the County to perform these tasks in accordance with S5.B.4c. Cities may request the County to review construction site plans and inspect construction sites for specific cases in accordance with Section 6.A.2, above. Cities performing their own review and inspection shall keep records and submit records to the County for annual reporting.S5.B.4.d. The County will provide training information to construction site operators regarding erosion and sediment controls.

S5.B.4.e Public feedback regarding stormwater or sediment control will be directed to the County. The Cities will participate by forwarding calls and complaints to the County, and perform follow-up actions in their jurisdictions. Cities will provide information to the County on their follow-up actions. The County will retain and summarize the public feedback in the annual report.

S5.B.5.b. The County will develop a procedure for post-construction site plan review that will incorporate consideration of potential water quality impacts. Cities will implement the procedure or an equivalent procedure, unless requesting the County to review plans (below).

S5.B.5.c Cities may request the County to review post-construction site plans and inspect post-construction sites for specific cases in accordance with Section 6.A.2, above. Cities performing their own review and inspection shall keep records and submit records to the County for annual reporting.

S5.B.5.d The County will develop, provide, and keep records of training sessions to instruct City and County staff responsible for permitting, planning, review, inspection, and enforcement of post-construction requirements. The Cities will participate in these training sessions. If required, the City will provide training facilities at no cost to the County.

S5.B.5.e The County will provide training information to design professionals, developers and construction professionals regarding post-construction stormwater BMPs and retain copies of information provided.

S5.B.5.f The County will keep records of all projects disturbing at least one acre, or less if part of larger development. The Cities will provide information to the County regarding projects in their area of geographic responsibility.

S5.B.6.a.i The Parties will implement Operation and Maintenance (O&M) plans developed in Permit Years 1-3 and Cities will report annually to the County the measures being taken in compliance with the plans. Plans will, at a minimum, address the following types of facilities:

1. Stormwater collection and conveyance systems
2. Roads, highways, and parking lots
3. Vehicle fleets.
4. Municipal buildings.
5. Parks and open space.
6. Construction Projects.
7. Industrial Activities.
8. Material storage areas, heavy equipment storage areas and maintenance areas.
9. Flood management projects.
10. Other facilities described by the Permit

S5.B.6.a.ii County and City in each area of geographic responsibility will, either separately or jointly, inspect a minimum of 95% of stormwater facilities by the end of the third year of the Permit (February 15, 2010). County and City in each area of geographic responsibility will conduct spot checks of the MS4 after storm events that are greater than 10-year return frequency. The Cities will report to the County activities taken to inspect the MS4 following said storm events.

S5.B.6.b. The County will develop, perform and keep records of training sessions to instruct City and County staff responsible for O&M Plan implementation. . The County will provide the

training and the City will participate in these training sessions. If required, the City will provide training facilities at no cost to the County

S8.A The County will report to Ecology any sampling pursuant to TMDL or illicit discharge investigations. No TMDLs currently affect the Party's MS4 operation. The Cities will supply sampling results of illicit discharge investigations in accordance with the Standards.

S8.B The County will assess the effectiveness of BMPs implemented as part of the SWMP.

S9.A The County will provide an annual report to Ecology. Cities will provide necessary report information to the County in accordance with the Standards.

S5.B.3.a Where UICs are part of the MS4, they will be included in efforts conducted under S5.B.3.a above.

S5.B.3.b The UIC Program requirement to integrate public UICs into IDDE Ordinance will be incorporated into section S5.B.3.b above.

S5.B.5 The UIC Program requirement to conduct UIC plan reviews and site inspections for new UICs will be conducted by the Parties independently. Where UICs are part of post-construction designs, this activity will be performed jointly under S5.B.5 above.

S5.B.6 . The UIC Program requirement to operate new public UICs with BMPs. will be conducted by the Parties independently. Where UICs are part of the MS4 and Permit O&M Plans, this activity will be performed jointly under S5.B.6 above.

No Permit Requirement. The County will coordinate RSPG meetings. Cities will provide meeting facilities as needed and obtain Yakima Public Affairs Channel (YPAC) when available at no cost to the County.

No Permit Requirement. The County will provide monthly progress reports on activities required by this agreement.

No Permit Requirement. The County will provide monthly invoices and an annual accounting summary in accordance with sections 6.A.4 and 6.A.5 of this agreement.

No Permit Requirement. The County will attend grant opportunity meetings held in central Washington, recommend grant opportunities and projects that will be of benefit to the Parties. If appropriate, the County will apply for grants that may involve partnership with the other Parties, with support from said Parties.

No Permit Requirement. The County will coordinate with Ecology on status of TMDL projects, and keep the Parties informed when new information becomes available from Ecology.

No Permit Requirement. The County will review, comment, and participate in Technical Advisory Groups (TAGs) during TMDL development for TMDLs that may affect any Party's MS4.

No Permit Requirement. The County will present stormwater issue briefings and Regional stormwater status reviews to Party elected officials if requested by a Party.

Appendix B
Standardized Income and Expense Categories for Budget Reporting

1. ***Revenue***
    a. Bond Forfeit
    b. Grants
    c. Intergovernmental Services
    d. Loans
    e. Review Fees
        i. Construction SWPPP
        ii. Post-construction Stormwater Site Plan
    f. Utility Fees
    g. Violation Penalties
2. ***Expenses***
    a. ***Administration***
        i. Annual Billing
        ii. Billing Services
        iii. Debt Service Share - Contribution to Debt Service Fund
        iv. GIS Services
        v. Other Administration
        vi. Technical Services
        vii. Utility Administration
        viii. Utility Formation Repayment
    b. ***Permit Compliance***
        i. Fees (NPDES and UIC)
        ii. Storm Water Management Plan
        iii. Annual Report
        iv. Other Reporting (UICs)
        v. Inter-Jurisdictional Coordination

vi. Public Education

vii. Public Involvement

viii. Illicit Discharge Detection & Elimination

1. Mapping
2. Complaint Response/Investigation
3. Emergency Response
4. Code Enforcement
5. Lab Services

ix. Construction

1. SWPPP Review
2. Inspection
3. Code Enforcement

x. Post-Construction

1. Stormwater Site Plan Review
2. Inspection
3. Code Enforcement

xi. Good Housekeeping & Pollution Prevention

1. O&M Plan Updates
2. Inspection
3. Training

xii. TMDL Compliance

1. Monitoring
2. Lab Services

c. ***System Maintenance***

i. Cleaning Catch Basins/drywells

ii. Culvert/pipe Repair/replacement

iii. Rodding/Jetting

iv. Ditch Cleaning

v. Treatment BMP Maintenance

vi. Leaf, Brush, Trash Collection

vii. Dredging/ Sediment Removal/Retention Pond Maintenance

viii. Other Structure Maintenance/Repair

ix. Street Sweeping

d. Projects

i. Demonstration Projects

ii. Construction (New Storm Sewer Systems in Developed Areas)

3. Reserves

a. Emergency Response

b. Capital Improvement

c. Equipment Replacement

d. Other Reserves

EXHIBIT A. Spreadsheet showing Permit and regional task summary, permit section, responsibility..

Permit Section	HDR BMP	Lead Agency	Summary of Regulatory Requirement	Hrs 2010	Hrs 2011
			Develop and Implement Stormwater Management Program	300	300
S5.A.3	General	County	Prepare written documentation of SWMP	120	120
S5.A.4.a	General	County with City Support	Gather, maintain and use info for SWMP	20	20
S5.A.4.a.i	General	County with City Support	Track number of inspections, enforcement actions, public ed activities	40	40
S5.A.4.a.ii	General	County with City Support	Track or estimate cost of SWMP development and implementation	40	40
S5.A.5	General	County	Coordinate with other NPDES MS4 permittees	80	80
			Public Education and Outreach	400	280
S5.B.1.a.	2A	County with City Support	Conduct public education and outreach to general public, businesses, construction and design community and target audiences.		
			Baseline survey	120	
			Implement education	240	240
			Re-survey	40	40
			Public Involvement and Participation	50	50
S5.B.2.b.	3D	County	Make latest SWMP available to the public & update annually	10	10
S5.B.2.b.	3D	County	Conduct annual public input meeting.	40	40
			Illicit Discharge Detection and Elimination	400	380
S5.B.3.a	4A	County with City support	Develop MS4 map showing outfalls, receiving waters and discharge areas. The permittees must complete a 2/3rds map by end of Permit year 4 and a complete map by end of Permit.	120	160
S5.B.3.a.ii	4A	City with County support	Conduct field surveys to verify outfalls, etc.	60	60
S5.B.3.a.iii	4A	County	Provide maps and mapping info to Ecology and other entities	20	20
S5.B.3.c	N/A	City	Detect and address non-stormwater discharges (City may request County)	Varies	Varies
S5.B.3.d.ii	4D	County	List and publicize spill reporting hotline & keep records	20	20

Permit Section	HDR BMP	Lead Agency	Summary of Regulatory Requirement	Hrs 2010	Hrs 2011
S5.B.3.e		County	Adopt/Implement procedures for program evaluation and assessment of spills, illicit discharges, etc.	80	40
S5.B.3.f		County	Provide adequate training to staff responsible for illicit discharge program	60	60
S5.B.3.g		County	Provide training to all municipal field staff which may observe illicit discharges	40	20
			Construction Site Stormwater Control Program	120	80
S5.B.4.b.	5A	County	Develop procedures for construction site plan review.	40	0
S5.B.4.b.	5A	City	Implement procedures for construction site plan review. (City may request County service)	Varies	Varies
S5.B.4.a.ii	5A	City, with County support	Require construction operators to adhere to construction stormwater technical requirements in accordance with the Permit.	Varies	Varies
S5.B.4.d.	5D	County	Provide training information to construction site operators regarding erosion and sediment controls	60	60
S5.B.4.e	5E	County	Adopt/Implement procedures for receipt and consideration of information submitted by the public	20	20
			Post Construction Stormwater Management for New and Re-Development	320	200
S5.B.5.b.	5A	County	Develop procedures for post-construction site plan review.	80	0
S5.B.5.b.	5A	City, with County support	Implement procedures for post-construction site plan review. (City may request County service)	Varies	Varies
S5.B.5.a.ii	5A	City, with County support	Require developers to adhere to post-construction stormwater technical requirements in accordance with the Permit. (City may request County service)	Varies	Varies
S5.B.5.d.	6D	County	Provide adequate training for all staff in permitting, planning, review, inspection and enforcement	80	40
S5.B.5.e	6E	County	Provide information to design professionals about training available on permit compliance	60	60

Permit Section	HDR BMP	Lead Agency	Summary of Regulatory Requirement	Hrs 2010	Hrs 2011
S5.B.5.f	6H	City, with County support	Keep records of all projects disturbing at least one acre, or less if part of larger development	40	40
S5.B.5.f.i	6H	County with City support	Keep records for 5 years or until construction is completed	20	20
S5.B.5.f.ii	6H	County	Keep training records - dates, course descriptions, and names and positions of staff in attendance	20	20
S5.B.5.f.iii	6H	County	Keep copies of information that is provided to design professionals	20	20
			Pollution Prevention and Good Housekeeping	180	260
		Cities with County support	Implement a schedule of O&M activities (an O&M Plan) for the 10 listed items on Section S5.B.6.A.i (pages 23 through 25 of Permit)	20	20
S5.B.6.a.ii	7A	City with County support	Minimum of 95% of stormwater facilities shall be inspected twice - Permit Year 3 and Permit Year 5	80	160
S5.B.6.a.ii		City with County support	Conduct spot checks of MS4 after >10 year events	40	40
S5.B.6.b.	7B	Both	Provide training to all employees who may have primary construction, O&M functions that may impact WQ	40	40
			Monitoring and Program Evaluation	40	70
S8.A	2-7K	County	Report sampling pursuant to TMDL or illicit discharge investigations	20	40
S8.B		County	Assessment of Effectiveness of BMP	20	30
			Reporting and Recordkeeping	80	80
S9.A	2-7K	County	NLT March 31 of each year starting in 2008, submit Annual Report	80	80
			Underground Injection Control (UIC)	0	0
No Requirement.	A2-UIC	City	UIC Register All New Public UIC		
No Requirement		City	UIC Registration of Existing Public UIC (50 or less - 2009, more than 50 - 2011)		
S5.B.6.a	A4-UIC	City	UIC Operate New Public UICs with BMPs		
S5.B.5.b	A5-UIC	City	UIC Plan Review Site Inspection - New UIC		

Permit Section	HDR BMP	Lead Agency	Summary of Regulatory Requirement	Hrs 2010	Hrs 2011
S5.B.6.a	B1-UIC	City	UIC Prepare SWPPP (or SP3) for Municipal Site UIC		
S5.B.6.a.ii	B3-UIC	City	UIC Public UIC Recordkeeping		
S5.B.3.a	B4-UIC	City	Field Mapping of UIC		
			Regional Tasks	700	780
No Requirement.		County	Coordinate RSPG Meetings	120	120
No Requirement.		County	Monthly progress reports	60	60
No Requirement.		County	Monthly billing - Annual Accounting	120	120
No Requirement.		County	Attend grant opportunity meetings; recommend and complete grant applications	180	180
No Requirement.		County	Coordinate with Ecology re: TMDL status	20	20
No Requirement.		County	Review, comment, participate in TMDL development	160	240
No Requirement.		County	Coordinate/present stormwater issues to City/County elected officials	40	40

ORIGINA
1042

INTERGOVERNMENTAL LOCAL AGREEMENT EXTENSION
FOR STORMWATER PERMIT COMPLIANCE ACTIVITIES
BETWEEN
YAKIMA COUNTY
AND
THE CITIES OF
YAKIMA, UNION GAP AND SUNNYSIDE
March, 2011

THIS AGREEMENT is made and entered into between Yakima County, a municipal corporation of the State of Washington, hereinafter referred to as "County", and the Cities of Yakima, Union Gap and Sunnyside, all being municipal corporations, hereinafter referred to as "Yakima", "Union Gap" and "Sunnyside" respectively, or "Cities" when it includes all, or "City" when it is either Yakima, Union Gap or Sunnyside; and,

WHEREAS, Yakima County and the Cities of Yakima, Union Gap and Sunnyside are required to comply with the State of Washington's Eastern Washington Phase II Municipal Stormwater General Permit, hereinafter referred to as "Permit"; and,

WHEREAS, the County and Cities formed the Regional Stormwater Policy Group to ascertain the most cost beneficial course of action for the Parties in order to provide the best value to their citizens concerning NPDES II stormwater plan development for respective Municipal Separate Storm Sewer Systems; and,

WHEREAS, the County and Cities acknowledge the financial and consistency benefits of a regional plan and agree to continue as primary and co-permittees to meet the Permit requirements of regulated small MS4s, as allowed under the Permit; and,

WHEREAS, the County and Cities have agreed that the County would administer and manage a Permit as the primary permittee with Cities as co-permittees for the respective Municipal Separate Storm Sewer Systems; and,

WHEREAS, the County and Cities under RCW Chapter 39.34, have the legal authority to enter into interlocal agreements for the sewerage and stormwater management programs within its boundaries consistent with relevant laws; and,

WHEREAS, the County and Cities have authority to operate and maintain storm and surface water management systems and many other services as provided for under their relevant laws; and,

WHEREAS, the County and Cities have enjoyed a strong and effective partnership under an existing interlocal agreement for permit years four and five effective November 10, 2009; and,

WHEREAS, the existing interlocal agreement specifies timelines for a future interlocal agreement to share permit compliance tasks in a future permit to be issued by Washington State Department of Ecology, and,

WHEREAS, the Washington State Department of Ecology is approximately six months behind schedule developing the next permit that will specify compliance tasks to be shared by the County and Cities; and,

WHEREAS, the County and the Cities would like to continue the regional stormwater approach for public benefit; and,

NOW, THEREFORE, in consideration of the covenants and agreements to be kept and performed by the parties hereto, it is agreed as follows:

Section 1. Modification of previous ILA

The ILA titled "*Intergovernmental Local Agreement For Stormwater Permit Compliance Activities Between Yakima County And The Cities Of Yakima, Union Gap And Sunnyside, September, 2009*" (2009 ILA) is modified as follows:

Section 12. Duration

This Agreement is for Years four (4) and five (5) of the Permit effective February 16, 2007 (current Permit) and will be reviewed by all Parties upon receipt of a Public Review and Comment Draft of the Municipal Stormwater General Permit issued by Ecology for discharges on or after February 16, 2012 (next Permit) for consideration of continuing the Agreement beyond the current permit cycle, and for potential amendment of responsibilities.

A decision and written commitment to amend and/or extend the Agreement for the next Permit is required from all Parties within 60 days of receipt of a Public Review and Comment Draft of the next Permit or the Agreement terminates upon issuance of the next Permit.

Section 2. Retention of previous ILA sections

A. All other sections of the 2009 ILA remain valid and binding.

Section 3. Effective Date / Counterparts

This Agreement may be signed in counterparts, with each Party hereto receiving copies of all participating Party's fully executed signature pages. This Agreement shall become effective when executed by all Parties hereto.

IN WITNESS WHEREOF, this instrument has been executed in duplicate by authority of lawful actions by the Councils and Board of County Commissioners.

CITY OF YAKIMA

R.A. Zais, Jr., City Manager

Date:

Attest:

City Clerk

CITY OF UNION GAP

Jim Lemon, Mayor

Date 06-08-11

Attest: Kathryn Thompson

City Clerk

CITY OF SUNNYSIDE

Mark J. Gervasi, City Manager

Date 4/12/2011

Attest: Deborah A. Estrada

City Clerk

BOARD OF YAKIMA COUNTY COMMISSIONERS

Kevin J. Bouchey, Chairman

Rand Elliott, Commissioner

Michael D. Leita, Commissioner

Constituting the Board of County Commissioners for Yakima County, Washington

Date: 6/21/11

Attest: Tiera Girard

Clerk of the Board

Mandy Burkett
Deputy Clerk of the Board

BOCC 346-2011
June 21,2011

Approved as to Form:

Deputy Prosecuting Attorney

Approved by **RES 2011-21**
April 11, 2011

WASHINGTON STATE BOUNDARY REVIEW BOARD FOR YAKIMA COUNTY

128 North Second Street
Fourth Floor Courthouse
Yakima, Washington 98901

(509) 574-2300 • FAX (509) 574-2301

Public Services (LM)

AUG 31 2011

Vern ___ Jay ___ Don ___ Steve ___
Dave ___ Lisa ___ Carmen ___

Date: August 31, 2011

Kelly Rae - Surface Water

TO: John Puccinelli, Glenn Rice, Jim Sewell, Jo-Ellen Thomas, City of Selah – Dennis Davison, BOCC, Planning- Jeff Spencer, Planning – Phil Hoge, Public Services- Gary Ekstedt, Public Services – Vern Redifer, Elections, Treasurer, Assessor, Surface Water – Kelly Rae, Sheriff's Office, Terry Austin, GIS, COG, Fire Dist. #2, School Dist. #119, Selah Police Department, Health Dist., Department of Ecology, Library, Danny & Patricia Bowers, Paul & Connie James, Merle & Dorothy Smith.

FROM: C.J. Catt
Chief Clerk - Boundary Review Board

SUBJ: **File No.: BRB 2011-005, City of Selah / James-Smith Annexation**

Enclosed is the Notice of Intention packet which proposes the annexation of approximately 9.58 acres with an assessed valuation of $632,400.00 into the City of Selah. The annexation is known as the "James-Smith Annexation".

The 45-day time period for this proposed annexation expires October 17, 2011. Please keep this proposed annexation packet until that time.

If you have any questions, please let me know.

Encl.

WASHINGTON STATE BOUNDARY REVIEW BOARD FOR YAKIMA COUNTY

NOTICE OF INTENTION

for office use only:
BRB FILE # 2011-005

RECEIVED
AUG 31 2011
YAKIMA COUNTY
BOUNDARY REVIEW BOARD

Name of City, Town or Special Purpose District: City of Selah

Action Sought:
- [XXX] Annexation
- [ ] Formation of a Special Purpose District
- [ ] Incorporation
- [ ] Other Boundary Change
- [ ] Merger/Consolidation of Special Purpose District
- [ ] Dissolution of Special Purpose District
- [ ] Water or Sewer Extension _____ Size of Water Line _____ Sewer Line

This proposal shall be known as: JAMES-SMITH ANNEXATION

Driving directions to location of proposed action: Enter Selah from the north or south on SR 823 and proceed to East Goodlander Road. Turn onto East Goodlander Road (proceeding west) and continue on East Goodlander to Lancaster Road (the eastern edge of the annexation) continuing west to Selah Loop Road (the western edge of the annexation). The annexation lies on the north (right) side of East Goodlander and extends one parcel deep.

1. Briefly describe proposal: Annex four (4) parcels containing 9.58 acres and three (3) residences.

Method used to initiate the proposed action: [XXX] Petition [ ] Election [ ] Resolution

2. State statute under which action is sought: RCW 35A.14.120

FACTORS THE BOARD MUST CONSIDER

POPULATION AND LAND USE:

Provide the following information:

	POPULATION OF PROPOSED		POPULATION OF EXISTING ENTITY	
	EXISTING	10-YEAR PROJECTION	EXISTING	10-YEAR PROJECTION
People	4	15-30	7,180	(2015) 8,500
Residences	3	8-15	2,780	(2015) 2,900
Businesses	0	0	0	0

What source is the basis for this projection information? OFM, US Bureau of Census

Acres within the proposed area: Approximately 9.58 Acres within existing entity: Approximately 2,896.78±

1. Assessed valuation of proposed area $ 632,400 of existing entity $ 530,298,526 (2010)

Existing land use of the proposed area: Three residences, agricultural out-buildings and pasture

2. Existing land use of the area surrounding the proposal:

North: Single family residences on rural sized lots, a church and pasture land located in Yakima County.

South: Selah High School and athletic fields

East: Urban density residential development located in Yakima County.

West: Urban density residential development located in Yakima County.

Are all surrounding & interior roads included in the annexation? [ ] Yes [XXX] No

If no, why not? Selah Loop Road, west of the proposed annexation, serves predominately unincorporated areas to the North (Wenas Valley to Wenas Dam). Lancaster Road also serves predominately unincorporated areas to the North. Selah Loop and Lancaster Road are proposed to remain in the unincorporated area until further westerly or easterly annexation along East Goodlander Road.

Is there new residential, commercial, or industrial development that is associated with this proposal? No

If yes, describe any projects being considered or proposed: NA

If the proposal is approved, will there be land use changes within the next 18 months?

Land Use: No

- Zoning: Will remain zoned Two-Family Residential
- Comprehensive Plan: Will remain designated Moderate Density Residential

Has the proposed area been the subject of land use action by Yakima County? Yes, Previous Short Plats

a. Yakima County Comprehensive Plan designation for the proposed area: Moderate Density Residential

For surrounding areas: Low Density Residential

a. Yakima County zoning for the proposed area: Two Family residential

b. For surrounding areas: One Family Residential

Is this proposal consistent with the coordinated water system plan, if any? [XXX] YES [ ] NO

Does your jurisdiction have an adopted comprehensive plan? Yes Date Adopted: October 1997, Updated January 2006

Describe how this proposal is consistent with the adopted comprehensive plan: The 2005 City of Selah Comprehensive Plan designates the proposed annexation site as Moderate Density Residential The comprehensive plan contemplates Moderate Density Residential urbanization (up to twelve dwelling units per acre)

a. Proposed city zoning upon annexation: Two Family Residential (R-2)

Has any portion of this area been previously reviewed by the Boundary Review Board? No

Describe the following as required by RCW 36.93.170 and the effects on land use, accessibility and potential development:

Topography: Gently rolling west to east.

a. Natural Boundaries: None

Drainage Basins: Part of a larger drainage basin which drains west to east.

Is the proposed area within the Urban Growth Area for your municipality? Yes

MUNICIPAL SERVICES

What services will be provided in the proposed area?

	EXISTING PROVIDER	PROPOSED PROVIDER	TIME FRAME For New Services	HOW FINANCED
Water	Private on-site systems	City of Selah	immediate	Private Development
Sewer	Private on-site systems	City of Selah	immediate	Private Development
Fire	Selah Fire Dist. # 2	Selah Fire Dist. # 2	Current	Property Tax
Stormwater	Yakima County	City of Selah	immediate	Street Fund
Roads	City of Selah/Yakima County	City of Selah	immediate	Street Fund
Parks	City of Selah	City of Selah	current	Selah General Fund
Police	City of Selah/Yakima County	City of Selah	immediate	Selah General Fund
School	Selah School Dist # 119	Selah School Dist # 119	Current	Property Tax
Library	Yakima Regional	Yakima Regional	Current	Property Tax

Does your jurisdiction have a current Capital Facilities Plan? Yes

Does it consider the proposed area? Yes

Describe the effect your jurisdiction's ordinances, governmental codes, regulations and resolutions will have on existing uses in the proposed area: Current municipal codes will be applicable regulating land use, construction activities, and law enforcement

Describe the probable future needs for services and additional regulatory controls in the area? Water, sewer and streets extensions

Describe the probable effect of the proposal on the cost and adequacy of services and regulatory controls:

In the proposed area? None, development, if any, will construct infrastructure improvements at time of development.

a. In the adjacent area? None

Estimate the following to be incurred under the proposal:

Proponent Expenditures to be incurred: $ 0

Proponent Revenues to be gained: $ 1,745.42

a. County Revenue Lost: $ 7,630.41

b. County Expenditure Reduction: not estimated

c. Fire District Revenue Lost: $ 00

d. Fire District Expenditure Reduction: $ 00

e. Financial Impact to Special Districts (library, parks, hospital): $ NONE

What is the future impact of your proposal on the school district? None until further residential development occurs

ENVIRONMENTAL INFORMATION

Is there an existing environmental review pertinent or related to this proposal? [ ] Yes [X] No

If No, answer questions 2. Through 5.

Expected impact of any proposed development to adjacent roads and highways: None

Expected impact of any proposed development on air quality: None

Does the area under consideration contain "critical areas"? No (floodplain, wetland, steep slope, wildlife habitat area, etc.):

Please describe any potential adverse impacts that could occur upon development: If additional development there would be additional vehicle traffic, dust during construction.

Please describe any potential adverse impacts that could occur upon development: None

OBJECTIVES OF THE BOUNDARY REVIEW BOARD

Describe fully which objectives of RCW 36.93.180 this proposal meets and which objectives this proposal does not meet. Please give your reasons for each of the objectives chosen:

1. Preservation of natural neighborhoods and communities: The area is logically identified with the City of Selah and contained within the City of Selah Urban Growth Area Boundary.

2. Use of physical boundaries, including but not limited to bodies of water, highways, and land contours: Selah Loop and Lancaster Roads

   a. Creation and preservation of logical service areas: The proposed annexation abuts the existing municipal boundary on 40% of it's boundary and is within the City of Selah Urban Growth Area Boundary.

   b. Prevention of abnormally irregular boundaries: Not Applicable

3. Discouragement of multiple incorporations of small cities and encouragement of incorporation of cities in excess of ten thousand (10,000) population in heavily populated urban areas: Not Applicable

4 Dissolution of inactive special purpose districts: No dissolution of any special district

5. Adjustment of impractical boundaries: Not Applicable

6. Incorporation as cities or towns or annexation to cities and towns of unincorporated areas which are urban in character: Not Applicable

7. Protection of agricultural and rural lands which are designated for long term productive agricultural and resource use by a comprehensive plan adopted by the county legislative authority: Not Applicable

EXHIBITS

See attached Notice of Intention Filing Instructions for explanation of Exhibits A, B, C, D, E, and F. Applicable Exhibits must accompany the Notice of Intention document.

I certify that the above is true and accurate, and that I am an official or employee of the governmental jurisdiction seeking boundary change action or the proponent for the incorporation or formation.

Dated this 14th day of December 2010

Signature

Dennis Davison — Name of person completing this form

Community Planner — Title

Phone Number: 698-7365

FAX Number: 698-7372

Mailing Address: 113 South Second Street, Selah, WA.

Names and Addresses of other persons who should receive correspondence from the BRB in regard to this Notice:

Danny and Patricia Bowers P.O. Box 35, Selah, WA. 98942

Paul and Connie James 111 East Goodland Road, Selah, WA. 98942

Merle and Dorothy Smith P.O. Box 185, Selah, WA. 98942

FILE: G:/Users/Helenh/BRB/Misc/NoticeIn

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YAKIMA COUNTY

Public Services

128 North Second Street • Fourth Floor Courthouse • Yakima, Washington 98901
(509) 574-2300 • 1-800-572-7354 • FAX (509) 574-2301 • www.co.yakima.wa.us

VERN M. REDIFER, P.E. - Director

August 12, 2010

Dennis Davidson
Community Planner, City of Selah
113 South Second Street
Selah, Washington 98942

RE: James-Smith Annexation Legal Description

Dear Mr. Davidson:

The attached legal description has been reviewed and hereby is approved.

If you have any questions or need additional information, please don't hesitate to contact me.

Sincerely,

Kent L. McHenry, P.E.
Transportation Engineering Manager

EXHIBIT "A"

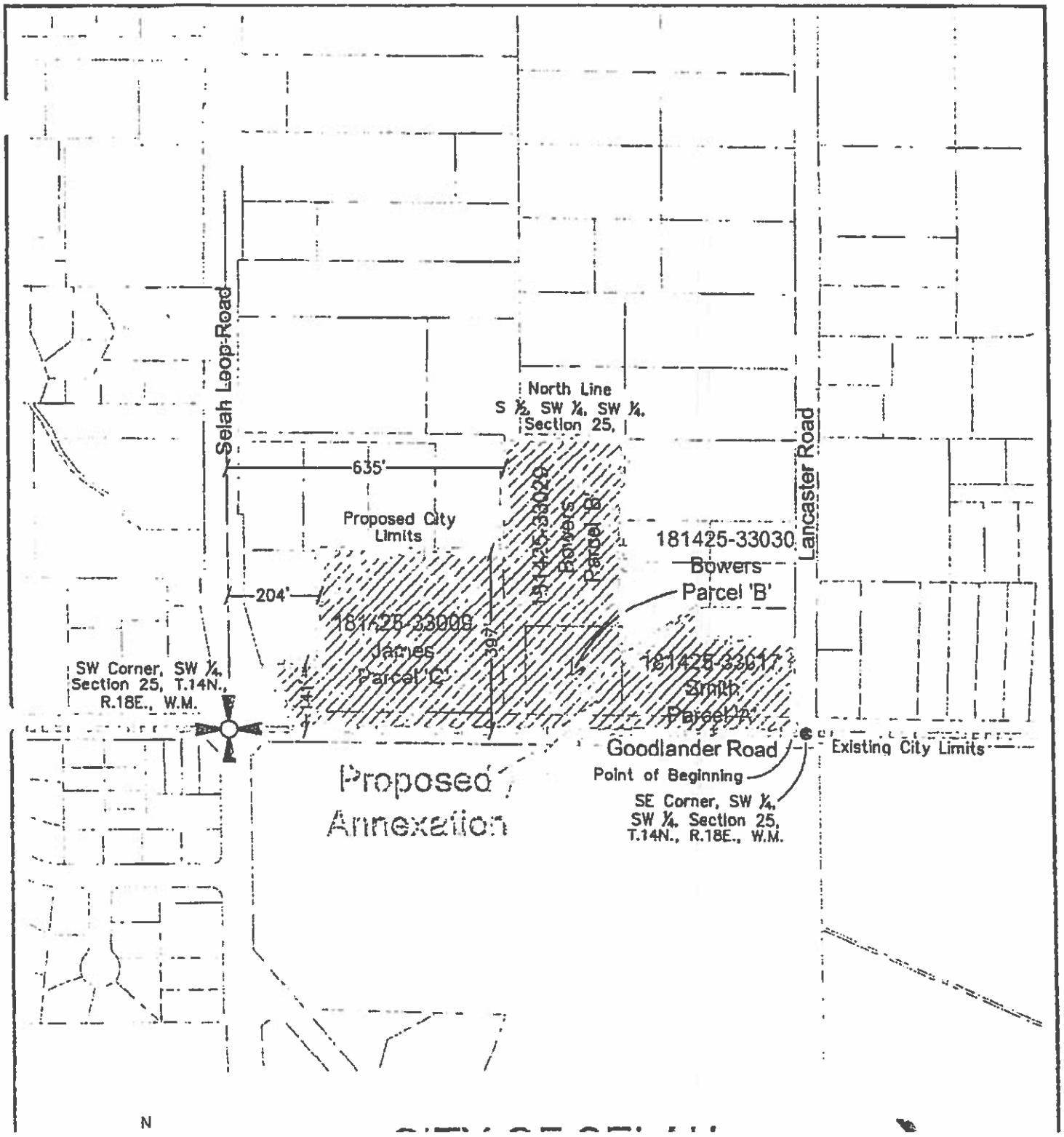
CITY OF SELAH
JAMES-SMITH ANNEXATION
LEGAL DESCRIPTION PREPARED BY HLA, INC.
AUGUST 6, 2010

THAT PORTION OF THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 14 NORTH, RANGE 18 EAST, W.M. DESCRIBED AS FOLLOWS:

BEGINNING 25 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER, SECTION 25, TOWNSHIP 14 NORTH, RANGE 18 EAST, W.M.;
THENCE NORTH 200 FEET;
THENCE WEST 218.5 FEET;
THENCE NORTH 72.5 FEET;
THENCE SOUTH 56° WEST 212.5 FEET;
THENCE NORTH TO THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 25;
THENCE WEST ALONG SAID NORTH LINE TO A POINT THAT IS 635 FEET EAST OF THE WEST LINE OF SAID SECTION;
THENCE SOUTH TO A POINT THAT IS 397 FEET NORTH OF THE SOUTH LINE OF SAID SECTION;
THENCE WEST A POINT THAT IS 204 FEET EAST OF THE WEST LINE OF SAID SECTION;
THENCE SOUTH TO A POINT THAT IS 141 FEET NORTH OF THE SOUTH LINE OF SAID SECTION;
THENCE WEST TO THE EASTERLY RIGHT OF WAY LINE OF SELAH LOOP ROAD;
THENCE SOUTHERLY ALONG SAID EASTERLY LINE AND ITS SOUTHERLY EXTENSION TO THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF SECTION 25;
THENCE EAST ALONG SAID SOUTH LINE TO THE POINT OF BEGINNING.

SITUATE IN YAKIMA COUNTY, WASHINGTON

EXHIBIT "A"


Selah Loop Road
North Line
S ½, SW ¼, SW ¼,
Section 25,
635'
Proposed City
Limits
204'
181425-33029
Bowers
Parcel 'C'
181425-33030
Bowers
Parcel 'B'
181428-33009
James
Parcel 'C'
181428-33011
Smith
Parcel 'A'
397'
SW Corner, SW ¼,
Section 25, T.14N.,
R.18E., W.M.
Lancaster Road
Existing City Limits
Goodlander Road
Point of Beginning
SE Corner, SW ¼,
SW ¼, Section 25,
T.14N., R.18E., W.M.
Proposed
Annexation
N

JAMES-SMITH

PROPOSED ANNEXATION BOUNDARY

(Selah File # 920.45.09-02)

LEGAL DESCRIPTION

The legal description of the James-Smith Annexation, prepared by the HLA, Inc. (copy attached) containing Yakima County Assessor's Taxation Parcel Numbers **181425: 33009, 33017, 33029, and 33030** is hereby approved:

LEGAL DESCRIPTION APPROVED: _____

Kent McHenry, Transportation Engineering Manager

Dated: 8-12-2010

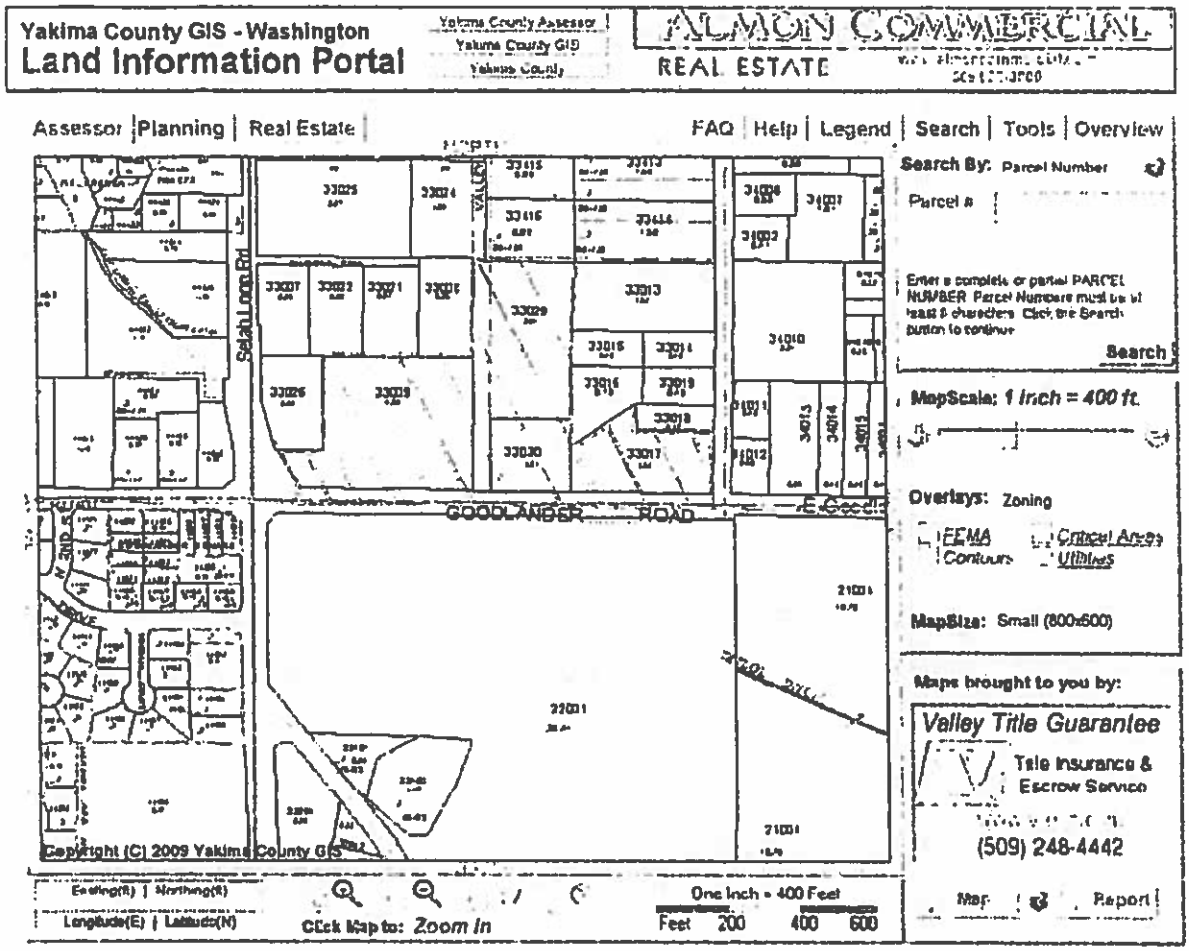


EXHIBIT "B"

THE PROPOSED ANNEXATION INCLUDES THE FOLLOWING SUBJECT PROPERTIES:

181425—33009
33017
33029
33030

Acreage of annexation is 9.58 acres plus approximately 34,500 sq. ft. (.79 acre) of public right-of-way (East Goodlander Road)

And the north half of the East Goodlander Road right-of-way lying between the west right-of-way line of Lancaster Road and the west line of Taxation Parcel 181425-33009 extend south to the centerline of East Goodlander Road (not a legal description only a general description of the physical boundaries of the proposed annexation)

EXHIBIT "C" (#1)

Boundary of Annexation---Please see Exhibit "B"

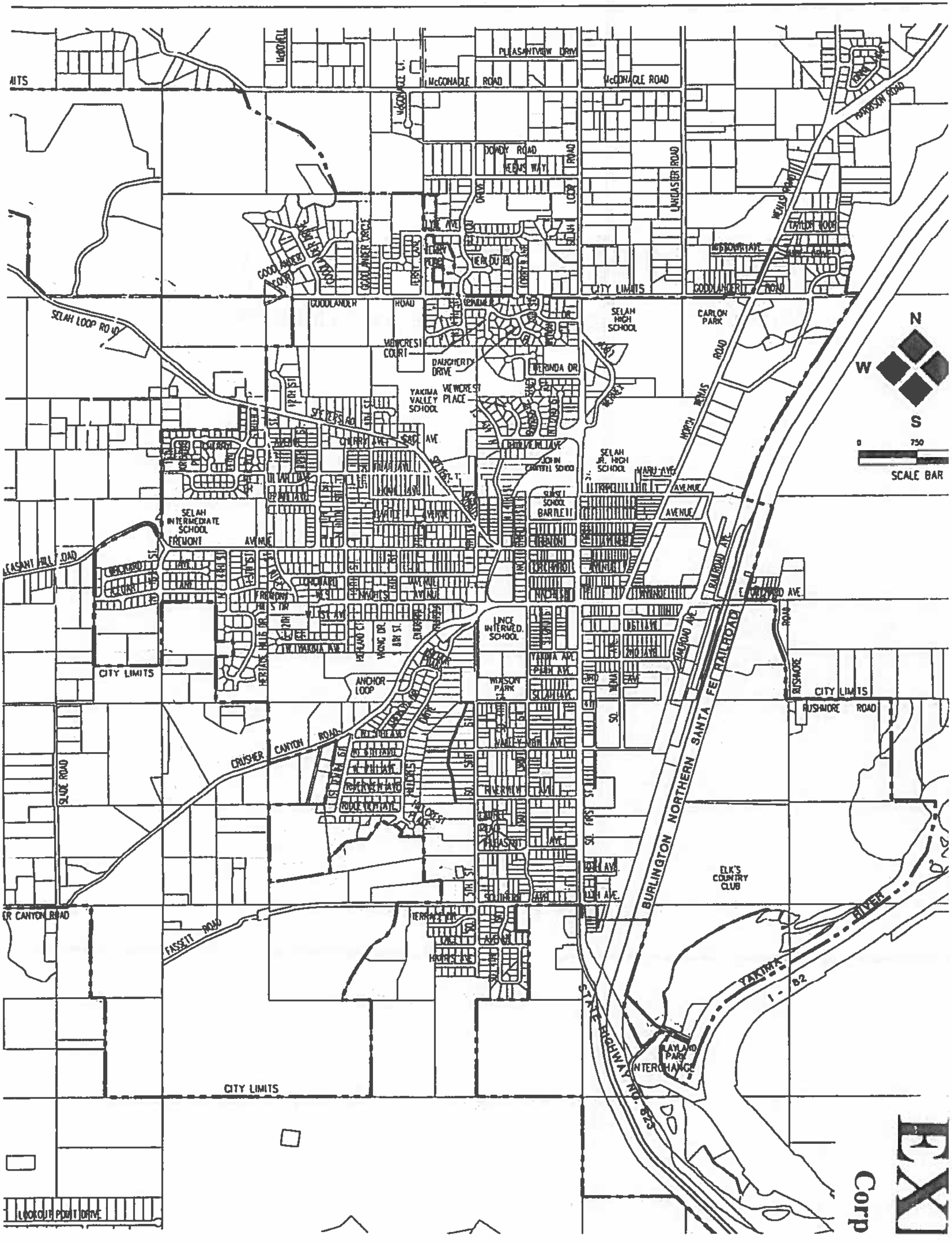

PLEASANTVIEW DRIVE
McGONAGLE ROAD
DONDY ROAD
CITY LIMITS
GOODLANDER ROAD
SELAH LOOP ROAD
SELAH HIGH SCHOOL
CARLON PARK
VIEWCREST COURT
DAUGHERTY DRIVE
YAKIMA VALLEY SCHOOL
VIEWCREST PLACE
JOHN CAMPBELL SCHOOL
SELAH JR. HIGH SCHOOL
NORTH WENAS ROAD
N
W
S
0
750
SCALE BAR
SELAH INTERMEDIATE SCHOOL
FREMONT AVENUE
BARTLETT AVENUE
ORCHARD AVENUE
LINCE INTERMED. SCHOOL
ANCHOR LOOP
WIXSON PARK
CITY LIMITS
RUSHMORE ROAD
CRUSHER CANYON ROAD
SLADE ROAD
BURLINGTON NORTHERN SANTA FE RAILROAD
ELK'S COUNTRY CLUB
FASSETT ROAD
YAKIMA RIVER
I - 82
STATE HIGHWAY NO. 823
INTERCHANGE
CITY LIMITS
LOOKOUT POINT DRIVE
Corp

EXHIBIT "C" (#3)

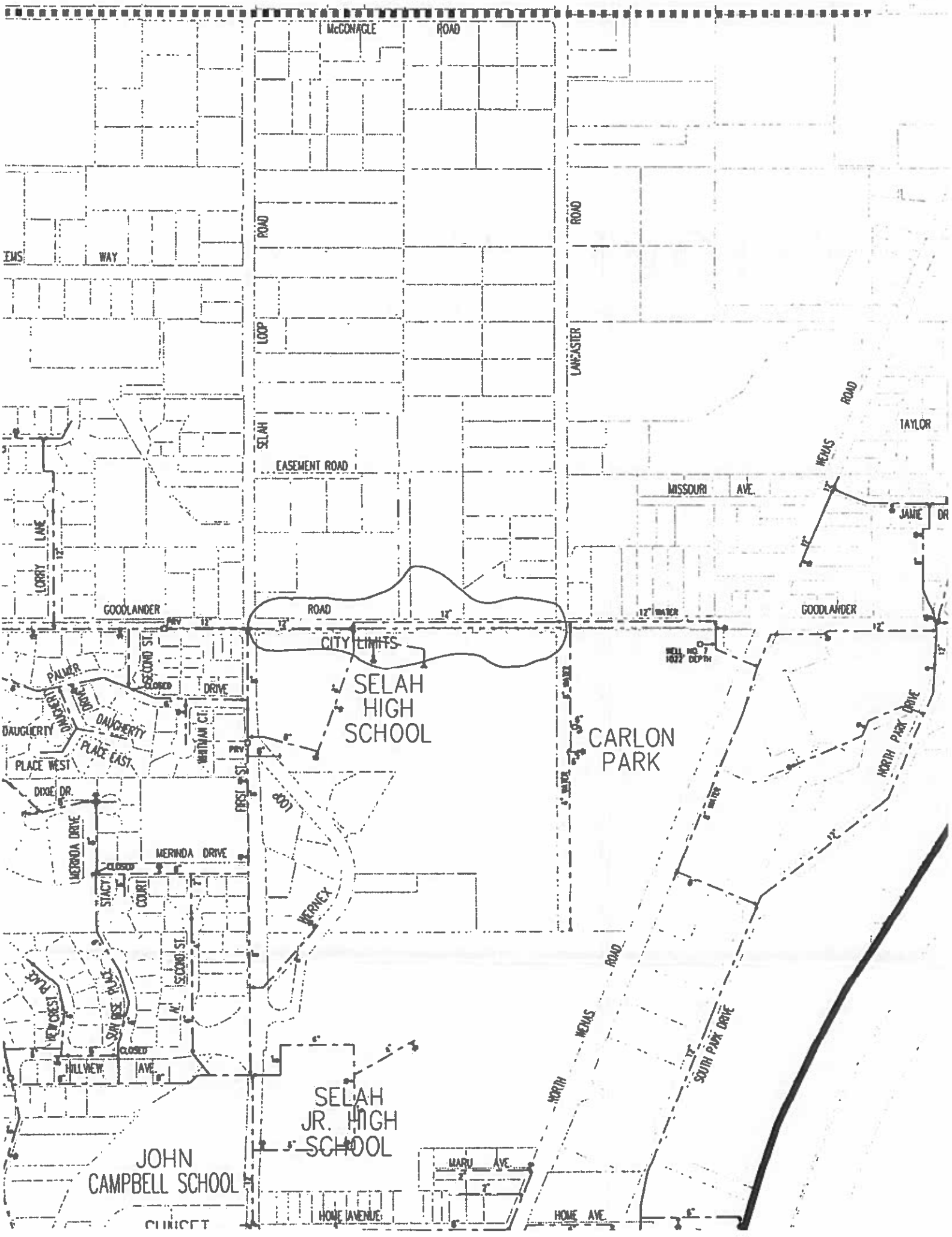
Existing Water and Sewer Service Area Boundaries---
Boundary is the Municipal Boundary

EXHIBIT "C"(#4)

Major Physical Features—Please see Exhibit "B" and Exhibit "C" (2)

EXHIBIT "C" (#5)

Boundaries of Cities / Special Service Districts---NONE


McCONAGLE ROAD
ROAD
LOOP
LANCASTER
ROAD
SELAH
EASEMENT ROAD
MISSOURI AVE.
MERAS
ROAD
TAYLOR
JAMIE DR
LORRY LANE
GOODLANDER
ROAD
CITY LIMITS
GOODLANDER
SECOND ST.
PALMER
DRIVE
DAUGHERTY
PLACE EAST
PLACE WEST
WHITMAN CT.
FIRST ST.
LOOP
DIXIE DR.
MERINDA DRIVE
MERINDA DRIVE
CLOSED
STACY COURT
MERNEX
SECOND ST.
SUN CREST PLACE
SUN CREST PLACE
CLOSED
HILLVIEW AVE.
SELAH HIGH SCHOOL
CARLON PARK
NORTH PARK DRIVE
MERAS ROAD
NORTH
SOUTH PARK DRIVE
SELAH JR. HIGH SCHOOL
JOHN CAMPBELL SCHOOL
SUNSET
MARU AVE.
HOME AVENUE
HOME AVE.

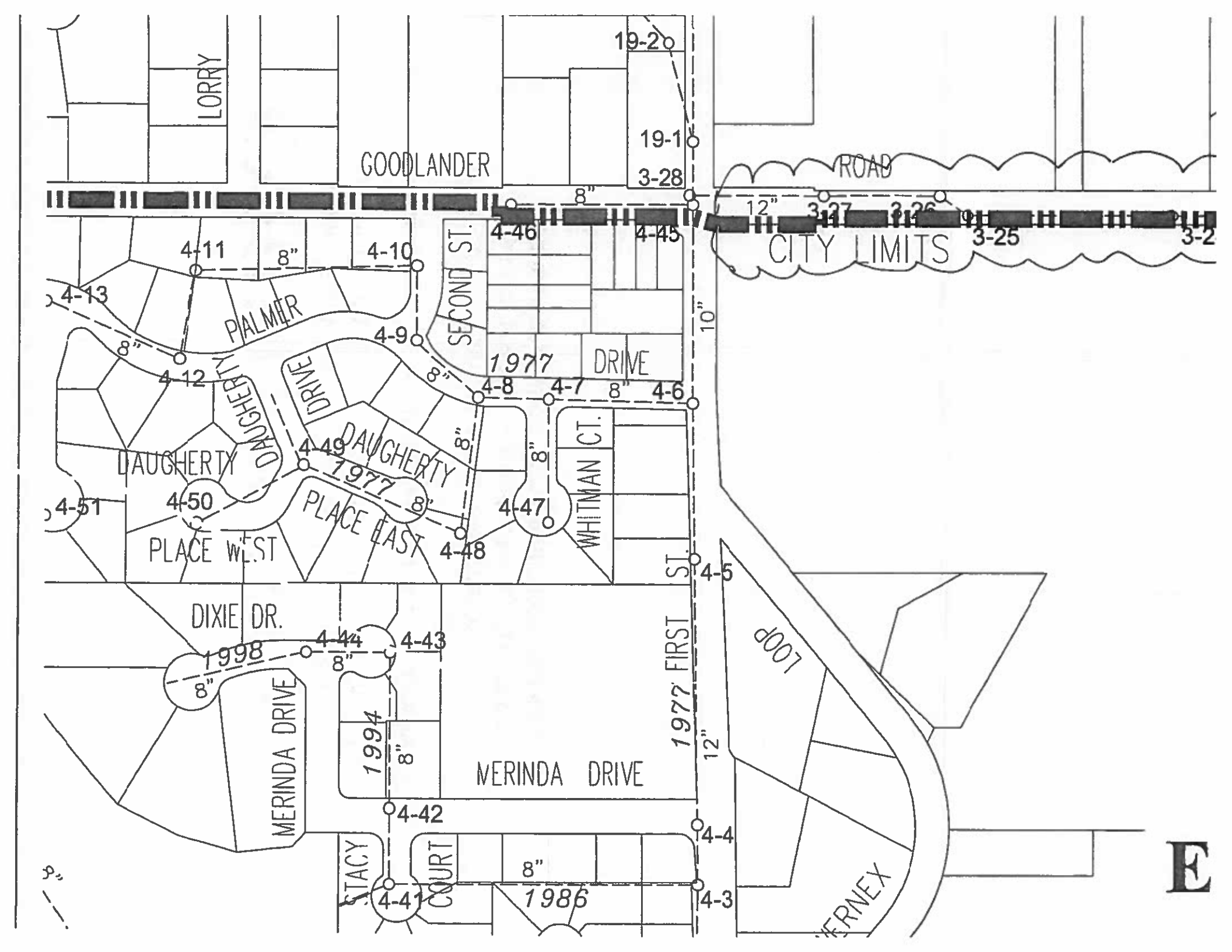

LORRY
GOODLANDER
ROAD
CITY LIMITS
19-2
19-1
3-28
3-27
3-26
3-25
3-2
8"
12"
10"
4-46
4-45
4-11
4-10
4-13
PALMER
4-9
4-12
SECOND ST.
1977
DRIVE
4-8
4-7
4-6
DAUGHERTY
DRIVE
4-49
1977
4-50
4-51
PLACE WEST
PLACE EAST
4-48
4-47
WHITMAN CT.
4-5
DIXIE DR.
1998
4-44
4-43
MERINDA DRIVE
1994
1977 FIRST ST.
LOOP
4-42
4-4
STACY
COURT
4-41
1986
4-3
E

EXHIBIT "C" (#7)

Yakima County Zoning: Two-Family Residential
Yakima County Comprehensive Plan Designation: Urban

Urban Growth Area Boundary: Please See Exhibit "C-2"

Proposed City Plan and Zoning Designations:

Plan Designation: Moderate Density Residential
Zoning Designation: Two-Family Residential (R-2)

EXHIBIT "C" (#8)

Floodway or Floodplains: Not Applicable

CITY OF SELAH
CERTIFICATION AFFIDAVIT

STATE OF WASHINGTON
COUNTY OF YAKIMA

I, Dennis Davison, being first duly sworn on oath dispose and says:

I am the Community Planner for the City of Selah, 113 South Second Street, Selah, Washington; and I hereby certify that the attached photocopies of "Petitions for Annexation" submitted by Danny and Patricia Bowers, Merle and Dorothy Smith and Paul and Connie James are true and correct copies of the original 'Petitions for Annexation'.

Dennis Davison, Community Planner

STATE OF WASHINGTON
COUNTY OF YAKIMA

On this day personally appeared before me DENNIS DAVISON to me known to be the individual referenced herein and who caused to be copied the said 'Petitions for Annexation.

Given under my hand and official seal this 18th day of August, 2011.

Diana Turner

Notary Public in and for the State of Washington, residing at Yakima, WA. My term expires the 1st day of June, 2014.

DIANA L TURNER NOTARY PUBLIC STATE OF WASHINGTON My Comm. Expires June 01, 2014

PETITION FOR ANNEXATION
OF
UNINCORPORATED PROPERTY

IN THE MATTER OF THE PETITION)
FOR THE ANNEXATION OF THE) PETITION FOR ANNEXATION
BELOW DESCRIBED PROPERTY)

COME NOW, the following named persons:

Danny O. Bowers and Patricia G. Bowers, husband and wife

and petitions the City Council of the City of Selah that the following described property situated in Yakima County, WA. to wit:

Portion of the South ½ of the Southwest ¼ of the Southwest ¼ lying easterly of vacated Yakima Valley Transportation Co. right of way, EXCEPT the East 420 feet, and EXCEPT the South 225, also beginning at the Southeast corner of the South ½ of the Northeast ¼ of the Southwest ¼ of the Southwest ¼, thence North 09' 02" West 3.8 feet, thence South 89° 30' 30" West 260 feet, thence North 89° 22' 30" West 167.6 feet, thence North 89° 48' 25" West 237 feet to the West line of said subdivision, thence South 09' 41" East 1.33 feet, thence South 89° 45' 09" East 664.59 feet to the point of beginning EXCEPT the East 420 feet and EXCEPT the vacated Yakima Valley Transportation Co. right of way, ALSO beginning 20 feet North and 635 feet East of the Southwest Quarter, thence North 666 feet , thence East 50 feet, thence South 666 feet, thence West 50 feet to the point of beginning in Section 25, Township 14 North, Range 18 East, W.M. (Tax Parcel 181425-33029)

and,

The South 225 feet of the following described parcel: Portion of the South ½ of the Southwest ¼ of the Southwest ¼ lying east of vacated Yakima Valley Transportation Co. right of way, EXCEPT the East 420 feet in Section 25, Township 14 North, Range 18 East, W.M.. (Tax Parcel 181425-33030)

be annexed to the City of Selah, and in support of said Petition, the undersigned persons being the owners of 100 percent (100%) in value according to the assessed valuation of said property for which annexation is petitioned; that said property is not now within the limits of any incorporated city; that said property is contiguous to the City of Selah; that a drawing of the boundaries of said property which is sought to be annexed is attached hereto as Exhibit A "James-Smith Annexation Boundary"; that the City Council of the City of Selah has determined that it will accept the proposed annexation and that it will require the pro rata assumption of existing City indebtedness by the area proposed by this petition to be annexed, as referenced by the following recital from

the minutes of the November 24, 2009 meeting of the Selah City Council.

> Councilmember Larson moved to approve the Resolution Accepting the "James-Smith" Intent to Annex Petitions noting the City Council of the City of Selah has considered the petitions to annex and adopts the proposed annexation boundary identified as "Exhibit A" representing approximately 6.5 acres; and the Council accepts the petition and will impose the following conditions upon the annexation:
>
> (1) the geographic boundary of the proposed annexation;
>
> (2) simultaneous adoption of One-Family Residential (R-1) zoning will be required or zoning consistent with the land use designation of 'moderate density residential' contained in the 2005 City of Selah Urban Growth Area Comprehensive Plan will be adopted;
>
> (3) existing municipal indebtedness is to be assumed by the territory annexed; and,
>
> (4) a "right of first refusal" for acquisition of irrigation and/or water rights will be required
>
> Councilmember Smeback seconded----Motion carried unanimous

WHEREFORE, petitioners pray that the City Council make and enter this petition for annexation, fixing a time and place for a public hearing on this petition pursuant to RCW 35A.14.130; adopt a zoning classification for the property sought to be annexed as provided for in RCW 35A.14.120; and, that due notice be given of such public hearing and that at the conclusion of said public hearing that said property be annexed to the City of Selah.

The petitioners subscribing hereto agrees that all property within the territory sought to be annexed shall be assessed and taxed at the same rate and on the same basis as other property within the City of Selah, including assessments or taxes for payment of any bonds issued or debts contracted prior to or existing at the date of annexation; and further that this petition constitutes a covenant granting the City of Selah a "right of first refusal" to secure ownership of any irrigation and/or domestic water rights appurtenant to the land.

DANNY O. BOWERS

PATRICIA G. BOWERS

STATE OF WASHINGTON)
) ss.
County of Yakima)

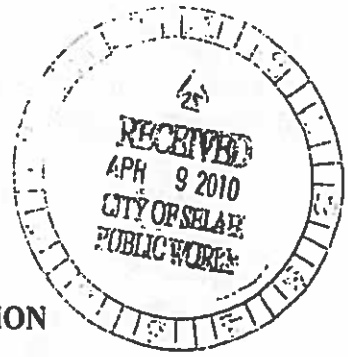
On this day personally appeared before me Danny O. Bowers and Patricia G. Bowers, husband and wife, to me known to be the individuals described in and who executed the foregoing instrument and acknowledge that they signed the same as their free and voluntary act and deed.

GIVEN under my hand and official seal this 19th day of May, 2010.

Notary Public in and for the State of Washington, residing at

My term expires the 1st day of June, 20 14.

PETITION FOR ANNEXATION OF UNINCORPORATED PROPERTY



IN THE MATTER OF THE PETITION FOR THE ANNEXATION OF THE BELOW DESCRIBED PROPERTY) **PETITION FOR ANNEXATION**

COME NOW, the following named persons:

Merle M. Smith and Dorothy J. Smith, husband and wife

and petitions the City Council of the City of Selah that the following described property situated in Yakima County, WA. to wit:

Beginning 25 feet North and 25 feet West of the Southeast corner of the Southwest Quarter of the Southwest Quarter, thence North 175 feet, thence West 218.5 feet, thence North 72.5 feet, thence South 56° West 212.5 feet, thence South 131 feet, thence East 395 feet to the point of beginning in Section 25, Township 14 North, Range 18 East, W.M..
(Tax Parcel 181425-33017)

be annexed to the City of Selah, and in support of said Petition, the undersigned persons being the owners of 100 percent (100%) in value according to the assessed valuation of said property for which annexation is petitioned; that said property is not now within the limits of any incorporated city; that said property is contiguous to the City of Selah; that a drawing of the boundaries of said property which is sought to be annexed is attached hereto as Exhibit A "James-Smith Annexation Boundary"; that the City Council of the City of Selah has determined that it will accept the proposed annexation and that it will require the pro rata assumption of existing City indebtedness by the area proposed by this petition to be annexed, as referenced by the following recital from the minutes of the November 24, 2009 meeting of the Selah City Council.

Councilmember Larson moved to approve the Resolution Accepting the "James-Smith" Intent to Annex Petitions noting the City Council of the City of Selah has considered the petitions to annex and adopts the proposed annexation boundary identified as "Exhibit A" representing approximately 6.5 acres; and the Council accepts the petition and will impose the following conditions upon the annexation:

(1) the geographic boundary of the proposed annexation;

(2) simultaneous adoption of One-Family Residential (R-1) zoning will be required or zoning consistent with the land use designation of 'moderate density residential' contained in the 2005 City of Selah Urban Growth Area Comprehensive

Plan will be adopted;
(3) existing municipal indebtedness is to be assumed by the territory annexed; and,

(4) a "right of first refusal" for acquisition of irrigation and/or water rights will be required

Councilmember Smeback seconded----Motion carried unanimous

WHEREFORE, petitioners pray that the City Council make and enter this petition for annexation, fixing a time and place for a public hearing on this petition pursuant to RCW 35A.14.130; adopt a zoning classification for the property sought to be annexed as provided for in RCW 35A.14.120; and, that due notice be given of such public hearing and that at the conclusion of said public hearing that said property be annexed to the City of Selah.

The petitioners subscribing hereto agrees that all property within the territory sought to be annexed shall be assessed and taxed at the same rate and on the same basis as other property within the City of Selah, including assessments or taxes for payment of any bonds issued or debts contracted prior to or existing at the date of annexation; and further that this petition constitutes a covenant granting the City of Selah a "right of first refusal" to secure ownership of any irrigation and/or domestic water rights appurtenant to the land.

Merle M. Smith
MERLE M. SMITH

Dorothy J. Smith
DOROTHY J. SMITH

STATE OF WASHINGTON)
) ss.
County of Yakima)

On this day personally appeared before me Merle M. Smith and Dorothy J. Smith, husband and wife, to me known to be the individuals described in and who executed the foregoing instrument and acknowledge that they signed the same as their free and voluntary act and deed.

GIVEN under my hand and official seal this 29 day of March, 2010.

WENDY J. GEORGE NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES FEBRUARY 25, 2013

Notary Public in and for the State of Washington, residing at Yakima County

My term expires the 25 day of Feb, 2013.

PETITION FOR ANNEXATION
OF
UNINCORPORATED PROPERTY

IN THE MATTER OF THE PETITION)
FOR THE ANNEXATION OF THE) PETITION FOR ANNEXATION
BELOW DESCRIBED PROPERTY)

COME NOW, the following named persons:

Paul W. James and Connie J. James, husband and wife

and petitions the City Council of the City of Selah that the following described property situated in Yakima County, WA. to wit:

The Southwest Quarter of the Southwest Quarter of the Southwest Quarter EXCEPT the North 270 feet, EXCEPT the West 204 feet of the North 256 feet of the South 397 feet, EXCEPT the East 25 feet, EXCEPT the South and West County road right of way and EXCEPT that portion lying South and Southwesterly of the following described line: Beginning at the intersection of the East line of said parcel and line located 35 feet North of the South line of the Southwest Quarter, thence West to a line located 137 feet East of the West line of said subdivision, thence North 5 feet, thence Northwesterly to a point on the North located 75 feet East of the West line of said subdivision and terminus of said line all located in Section 25, Township 14 North, Range 18 East, W.M. records of Yakima County, WA (Tax Parcel 181425-33009)

be annexed to the City of Selah, and in support of said Petition, the undersigned persons being the owners of 100 percent (100%) in value according to the assessed valuation of said property for which annexation is petitioned; that said property is not now within the limits of any incorporated city; that said property is contiguous to the City of Selah; that a drawing of the boundaries of said property which is sought to be annexed is attached hereto as Exhibit A, "James-Smith Annexation Boundary"; that the City Council of the City of Selah has determined that it will accept the proposed annexation and that it will require the pro rata assumption of existing City indebtedness by the area proposed by this petition to be annexed, as referenced by the following recital from the minutes of the November 24, 2009 meeting of the Selah City Council.

Councilmember Larson moved to approve the Resolution Accepting the "James-Smith" Intent to Annex Petitions noting the City Council of the City of Selah has considered the petitions to annex and adopts the proposed annexation boundary identified as "Exhibit A" representing approximately 6.5 acres; and the Council accepts the petition and will impose the following conditions upon the annexation:

(1) the geographic boundary of the proposed annexation;

(2) simultaneous adoption of One-Family Residential (R-1) zoning will be required or zoning consistent with the land use designation of 'moderate density residential' contained in the 2005 City of Selah Urban Growth Area Comprehensive Plan will be adopted;

(3) existing municipal indebtedness is to be assumed by the territory annexed; and,

(4) a "right of first refusal" for acquisition of irrigation and/or water rights will be required

Councilmember Smeback seconded----Motion carried unanimous

WHEREFORE, petitioners pray that the City Council make and enter this petition for annexation, fixing a time and place for a public hearing on this petition pursuant to RCW 35A.14.130; adopt a zoning classification for the property sought to be annexed as provided for in RCW 35A.14.120; and, that due notice be given of such public hearing and that at the conclusion of said public hearing that said property be annexed to the City of Selah.

The petitioners subscribing hereto agrees that all property within the territory sought to be annexed shall be assessed and taxed at the same rate and on the same basis as other property within the City of Selah, including assessments or taxes for payment of any bonds issued or debts contracted prior to or existing at the date of annexation; and further that this petition constitutes a covenant granting the City of Selah a "right of first refusal" to secure ownership of any irrigation and/or domestic water rights appurtenant to the land.

Paul W. James
PAUL W. JAMES

Connie J. James
CONNIE J. JAMES

STATE OF WASHINGTON)
) ss.
County of Yakima)

On this day personally appeared before me Paul W. James and Connie J. James, husband and wife, to me known to be the individuals described in and who executed the foregoing instrument and acknowledge that they signed the same as their free and voluntary act and deed.

GIVEN under my hand and official seal this 15th day of June, 2010.

Kyle Mendoza
Notary Public in and for the State of Washington, residing at

KYLE NICOLE MENDOZA NOTARY PUBLIC STATE OF WASHINGTON 02/08/2014

My term expires the 8th day of February, 2014.

CITY OF SELAH

Planning Department
113 South Second Street
Selah, Washington 98942

Phone 509-698-7365
Fax 509-698-7372

TRANSMITTAL MEMORANDUM

DATE: June 24, 2010
TO: Dave Cook, Yakima County Assessor
FROM: Dennis Davison, Community Planner
SUBJ: Certification of Petitions for "James-Smith Annexation"
FILE: Selah City File: 920.45.09-02

Attached are photocopies of signed petitions for the "James-Smith Annexation". As required by RCW 35A.14.420-450 the signed petition(s) must be certified as valid and as representing the owners of a majority of the territory for which annexation is petitioned.

Please review the attached petitions and if you concur that the signed petitions represent the owners of a majority of the territory for which annexation is petitioned, identified in Exhibit A, then please sign this certification and return the entire packet to me.

☒ Signed petitions represent **NOT LESS THAN** a majority of the owners of the property petitioned for annexation.

☐ Signed petitions represent **LESS THAN** a majority of the owners of the property petitioned for annexation.

Dave Cook, Yakima County Assessor

JOHNSON-SNODGRASS ANNEXATION
920.62.08-01

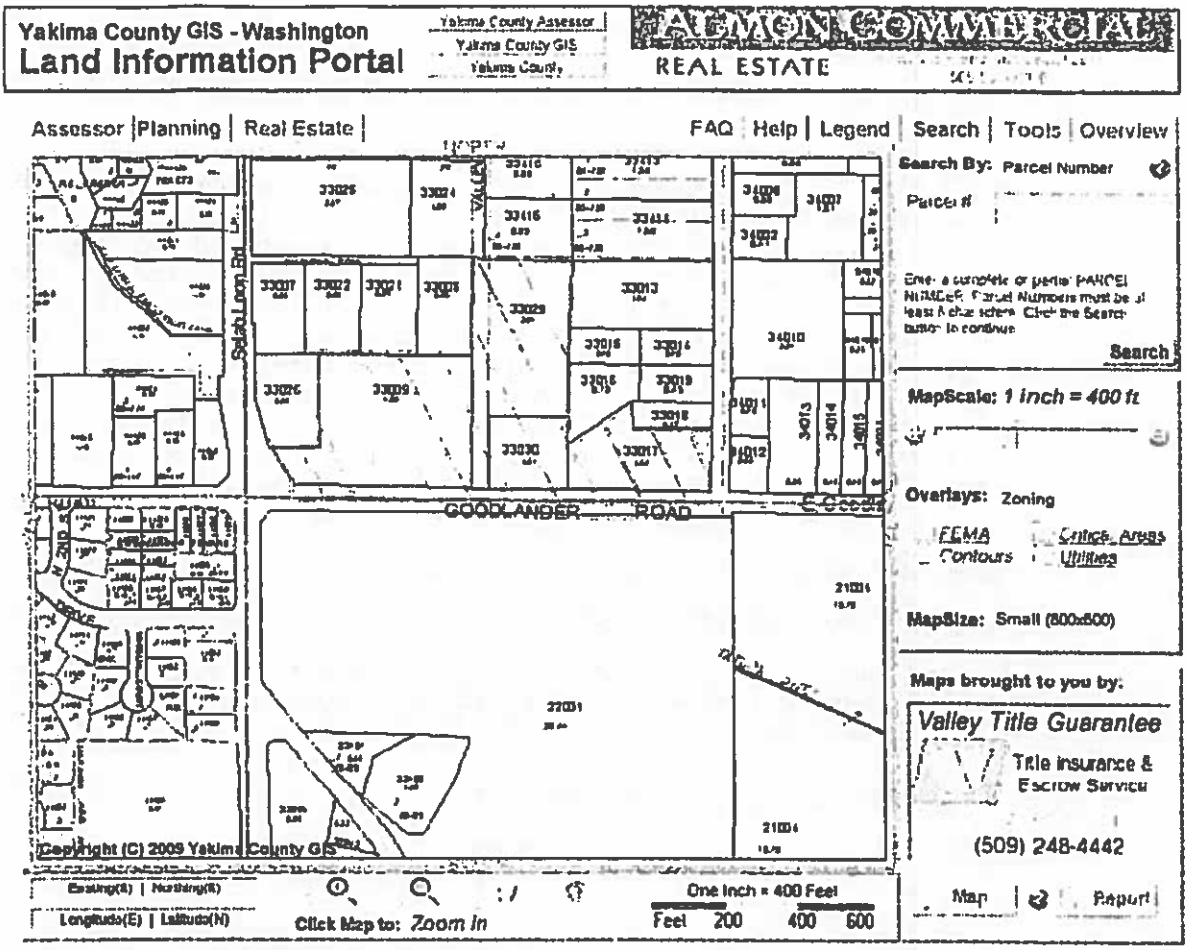


EXHIBIT "A"

THE PROPOSED ANNEXATION INCLUDES THE FOLLOWING SUBJECT PROPERTIES:

181425—33009
33017
33029
33030

And the north half of the East Goodlander Road right-of-way lying between the west right-of-way line of Lancaster Road and the west line of Taxation Parcel 181425-33009 extend south to the centerline of East Goodlander Road (not a legal description only a general description of the physical boundaries of the proposed annexation)

CITY OF SELAH NOTICE OF PUBLIC HEARING

PROPOSED JAMES-SMITH ANNEXATION

Notice is hereby given that the Selah City Council, Selah, Washington will conduct a public hearing on Tuesday, October 26th, 2010, commencing at 4:00 p.m., or as soon thereafter as practical, in the Council Chambers, Selah City Hall, 115 W. Naches, Selah, WA., on the proposed "James-Smith Annexation".

The proposed annexation is approximately 9.58 acres in area and is located immediately North of East Goodlander Road between Selah Loop and Lancaster Roads

Additional information and annexation maps are available for public inspection during regular business hours at the City of Selah Planning Department, 113 So. Second St., Selah, WA.

All persons wishing to offer comments for or against the proposed annexation are encouraged to attend. All written comments received prior to the day of the public hearing will be considered in the City Council deliberations.

If you have annexation or procedural questions please feel free to contact Dennis Davison, Community Planner in person at 113 S. 2nd St., Selah, by phone at (509) 698-7365, by fax at (509) 698-7372 or by e-mail at ddavisonfairpoint.net

Dated this 11th day of October 2010.

/c/
Dennis Davison, Community Planner

(09555386) October 13, 2010

AFFIDAVIT OF PUBLICATION

STATE OF WASHINGTON,)
)
COUNTY OF YAKIMA)

DEBBIE MARTIN, being first duly sworn on oath deposes and says that she/he is the ACCOUNTANT of Yakima Herald-Republit, Inc., a daily newspaper. Said newspaper is a legal newspaper approved by the Superior Court of the State of Washington for Yakima County under an order made and entered on the 13th day of February, 1968, and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continually as a daily newpaper in Yakima, Yakima County, Washington. Said newspaper is now and has been during all of said time printed in an office maintained at the aforesaid place of publication of said newspaper.

That the annexed is a true copy of a:

CITY OF SELAH NOTICE OF PUBLIC,

it was published in regular issues (and not in supplement form) of said newspaper once each DAY and for a period of 1 DAY(S) to-wit; on

the 13th day of OCTOBER, 2010

and the such newspaper was regularly distributed to its subscribers during all of said period. That the full amount of the fee charged for the foregoing publication is the sum of $85.41

Debbie Martin

ACCOUNTANT

DIANE SIMS NOTARY PUBLIC STATE OF WASHINGTON My Comm. Expires March 10, 2013

SUBSCRIBED AND SWORN to before me this 20th day of October, 2010

Diane Sims

NOTARY PUBLIC in and for the State of Washington, residing at Yakima.

Member Overby – yes; Council Member Derrey– no, but she will proofread; Council Member Tierney – yes; Council Member Jorgensen – yes; Council Member Smeback – yes. Motion carried with Councilwoman Derry voting no.

* 3. Resolution Accepting Progress Estimate Number 3 on the Speyers Road Improvement Project

* 4. Resolution Accepting Progress Estimate Number 2 on the Well Number 8 Drilling, Casing, Testing and Pump Contract

5. Resolution Authorizing Mayor To Sign the James Outside Utility Agreement

Community Planner Dennis Davison addressed the Council, stating that Items M-5 and M-6 go hand in hand. At the last meeting, there was a discussion of the James' Outside Utility Agreement pending the submittal of applications by the parties just north of Goodlander Road to initiate annexation. The second item, M-6 is a notice of intent to initiate the James-Smith Annexation. Mr. Davison stated that he has signed petitions from all three parties: the Smiths, the James and the Bowers. He respectfully requested in the disposition of M-5 that the Council authorize the Mayor to sign the Outside Utility Agreement so that the City can get it recorded. Mr. Davison stated that it would be for both water and sewer, and it would be limited to a new single family residence. He said that if the Council agrees to this, then the Council could move on to M-6.

Councilman Larson Moved To Accept the Resolution Authorizing Mayor To Sign the James Outside Utility Agreement. Councilman Overby seconded. Roll was called: Council Member Larson – yes; Council Member Overby – yes; Council Member Derrey– yes; Council Member Tierney – yes; Council Member Jorgensen – yes; Council Member Smeback – yes. Support was unanimous.

6. Resolution Accepting the "James – Smith" Intent To Annex Petitions

Community Planner Dennis Davison stated that he has a petition signed by all three parties supporting initiating the annexation. He said he doesn't know what the Boundary Review Board will do to square-up the boundaries, and he doesn't know if the Council is interested in squaring-up boundaries, but expressed concerns that if the staff sends out a notice of petition to annex, some properties under lease may refuse to sign the annexation petition, which would terminate the annexation, or at least the possibility for anything additional. He stated that tonight would the night to expand the boundaries of the annexation if the Council desires to do so.

Councilmember Smeback asked if people in the neighborhood are notified that people surrounding them are in the process of petitioning to annex to the City of Selah.

Mr. Davison said that the City will schedule a Public Hearing if the City gets enough petitions signed to represent 60% of the value. He said then the City could proceed and all of the people would be notified. However, at that time, it would be too late in the process to expand the boundaries. He said that the boundaries must be expanded tonight if it is to be done.

Mayor Jones asked Mr. Henne if the City would be asked to reimburse the County if the City were to expand the boundary to include the brand new street there with sidewalks, curbs and gutters.

Mr. Henne said that he doesn't think that the City would need to reimburse the County for that particular project since loans were not used. He stated, however, that the County said they would require the City of Selah to take in all of Goodlander Road between Selah Loop Road. and Lancaster. Discussion then ensued regarding which properties would need to be included in the annexation and how best to achieve the needed 60% of the value.

Councilmember Overby asked if the Boundary Review Board could push the issue or if they would accept the annexation with what is included now.

Mr. Henne answered that the Boundary Review Board could make the boundary straight across if they chose.

Councilmember Overby then said that he would be happy with the notion to say that the Council wants only the lots that are contiguous to the City.

Councilmember Tierney added that the properties front the road that is available for access.

Regarding annexation, Mr. Henne commented that the property with the address 33029 might not be able to obtain sewer services. He said that there won't be any problem with water, but because this property is on the other side of Goodlander and he's not sure that 33029 can flow out of Goodlander for services.

Mr. Henne said that the properties do belong to the Bowers. However, he said that the address 33030 probably can get sewer services.

Councilmember Larson asked if the issue of a lack of sewer services would be an issue in the County as well as the City.

Mr. Henne confirmed that there would be an issue in either situation. He simply said that he wanted to let the Council know that annexing to the City does not necessarily guarantee that they will automatically have sewer services.

Councilmember Larson moved to approve the Resolution Accepting the "James – Smith" Intent To Annex Petitions noting the City Council of the City of Selah has considered the petitions to annex and adopts a proposed annexation boundary identified as "Exhibit A" representing approximately 6.5 acres; and the Council accepts the petition and will impose the following conditions upon the annexation:

(1) the geographic boundary of the proposed annexation;

(2) simultaneous adoption of One-Family Residential (R-1) zoning will be required or zoning consistent with the land use designation of 'mode rate density residential' contained in the 2005 City of Selah Urban Growth Area Comprehensive Plan will be adopted;

(3) existing municipal indebtedness is to be assumed by the territory annexed; and,

(4) a "right-of-first refusal" for acquisition of irrigation and/or water rights will be required.

Councilman Smeback seconded. Roll was called: Council Member Larson – yes; Council Member Overby – yes; Council Member Derrey– yes; Council Member Tierney – yes; Council Member Jorgensen – yes; Council Member Smeback – yes. Support was unanimous.

7. Resolution Establishing December 22nd, 2009 as the Date To Conduct a Public Hearing To Consider the Vacation of a Portion of South Wenas, East 1st, and 2nd Avenue Rights-of-Way Located Between East Naches Avenue and East 5th Avenue.

Community Planner Dennis Davison stated there are two resolutions regarding the vacation of right-of-way, one establishing the intent and another setting the Public Hearing date. He pointed out a map in the packet which shows the rights-of-way to be vacated.

Councilmember Overby asked if the trapezoidal shape at the lower left corner – where Roybal's is presently is the area to be vacated. Discussion ensued as to the location of the right-of-way to be vacated.

Councilmember Smeback asked if this is a part of the Department of Transportation's plan.

Mr. Henne confirmed that it is.

Mayor Bob Jones said that 1st Ave and 2nd Ave are streets that run directly into Tree Top and that's as far as they go. He further stated that, this day and age, a lot of food production establishments want to be compounds. People who buy the establishment's products want to know that the area is secure and that there is a fence around it. He said that in order to do this, there cannot be a street running through it, so the deal that the City is trying to make with Tree Top is to get enough right-of-way to put in a turn lane and two lanes of traffic through that area. He concluded that this would be very beneficial for both the City and for Tree Top.

Conversation ensued regarding which property is that to be vacated.

Councilmember Larson mentioned that in the future, Tree Top would like to build a building where Railroad Avenue exists. He asked if this matter need to be brought to the City before it happens.

Mr. Davison said that if that right-of-way were to be vacated, and if there are utilities, the City would keep easements for their maintenance, however the City would not allow a building to be built over utilities. He stated if there are no utilities there, Tree Top can build if the City chooses to vacate.

Councilmember Overby asked if the Mayor is asking the Council to make a motion to schedule a public hearing for the matter of vacating this right-of-way.

Mr. Davison confirmed that this is correct. The public hearing date to be scheduled is for December 22nd, 2009.

RESOLUTION NO. 2023

RESOLUTION ACCEPTING THE "JAMES-SMITH" NOTICE OF INTENT TO ANNEX PETITIONS

WHEREAS, the City of Selah received from Paul and Connie James and Merle and Dorothy Smith the owners of 5.63 acres a "Notice of Intent to Annexation Petition "requesting annexation; and,

WHEREAS, the City Council of the City of Selah has considered the petitions to annex and adopts a proposed annexation boundary identified as Exhibit "A" representing approximated 6.5 acres; and,

WHEREAS, the Council accepts the petition and will impose the following conditions upon the annexation:

(1) Will establish as the proposed annexation boundary identified by staff in Exhibit "A"; and,

(2) If ultimately annexed, require the assumption of a pro-rata share of existing City indebtedness, and,

(3) If ultimately annexed, the property would be zoned consistent with the land use designation contained in the 2005 City of Selah Urban Growth Area Comprehensive Plan on the date of annexation, and,

(4) Furthermore, the annexation petition is to be conditioned in that petitioners covenant themselves granting the City of Selah a "right of first refusal" to secure ownership of any irrigation and/or domestic water rights appurtenant to the land,

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SELAH, WASHINGTON that the Council accepts the James-Smith "Notice of Intent to Annexation Petition" requesting annexation and directs staff to commence with the annexation process.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF SELAH, WASHINGTON, this 24th Day of November 2009.

Robert L. Jones, Mayor

ATTEST:

Dale Novobielski, Clerk / Treasurer

APPROVED AS TO FORM:

Bob Noe, City Attorney

RESOLUTION NO 2023

EXHIBIT "E"---NA

EXHIBIT "F" --- NO INTERLOCAL

ANNEXATION AGREEMENTS

WASHINGTON STATE BOUNDARY REVIEW BOARD FOR YAKIMA COUNTY

128 North Second Street
Fourth Floor Courthouse
Yakima, Washington 98901

(509) 574-2300 • FAX (509) 574-2301

Public Services

APR 29 2011

Vern ___ Gary ___ Dan ___ Steve ___
Dave ___ Lee ___ Norman ___

April 29, 2011

TO: John Puccinelli, Glenn Rice, Jim Sewell, Jo-Ellen Thomas, City of Sunnyside – Jamey Ayling, City of Sunnyside, BOCC, Jeff Spencer - Planning, Phil Hoge – Planning, Public Works, Kelly Rae – Surface Water, Elections, Treasurer, Assessor, Sheriff's Office, Terry Austin, GIS, COG, Fire Dist. #5, School Dist. #201, Health Dist., Department of Ecology, Library, Randy Tucker, Gregg Marrs, Gary Eksted, Matt Pietrusiewicz, Russ Kelly, Kardy Schuknecht and Harold MacLean.

FROM: C. J. Catt
Chief Clerk of the Boundary Review Board

SUBJ: File No. BRB 10-010, Sunnyview Park Annexation, City of Sunnyside

Enclosed is the final Ordinance No. 2010-030 for the City of Sunnyside's Sunnyview Park Annexation. The Ordinance was recorded under Auditors File # 7726799 on April 29, 2011, and is in effect.

If you have any questions or need further information, please give me a call at 574-2300.

Encl. Ord. 2010-030

G:\ADMINISTRATIVE\users\JO\BRB\2010\10-010 Sunnyview Park\ BRB Final Recorded Letter

COPY

WHEN RECORDED RETURN TO:

CITY OF SUNNYSIDE
818 E. Edison Avenue
Sunnyside, WA. 98930

DOCUMENT TITLE: Sunnyview Park Annexation/City of Sunnyside
Ordinance No. 2010-30– BRB 2010-010

Reference # of related documents:

Grantor(s):

1. **CITY OF SUNNYSIDE**
2.

Additional on page _____

Grantee(s):

1. **THE PUBLIC**
2.

Additional on page _____

Legal Description: (abbreviated)

All that property in the Northeast ¼ of Section 5 Township 9 North Range 23 East W.M. lying Northeasterly of the Southwesterly right-of-way line for Interstate 82; Except Lot 2 of Short Plat recorded under Auditor's File No. 7407870, records of Yakima County, Washington.

Assessor's Parcel Nos.: 230905-11005; -11007; -11401

AF # 7726799 4/29/11

ORDINANCE 2010 - 30

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SUNNYSIDE, WASHINGTON, ANNEXING CERTAIN PROPERTY TO THE CITY OF SUNNYSIDE, AMENDING COMPREHENSIVE PLAN AND ZONING SAID PROPERTY "Sunnyview Park Annexation"

WHEREAS, the City of Sunnyside has received a Petition for Annexation of property into the City of Sunnyside, identified as the "Sunnyview Park Annexation;" and

WHEREAS, the documentation filed is in proper form and a Notice of Intention has been submitted to and approved by the Washington State Boundary Review Board for Yakima County, which approval was granted by Order of the Board on October 22, 2010, and which approval included Yakima County Assessor's Parcel Numbers 230905-11007; -11401 and -11005.

WHEREAS, the Planning Commission has held a public hearing pursuant to published notice on July 13, 2010 and has recommended approval of the annexation, and recommended that the Parcel Number 230905-11005 be zoned PF-Public Facilities and Parcel Numbers 230905-11007 and 230905-11401 be zoned B-2, General Commercial, and that the City of Sunnyside Comprehensive Plan and Zoning Map be amended accordingly; and

WHEREAS, the City Council has held an open record hearing pursuant to Title 19 of the Sunnyside Municipal Code on November 22, 2010 considering the record herein and the recommendations of the Sunnyside Planning Commission concerning the proposed annexation; and

WHEREAS, the City Council finds and determines as follows:

A. The City Council has jurisdiction to determine all matters and issues herein.
B. All procedures and requirements of law and the Sunnyside Municipal Code have been performed and satisfied regarding such proposed annexation.

C. The annexation of the proposed property into the City of Sunnyside is in the best interests of residents of the City of Sunnyside, and the proposed zoning is consistent with the Comprehensive Plan of the City of Sunnyside.
D. Approval of such annexation will promote the general health, safety and welfare; and

WHEREAS, the City Council, having made the above findings, determines that such property should be annexed to the City of Sunnyside for Parcel Number 230905-11005 the zoning should be PF-Public Facilities and for Parcel Numbers 230905-11007 and 230905-11401 the zoning should be B-2, General Commercial, and that the Comprehensive Plan and the Zoning Map of the City of Sunnyside should be amended accordingly and as necessary.

NOW, THEREFORE, IT IS HEREBY ORDAINED BY THE CITY COUNCIL OF THE CITY OF SUNNYSIDE, WASHINGTON, as follows:

Section 1. That the property of the "Sunnyview Park Annexation," consisting of four (4) parcels totaling 36.13 acres, commonly known as Yakima County Assessor's Parcel Nos. 230905-11005; -11007 and -11401 and legally described in Exhibit "A" and shown on the map attached hereto as Exhibit "B," both incorporated herein by this reference, is hereby annexed to the City of Sunnyside.

Section 2. That all of the property within the territory herein annexed shall be assessed and taxed at the same rate and on the same basis as other property within the City of Sunnyside for any outstanding indebtedness of the City of Sunnyside, including assessments and taxes in payment of any bonds issued or debts contracted prior to or existing on the date hereof.

Section 3. That the property subject to this annexation shall be, and the same hereby is, zoned PF-Public Facilities for Parcel No. 230905-11005, and zoned B-2, General Commercial for Parcel Nos. 230905-11007 and -11401, and that the Zoning Map of the City of Sunnyside shall be amended to reflect the same, together with appropriate designation and amendment of the City of Sunnyside Comprehensive Plan as necessary.

Section 4. That the City Manager or his designee is hereby authorized and directed to notify the Washington Utilities and Transportation Commission, together with utility providers, of this annexation, and to approve, on behalf of the

City of Sunnyside, an appropriate transition franchise agreement with any existing utility provider for the property subject to this annexation.

Section 5. This Ordinance shall be effective five days after passage, approval and publication as required by law, whichever later occurs, and a copy of this Ordinance shall be filed with the Yakima County Commissioners and with the Yakima County Auditor, and with other appropriate entities with jurisdiction.

PASSED this 13th day of December, 2010.

JAMES A. RESTUCCI, MAYOR

ATTEST:

DEBORAH A. ESTRADA, CITY CLERK

APPROVED AS TO FORM:

Menke Jackson Beyer Ehlis & Harper LLP
Attorneys for the City of Sunnyside

EXHIBIT 'A'
Sunnyview Park

Property Description for the Sunnyview Park Annexation.

Parcel Numbers 230905-11005, 230905-11401, 230905-11007

All that property in the Northeast ¼ of Section 5 Township 9 North Range 23 East W.M. lying northeasterly of the southwesterly right-of-way line for Interstate 82 Except Lot 2 of Short Plat Recorded under Auditors File Number 7407870 records Yakima County.

Together with all adjacent rights-of-way

Description certified and approved by Yakima County Traffic Engineering Department for annexation purposes.

X Kevin McHarry Date 8-27-2010

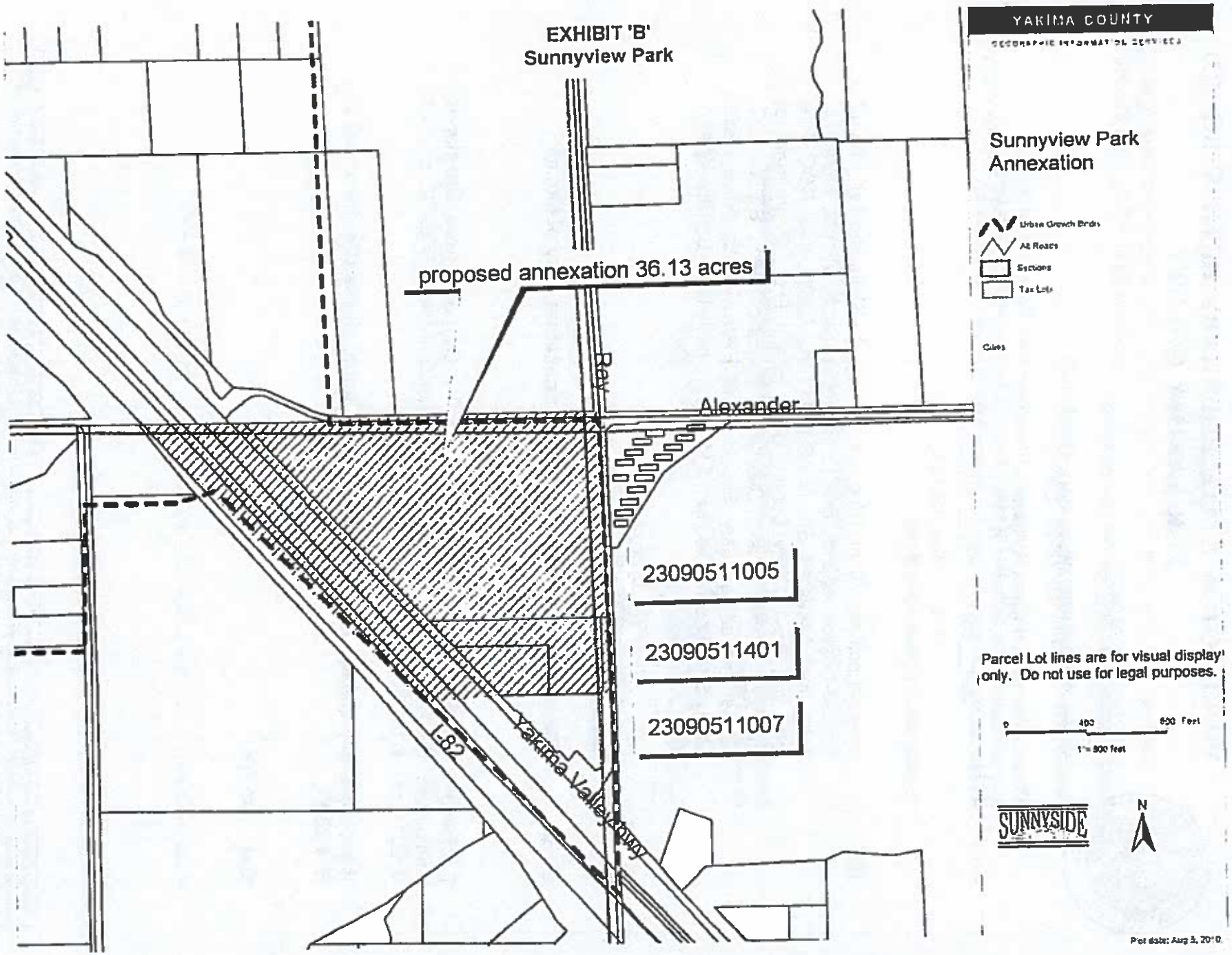


EXHIBIT 'B'
Sunnyview Park
proposed annexation 36.13 acres
Rey
Alexander
23090511005
23090511401
23090511007
I-82
Yakima Valley Hwy
YAKIMA COUNTY
Sunnyview Park
Annexation
Urban Growth Bndry
All Roads
Sections
Tax Lots
Cities
Parcel Lot lines are for visual display
only. Do not use for legal purposes.
0
400
800 Feet
1" = 800 feet
SUNNYSIDE
N
Plot date: Aug 5, 2010

WASHINGTON STATE BOUNDARY REVIEW BOARD FOR YAKIMA COUNTY

128 North Second Street
Fourth Floor Courthouse
Yakima, Washington 98901

(509) 574-2300 • FAX (509) 574-2301

Public Services

JUL 0 9 2011

Vern___ Gary___ Don___ Steve___
Dave___ Lisa___ Carmen___

June 9, 2011

Kelly Rae - Surface Water

TO: John Puccinelli, Glenn Rice, Jim Sewell, Jo-Ellen Thomas, City of Moxee– Byron Adams, BOCC, Planning, Public Works, Elections, Treasurer, Assessor, Sheriff's Office, Terry Austin, GIS, COG, Fire Dist. #4, East Valley School Dist., Health Dist., Department of Ecology, Library, Steve Desmarais Ranches, Inc., SERC LLC, Gress Properties, Gary Eksted, Matt Pietrusiewicz, Russ Kelly, Kardy Schuknecht and Harold MacLean, Kelly Rae- Surface Water

FROM: C. J. Catt
Chief Clerk of the Boundary Review Board

SUBJ: File No. BRB 11-001, Desmarais Annexation, City of Moxee

Enclosed is the final Ordinance No. 704 for the City of Moxee Desmarais Annexation. The Ordinance was recorded under Auditors File # 7730410 on June 9, 2011, and is in effect.

If you have any questions or need further information, please give me a call at 574-2300.

Encl. Ord. 704

G:\ADMINISTRATIVE\Users\CJC\BRB\2011\11-001 Desmarais Annexation\ BRB Final Recorded Ltr.doc

* 7 7 2 7 5 4 2 3 *

FILE# 7727542
YAKIMA COUNTY, WA
05/06/2011 03:07:41PM
ORDINANCE
PAGES: 3
VALUED CUSTOMER

Recording Fee: 64.00

AF# 7730410 6/9/11

Return To: City of Moxee
P.O. Box 249
Moxee, WA 98936

COPY

Document Title: City of Moxee, Washington Ordinance # 704
Re record to include legal & map

Legal Description Abbreviated Form: Portion of the West half of Section 6, Township 12 North, Range 20 East, W.M.

Assessor's Tax Parcel Nos.: 201206-34002, 201206-31003, 201206-31004 and 201206-31005

Grantor: City of Moxee

Grantee: Public

CITY OF MOXEE,
WASHINGTON

ORDINANCE # 704

AN ORDINANCE of the City Council of the City of Moxee, Washington annexing contiguous property into the corporate City limits of Moxee.

WHEREAS, The City Council of the City of Moxee, Washington has filed a Notice of Intention to annex certain real property with Yakima County Boundary Review Board File Number BRB 2011-001 and

WHEREAS, pursuant to RCW 36.93.090 and RCW 36.93.100 the Yakima County Boundary Review Board did not invoke jurisdiction within the 45 day filing period and thereby deemed the annexation approved.

NOW THEREFORE THE CITY COUNCIL OF THE CITY OF MOXEE, WASHINGTON DO ORDAIN as follows:

SECTION I ANNEXATION LEGAL DESCRIPTION
That portion of the West half of Section 6, Township 12 North, Range 20 East, W.M., described as follows:

Beginning at the Southeast corner of the Plat of LENSEIGNE FARMS PHASE 5, according to the official plat thereof, recorded under Auditor's File Number 7629079, records of Yakima County, Washington;
Thence North along said East line to the Northeast corner of the Plat of LENSEIGNE FARMS PHASE 6, according to the official plat thereof, recorded under Auditor's File Number 7691442, records of Yakima County, Washington;
Thence West along said North line to the East line of Government Lot 6 of said Section;
Thence North along said East line and the Northerly extension thereof to the Northerly right of way line of Charron Road;
Thence East along said Northerly right of way line to the Northerly extension of the West line of the East one-third of the Northeast Quarter of the Southwest Quarter of said Section 6;
Thence South along said West line to a point that is 256 feet South of the North line of said Southwest Quarter, measured perpendicular thereto;
Thence East parallel with said North line to a point that is 64.00 feet East of the West line of the East one-third of the Northeast Quarter of the Southwest Quarter;
Thence South parallel with said West line to a point that is 480 feet South of the North line of said Southwest Quarter, measured perpendicular thereto;
Thence West parallel with said North line to the West line of the East one-third of the Northeast Quarter of the Southwest Quarter;
Thence South along said West line to the South line of said Northeast Quarter of the Southwest Quarter;
Thence West along said South line to a point that is 1650 feet West of the West line of said Southwest Quarter, measured perpendicular to the West line thereof;
Thence South parallel with said West line to the Northerly right of way line of State Route 24;
Thence West along said Northerly right of way line to the Point of Beginning.

Situate in Yakima County, Washington.

SECTION II TITLE
This Annexation shall be known as the Desmarais Annexation.

SECTION III ANNEXATION EFFECTIVE DATE
The above described real property shall be hereby annexed into the corporate City limits of Moxee, Washington effective May 3, 2011.

SECTION IV ORDINANCE FILING REQUIREMENTS
Annexation Ordinance and supporting documents shall be sent to State Office of Financial Management within thirty (30) days. The original ordinance copies shall be filed with the Yakima County Boundary Review Board for their distribution and filing. One (1) copy shall be sent to the Department of Revenue, Local Sales Tax Section.

SECTION V EFFECTIVE DATE OF THIS ORDINANCE
This Ordinance shall become effective five (5) days after adoption and publication as required by law.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF MOXEE, WASHINGTON THIS 28th day of April, 2011

ATTEST:

CITY CLERK-TREASURER

MAYOR

Approve As To Form:

Publication Date: 4-30-2011

Effective Date: 5-3-2011

Public Services

128 North Second Street • Fourth Floor Courthouse • Yakima, Washington 98901
(509) 574-2300 • 1-800-572-7354 • FAX (509) 574-2301 • www.co.yakima.wa.us

VERN M. REDIFER, P.E. - Director

January 27, 2011

CITY OF MOXEE
JAN 2 : 2011
RECEIVED

Byron Adams
City of Moxee
255 W. Seattle Avenue
P.O. Box 248
Moxee, Washington 98936

RE: Proposed Desmarias Annexation

Dear Byron:

The legal description for the proposed annexation was prepared by a licensed surveyor; therefore the legal descriptions appear to be correct and accurate.

If you have any questions or need additional information, please don't hesitate to contact me.

Sincerely,

Kent L. McHenry, P.E.
Transportation Engineering Manager

EXHIBIT A-1

City of Moxee
2011 Annexation
HLA Project No. 11005
January 21, 2011

Annexation Area

That portion of the West half of Section 6, Township 12 North, Range 20 East, W.M., described as follows:

Beginning at the Southeast corner of the Plat of LENSEIGNE FARMS PHASE 5, according to the official plat thereof, recorded under Auditor's File Number 7629079, records of Yakima County, Washington;
Thence North along said East line to the Northeast corner of the Plat of LENSEIGNE FARMS PHASE 6, according to the official plat thereof, recorded under Auditor's File Number 7691442, records of Yakima County, Washington;
Thence West along said North line to the East line of Government Lot 6 of said Section;
Thence North along said East line and the Northerly extension thereof to the Northerly right of way line of Charron Road;
Thence East along said Northerly right of way line to the Northerly extension of the West line of the East one-third of the Northeast Quarter of the Southwest Quarter of said Section 6;
Thence South along said West line to a point that is 256 feet South of the North line of said Southwest Quarter, measured perpendicular thereto;
Thence East parallel with said North line to a point that is 64.00 feet East of the West line of the East one-third of the Northeast Quarter of the Southwest Quarter;
Thence South parallel with said West line to a point that is 480 feet South of the North line of said Southwest Quarter, measured perpendicular thereto;
Thence West parallel with said North line to the West line of the East one-third of the Northeast Quarter of the Southwest Quarter;
Thence South along said West line to the South line of said Northeast Quarter of the Southwest Quarter;
Thence West along said South line to a point that is 1650 feet West of the West line of said Southwest Quarter, measured perpendicular to the West line thereof;
Thence South parallel with said West line to the Northerly right of way line of State Route 24;
Thence West along said Northerly right of way line to the Point of Beginning.

Situate in Yakima County, Washington.

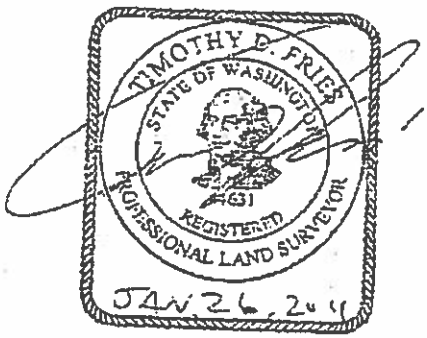
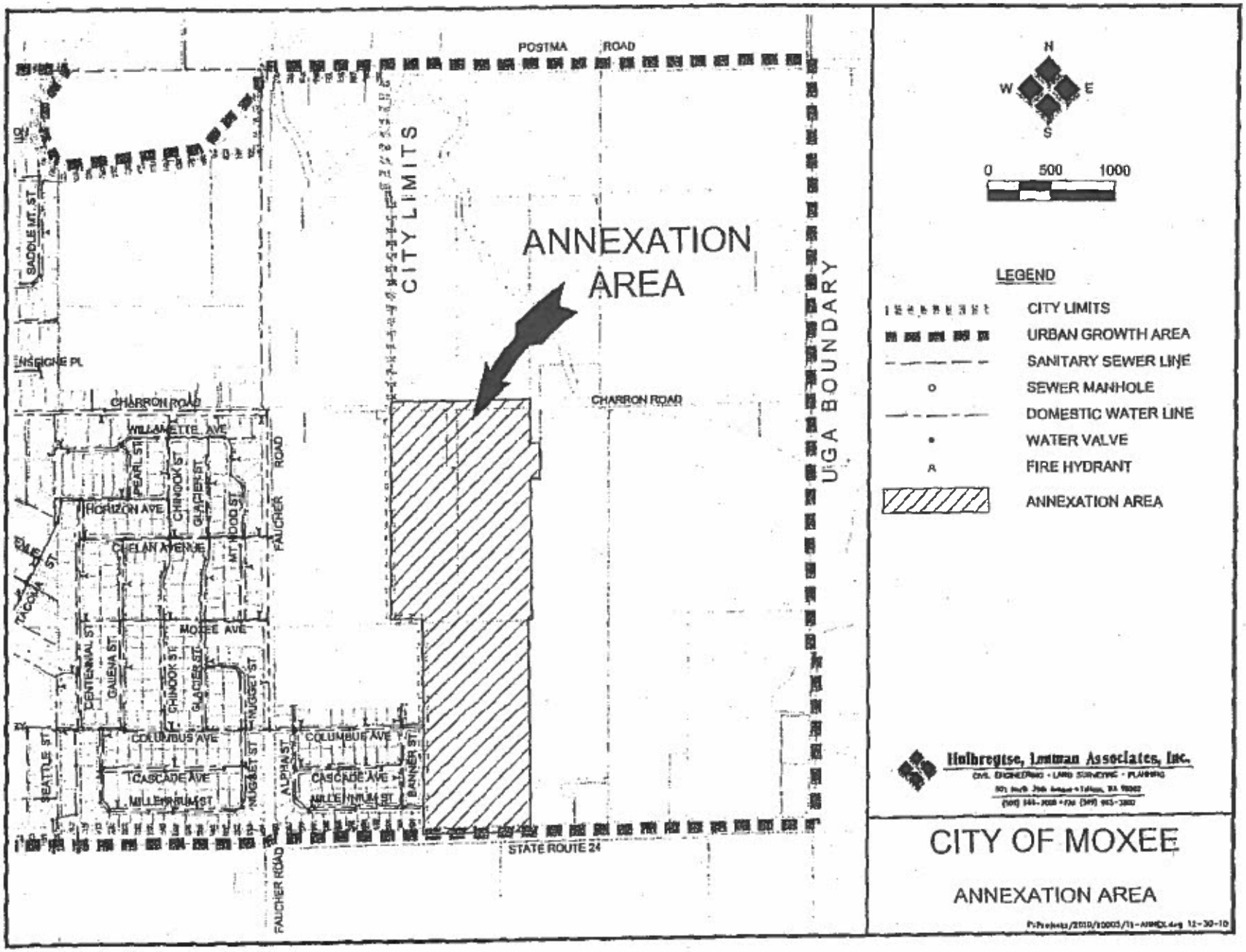


EXHIBIT A-2



CITY OF MOXEE

ANNEXATION AREA

WASHINGTON STATE BOUNDARY REVIEW BOARD FOR YAKIMA COUNTY

128 North Second Street
Fourth Floor Courthouse
Yakima, Washington 98901

(509) 574-2300 • FAX (509) 574-2301

Public Services

APR 29 2011

Vern ___ Gary ___ Don ___ Steve ___
Dave ___ Lisa ___ Vernon ___

April 29, 2011

TO: John Puccinelli, Glenn Rice, Jim Sewell, Jo-Ellen Thomas, City of Sunnyside – Jamey Ayling, City of Sunnyside, BOCC, Jeff Spencer - Planning, Phil Hoge – Planning, Public Works, Kelly Rae – Surface Water, Elections, Treasurer, Assessor, Sheriff's Office, Terry Austin, GIS, COG, Fire Dist. #5, School Dist. #201, Health Dist., Department of Ecology, Library, Roland & Mary Ann Bonny, Joel Gonzalez, Jesus Gonzalez, Barbara Jean Johnson, Rafael Garibay, Port of Sunnyside, Gary Eksted, Matt Pietrusiewicz, Russ Kelly, Kardy Schuknecht and Harold MacLean.

FROM: C. J. Catt
Chief Clerk of the Boundary Review Board

SUBJ: File No. BRB 10-008, E. Edison Annexation, City of Sunnyside

Enclosed is the final Ordinance No. 2010-027 for the City of Sunnyside's E. Edison Annexation. The Ordinance was recorded under Auditors File # 7726797 on April 29, 2011, and is in effect.

If you have any questions or need further information, please give me a call at 574-2300.

Encl. Ord. 2010-027

G:\ADMINISTRATIVE\Users\CJC\BRB\2010\10-008 East Edison Rd_BRB Final Recorded Ltr.doc

WHEN RECORDED RETURN TO:

COPY

CITY OF SUNNYSIDE
818 E. Edison Avenue
Sunnyside, WA. 98930

DOCUMENT TITLE: East Edison Road Annexation/City of Sunnyside
Ordinance No. 2010-27-- BRB 2010-008

Reference # of related documents:

Grantor(s):

1. **CITY OF SUNNYSIDE**
2.

Additional on page _____

Grantee(s):

1. **THE PUBLIC**
2.

Additional on page _____

Legal Description: (abbreviated)

Beginning at the Southwest corner of the Southeast quarter of the Northwest quarter of Section 29, Township 10 North, Range 23 East W.M., etc.

Assessor's Parcel Nos.: 231029-23405; 23406; 24002; 23404; 31002; 31003; 31009; 31005; and 31004;

AF # 7726797 4/29/11

ORDINANCE 2010 - 27

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SUNNYSIDE, WASHINGTON, ANNEXING CERTAIN PROPERTY TO THE CITY OF SUNNYSIDE, AMENDING COMPREHENSIVE PLAN AND ZONING SAID PROPERTY "East Edison Road Annexation"

WHEREAS, the City of Sunnyside has received a Petition for Annexation of property into the City of Sunnyside, identified as the "East Edison Road Annexation;" and

WHEREAS, the documentation filed is in proper form and a Notice of Intention has been submitted to and approved by the Washington State Boundary Review Board for Yakima County, which approval was granted by Order of the Board on October 22, 2010, and which approval included Yakima County Assessor's Parcel Numbers 231029-23405; -23406; -24002; -23404; 31002; -31003; -31009; 31005 and -31004.

WHEREAS, the Planning Commission has held a public hearing pursuant to published notice on June 8, 2010 and has recommended approval of the annexation, and recommended that the zoning be a mixture of M-1, Light Industrial and URA – Urban Residential Agricultural, and that the City of Sunnyside Comprehensive Plan and Zoning Map be amended accordingly; and

WHEREAS, the City Council has held a closed record hearing pursuant to Title 19 of the Sunnyside Municipal Code on November 22, 2010 considering the record herein and the recommendations of the Sunnyside Planning Commission concerning the proposed annexation; and

WHEREAS, the City Council finds and determines as follows:

A. The City Council has jurisdiction to determine all matters and issues herein.
B. All procedures and requirements of law and the Sunnyside Municipal Code have been performed and satisfied regarding such proposed annexation.

C. The annexation of the proposed property into the City of Sunnyside is in the best interests of residents of the City of Sunnyside, and the proposed zoning is consistent with the Comprehensive Plan of the City of Sunnyside.
D. Approval of such annexation will promote the general health, safety and welfare; and

WHEREAS, the City Council, having made the above findings, determines that such property should be annexed to the City of Sunnyside for Parcel Numbers 231029-23405; -23406; -24002; -23404; 31002; -31003; -31009; 31005 and -31004 and the zoning should be a mixture of M-1, Light Industrial and URA – Urban Residential Agricultural, and that the Comprehensive Plan and the Zoning Map of the City of Sunnyside should be amended accordingly and as necessary.

NOW, THEREFORE, IT IS HEREBY ORDAINED BY THE CITY COUNCIL OF THE CITY OF SUNNYSIDE, WASHINGTON, as follows:

Section 1. That the property of the "East Edison Road Annexation," consisting of nine (9) parcels totaling 42.41 acres, commonly known as Yakima County Assessor's Parcel Nos. 231029-23405; -23406; -24002; -23404; 31002; -31003; -31009; 31005 and -31004 and legally described in Exhibit "A" and shown on the map attached hereto as Exhibit "B," both incorporated herein by this reference, is hereby annexed to the City of Sunnyside.

Section 2. That all of the property within the territory herein annexed shall be assessed and taxed at the same rate and on the same basis as other property within the City of Sunnyside for any outstanding indebtedness of the City of Sunnyside, including assessments and taxes in payment of any bonds issued or debts contracted prior to or existing on the date hereof.

Section 3. That the property subject to this annexation shall be, and the same hereby is, zoned a mixture of M-1, Light Industrial and URA – Urban Residential Agricultural, and that the Zoning Map of the City of Sunnyside shall be amended to reflect the same, together with appropriate designation and amendment of the City of Sunnyside Comprehensive Plan as necessary.

Section 4. That the City Manager or his designee is hereby authorized and directed to notify the Washington Utilities and Transportation Commission, together with utility providers, of this annexation, and to approve, on behalf of the

City of Sunnyside, an appropriate transition franchise agreement with any existing utility provider for the property subject to this annexation.

Section 5. This Ordinance shall be effective November 27, 2010 or five days after passage, approval and publication as required by law, whichever later occurs, and a copy of this Ordinance shall be filed with the Yakima County Commissioners and with the Yakima County Auditor, and with other appropriate entities with jurisdiction.

PASSED this 22nd day of November, 2010.

JAMES A. RESTUCCI, MAYOR

ATTEST:

DEBORAH A. ESTRADA, CITY CLERK

APPROVED AS TO FORM:

Menke Jackson Beyer Ehlis & Harper LLP
Attorneys for the City of Sunnyside

Exhibit "A"

EXHIBIT 'A'
E. Edison Road

Property Description for the East Edison Road Annexation.

Parcel Numbers 231029-24002, 231029-23404, 231029-23406, 231029-23405, 231029-31009, 231029-31005, 231029-31004, 231029-31003, 231029-31002

Beginning at the southwest corner of the southeast ¼ of the northwest ¼ of Section 29, Township 10 North, Range 23 East W.M, thence east 672.44 feet, thence North 192.31 feet, thence west 672.54 feet thence south 183.97 feet to the point of beginning.

Together with lots 2,3,&4 of short plat 92-38 records of Yakima County ,

Together with the west ½ of the northeast ¼ of the sw1/4 of section 29 Township 10 North Range 23 East W.M.

Together with all adjacent rights-of-way

Description certified and approved by Yakima County Traffic Engineering Department for annexation purposes.

x _____ Date 8-27-2010

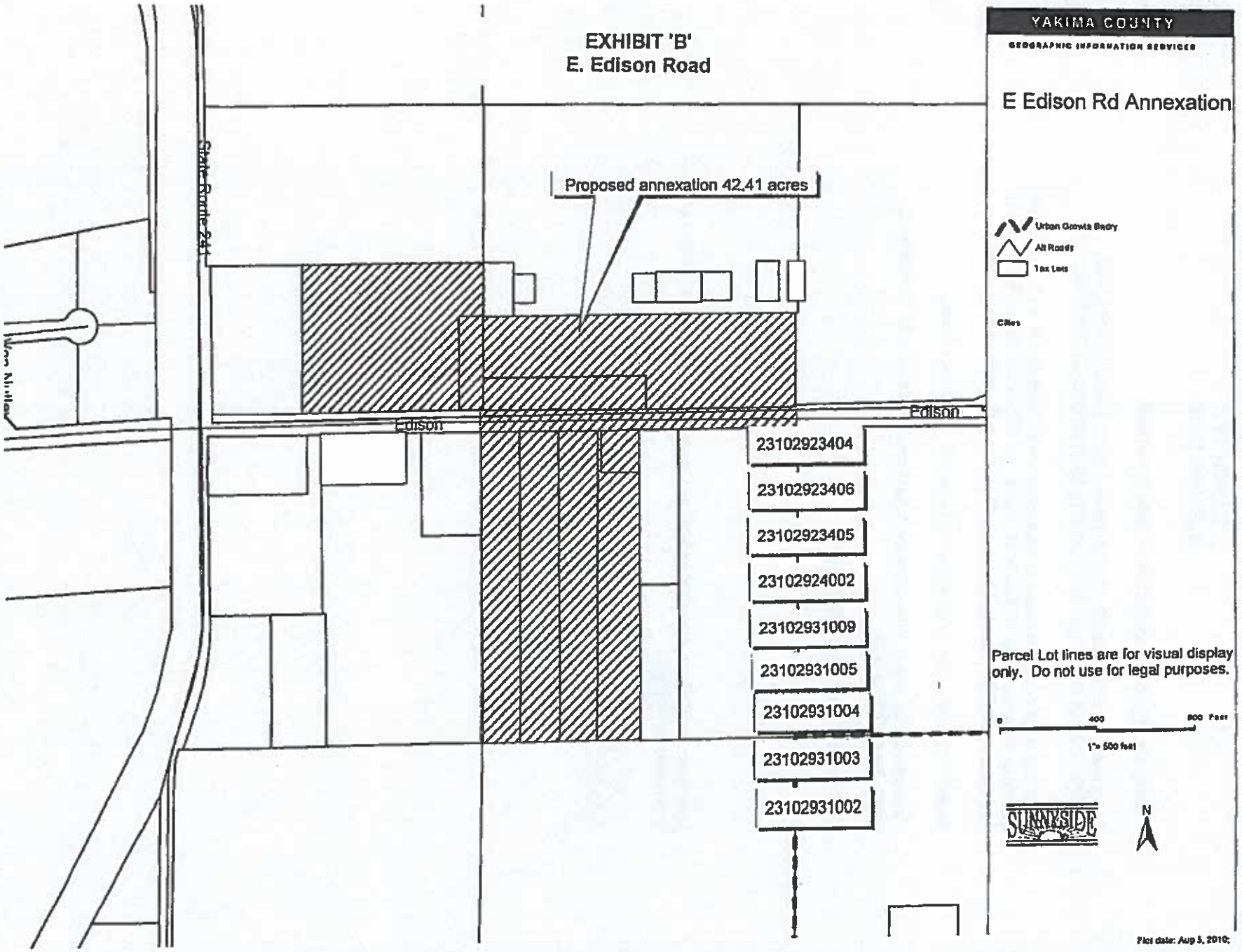


EXHIBIT 'B'
E. Edison Road
YAKIMA COUNTY
GEOGRAPHIC INFORMATION SERVICES
E Edison Rd Annexation
Proposed annexation 42.41 acres
State Route 241
Edison
Edison
Urban Growth Bndry
All Roads
Tax Lots
Cities
23102923404
23102923406
23102923405
23102924002
23102931009
23102931005
23102931004
23102931003
23102931002
Parcel Lot lines are for visual display only. Do not use for legal purposes.
0
400
800 Feet
1"= 500 feet
SUNNYSIDE
N
Plot date: Aug 5, 2010;

Yakima County Regional Stormwater Program
Public Education, Outreach, and Involvement Activities Summary
2011

Initial Phone Survey
An initial phone survey was conducted in September 2011 to determine current public awareness of stormwater issues. Results indicate that 50% of those surveyed have a good basic understanding of stormwater issues.

Billboard Campaign
Stormwater billboard campaign held during eight week run from October to December. Nine billboards were located throughout the regional group jurisdictions

Illicit Discharge Investigation
As part of the investigating and revolving illicit discharges, the jurisdictions provided letter, brochure, and/or verbal public education to residences and businesses where illicit discharges originated. Since the City of Yakima had by far the most illicit discharge investigations, they provided this type of public education where appropriate on least 15 instances.

Brochures
A “Five Myths About Stormwater in Yakima County” brochure was developed and printed in English and Spanish. Three thousand were distributed to 11 locations throughout the regional jurisdictions.

The City of Yakima also developed and distributed additional brochures aimed at specific types of businesses such as restaurants, automotive repair, and swimming pool vendor/chemical sales. A general stormwater flier was also sent out in the City of Yakima Utility bills.

The City of Union Gap also included material in city newsletter.

Public Involvement Meeting
Public involvement meeting held March 31, 2011.

Regional Website
The regional stormwater website continued to be maintained and updated during 2011 (http://www.yakimacounty.us/Stormwater/). A set of low impact development pages was added to highlight the new Yakima County manual and J Street Demonstration project. A speaker series announcement was also added predominately on the home page.

Low Impact Development (LID) Demonstration J Street Demonstration Project Monitoring
High school and community college students conducted water quality sampling in April and November as part of the J Street monitoring project. Jail inmates on a work crew also conducted sampling in July.

Central Washington State Fair
City of Yakima staff had a stormwater awareness booth at the fair. Residents from all over Yakima County might have viewed this display thus providing stormwater public education and outreach to residents of all regional jurisdictions.

Catch Basin Messages
Most catch basin grates with new construction include a public education message molded directly into the grate. Messages are aimed at educating the public that stormwater drains to surface waters so illicit dumping should not occur. In the case of Yakima County, 25 of 30 total catch basins that discharge to surface waters have such messages molded into the grates.

Traducción al español en el otro lado de esta página

Five Myths About Stormwater in Yakima County

A message from Stormwater Programs of

City of Union Gap · Yakima County · City of Yakima · Sunnyside

www.yakimacounty.us/stormwater/

Myth #1:

Drains in streets for stormwater are connected to the same sanitary sewer used for treating human waste.

Reality: NO!!

This kind of drain

flows directly to groundwater, rivers and creeks through a pipe like this:

Myth #2:

Stormwater runoff pollution is not a problem in Yakima County.

Reality: Oh, Yes it is!

Consider where stormwater runoff water goes! Stormwater pipes flow to a nearby creek. From there, it flows to the Naches or Yakima River where the water is reused for irrigation or drinking water. Pollutants in the stormwater such as copper, iron, lead, arsenic, pesticides, bacteria and are carried along in the river water and end up on crops (that you eventually eat) or in your drinking water if you get water from the river.

Really, would you want to drink any of this?

Or, to ask it another way, how diluted would this have to be before you'd drink it?

If you see dirty runoff like this contact:

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Myth #3:

Water going into stormwater drains on the street is treated before being discharged into the environment.

Reality: Rarely!!

Pipe ends do not have miniature treatment plants on the ends of them. Stormwater flows directly to adjacent waterways or infiltration areas. Anything on the ground is picked up and carried with it.

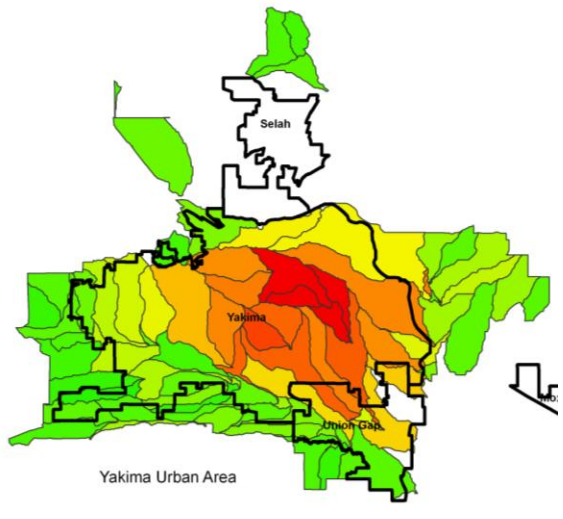
Some stormwater treatments called Best Management Practices are being used in new developments. Most treat stormwater before it is infiltrated into the ground or discharged to a nearby stream. Stormwater is directed to the swale above where it is filtered before draining into the ground.

Myth #4:

Hard surfaces such as roads, driveways, and rooftops are not significant sources of pollution in stormwater.

Reality: Oh, Yes they are!!

<u>EVERTHING</u> runs off hard surfaces. Not only do hard surfaces in urban areas have pollutants that are carried away, the runoff from hard surfaces is a larger volume of water in a short period of time, which affects creek channel structure, habitat functions and other processes important to healthy ecosystems.



This watershed map shows how an estimate of zinc in runoff from the urban Yakima area is related to the most developed areas. (red means higher levels, green means lower levels)

Myth #5:

Litter, oil, and dirt on streets does not cause pollution of rivers, streams, irrigation, and drinking water.

Reality: Guess again!!

Stormwater runoff from streets has been identified as a prime pollutant source to Yakima area streams & across the country.

What you can do!

- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly
- Never dump anything down storm drains or in streams
- Manage and properly dispose of toxic materials, trash and plastics

Help us protect your watersheds!
Please call if you see pollution being dumped in a storm drain!!

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Cinco Mitos Sobre el Agua Pluvial en el Condado de Yakima

Mensage de los Programas de Agua Pluvial de

City of Union Gap

YAKIMA COUNTY

SUNNYSIDE

www.yakimacounty.us/stormwater/

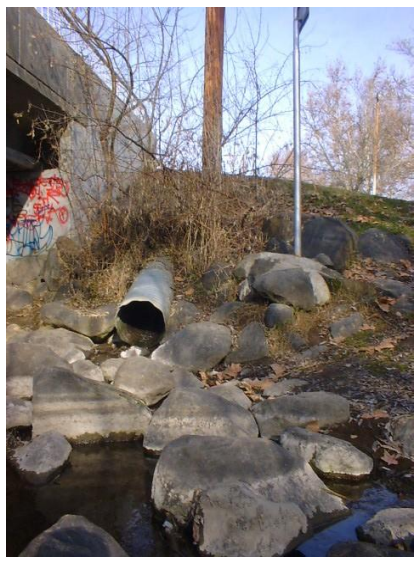
Mito #1:

El alcantarillado en las calles para aguas pluviales está conectado al mismo alcantarillado sanitario que se usa para tratar desechos humanos.

Realidad: ¡NO!

Este tipo de alcantarillado

fluye directamente a aguas subterráneas, ríos y arroyos a través de tuberías como esta:



Mito #2:

La contaminación por la escorrentía de las aguas pluviales no es un problema en el Condado de Yakima.

Realidad: ¡Oh, si, lo es!

¡Piense a donde se va la escorrentía de las aguas pluviales! Las aguas pluviales fluyen por las tuberías a un arroyo cercano. De ahí, van al río Naches o al Yakima donde el agua se vuelve a usar para irrigar o para beber. Los contaminantes en el agua pluvial como el cobre, hierro, plomo, arsénico, pesticidas y bacteria son acarreados en el agua del río y terminan en cultivos (que eventualmente se comen) o en su agua para beber si usted toma agua del río.

De veras, ¿tomaría de esta agua?

O, preguntándoselo de otra manera, ¿qué tan diluida tendría que estar esta agua antes de que usted se la tomara?

Si ve agua sucia de escorrentía como esta comuníquese al:

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Mito #3:

El agua que va a las alcantarillas del agua pluvial en las calles es tratada antes de ser descargada en el medio ambiente.

Realidad: ¡Raramente!

Al final de las tuberías no hay plantas de tratamiento en miniatura. El agua pluvial fluye directamente a canales adyacentes o a áreas de Infiltración. Cualquier cosa en el suelo es recogida y acarreada en el agua.

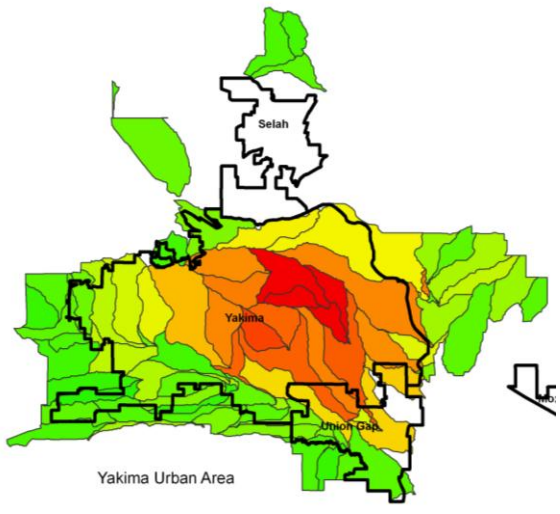
En urbanizaciones nuevas se han estado utilizando algunos tratamientos de agua pluvial llamados Mejores Prácticas de Manejo. La mayoría de estas prácticas trata el agua pluvial antes de que se infiltre en el suelo o que se descargue en una corriente cercana. El agua pluvial es dirigida al canal de drenaje arriba donde es filtrada antes de que el suelo la absorba.

Mito #4:

Las superficies duras como los caminos, entradas de vehículos y techos no son fuentes considerables de contaminación del agua pluvial.

Realidad: ¡Oh, si lo son!

<u>TODO</u> corre por superficies duras. No sólo las superficies duras en las áreas urbanas tienen contaminantes que son acarreados por el agua, el agua pluvial en las superficies duras es un volumen grande de agua en un periodo corto de tiempo que afecta la estructura del canal del arroyo, las funciones del hábitat y otros procesos importantes para los ecosistemas saludables.



Este mapa fluvial muestra como una estimación de zinc en el agua pluvial del área urbana de Yakima está relacionada con las áreas más desarrolladas. (Rojo significa niveles más altos, verde significa niveles más bajos).

Mito #5:

La basura, el aceite y la suciedad en las calles no causan la contaminación de los ríos, corrientes, irrigación ni del agua para beber.

Realidad: ¡Adivine otra vez!

La escorrentía del agua pluvial de las calles ha sido identificada como una fuente principal de contaminación para las corrientes del área y en todo el condado de Yakima.

¡Qué puede hacer usted!

- Lleve su carro al lavado de carros en lugar de lavarlo en su casa.
- Revise que su carro no tenga fugas y recicle el aceite del motor.
- Recoja el excremento de sus mascotas.
- Bombee su fosa séptica y pida que le inspeccionen el sistema regularmente.
- Nunca tire nada en las alcantarillas ni en las corrientes de agua.
- Maneje y deshágase apropiadamente de los materiales tóxicos, basura y plásticos.

¡Ayúdenos a proteger su medio ambiente! Por favor llame si ve que se está tirando basura en las alcantarillas.

(509) 574-2300

PublicServicesIllicitDischarge@co.yakima.wa.us

Stormwater
Best Management Practices (BMPs) For Restaurants

ONLY RAIN DOWN THE DRAIN!
Stormwater is not treated at the wastewater treatment plant.

City of Yakima
Stormwater/Pretreatment Program
(509)575-6077

Stormwater pollution is caused by restaurants when contaminated water is allowed to leave the property. Cleaning practices that allow grease, food waste, trash and cleaning products to flow into the storm drain system cause contamination of local waterways, including the Yakima River.

BMPs are specific steps to prevent stormwater pollution from daily activities in a restaurant or food service facility. **All restaurant and food service staff should prevent pollutants from entering storm drains by following these recommended practices:**

Recycle Oils and Grease

- Oil and grease waste from grease traps and barrels can be recycled by rendering companies.
- Don't pour oil or grease into sinks, floor drains, or onto a parking lot or street. Keep grease in closed bins.
- **Maintain your grease trap to prevent overflows.**

Dumpster Areas

- Keep dumpster lids closed and the areas around them clean. Do not fill with liquid waste or hose them out.
- Call your trash hauler to replace any dumpsters that are damaged or leak.

Managing Spills

- Clean food spills in loading and trash areas by using absorbent materials and sweeping. If mopping is necessary, discharge mop water through the grease trap into the sewer.
- Have spill containment and cleanup kits available.
- To report serious toxic spills, call 911. Contact a hazardous waste hauler to properly dispose of unwanted hazardous waste.

Cleaning & Maintenance

- Clean equipment, floor mats, filters, and garbage cans in a mop sink, wash rack, or floor drain connected to the sewer through a grease trap. Don't pour wash water in parking lots, alleys, sidewalks, or streets.
- Sweep outside areas and put debris in the garbage instead of sweeping or hosing it into parking lots, streets or storm drains.

Aguas Grises (aguas pluviales)
Mejores Prácticas Para Restaurantes

Solo lluvia por el drenajes! El agua de lluvia no pasa por la planta tratadora de aguas de drenajes.

City of Yakima 509-575-6077
In partnership with
Hispanic Chamber of Commerce of Yakima County

Contaminación del agua gris es causa de restaurantes cuando permiten que el agua contaminada salga de la propiedad.

Practicas de limpieza que deja que la grasa, comida, basura y productos de limpieza entren a los drenajes, causa contaminación de las aguas locales, incluyendo el Rio de Yakima.

Las Mejores Practicas (MP) son pasos específicos para prevenir contaminación de agua gris en sus actividades de cada día en un restaurante o centro de servicios de alimentos.

Todos los restaurantes y el personal de servicios de alimentos deben prevenir contaminación a que entren en los drenajes, siguiendo las prácticas recomendadas:

Reciclaje de aceites y grasas	**Reclutador de Basura**	**Manejando derrames**	**Limpiando y Mantenimiento**
* Aceite y residuos de grasa de las trampas de grasa y los barriles se pueden reciclar con compañías designadas. * Nunca derrame aceites y grasas en su drenaje, drenajes del piso (coladeras), en la calle or en un estacionamiento. Mantenga la grasa en un contenedor cerrado. * Mantenga libres sus trampas de grasa para prevenir inundación.	* Mantenga las tapas de botes de basura cerrados y el área alrededor limpia. No los llene con líquidos, ni los limpie con la manguera. * Llame a su colector de basura para cambiar botes de basura que están dañados o tienen agujeros.	* Limpie los derrames de comida en las áreas de carga y basura usando material absorbente y barriendo. Si es necesario trapear, deseche el agua del trapeador por la trampa de grasa por el drenaje. * Tenga equipo disponible para contener y limpiar. * Para reportar derrame toxico, llame al 911. Contacte a un negocio designado para que limpien el derrame, apropiadamente.	* Limpie equipo, alfombras de piso, filtros, y botes de basura en un lavamanos designado para trapeadores o un canal de desagüé de piso que está conectado al drenaje y tenga una trampa de grasa. Nunca eché agua de limpieza en las calles, banquetas, estacionamientos, o callejones. * Barra las áreas de afuera y ponga basura en un bote de basura, en vez de barrer o echar agua con la manguera hacia la calle o estacionamiento.

City of Yakima 509-575-6077
In partnership with
Hispanic Chamber of Commerce
of Yakima County

STORM WATER

WHAT IS IT?

Rain and snow melt that runs off surfaces like rooftops, paved streets, highways, and parking lots. It carries oil, fertilizers, soil, trash, animal waste and other materials on solid surfaces into the storm drains and to the river.

Stormwater does not go through the wastewater treatment plant.

WHY IS IT A PROBLEM?

It can carry toxic metals, organic compounds, bacteria and viruses into the same waterways that City residents use for recreation and farmers use to irrigate crops. It can cause flooding into neighborhood and businesses when storm drains are filled with debris.

WHAT CAN YOU DO?

- **Never pour anything down storm drains**
- **Scoop pet waste and dispose in the garbage**
- **Minimize the use of fertilizers and pesticides**
- **Direct gutters and downspouts to plants, grass or collection tanks**
- **Wash cars at public car wash or on your lawn**

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In partnership with
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AGUAS GRISES (AGUAS PLUVIALES)

QUÉ SON?

La lluvia y la nieve se desliza rápidamente de los techos, calles y caminos pavimentados, y estacionamientos. Levanta aceite, fertilizantes, tierra, basura, desechos de animales y otros escombros de las superficies solidas y acaban en los drenajes de aguas grises y finalmente al rio.

El agua de lluvia no pasa por la planta de tratadora de aguas de drenajes.

POR QUÉ ES UN PROBLEMA?

Pueden llevar metales tóxicos, compuestos orgánicos, bacterias, o virus en las mismas vías de agua que los residentes de la cuidad utilizan para recreación y los agricultores utilizan para regar los cultivos. También, pueden causar inundaciones en las vecindades y negocios cuando los drenajes se llenan de escombro.

QUÉ PUEDE HACER?

- Nunca derramé nada por los drenajes en la calle
- Recoja desechos de animales y póngalos en la basura
- Minimice el uso de fertilizantes y pesticidas
- Dirija las coladeras de su techo hacia sus plantas, el pasto o tanque de colección
- Lave sus coches en un auto lavado publico o en su pasto

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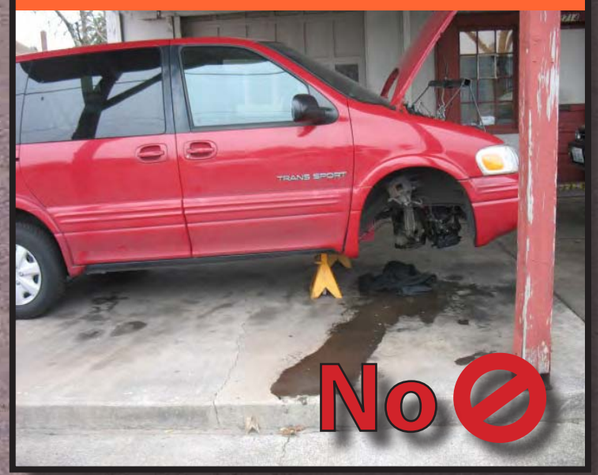
We Keep it Clean Using the 4Cs

Cover

Cover outdoor work and storage areas

Capture

Capture fluids before they run to the drain



Clean

Clean up spills before they reach the drain

Contain

Contain stored fluids to capture leaks

CITY OF YAKIMA
INCORPORATED 1886

For more information, please call (509)575-6077

Only Rain Down the Drain

No Oil • No Suds • No Paint • No Chemicals

Even small amounts can pollute our waterways

Yakima County Storm Water Survey Results **Date: 9/19/2011**

City of Yakima 150 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	45	53	32	19	0	1
2	68	45	22	15	0	0
3	52	60	21	17	0	0
4	39	87	13	10	1	0
5	15	120	8	6	1	0

City of Sunnyside 21 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	6	5	8	2	0	0
2	11	4	5	1	0	0
3	7	7	5	2	0	0
4	4	10	3	4	0	0
5	4	16	1	0	0	0

City of Union Gap 11 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	4	3	1	2	1	0
2	5	5	0	1	0	0
3	3	7	1	0	0	0
4	7	4	0	0	0	0
5	3	8	0	0	0	0

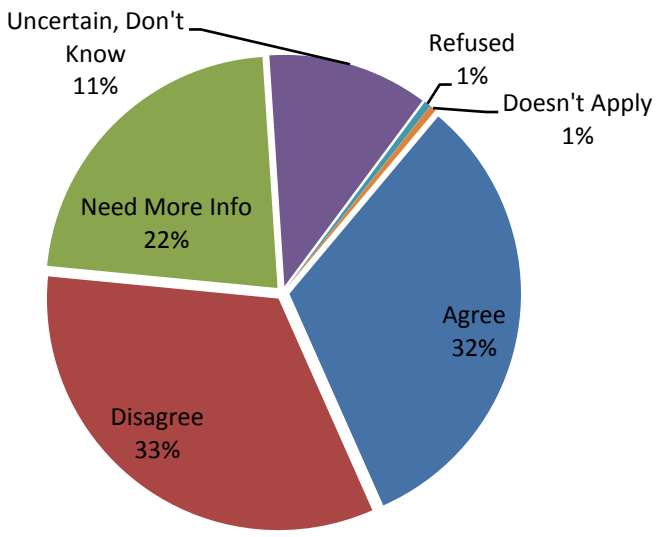
Yakima County Urban Area 32 surveys

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	14	10	7	1	0	0
2	16	9	5	2	0	0
3	12	10	7	3	0	0
4	6	24	1	1	0	0
5	1	28	1	2	0	0

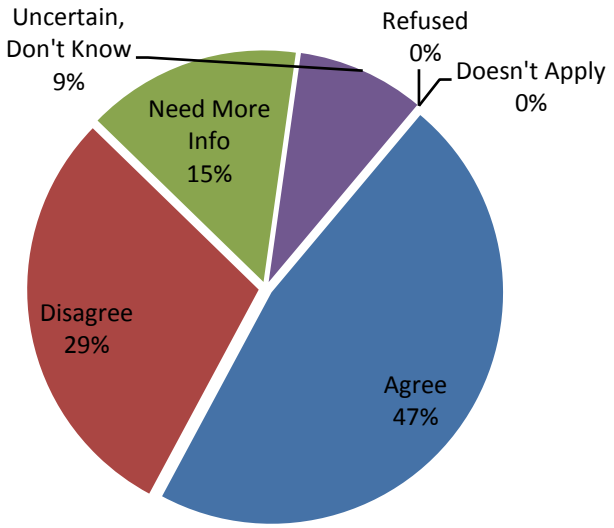
Overall

Question #	Agree	Disagree	Need More Info	Uncertain, Don't Know	Refused	Doesn't Apply
1	69	71	48	24	1	1
2	100	63	32	19	0	0
3	74	84	34	22	0	0
4	56	125	17	15	1	0
5	23	172	10	8	1	0

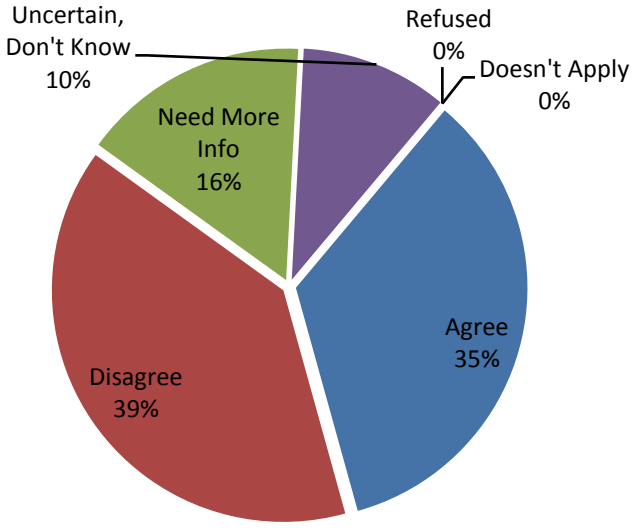
Question 1. Drains on city streets for stormwater are connected to the same sanitary sewer system used for treating human waste.



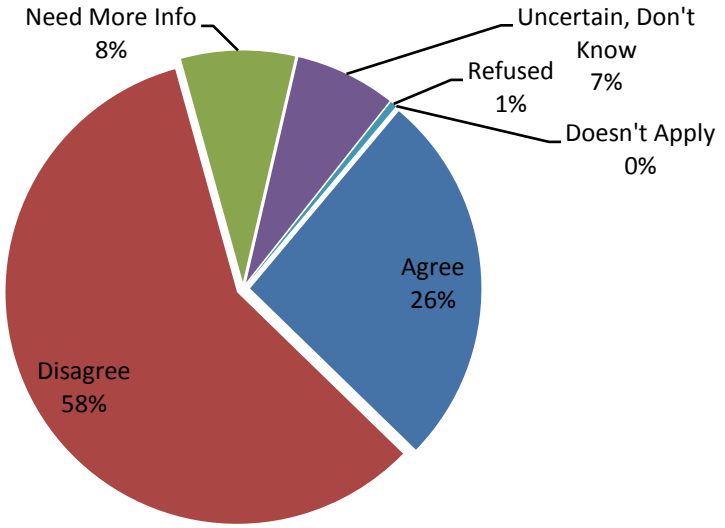
Question 2. Stormwater runoff pollution is a problem in Yakima County.



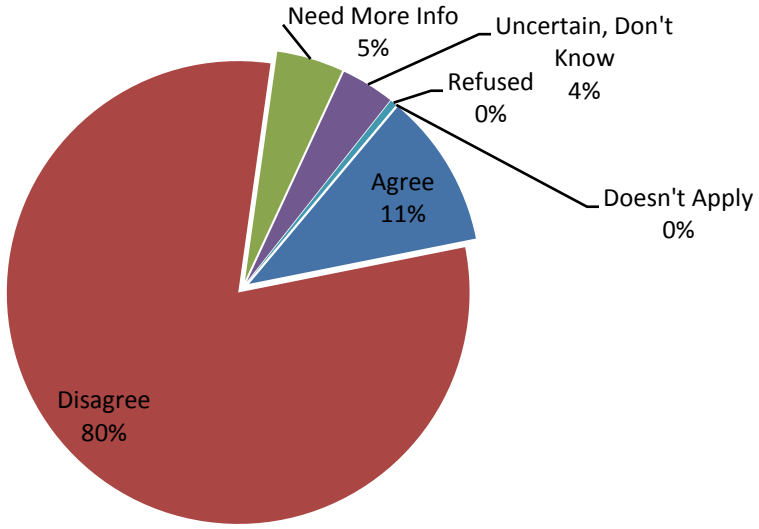
Question 3. All water going into stormwater drains on the street is treated before being discharged into the environment.



Question 4. Hard surfaces such as roads, driveways, and rooftops are not significant sources of pollution in stormwater.



Question 5. Litter, oil, and dirt on streets does not cause pollution of rivers, streams, irrigation, and drinking water.



Regional Stormwater Management Program Input 2011
March 31, 2011, 2-3pm
First Street Conference Center

Present:
Jennie McGhan, Daily Sun News
Steve Conduff, Yakima Speedway
Don Werst, Property Owner
Roger Roudebush, Canam Steel Corp
Mike Greene, Canam Steel Corp
Sue MacMichael, Property Owner
Bob Speer, Property Owner
Shelley Wilson, City of Yakima
Terry Wittmeier, Ecology
Jon Merz, Ecology
Brian Cochrane, Yakima County
Matt Durkee, Yakima County
Kelly Rae, Yakima County

Public Involvement

Brian explained that all Yakima County Stormwater Ordinances have to go through the public process. He stated that we also update the Regional Stormwater Working Group. This is currently our fourth year and today is the biggest audience we've had at a public meeting. It's a big challenge to get the community interested in a stormwater permit in a drier climate like Yakima County.

No public comment/question.

Public Education

Terry Wittmeier stated that the current public input meeting satisfies one of the permit requirements.

Terry Wittmeier said Yakima County can do more public education. He mentioned that there's a community up north that has door hangers. When the crew is doing maintenance on the system, they drop off door hangers. This is a two part form, (top half goes to resident and bottom half to crew supervisor). He explained that the results were easy to measure because the municipality was able to see a decline in pollutants disposed of in city drains. Community members were provided the information needed to report illegal dumping, as well. The address is written on both parts and the door hangers are distributed around the neighborhood when problems have been found (ie oil, gas, etc) in drainage. Terry has the form and said he will pass it on to Brian.

Brian brought up painting storm drains but stated that it is not real effective. He says there's a breakdown in getting a message to a certain group so that makes it hard to measure. We may consider a phone campaign to measure awareness of public.

Terry Wittmeier responded that there is also a grant for Eastern Washington being conducted in the Sultan area for education and outreach and that it also has a way of measuring.

Illicit Discharge

Terry Wittmeier explained that this component has tremendous success stories. Pollution has been pulled out of the water because of this program. It is doing what it was designed to do. Cross connections have been eliminated. He mentioned that sewage has been going into the river from as far back as the 1940s. Yakima City, Yakima County, Union Gap and Sunnyside should be applauded for efforts thus far. It's an ongoing process so there are still some items that need to be corrected.

Question: Is the Department of Ecology Industrial Stormwater a part of this?

Brian: No – each jurisdiction is responsible for what comes out at the end of their pipe. Municipalities have a separate ordinance.

Question: So which one rules – Ecology or County?

Brian: The City of Yakima has a permit to be responsible for.

Question: Do you use any of the results for monitoring?

Brian: No – the municipalities don't have to do that yet.

Question: Will there be one ordinance or continue to be two?

Brian: There will two ordinances – NPDES is an odd duck. Stormwater is very variable. There is some control over process (ie clean streets, etc) but not as much control as the industrial permit has. Industrial is about stormwater. Mixing the two – don't see it. Industrial and municipal are different. Some are similar.

Question: Eventually we'll have both an industrial and municipal fee?

Brian: Probably.

Construction

Terry Wittmeier reminded everyone that Yakima County has their own local manual along with the Eastern WA Manual.

Brian explained a bit about the Yakima County Manual.

Post Construction

No comments/questions

Good Housekeeping

Terry Wittmeier stated that the plan was due in February of this year.

Brian said that we turned ours in 2 years early. Need to spot check our stormwater system. Yakima – 1.24", Sunnyside – 1.2". Those are big events for Yakima County!

Monitoring & Record Keeping

Terry Wittmeier explained that Selah and Wilson Creek, Walla Walla, Spokane and Ellensburg were monitoring and that monitoring can get very expensive.

Questions/Comments

Shelley asked Brian to let the public know that we (City of Yakima, Sunnyside, Union Gap and Yakima County) don't know what's coming.

Brian said the next permit is under discussion. Monitoring is a question. LID is a big issue on Westside. Explained what an LID was to audience. Ecology and communities are having a discussion whether we need an LID.

Question: Who issues permit? Is it through the feds too?

Brian explained that it is authorized by the feds and Ecology issues permit.

Terry added that Ecology is a bit more stringent than the feds – one of the best!

Bill asked if it came from the Federal clean water act? Legislatures in WA?

Terry answered that the EPA gave us the authority to write NPDES permits.

Question: Who decided how much the assessment on individual properties?

Brian replied that assessments are different for each municipality. He told those at the meeting, that Yakima County has evaluated aerial maps and assigned each property units according to the amount of non-permeable surface area of the property. A residential property, he said, most likely would be assigned one unit and a commercial property might be assigned two units because it is two times the size of a residential property.

He said he doesn't know how the three cities assess rates for property owners, but Sunnyside has a "blue ribbon committee" looking at its method of assessment.

Non-permeable surface area is the best measurement for stormwater, Brian said, because stormwater runoff clearly does not filter through soil before reaching major water systems like the Yakima River.

Question: How many more times are you going to increase this? Is this a bottomless pit? I own two industrial properties – one increased 17% and another 110% - why? Both properties are located within the city of Yakima.

Brian suggested they talk to city of Yakima to find out how they measured and that he agreed that there shouldn't have that big of jump. Shelley informed them to contact Randy Meloy.

Bill suggested they ask about mitigations.

Comment: There is no water off Rudkin to get into drains.

Comment: Sunnyside doesn't have one yet either.

Brian said that Sunnyside is still working on theirs.

Question: Surface on commercial property – any consideration as to what the property is used for?

Brian replied no - the cost would be outrageous. Brian explained how it may be costed out. We're increasingly learning ways to infiltrate.

Question: Struggle with all the water, it all goes off surface, there is no drain, all surface to dirt. All of the oil is cleaned up or in our staging area. We have spill protection in place. No drainage – tire wear is all.

Brian said that there are exemptions/considerations: more in the system – cost per unit left in system is higher. As a utility, do you move the program cost? Fewer units and it becomes a subsidy.

Comment: This is not to pay for streets, gutters and roads. Street development is not in the program.

Brian concurred and said we're trying to keep a lid on the cost.

Question: What does gross revenue have to do with storm runoff?

Terry said if you're in excess of X amount dollars per year, your cap is XX and if your revenues are between $0 and $1,000. What else do we base it on?

Brian explained that we're all doing similar things – more or less alike. Education program looks alike. Specified through the interlocal agreement, task of permit – jointly and separately. He did note the program is available online to keep costs down. By keeping costs down, the ratepayers are not assessed as much.

A suggestion that was made to Brian regarding public outreach and education - a property owner advised him that although the stormwater program can be found online, not all citizens use computers. He suggested the program might include information that is available to individuals in some other format, such as a hard-copy document. Brian said the suggestion was something he appreciated because there may have been oversight on such a matter.

Meeting ended.

Stormwater Call Log

Printed: 2/14/2012 1:57:40 PM

ID Number: 24 **Call Received By:** Brian Cochrane **Date Received:** 3/3/2011

Complainant: Brian

Address:

City: **Phone:** **Email:**

Call Type: Illicit Discharge

Location St: Yakima Ridge Phase I **Location Area:** Terrace Heights

Incident Date: 3/3/2011 **Incident Time:**

Description/Comment: Sinlge home sites discharging sediment via trackout and rill erosion to MS4

Pollution Type: Construction Erosion

Odor:

Color:

Floatables:

Staining:

Response Date: **Jurisdiction:**

Response: Matt Durkee and John Walkenhaur inspected site, took photos. Talked to builders and they were to clean streets and catch basins by COB Friday.

Response Person:

ID Number: 25 **Call Received By:** Brian Cochrane **Date Received:** 5/19/2011

Complainant: Kelly Rae

Address: n/a

City: n/a **Phone:** **Email:** kelly.rae@co.yakima.wa.us

Call Type: Illicit Discharge

Location St: Courthouse South Parking Lot **Location Area:** Yakima

Incident Date: 5/19/2011 **Incident Time:** 15:30

Description/Comment: contractor dumped mortar mix rinse down parking lot storm drain

Pollution Type: Other

Odor:

Color:

Floatables:

Staining:

Response Date: 5/19/2011 **Jurisdiction:** Yakima County - Permit Area

Response: Alerted prime contractor and facilities project manager - met on site. Called Jason A with PS shop - will send crew first thing in the am to vactor - no rain forecast, confined system with no outlet.

Response Person:

Stormwater Call Log

Printed: 2/14/2012 1:57:40 PM

ID Number: 27 **Call Received By:** Jeff Legg **Date Received:** 12/21/2011

Complainant: Anonymous

Address:

City: **Phone:** **Email:**

Call Type: Illicit Discharge

Location St: 1002 S. 53rd Ave **Location Area:** Yakima

Incident Date: 11/28/2011 **Incident Time:** 11:00

Description/Comment: Overflow from Septic tank at rental property is plumbed into irrigation pipe that is connected to county DID drain that goes down to 40th Ave park into ponds at the park. On 11/29/2011 the City of Yakima smoke tested drain and confirmed that the irrigation pipe is connected to the County DID. On 12/21/2011 the City sent a camera down the irrigation pipe and found two pipes that enter the drain from the house. The City will take action with the property owner to connect to City sewer. Additional documents and information are located: N:\DIDs\DID 48\Illicit Connections\1002 S. 53rd Ave

Pollution Type: Sewage

Odor: Sewage

Color: Brown

Floatables:

Staining:

Response Date: 12/27/2011 **Jurisdiction:** City of Yakima

Response: On Dec. 20nd the City of Yakima sent a camera down the irrigation line and found two pipes entering the irrigation drain. Further smoke testing comfirmed that the septic tank is directly discharging into the irrigation pipe. On Dec. 21 the Health Department sent a letter to the property owners that they must apply to the City within 5 days to connect to the city sewer and connect within 30 days.

Response Person:

2011 Stormwater Issues (Wastewater Division/Pretreatment Office)

Business/Resident Name	Address	Incident/Violation	Date letter issued	Compliance Date	Corrected?
Resident	5603 Richey Rd.	Property owner was discharging pool water to City street. Owner was instructed to discharge to the clean-out instead.	Verbal notification	NA	Yes. Discharged to clean-out.
Sabi Singh, LaBodega Yakimex	511 N. 1st St.	This letter is a follow-up to our discussion on March 14, 2011 regarding the grease barrels and dumpsters located in gravel area on the North side of the Yakimex property	4/6/2011	NA	No, a 2nd violation occurred on October 11, 2011. Yakimex was issued an Administrative Order with penalty in November 2011.
Nester Hernandez Hispanic Chamber of Commerce	22 S. 3rd Ave.	Cinco de Mayo Fiesta - ERTS report that vendors were discharging grease and washwater to storm drains	AO with $250 Penalty May 19, 2011. Penalty rescinded.	NA…Scott Schafer and Chris Waarvick met with Luce and discussed an educational /outreach program to the Hispanic population in lieu of a penalty.	The Hispanic community continues to work with the City through outreach with the Hispanic community.
Apple Valley School	**Apple Valley Elementary School 7 N. 88th Avenue, Yakima, WA 98908** West Valley School District Angela Watts, Business Mngr. 8902 Zier Rd. Yakima, WA 98908 972-6006	The runoff is from the school has such volume that it is creating suspended solids that eventually overtop the ditch and run into Woodwinds west. These suspended solids are then entering the catch basins that drain to an underground injection control well. Continually exposing a drywell to fine suspended solids impacts its life-expectancy and could potentially carry pollutants that would be transmitted to the ground water in the area. The church property and the school used to both allow water to enter the roadside ditch. Now it is just the school. The road side ditch is just that – it should only have to handle water from the city street, not all the additional flow from the school.	6/1/2011	Response/action plan due June 15, 2011. Ms. Watts contacted my office by phone indicated that they were developing an action plan.Completion of project December 1, 2011. West Valley School District requested an extenion in November 2011 so that the work could be completed in the summer of 2012.	Pending. Work to be ocmpleted prior to school start-up in the summer of 2012.
Yakima Land LLC	2506 W. Nob Hill LLC 155-108th Ave. NE Suite 350 Bellvue, WA 98004	An inspection follow-up to a routine maintenance collection line cleaning preformed by Gary Hill, a Waste Water Crew leader, discovered an illicit storm water discharge from an abandoned car wash. This car wash has 7 uncovered drains that are connected to the City of Yakima collection system. The location is directly west of China Buffet and south of Red Robin off Nob Hill Blvd. This discharge enters the collection system in quarter section W18 between MH 1 and MH2. A permanent seal of concrete for the aforementioned drains is recommended.	June 1, 2011	Remove drains on property. September 1, 2011.	Pending disconnect. Working with Codes (Joe Caruso).
Graf Investments	**304 S. Prasch Avenue.** Graf Investments 410 S. 1st Street Selah, WA 98942	On May 24, 2011 City staff reported an illicit discharge of paint into the stormdrain located at 3404 W. Prasch. The storm drain in question is located adjacent to the driveway in front of Apartment B. A follow-up inspection revealed an off-white layer of a paint-like substance in the stormdrain.	June 1, 2011	Informational letter.	NA
Eisenhower School Reconstruction	702 South 40th Avenue	ERTS Report from Ecology. 'Caller states construciton runoff, muddy water was running into storm drain at location at approx. 4 PM on 6/20/11. Runoff from fill area from removal of swimming pool. Caller states there is also standing water at location.	Incident referred to Randy Meloy, City Stormwater Engineer.	The catch basins at 44th Ave. and Arlington had filter socks in them so any runoff getting into the storm drains would have been filtered first.	I (Randy Meloy) spoke with Jim Jaeger, the site Superintendent and he recalled that on June 20th the City of Yakima was flushing some water lines above them on 44th Avenue. A lot of this water would bypass the site entrances and end up at 44th and Arlington, but some of it was getting in so Mr. Jaeger went to the City crew flushing the lines and asked them to stop, and they did. He also said a small amount of the water at the intersection was from them washing down the streets next to the two construction entrances, which they do frequently to keep the streets clean.

2011 Stormwater Issues (Wastewater Division/Pretreatment Office)

Business/Resident Name	Address	Incident/Violation	Date letter issued	Compliance Date	Corrected?
Mr. Miguel Ruelas 1518 Pleasant Avenue Yakima, WA 98902	1518 Pleasant Ave.	On July 5, 2011, during routine stormwater system maintenance, City of Yakima (City) staff reported oil and grease in the stormdrain located adjacent to your property. This letter is sent as a reminder that it is illegal to discharge or cause to be discharged into the stormwater system any materials or pollutants other than stormwater. This is an illicit discharge which constitutes a violation of the City of Yakima (City) Municipal Code (YMC) in accordance with §7.85.040.	Letter issued July 13, 2011	Informational letter.	NA
2nd Street Market	131 S. 2nd St.	This letter is in regard to a citizen's report of hood and vent cleaning that occurred in the alley adjacent to 2nd Street Market, 131 S. 2nd Street. This is considered an illicit discharge because dirt, grease and cleaning chemicals will be carried to the City of Yakima stormwater system during a rain event. Such a discharge is a violation of the City of Yakima (City) Municipal Code (YMC) in accordance with §7.85.040.	Letter issued June 28, 2011.	Report due by June 15, 2011. Called on the 15th, I was not in my office. Verbal discussion on June 20th.	NA
Otis Elevator 105 N. 3rd St.	Salvation Army, 9 S. 6th Ave.	Discharging large amount of ground water from elevator shaft to 6th Avenue which caused flooding along 5th and Chestnut	Letter issued July 25, 2011.	Informational letter.	Yes, the job was completed without any additional discharges.
24th and Summitview	24th and Summitview	Terry Wittmeier and Ray Latham received a complaint regarding tree removal and excavation on 24th and Summitview. I contacted Codes and no permits were issued. The County (Jeff? Legg) was contacted and I was informed that this was in the City limits and not the county's jurisdiction. I left a voice mail message with Randy Meloy. Jeff Peters (Planning Department) will investigate.	Incident referred to City Planning.	NA	NA
Papa Murphy'sTake 'n Bake Dave Moser	64 W. Nob Hill Blvd	The illicit discharge into the City's storm drain manhole on Nob Hill between Landon 1st Avenue on the south side of the street is a group of stainless steel sinks along the west side of the Papa Murphy's Pizza. We dye tested this morning and got a positive show in the storm drain manhole from this sink drain. We had dye tested here previously at some of the plumbing fixtures and only saw dye in the sewer line. The owner probably should have the plumber verify other connections in these buildings to make sure they don't have floor drains or other improperly plumbed lines.	8/11/2011	11/11/2011	On 11/6/11, Greg Lemke, Collections, verified that the drain is connected to sewer.
Mercado Los Amigos	1409 Fruitvale Blvd.	A citizen's report of a discharge of grease into a storm drain on the property located at 1403 Fruitvale Boulevard and wash water onto the street adjacent to the Mercado Los Amigos store.	8/22/2011	Informational letter.	NA. On 8/11/11 Pretreatment personnel spoke with the Manager of Mercado Los Amigos regarding discharges to the stormdrain and wash water onto the street.
Rich Albrecht	623 S. 30th	**ERTS** report from ECY regarding hydraulic fluid on street from backhoe. **PT report:** Oil from a backhoe that had leaked hydraulic fluid onto 30th Ave about 6 days earlier. It appeared to be approximately a gallon total and was dry at the time of inspection. We also discovered a concrete color dye that was washed down the curb lane from the same address. The closest storm drain was some distance away at 2905 Bracket Ave. Rich indicated that he hired a couple of guys to clean up the garage and surrounding area. There were several bags of red colored concrete dye along with miscellaneous construction materials that were loaded into the back of a 20' truck. The bags broke on and around the back of the truck. He said he tried to wash it off the road and the water and concrete dye ended up down the street curb some 500'.	8/30/2011	Informational letter.	NA
Miguel Ruelas	1518 Pleasant	City of Yakima staff reported oil and grease in the stormdrain located adjacent to the property. The letter was a reminder to this property owner that this is an illicit discharge	7/13/2011	Informational letter.	NA

2011 Stormwater Issues (Wastewater Division/Pretreatment Office)

Business/Resident Name	Address	Incident/Violation	Date letter issued	Compliance Date	Corrected?
Healthy Home Carpet Care	111 N. Pierce Ave	Per Terry Wittmeier:This morning at about 8:35am I noticed Healthy Home carpet cleaners at Olive Garden (Yakima Ave and 3rd St) cleaning carpets with waste water from the pump in the van running down the gutter into the storm drain. I contacted Luis, the senior person on site to let him know that the discharge running down the street was an illegal discharge and to stop it. At about that time Brett Sheffield of the City was passing by and was called over to explain that the city has an ordinance against the discharge and that it was supposed to go to the wastewater sewer system. We made them vacuum up the street down to the storm drain.	9/7/2011	Administrative Order with $250 Administrative Penalty	Penalty Paid
Tyler McDonald	5001 Englewood	Sods and dirt chunks were photographted in the dith adjoining the property at 5002 Englewood.	9/9/2011	10/1/2011	Sod removed.
Gymnastics Plus	2121 W. Lincoln Avenue	Per Terry Wittmeier: A co-worker photographed this discharge of pool water from behind Gymnastics Plus down 23rd Ave and into a storm drain at about 411 23rd Ave on Saturday. 8/27/2011. This is not the first time I have heard of this being done. In one of the pictures, #0795, if you blow it up and to the right, you can see someone's legs in white pants. Pic #0796 is the back of the building. #0797 shows the flow coming out of the hose. #0798 shows the flow going into the storm drain. The co-worker didn't want to be overly obvious so they waited a while be taking this photo. #799 shows the water making to the storm drain and the corner of the building with another pipe and channel leading to the storm drain. Don't know what comes out of that pipe.	9/6/2011	Informational letter.	NA
City of Yakima Street Crew	16th and Lincoln Street	I received a call from the Department of Ecology regarding the 16th and Lincoln Street resurfacing. The caller indicated that City street crews surfaced and then sprayed the area down with a truck load of water….which then entered the stormwater system. The caller did not know whether a filter sock was used in the stormdrain.	Email regarding the incident was sent to Joe Roselund, Street Manager 8/30/11	NA	The paving crew was cooling the asphalt on the street so that traffic could be put on it sooner. I don't know what debris could have washed off the road because it was just paved; there would be no debris. We had not been placing any barriers when we have been milling pavement. This phase is the most likely to put material into a storm drain. Our process of cleanup during the milling operations minimizes the amount of material that may fall into the storm drains. I have ordered our crews to use filter fabric as an additional measure to prevent any paving materials from getting into the drains.
A-1 Pool and Patio	411 N. 36th Ave.	Discharge of pool water to City streets which ultimately leads to the stormwater conveyance system.	11/14/2011	Informational letter.	NA
Ken and Mary Baur	1511 Folsom Ave	The City was informed about the residents at 1511 Folson Ave. painting an oily substance on a retaining wall in front of their property.	11/10/2011	Informational letter.	NA
Key Bank, 102 E. Yakima Avenue,	Uncle Prestige Plastering, Jose Tellez	The City was informed that dust and debris from plaster removal from the exterior surface.	11/15/2011	Informational letter.	NA
Yakimex	N. Yakima Ave.	Yakimex continues to hose garbage from the kitchen onto the gravel which then flows onto the street and is washed into storm drains.	Administrative Order with $250 penalty	NA	A meeting will be scheduled with the Manager of Yakimex and City Wastewater regarding fines for any additional incidents of dumping/discharging outside the back door of the store.
D&H Properties	10 W. Mead	Catch basin in loading dock is connected to the City's stormwater system.	12/19/11	Action Plan due: 2/15/2012. Completion by: 6/19/2012.	PENDING

2011 Stormwater Issues (Wastewater Division/Pretreatment Office)

Business/Resident Name	Address	Incident/Violation	Date letter issued	Compliance Date	Corrected?
Buchanan Lake Follow-up					
Olive Garden	222 E Yakima Ave.	Wastewater personnel smoke tested and verified that planter boxes, a pipe at the corner of the building, and a vault marked as DID 69 near a fire exit on Yakima Avenue tested positive for connection to the City's stormwater conveyance system.	11/9/2011	2/12/2012	Pending. Work to be ocmpleted by 2/12/12.
Jack and/or Diana Rodriguez	1508 E. Beech St.	Wastewater personnel smoke tested and verified that a drain from the back yard connects to the City's stormwater convenance system and into Buchanan Lake.	Hand delivered 11/8/11	NA	City disconnected the drain (11/911)
City of Yakima Street Crew	13 E. Yakima Ave., 19 Front St., 110 N, 3rd St., 414 N. 3rd St.	Four private parking lot storm drains were verified to be connected to the City of Yakima's storm system. Pretreatment sent Informational letters to the businesses within 200 feet of each of these parking lots and a Stormwater Informational Brochure.	November 17, 201	NA	NA

2011 Stormwater Outreach Information

Target Group	Fliers/Brochures	Outreach Date	Outreach Method
Swimming Pool vendors/chemical sales	*Focus on Do's and Don'ts of Draining your Pool*	Sep-11	Informational letter.
Yakima area restaurants	*Stormwater Best Management Practices (BMPs) For Restaurants*	Nov-11	Submitted during restaurant inspections/correspondence. Handouts available with Stormwater Informational Display at City Hall
Automotive Repair facilities	*We Keep it Clean Using the 4Cs*	Nov-11	Submitted during Automotive facility inspections/correspondence. Handouts available with Stormwater Informational Display at City Hall
Yakima area residents	*Stormwater Flier*	Dec-11	Included flier in City of Yakima Utility bills.

Regional Stormwater Mapping Summary 2011

Yakima County

The focus of mapping in 2011 was on the Gleed DIDs and roadside ditches including irrigation tailwater connections since all of the curb and gutter and urban DIDs have been mapped previously.

Stormwater Facilities
Inspected, collected GPS data for, and/or digitized a total of 843 stormwater related point features. This is ~29% of all known county owned facilities and connected facilities owned by others.

Added or edited a total of 1693 pipe, ditch, natural dispersion, and other related line segments totaling 268 miles. Of this natural dispersion made up 166 miles (62%).The total added for this year is ~50% of the all known line segments of county owned facilities and connected facilities owned by others.

Collected and input applicable attribute data for inspected facilities and pipes from field inspections, other sources such as related GIS shapefiles, or GIS software calculations.

Drainage Improvement Districts (DIDs)

Inspected and collected GPS data for 72 stormwater related facilities located along 7.3 miles of DID main line pipe and ditch primarily in DIDs 34, 44, and 46.

Added or edited ~87 pipe and ditch segments (7.3 miles).

City of Yakima

Most mapping had been completed in previous years, although some additional points and lines were added to GIS shapefiles.

Inspected, cleaned, and collected GPS data for 296 stormwater facility points (4% of all known facilities).

Added 744 line segments to existing data (12.5% of all known pipe segments).

Collected and input attribute data for many of these and previously mapped facilities and pipe segments including facility type, survey date, connected receiving facility, physical address, pipe type/ownership, and pipe diameter.

Collected invert elevation data for pipe connections.

City of Sunnyside

Collected GPS data for 204 stormwater facility points and added to existing data (16% of total).

Added 241 line segments to existing data (30% of all known line segments).

CAD data was converted to GIS by the Yakima County GIS Dept.

City of Union Gap

Contracted with a consultant to GPS stormwater facilities that were previously digitized and to identify additional facilities missing from existing maps.

Collected GPS data for 1097 stormwater facility points adding an additional 623 points features to existing mapping (57% of total). Added ID numbers to attribute table.

Photographs and detailed connection data was collected for 144 of these points.

Yakima County Treatment & Flow Control Inspections 2007-2011

ID	FACILITY	LATITUDE	LONGITUDE	REC_WATER	SIZE
Drainage Improvement Districts (DIDs)					
DID 4 Outfall	DID Outfall	46.56790	-120.52300	Wide Hollow Creek	
DID 13 Outfall	DID Outfall	46.56770	-120.47200	Spring Creek East (Union Gap)	
DID 24 Outfall (Lat. L-1)	DID Outfall	46.56350	-120.51600	Wide Hollow Creek	18
DID 24 Outfall (Lat. L-2)	DID Outfall	46.55940	-120.50900	Wide Hollow Creek	20
DID 29 Outfall	DID Outfall	46.60350	-120.53600	PP&L Canal (to Yakima River)	
DID 38 Outfall	DID Outfall	46.58350	-120.59400	Wide Hollow Creek	
DID 39 Outfall (Main Line)	DID Outfall	46.60580	-120.53200	PP&L Canal (to Yakima River)	
DID 39 Outfall (Lat. C)	DID Outfall	46.61080	-120.52000	PP&L Canal (to Yakima River)	30?
DID 40 Outfall	DID Outfall	46.57970	-120.55900	Wide Hollow Creek	24
DID 41 Outfall	DID Outfall	46.56740	-120.58400	Unnamed Ditch (to Spring Cr. West)	18
DID 44 Outfall	DID Outfall	46.64450	-120.59400	Buckskin Slough	NA
DID 48 Outfall (Lat. 1)	DID Outfall	46.58470	-120.57300	Unnamed Ditch (to Wide Hollow Creek)	15 (2)
DID 48 Outfall (Lat. 5)	DID Outfall	46.58350	-120.59400	Wide Hollow Creek	21
Curb and Gutter Pipe MS4					
OF-1	Outfall	46.60590	-120.47400	Yakima River	12
OF-2	Outfall	46.60570	-120.47400	Yakima River	12
OF-160-Overflow (In MH)	Outfall	46.59620	-120.45300	Unnamed Stream (to Moxee Drain)	0
OF-935-Overflow	Outfall	46.62680	-120.58100	Cowiche Creek	12
OF-937 (CB Up)	Outfall	46.62570	-120.58300	Cowiche Creek	0
IP-160	Infiltration Pond	46.59630	-120.45300		
IP-935	Infiltration Pond	46.62660	-120.58100		

ID	FACILITY	LATITUDE	LONGITUDE	REC_WATER	SIZE
Roadside Ditch MS4					
OFD-228	Outfall (Ditch)	46.58180	-120.63600	Wide Hollow Creek	0
OFDC-944	Outfall (Ditch Culvert)	46.58750	-120.71000	Wide Hollow Creek	12
OFD-946-Not Defined	Outfall (Ditch)	46.58930	-120.70300	Wide Hollow Creek	0
OFD-947	Outfall (Ditch)	46.58580	-120.68700	Wide Hollow Creek	0
OFD-949	Outfall (Ditch)	46.58380	-120.66700	Wide Hollow Creek	0
OFD-950-Not Defined	Outfall (Ditch)	46.57990	-120.64600	Wide Hollow Creek	0
OFDC-951	Outfall (Ditch Culvert)	46.58210	-120.63000	Wide Hollow Creek	15
OFD-953	Outfall (Ditch)	46.58210	-120.62600	Wide Hollow Creek	0
OFD-952-Not Defined	Outfall (Ditch)	46.58220	-120.62700	Wide Hollow Creek	0
OFDC-939	Outfall (Ditch Culvert)	46.59310	-120.64400	Shaw Creek	18
OFD-911	Outfall (Ditch)	46.59650	-120.65200	Shaw Creek	0
OFD-909-Not Defined	Outfall (Ditch)	46.59670	-120.65100	Shaw Creek	0
OFD-818	Outfall (Ditch)	46.63320	-120.58700	Spring Creek (Gleed)	0
OFD-817-Not Defined	Outfall (Ditch)	46.64370	-120.59000	Buckskin Slough	0
OFD-816	Outfall (Ditch)	46.65080	-120.59700	Buckskin Slough	0
OFDC-975	Outfall (Ditch Culvert)	46.54840	-120.61300	Hatton Creek	12
OFD-976-Not Defined	Outfall (Ditch)	46.54840	-120.61300	Hatton Creek	0
OFD-961-Not Defined	Outfall (Ditch)	46.55420	-120.61500	Bachelor Creek	0
OFD-963-Not Defined	Outfall (Ditch)	46.55410	-120.61500	Bachelor Creek	0
OFD-965	Outfall (Ditch)	46.55410	-120.61400	Bachelor Creek	0
OFD-964	Outfall (Ditch)	46.55420	-120.61400	Bachelor Creek	0
OFD-966	Outfall (Ditch)	46.55470	-120.60800	Bachelor Creek	0
OFD-967	Outfall (Ditch)	46.55550	-120.59200	Bachelor Creek	0
OFDC-971	Outfall (Ditch Culvert)	46.55670	-120.56500	Bachelor Creek	12
OFDC-970	Outfall (Ditch Culvert)	46.55690	-120.56500	Bachelor Creek	12
OFDC-977	Outfall (Ditch Culvert)	46.55150	-120.55400	Ahtanum Creek	24
OFDC-972	Outfall (Ditch Culvert)	46.55810	-120.56100	Bachelor Creek	15
OFD-978	Outfall (Ditch)	46.55180	-120.52800	Ahtanum Creek	0
OFDC-550	Outfall (Ditch Culvert)	46.58450	-120.44400	Unnamed Stream	24
OFDC-Missing	Outfall (Ditch Culvert)	46.61790	-120.59100	Cowiche Creek	12

ID	FACILITY	LATITUDE	LONGITUDE	REC_WATER	SIZE
Roadside Ditch MS4					
OFD-910	Outfall (Ditch)	46.59310	-120.64100	Shaw Creek	0
OFD-980-Not Defined	Outfall (Ditch)	46.55720	-120.56500	Bachelor Creek	0
OFD-981-Not Defined	Outfall (Ditch)	46.55780	-120.56100	Bachelor Creek	0

ID	CONDITION	GPS_DATE	LAST_INSP
Drainage Improvement Districts (DIDs)			
DID 4 Outfall		3/13/2009	3/13/2009
DID 13 Outfall		7/23/2009	7/23/2009
DID 24 Outfall (Lat. L-1)		7/17/2009	3/12/2012
DID 24 Outfall (Lat. L-2)		7/18/2009	3/12/2012
DID 29 Outfall			
DID 38 Outfall		8/11/2009	3/7/2012
DID 39 Outfall (Main Line)			
DID 39 Outfall (Lat. C)		8/3/2009	8/3/2009
DID 40 Outfall		6/25/2010	3/7/2012
DID 41 Outfall		12/14/2009	12/14/2009
DID 44 Outfall		10/6/2010	6/7/2011
DID 48 Outfall (Lat. 1)		8/18/2009	8/18/2009
DID 48 Outfall (Lat. 5)		8/11/2009	3/7/2012
Curb and Gutter Pipe MS4			
OF-1	Good	6/19/2006	7/30/2010
OF-2	Good	6/19/2006	7/30/2010
OF-160-Overflow (In MH)		1/25/2011	1/25/2011
OF-935-Overflow		7/19/2011	7/19/2011
OF-937 (CB Up)		7/19/2011	7/19/2011
IP-160			1/25/2011
IP-935			7/19/2011

ID	CONDITION	GPS_DATE	LAST_INSP
Roadside Ditch MS4			
OFD-228			7/21/2011
OFDC-944	Need Cleaning	10/5/2010	7/21/2011
OFD-946-Not Defined		10/5/2010	7/21/2011
OFD-947		10/5/2010	7/21/2011
OFD-949		10/5/2010	7/21/2011
OFD-950-Not Defined		10/5/2010	7/21/2011
OFDC-951	Good	10/5/2010	7/21/2011
OFD-953		10/5/2010	7/21/2011
OFD-952-Not Defined		10/5/2010	7/21/2011
OFDC-939	Good	10/6/2010	7/21/2011
OFD-911	Need Cleaning	10/12/2010	7/21/2011
OFD-909-Not Defined		10/12/2010	7/21/2011
OFD-818		10/12/2010	7/5/2011
OFD-817-Not Defined		10/12/2010	7/11/2011
OFD-816		10/12/2010	7/15/2011
OFDC-975		10/15/2010	7/22/2011
OFD-976-Not Defined		10/15/2010	7/22/2011
OFD-961-Not Defined		10/15/2010	7/22/2011
OFD-963-Not Defined		10/15/2010	7/22/2011
OFD-965		10/15/2010	7/22/2011
OFD-964		10/15/2010	7/22/2011
OFD-966		10/15/2010	7/22/2011
OFD-967		10/15/2010	7/22/2011
OFDC-971		10/15/2010	7/22/2011
OFDC-970	Need Cleaning	10/15/2010	7/22/2011
OFDC-977	Good	10/15/2010	7/22/2011
OFDC-972	Need Cleaning	10/15/2010	7/22/2011
OFD-978		10/15/2010	7/25/2011
OFDC-550		10/15/2010	7/27/2011
OFDC-Missing		7/19/2011	

ID	CONDITION	GPS_DATE	LAST_INSP
Roadside Ditch MS4			
OFD-910		7/21/2011	7/21/2011
OFD-980-Not Defined		7/22/2011	7/22/2011
OFD-981-Not Defined		7/22/2011	7/22/2011

ID	COMMENTS
Drainage Improvement Districts (DIDs)	
DID 4 Outfall	Wide Hollow Creek, ?", Submerged. need size, material, and shape
DID 13 Outfall	Spring Creek East, covered by vegetation
DID 24 Outfall (Lat. L-1)	Submerged
DID 24 Outfall (Lat. L-2)	Submerged
DID 29 Outfall	Digitized. Outfall east of N. 20th Ave. and W. Lincoln Ave. under roadway into PP&L Canal.
DID 38 Outfall	Under Bridge #339, need size and material
DID 39 Outfall (Main Line)	Subsurface. Digitized from cut sheets. Smoke from nearby MH, no Smoke to NE.
DID 39 Outfall (Lat. C)	Concrete, No Access, locked gate. Canal to Yakima River.
DID 40 Outfall	
DID 41 Outfall	PVC, Partially Submerged. Ditch to Spring Cr. West (south of airport).
DID 44 Outfall	
DID 48 Outfall (Lat. 1)	Severe overgrowth, double pipe
DID 48 Outfall (Lat. 5)	CMP, Under Bridge #339
Curb and Gutter Pipe MS4	
OF-1	CMP. Approx. 50' above river.
OF-2	CMP. Approx. 50' above river.
OF-160-Overflow (In MH)	Overflow to MH for irrigation tailwater return(?), then to unnamed stream to Moxee Drain.
OF-935-Overflow	Overflow from infiltration pond. Overland flow before Cowiche Creek.
OF-937 (CB Up)	Catch Basin up. Directly to Cowiche Creek (very short overland flow).
IP-160	Overflow to MH for irrigation tailwater return(?), then to unnamed stream to Moxee Drain.
IP-935	Overflow to Cowiche Creek

ID	COMMENTS
Roadside Ditch MS4	
OFD-228	Swale/ditch from CBs to Wide Hollow Cr.
OFDC-944	Conc. culv from ditch. Outfall in permit area, but all runoff received from outside permit area.
OFD-946-Not Defined	Brushy; undefined outfall.
OFD-947	Low ridge of sediment between ditch and creek.
OFD-949	Flow may not be able to get around road corner located to north.
OFD-950-Not Defined	Ditch & outfall undefined.
OFDC-951	15" Duct iron? Submerged.
OFD-953	
OFD-952-Not Defined	Ditch and outfall undefined.
OFDC-939	CMP. To Shaw Creek/ roadside ditch.
OFD-911	Ditch filled for field access; deflects water into field before Shaw Creek.
OFD-909-Not Defined	Ditch undefined at Shaw Creek; more defined above.
OFD-818	"Spring Creek" actually a creek? Source?
OFD-817-Not Defined	Ditch filled in multiple locations; undefined at outfall.
OFD-816	Ditch filled multiple locations to west. Some flow from ditch.
OFDC-975	CMP from ditch.
OFD-976-Not Defined	Undefined.
OFD-961-Not Defined	Solid fence blocking flow.
OFD-963-Not Defined	Solid fence blocking flow.
OFD-965	
OFD-964	
OFD-966	
OFD-967	Brushy.
OFDC-971	Conc pipe from ditch.
OFDC-970	Conc culvert from ditch. Brushy.
OFDC-977	CMP onto riprap. Stormwater and flooding overflow.
OFDC-972	CMP from ditch. Angle from ditch.
OFD-978	Creek backed up ditch.
OFDC-550	Conc. under train tracks. Very short roadside ditch; more for overland flow?
OFDC-Missing	Missing; exists? City of Yakima stormwater only? System needs cleaning to function.

ID	COMMENTS
Roadside Ditch MS4	
OFD-910	
OFD-980-Not Defined	Not defined before entering Bachelor Cr.
OFD-981-Not Defined	Not defined. Most flow would naturally disperse before outfall.

City of Union Gap Outfalls

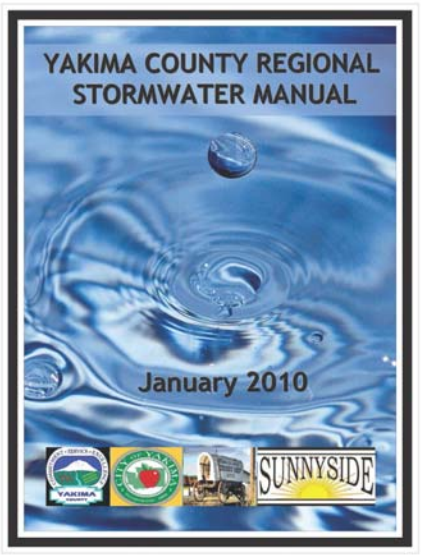
HLA_Pnt_No	Structure_	Latitude	Longitude	Rim_Elev	Structure1
291.000000	E4-23	46 33'27.94288"N	120 29'32.38455"W	992.340000	OUTFALL
292.000000	E4-16	46 33'26.88240"N	120 29'29.62765"W	990.186000	OUTFALL
294.000000	E4-14	46 33'26.62494"N	120 29'29.99944"W	987.100000	OUTFALL
295.000000	E4-15	46 33'26.98478"N	120 29'33.98870"W	989.984000	OUTFALL
304.000000	E4-34	46 33'27.14796"N	120 29'40.09070"W	991.943000	OUTFALL
308.000000	E4-38	46 33'28.12448"N	120 29'40.07034"W	993.421000	OUTFALL
310.000000	E5-7	46 33'28.17907"N	120 29'43.16631"W	994.536000	OUTFALL
315.000000	E5-1	46 33'27.20916"N	120 29'43.21685"W	992.414000	OUTFALL
317.000000	E5-8	46 33'27.28754"N	120 29'46.36430"W	993.388000	OUTFALL
321.000000	E4-7	46 33'26.39134"N	120 29'26.65521"W	987.344000	OUTFALL
322.000000	E4-8	46 33'26.38812"N	120 29'26.69638"W	987.403000	OUTFALL
325.000000	E4-12	46 33'27.77628"N	120 29'27.86971"W	990.978000	OUTFALL
329.000000	E5-15	46 33'27.42753"N	120 29'51.15402"W	994.963000	OUTFALL
335.000000	E5-19	46 33'28.41859"N	120 29'51.60904"W	995.083000	OUTFALL
338.000000	E5-22	46 33'27.52742"N	120 29'54.29959"W	996.685000	OUTFALL
340.000000	E5-29	46 33'27.61020"N	120 29'57.65515"W	998.585000	OUTFALL
348.000000	E5-34	46 33'27.69648"N	120 30'00.93618"W	1000.776000	OUTFALL
350.000000	E5-39	46 33'27.77080"N	120 30'04.22360"W	1002.159000	OUTFALL
361.000000	E5-41	46 33'28.20476"N	120 30'11.13358"W	0.000000	OUTFALL
376.000000	E6-13	46 33'29.19260"N	120 30'35.86097"W	1012.018000	OUTFALL
382.000000	E6-19	46 33'29.43580"N	120 30'43.75963"W	1013.458000	OUTFALL
385.000000	E7-4	46 33'29.53921"N	120 30'48.21938"W	1014.708000	OUTFALL
387.000000	E7-5	46 33'28.82321"N	120 30'52.37910"W	1011.710000	OUTFALL
389.000000	E7-6	46 33'28.36940"N	120 31'06.80993"W	1018.289000	OUTFALL
499.000000	D7-35	46 33'50.98953"N	120 31'02.78759"W	1026.683000	OUTFALL
511.000000	D6-43	46 33'47.76431"N	120 30'40.51344"W	1016.944000	OUTFALL
514.000000	D6-46	46 33'47.73344"N	120 30'36.53512"W	1014.599000	OUTFALL
531.000000	D7-7	46 33'49.32985"N	120 30'52.36293"W	1023.696000	OUTFALL
538.000000	D7-15	46 33'53.78966"N	120 31'10.13001"W	1027.973000	OUTFALL
582.000000	D5-23	46 33'46.83817"N	120 30'06.97832"W	1006.101000	OUTFALL
583.000000	D5-24	46 33'46.84198"N	120 30'07.98479"W	1007.796000	OUTFALL

HLA_Pnt_No	Structure_	Latitude	Longitude	Rim_Elev	Structure1
584.000000	D5-25	46 33'45.34848"N	120 30'08.07880"W	1007.875000	OUTFALL
586.000000	D5-27	46 33'45.37386"N	120 30'06.93621"W	1007.062000	OUTFALL
587.000000	D5-28	46 33'42.37006"N	120 30'07.03909"W	1005.828000	OUTFALL
589.000000	D5-30	46 33'42.28100"N	120 30'07.97936"W	1007.450000	OUTFALL
599.000000	D5-42	46 33'47.38281"N	120 29'55.89951"W	1006.296000	OUTFALL
600.000000	D5-43	46 33'47.35056"N	120 29'53.74525"W	1004.629000	OUTFALL
603.000000	D5-46	46 33'47.31660"N	120 29'51.60170"W	1003.103000	OUTFALL
604.000000	D5-47	46 33'47.29959"N	120 29'50.34400"W	1002.229000	OUTFALL
608.000000	D5-51	46 33'47.27218"N	120 29'49.07543"W	1001.678000	OUTFALL
611.000000	D5-54	46 33'47.25395"N	120 29'48.24245"W	1001.842000	OUTFALL
624.000000	D5-59	46 33'46.91985"N	120 29'46.11968"W	998.825000	OUTFALL
733.000000	E5-45	46 33'28.86773"N	120 29'46.83034"W	993.657000	OUTFALL
736.000000	E5-48	46 33'29.01450"N	120 29'47.73479"W	994.181000	OUTFALL
738.000000	E5-51	46 33'32.10901"N	120 29'46.80606"W	994.717000	OUTFALL
741.000000	E5-54	46 33'34.22657"N	120 29'47.66274"W	995.177000	OUTFALL
744.000000	E5-57	46 33'35.08248"N	120 29'46.76845"W	995.341000	OUTFALL
747.000000	E5-60	46 33'36.94030"N	120 29'47.63718"W	995.930000	OUTFALL
750.000000	E5-63	46 33'38.03597"N	120 29'46.74889"W	996.376000	OUTFALL
752.000000	E5-65	46 33'39.51459"N	120 29'47.61536"W	996.562000	OUTFALL
754.000000	E5-67	46 33'40.83520"N	120 29'46.73041"W	997.324000	OUTFALL
757.000000	D5-63	46 33'41.83733"N	120 29'47.68632"W	997.256000	OUTFALL
758.000000	D5-64	46 33'41.83106"N	120 29'47.65516"W	997.685000	OUTFALL
759.000000	D5-65	46 33'42.12203"N	120 29'47.59828"W	997.775000	OUTFALL
761.000000	D5-67	46 33'43.83875"N	120 29'47.86751"W	997.500000	OUTFALL
766.000000	D5-72	46 33'44.51260"N	120 29'46.07388"W	998.145000	OUTFALL
769.000000	D5-75	46 33'48.97848"N	120 29'46.06778"W	998.992000	OUTFALL
770.000000	D5-76	46 33'49.03968"N	120 29'47.06498"W	998.560000	OUTFALL
773.000000	D5-79	46 33'50.67888"N	120 29'46.83122"W	1000.343000	OUTFALL
775.000000	D5-81	46 33'51.71528"N	120 29'45.73976"W	1000.729000	OUTFALL
1106.000000	D2-23	46 33'48.22883"N	120 28'24.69395"W	983.022000	OUTFALL
1115.000000	D2-36	46 33'49.47037"N	120 28'23.32114"W	982.895000	OUTFALL
1116.000000	D2-35	46 33'49.64860"N	120 28'22.53337"W	983.088000	OUTFALL
1125.000000	D2-45	46 33'46.34364"N	120 28'25.47596"W	983.460000	OUTFALL

HLA_Pnt_No	Structure_	Latitude	Longitude	Rim_Elev	Structure1
1160.000000	C2-17	46 33'59.92426"N	120 28'18.65201"W	980.200000	OUTFALL
1161.000000	H2-16	46 32'37.72552"N	120 28'30.61153"W	952.300000	OUTFALL
1162.000000	H2-17	46 32'37.74182"N	120 28'30.26174"W	956.264000	OUTFALL
1163.000000	H2-18	46 32'40.18220"N	120 28'30.86396"W	950.867000	OUTFALL
1164.000000	G2-50	46 32'47.74493"N	120 28'29.48303"W	960.095000	OUTFALL
1165.000000	H2-19	46 32'46.50842"N	120 28'29.52818"W	956.538000	OUTFALL
1166.000000	G2-51	46 32'53.53703"N	120 28'19.57011"W	955.100000	OUTFALL
1167.000000	F2-47	46 33'17.26078"N	120 28'22.00723"W	965.316000	OUTFALL
1168.000000	E2-36	46 33'25.06186"N	120 28'18.28035"W	964.700000	OUTFALL
1169.000000	E2-37	46 33'25.31848"N	120 28'18.52842"W	969.547000	OUTFALL

Stormwater Plan Review

Using the Yakima Regional Stormwater Manual & Co-permittee Criteria



Stormwater Review

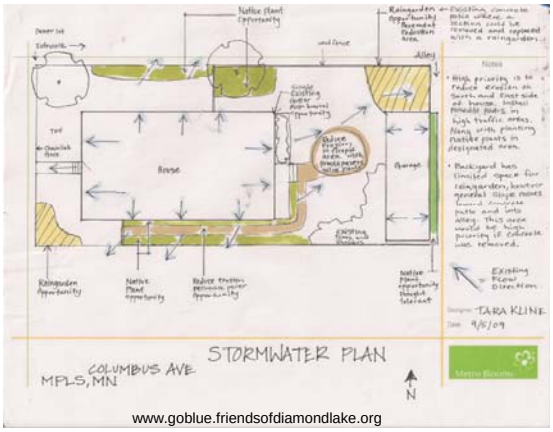
Pre-project (what's required?)

Completeness (does the jurisdiction have enough information?)

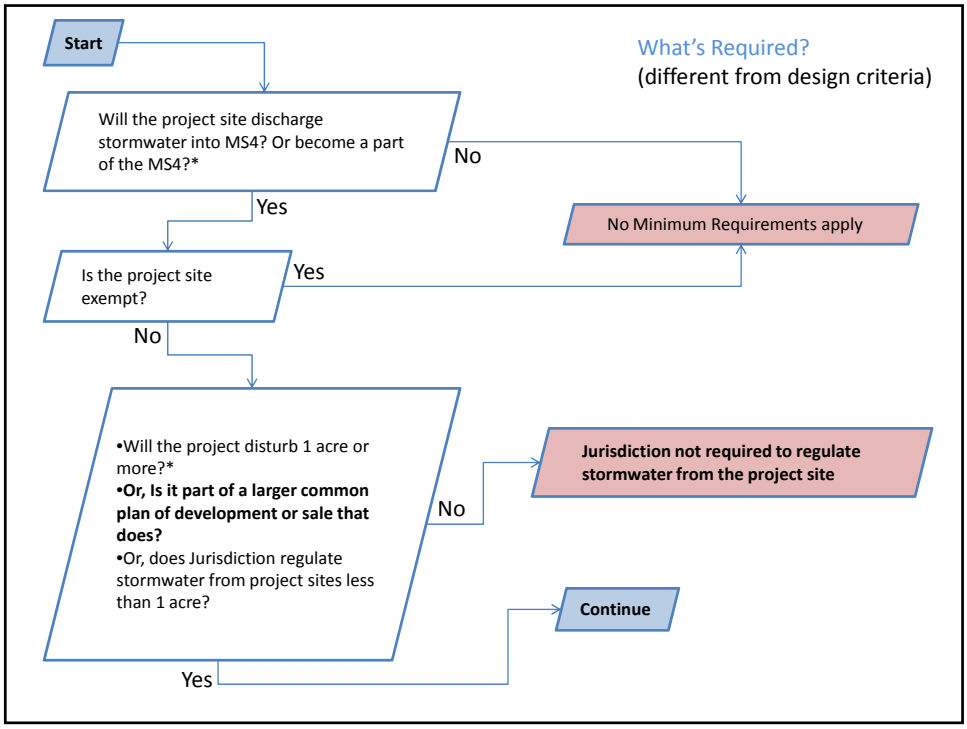
Technical review (too small?)

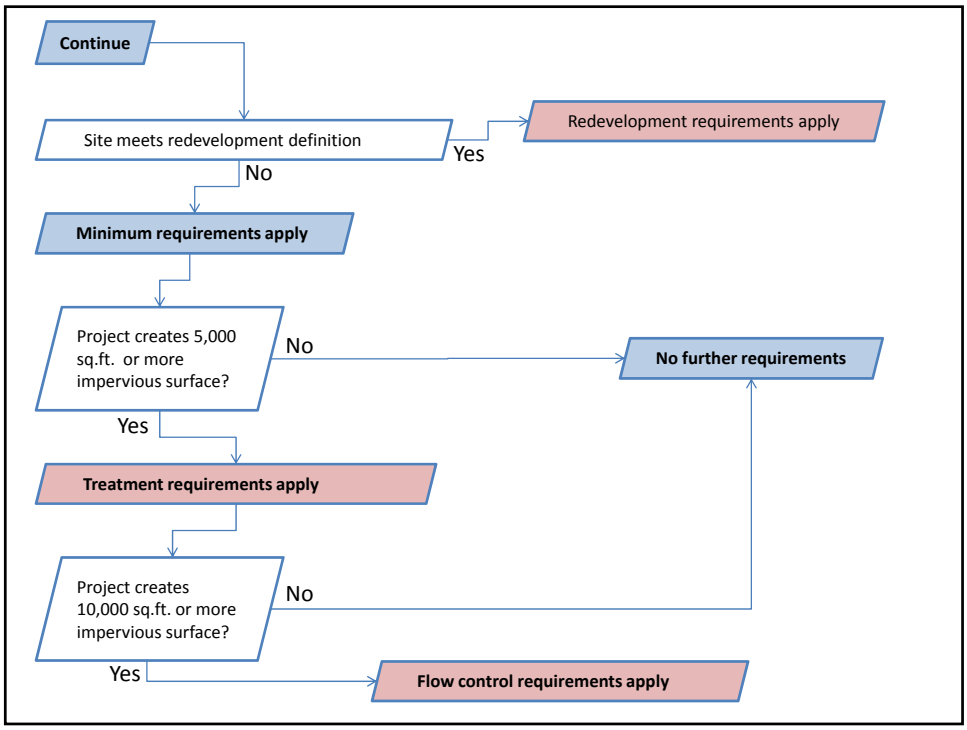
Finalize review and follow-up (built as designed?)

O&M (who will maintain?)



www.goblue.friendsofdiamondlake.org


What's Required?
(different from design criteria)
Start
Will the project site discharge stormwater into MS4? Or become a part of the MS4?*
No
Yes
No Minimum Requirements apply
Is the project site exempt?
Yes
No
•Will the project disturb 1 acre or more?*
•Or, Is it part of a larger common plan of development or sale that does?
•Or, does Jurisdiction regulate stormwater from project sites less than 1 acre?
No
Jurisdiction not required to regulate stormwater from the project site
Continue
Yes


Continue
Site meets redevelopment definition
Yes
Redevelopment requirements apply
No
Minimum requirements apply
Project creates 5,000 sq.ft. or more impervious surface?
No
No further requirements
Yes
Treatment requirements apply
Project creates 10,000 sq.ft. or more impervious surface?
No
Yes
Flow control requirements apply

Core elements

Minimum requirements

1. Preparation of a Stormwater Site Plan
2. Construction Stormwater Pollution Prevention Plan
3. Source Control of Pollutants
4. Preservation of Natural Drainage Systems
8. Conveyance Systems

Treatment requirements

5. Runoff Treatment
7. Operation & Maintenance

Flow control requirements

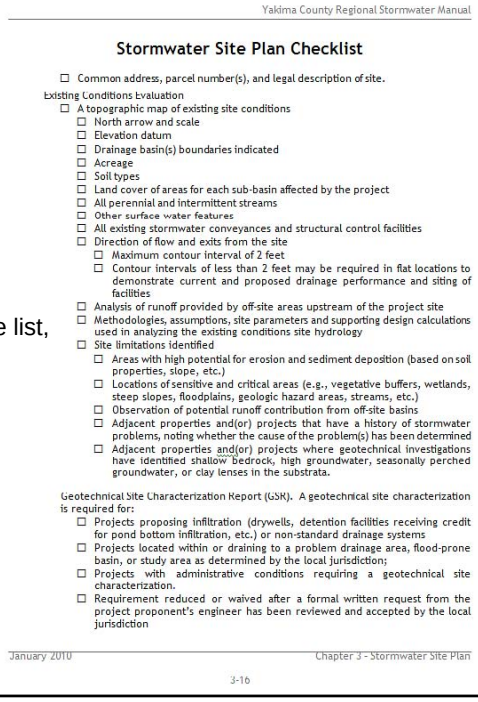
6. Flow Control
7. Operation & Maintenance

Completeness

Use the checklist, as a guide,

Not every plan needs everything on the list,

Be from Missouri – i.e: “Show Me”



Yakima County Regional Stormwater Manual

Stormwater Site Plan Checklist

- ☐ Common address, parcel number(s), and legal description of site.

Existing Conditions Evaluation

- ☐ A topographic map of existing site conditions
  - ☐ North arrow and scale
  - ☐ Elevation datum
  - ☐ Drainage basin(s) boundaries indicated
  - ☐ Acreage
  - ☐ Soil types
  - ☐ Land cover of areas for each sub-basin affected by the project
  - ☐ All perennial and intermittent streams
  - ☐ Other surface water features
  - ☐ All existing stormwater conveyances and structural control facilities
  - ☐ Direction of flow and exits from the site
    - ☐ Maximum contour interval of 2 feet
    - ☐ Contour intervals of less than 2 feet may be required in flat locations to demonstrate current and proposed drainage performance and siting of facilities
  - ☐ Analysis of runoff provided by off-site areas upstream of the project site
  - ☐ Methodologies, assumptions, site parameters and supporting design calculations used in analyzing the existing conditions site hydrology
  - ☐ Site limitations identified
    - ☐ Areas with high potential for erosion and sediment deposition (based on soil properties, slope, etc.)
    - ☐ Locations of sensitive and critical areas (e.g., vegetative buffers, wetlands, steep slopes, floodplains, geologic hazard areas, streams, etc.)
    - ☐ Observation of potential runoff contribution from off-site basins
    - ☐ Adjacent properties and(or) projects that have a history of stormwater problems, noting whether the cause of the problem(s) has been determined
    - ☐ Adjacent properties and(or) projects where geotechnical investigations have identified shallow bedrock, high groundwater, seasonally perched groundwater, or clay lenses in the substrata.

Geotechnical Site Characterization Report (GSR). A geotechnical site characterization is required for:

- ☐ Projects proposing infiltration (drywells, detention facilities receiving credit for pond bottom infiltration, etc.) or non-standard drainage systems
- ☐ Projects located within or draining to a problem drainage area, flood-prone basin, or study area as determined by the local jurisdiction;
- ☐ Projects with administrative conditions requiring a geotechnical site characterization.
- ☐ Requirement reduced or waived after a formal written request from the project proponent's engineer has been reviewed and accepted by the local jurisdiction

January 2010 Chapter 3 - Stormwater Site Plan

3-16

Technical Review

1. Preparation of a Stormwater Site Plan

Really depends on the site and the project

In general:

- Existing conditions
- Permanent plan
- Construction SWPPP
- Maintenance plan

Core Element #1:
Preparation of a Stormwater Site Plan
- Existing conditions

Maps – should show all site limitations, areas, soils, surface & ground waters, zoning and other information used in design

•2-foot contours maximum, may need smaller for flat sites

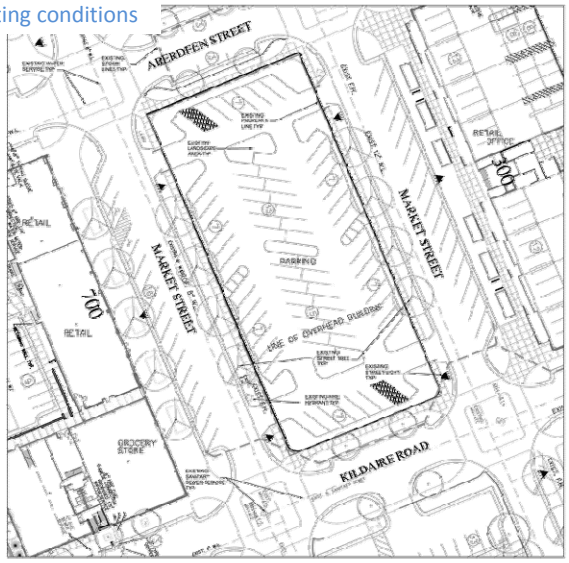
Site limitations –

• High potential for erosion and sediment deposition
• Locations of sensitive and critical areas
• Observation of potential runoff contribution from off-site basins;
• Adjacent properties that have a history of stormwater problems
• Adjacent properties with identified shallow bedrock, high groundwater, seasonally perched groundwater, or clay lenses in the substrata.
• Upland drainage areas

Geotechnical Site Characteristic Report (GSR) if applicable

• Projects proposing infiltration
• Projects located within or draining to a problem drainage area, flood-prone basin, or study area
• Projects located in geohazard areas
• Projects with administrative conditions (SEPA) requiring a GSR.

Stormwater Site Plan - Existing conditions



Contours?

Site Limits?

Soils?

Upland drainage?

EXISTING CONDITIONS

What does this example have?
What's missing?

Core Element #1: Preparation of a Stormwater Site Plan - Existing conditions

http://www.ottawa.ca/residents/planning/community_plans/completed/east_urban/pdf/figure_07_en.pdf

Core Element #1: Preparation of a Stormwater Site Plan - Permanent Plan

1) Drainage Report
- Map
- Existing drainage
- Calculations for proposed facilities

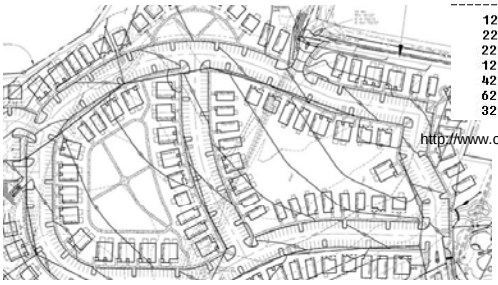
2) Construction plans
- Elevations and hydraulic grade lines
- Invert elevations of pipes at all structures
- Construction details
- Checklist 3A

TABLE OF CONTENTS

3) Post-construction Downstream Analysis
- Projects that propose to discharge stormwater offsite or have a bypass.

Core Element #1: Preparation of a Stormwater Site Plan - Permanent Plan
1) Drainage Report

- Map
- Existing drainage
- Calculations for proposed facilities



http://www.gaplanning.com/services/utility-design

SUMMARY STATISTICS FOR CHANNEL/PIPES

CHANNEL NUMBER	FULL FLOW (CFS)	FULL DEPTH (FT)	MAXIMUM COMPUTED INFLOW (CFS)	MAXIMUM COMPUTED OUTFLOW (CFS)	MAXIMUM COMPUTED DEPTH (FT)
1205	30.95	2.00	5.23	5.21	0.54
2205	30.95	2.00	4.11	4.10	0.46
2209	30.95	2.00	6.64	6.64	0.64
1209	30.95	2.00	7.86	7.86	0.72
4205	30.95	2.00	16.22	16.20	1.22
6209	30.95	2.00	9.90	9.90	0.85
3209	30.95	2.00	21.23	21.23	1.50

http://www.crwr.utexas.edu/gis/gishydro01/data/swmm/swmm_project.htm

Hydrology/hydraulics

Most importantly, is the BMP or system sized:
Too big?
About right?
Too small? This is the case we really care about.

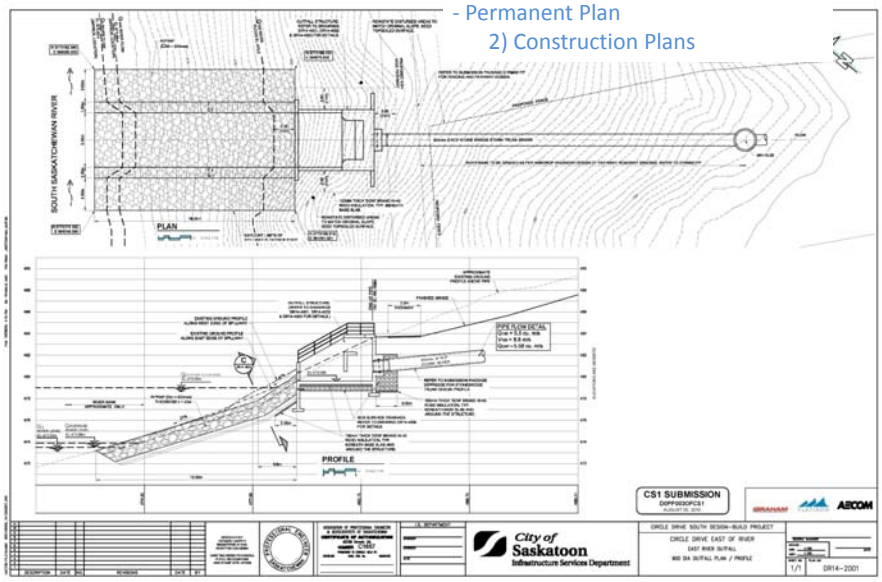
Rules of thumb?

http://commons.wikimedia.org

Is the method appropriate for:
The number of basins?
The size of the basins?
The land use?
Whether flow or volume (or both) is required?

Can you, the reviewer, follow the flow of the calculations and would you come up with the same answer?

Core Element #1:
Preparation of a Stormwater Site Plan
- Permanent Plan
2) Construction Plans

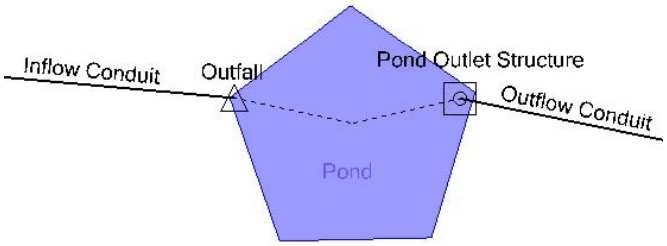


Core Element #1:
Preparation of a Stormwater Site Plan
- Permanent Plan
3) Post-construction Downstream Analysis

Post-construction Downstream Analysis

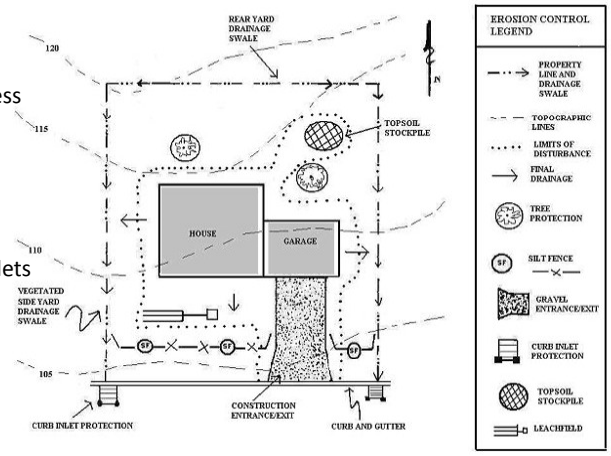
Analysis extends downstream for the entire flow path from the project site to the receiving water, or up to one (1) mile or to a point where the impact to receiving waters are minimal or nonexistent, as determined by the local jurisdiction.

- □ If a receiving water is within one-quarter mile
- □ Analysis extends within the receiving water to one-quarter mile from the project site
- □ The analysis extends one-quarter mile beyond any improvements proposed as mitigation
- □ The analysis extends upstream to a point where backwater effects created by the project cease
- □ Analysis considers:
  - □ Water quality
  - □ Erosion
  - □ Slope stability
  - □ Drainage impacts
  - □ Appropriate mitigation of those impacts.



Core Element #2: Construction SWPPP

- Mark Clearing Limits
- Establish Construction Access
- Control Flow Rates
- Install Sediment Controls
- Stabilize Soils
- Protect Slopes
- Protect Drain Inlets
- Stabilize Channels And Outlets
- Control Pollutants
- Control De-Watering
- Maintain BMPs
- Manage the Project



The most important element of the Construction SWPPP is their schedule!!

Core Element #3. Source Control of Pollutants

Operational

Non-structural practices that prevent or reduce pollutants from entering stormwater

Structural

Physical, structural, or mechanical devices or facilities that are intended to prevent pollutants from entering stormwater

www.buildinggreen.com

City of Walla Walla

Structural Or Operational?

www.gwinnettcounty.com

www.ltu.edu (Lawrence Tech)

www.tractorbynet.com

www.marcellus-shale.com

Structural
Or
Operational?

http://wastedenergy.net

www.alibaba.com

www.colorado.gov

Structural
Or
Operational?

www.galdabini.it

Core Element #4. Preservation of Natural Drainage Systems

1. Maintain dispersed sheet flow to match natural conditions.
2. Infiltrate on-site.
3. Infiltrate off-site.
4. Discharge to existing ditch networks, canals, or other dispersal methods that allow for potential groundwater recharge.
5. Discharge to wetlands, if allowed.
6. Discharge to existing private or municipally-owned stormwater systems, if allowed.
7. Evaporate on-site or off-site.

The reviewer needs to be able to understand how upland flow will be routed through the project for the built-out, 100-year flow condition.

Core Element #8: Conveyance Systems

"Conveyance systems consist of curbs and gutters, inlets, storm drains, catch basins, channels, ditches, pipes and culverts. The placement and hydraulic capacities of storm drain structures and conveyance systems shall consider the potential for damage to adjacent properties and minimize flooding within traveled roadways. The conveyance system shall also provide discharge capacity sufficient to convey the design flow at velocities that are self-cleaning without being destructive to the conveyance systems."

Site + project = right BMP(s)?

Site considerations:
- Soils
- Setbacks
- Slopes
- Embankments
- Depth to bedrock
- Depth to water
- Cation exchange capacity

Project considerations:
- Land use/Project type
- Low, medium, high volume ADT or use
- Amount of connected PGIS
- Area available
- Treatment train or one BMP

Core Element #5: Runoff Treatment

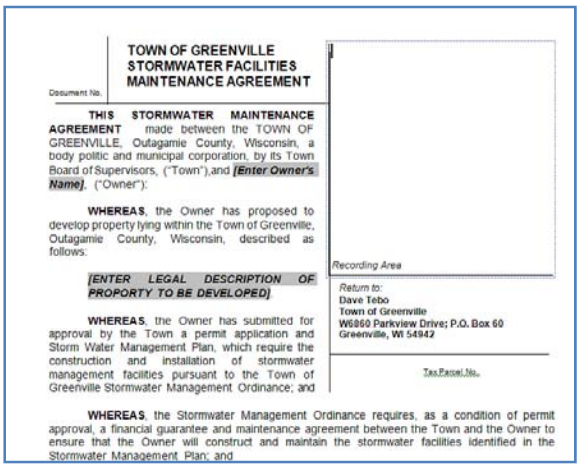
Core Element #6: Flow Control

Standard flow control facilities are:
- Infiltration basins,
- Infiltration trenches,
- Drywells,
- Evaporation basins, and
- Natural dispersion systems.

Most importantly flow control means an applicant is discharging to the MS4. Capacity must be maintained and the local jurisdiction will be responsible for what comes out the end of the pipe.

Otherwise, flow control means the discharge is to a waterway, which is Ecology's jurisdiction.

Core Element #7: Operation & Maintenance



TOWN OF GREENVILLE
STORMWATER FACILITIES
MAINTENANCE AGREEMENT

Document No.

THIS STORMWATER MAINTENANCE AGREEMENT made between the TOWN OF GREENVILLE, Outagamie County, Wisconsin, a body politic and municipal corporation, by its Town Board of Supervisors, ("Town"),and ***[Enter Owner's Name]***, ("Owner"):

WHEREAS, the Owner has proposed to develop property lying within the Town of Greenville, Outagamie County, Wisconsin, described as follows:

[ENTER LEGAL DESCRIPTION OF PROPORTY TO BE DEVELOPED]

WHEREAS, the Owner has submitted for approval by the Town a permit application and Storm Water Management Plan, which require the construction and installation of stormwater management facilities pursuant to the Town of Greenville Stormwater Management Ordinance; and

Recording Area

Return to:
Dave Tebo
Town of Greenville
W6060 Parkview Drive; P.O. Box 60
Greenville, WI 54942

Tax Parcel No.

WHEREAS, the Stormwater Management Ordinance requires, as a condition of permit approval, a financial guarantee and maintenance agreement between the Town and the Owner to ensure that the Owner will construct and maintain the stormwater facilities identified in the Stormwater Management Plan; and

Maintenance Plan

- O&M Manual
- Access
- Responsibility

Design Example #1: Dodge Ranch Development Single Family Home

What's required?

Completeness?

Technical review?

O&M?

Core Elements

1. Preparation of a Stormwater Site Plan
2. Construction Stormwater Pollution Prevention Plan
3. Source Control of Pollutants
4. Preservation of Natural Drainage Systems
8. Conveyance Systems

11 Elements

- Existing conditions
- Permanent plan
- Construction SWPPP
- Maintenance plan

Maps
Site limits
GSR

1) Drainage Report
2) Construction plans
3) Post-construction Downstream Analysis

Do you have enough information? And, will the design meet or exceed criteria?

Design Example #2: Glenaire Wellness Center

What's required?

Completeness?

Technical review?

O&M?

Core Elements

1. Preparation of a Stormwater Site Plan
2. Construction Stormwater Pollution Prevention Plan
3. Source Control of Pollutants
4. Preservation of Natural Drainage Systems
8. Conveyance Systems

11 Elements

- Existing conditions
- Permanent plan
- Construction SWPPP
- Maintenance plan

Maps
Site limits
GSR

1) Drainage Report
2) Construction plans
3) Post-construction Downstream Analysis

Do you have enough information? And, will the design meet or exceed criteria?

Cautions

The Yakima Regional Manual is guidance;

The purpose of the review is to keep the jurisdiction in compliance;

LID techniques are not included;

Applications must sufficiently describe source control and preservation of natural drainage;

Be efficient.

Summary

Pre-project (what's required?)

Completeness (does the jurisdiction have enough information?)

Technical review (too small?)

Finalize review and follow-up (built as designed?)

O&M (who will maintain?)

Questions?

Stormwater Plan Review
Sept 28, 2011

Name	Jurisdiction
Randy Meloy	City of Yakima
RANDY TABERT	CITY OF YAKIMA
~~TANA~~ KALLEVG	CITY OF YAKIMA
Matt Durkee	Yakima County
R. B. Crouch	Yakima Co.
Joe McWalters	Yakima Co.

Yakima County construction inspections, December 2011

A review by Yakima County of all parcels one acre or larger within the stormwater permit boundary that obtained grading or building permits in 2011 found that project disturbance was less than one acre and the projects were either complete or not a threat to the MS4.

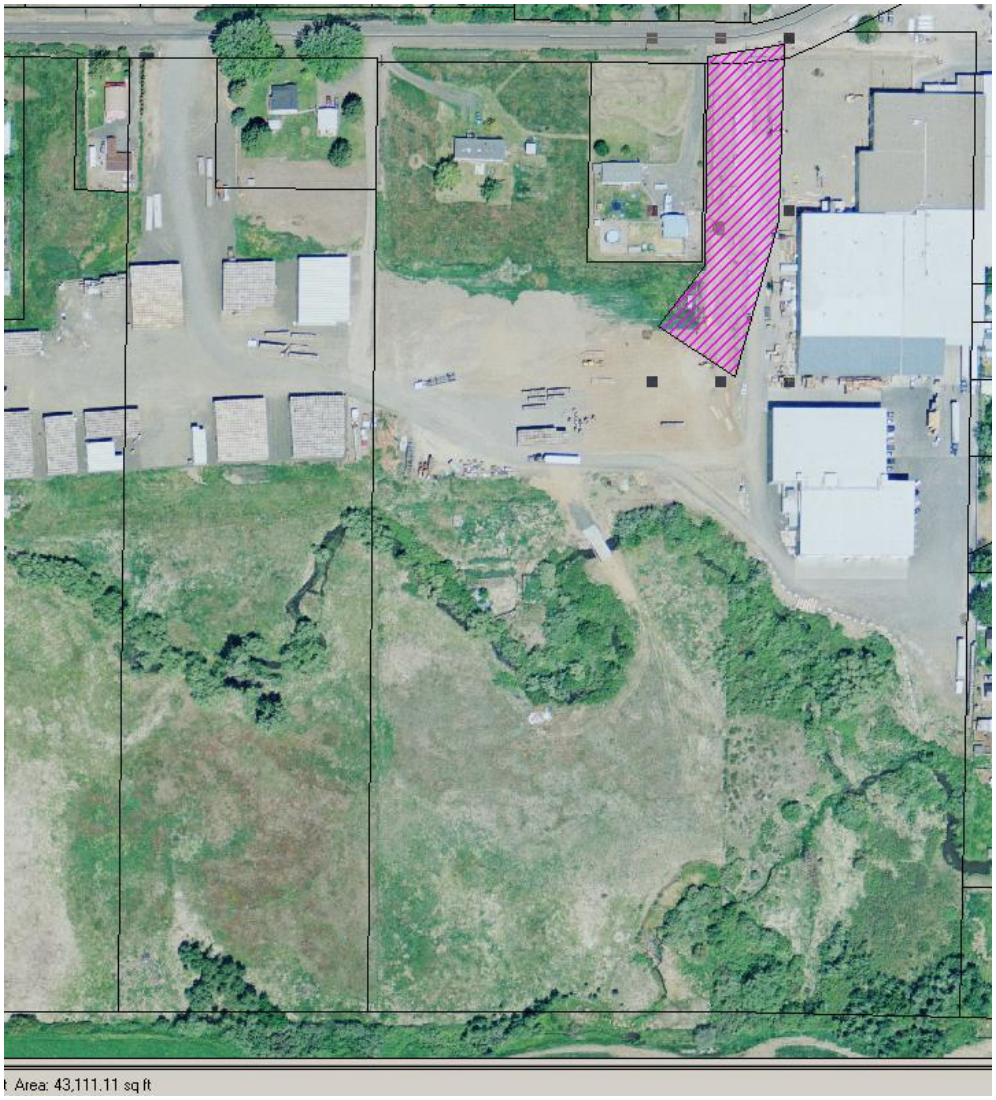
A site visit to 16 parcels by Carolyn Ehlis, a CESL certified staff member, was performed between December 21 and December 28, 2011 to assess the amount of disturbance, whether or not the site drained to the County municipal separate storm sewer system (MS4), and whether any further erosion and sediment control Best Management Practices (BMPs) were warranted to protect the MS4. The attached table and photos document findings. No further action is necessary.

.

Parcel #	Location	City	Parcel Acres	Photo ID	Percent Disturbed	Area Disturbed (acres)	Drains to MS4
23103143001	**1621 Alexander Road**	Sunnyside	4.86	could not find any ongoing construction	0	0	yes
18131713424	**1011 Scenic Canyon Ln**	Yakima	1.74	008-0010	40	0.57	no
18142531408	**111 McGuire Lane**	Selah	1.82	18-20	0.25	0.02	yes
18131631405	**906 Scenic Road**	Yakima	1.03	0013-0015	60	0.6	yes
22102921027	**560 Outlook Road**	Outlook- near Sunnyside	2.13	could not find any ongoing construction	0	0	yes
18120424012	**5103 Ahtanum Road**	Yakima-Ahtanum area	3.96	could not find any ongoing construction	0	0	yes
17121112403	**11012 Gilbert Road**	Yakima-Ahtanum area	23.88		4	0.98	yes
18131632408	**6107 Scenic Drive**	Yakima	1.19	0011-0012	0	0	no
17132424410	**10403 Summitview**	Yakima	1.28	could not find any ongoing construction	0	0	yes
18131844417	**8304 Scenic Drive**	Yakima	1.27	21-22	0	0	no
18141334406	**127 Oakwood Lane**	Selah	4.0	could not find any ongoing construction	0	0	yes
18141334407	**125 Oakwood Lane**	Selah	2.0	could not find any ongoing construction	0	0	yes
18142613411	**583 McGonagle Road**	Selah	1.55	could not find any ongoing construction	0	0	yes
23103242404	**750 E Allen Rd**	Sunnyside	2.08	could not find any ongoing construction	0	0	no
17132521011	**608 Hennessy Road**	Yakima	26.13	0001-0002	<1	0.2	yes
17132512010	**505 Hennessy Road**	Yakima	2.23	003-0004	0	0	yes

11012 Gilbert Road; <1acre disturbance

Google Earth image date September 2, 2011



Yakima County Digital Orthophoto image date June 7, 2011. Graphic indicates disturbance area.

1011 Scenic Canyon Lane; <1 acre disturbance

111 McGuire Lane; <1 acre disturbance

906 Scenic Drive; <1 acre disturbance

5103 Ahtanum Road; no disturbance

6107 Scenic Drive; <1 acre disturbance

8304 Scenic Drive; <1 acre disturbance

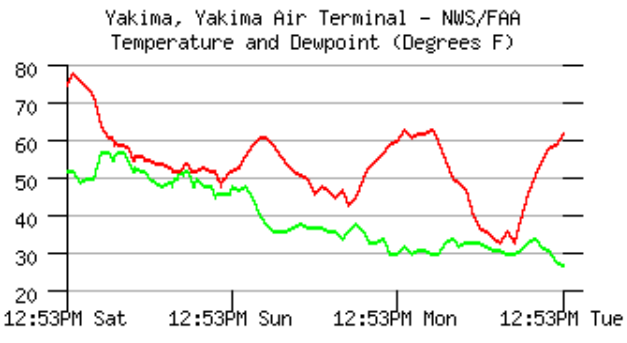
750 E Allen Road; <1 acre disturbance

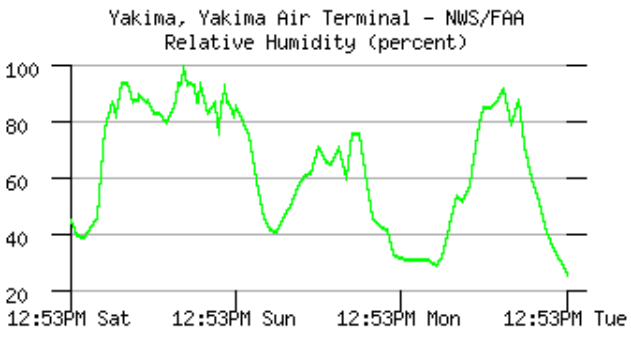
505 Hennessy Road; no disturbance

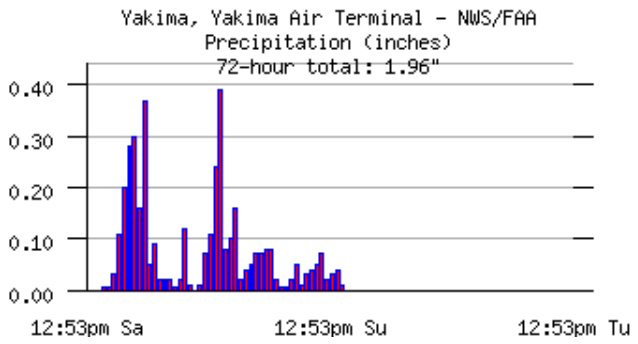
608 Hennessy Road; <1 acre disturbance

Close window **Quick 72-Hour View**

Show 7 Days Show Raw Observations For Information Regarding the Accuracy of This Data: MesoWest Disclaimer







Weather Conditions for:

Yakima, Yakima Air Terminal, WA (KYKM)

Elev: 1093 ft; Latitude: 46.56417; Longitude: -120.53361

Current time: Tue, 17 May 1:41 pm (PDT)

Most Recent Observation: Tue, 17 May 12:53 pm (PDT)

Time (PDT)	Temp. (f)	Dew Point (f)	Relative Humidity (%)	Wind Direction	Wind Speed (mph)	Visibility (miles)	WX	Clouds	Sea Level Pressure (mb)	Altimeter Setting (inches)	Station Pressure (inches)	Precip 1 hour (inches)	Precip 3 hour (inches)	Precip 6 hour (inches)	Precip 24 hour (inches)	6 Hr Max Temp	6 Hr Min Temp	24 Hr Max Temp	24 Hr Min Temp	Quality Control
17 May 12:53 pm	62	27	26	ESE	5	10.00		FEW090	1005.9	29.70	28.552									OK
17 May 11:53 am	59	28	31	E	6	10.00		FEW090	1006.5	29.72	28.572									OK
17 May 10:53 am	58	31	36	NE	3	10.00		FEW090	1006.8	29.73	28.582					58	32			OK
17 May 9:53 am	54	32	43	N	3	10.00		CLR	1007.3	29.74	28.591									OK
17 May 8:53 am	51	34	52	CALM		10.00		CLR	1007.8	29.76	28.611									OK
17 May 7:53 am	46	33	60	CALM		10.00		CLR	1008.2	29.77	28.620									OK
17 May 6:53 am	39	31	72	WSW	7	10.00		CLR	1008.4	29.77	28.620									OK
17 May 5:53 am	33	30	88	W	5	10.00		CLR	1008.3	29.77	28.620									OK
17 May 4:53 am	36	30	79	WSW	6	10.00		CLR	1008.7	29.78	28.630					47	33			OK
17 May 3:53 am	33	31	92	W	7	10.00		CLR	1008.9	29.78	28.630									OK
17 May 2:53 am	34	31	88	W	7	10.00		CLR	1009.0	29.79	28.640									OK
17 May 1:53 am	36	32	85	W	7	10.00		CLR	1009.0	29.79	28.640									OK
17 May 12:53 am	37	33	85	W	5	10.00		CLR	1009.4	29.80	28.649							64	36	OK
16 May 11:53 pm	40	33	76	WSW	5	10.00		CLR	1009.6	29.81	28.659									OK
16 May 10:53 pm	47	33	58	CALM		10.00		CLR	1009.7	29.82	28.669					64	44			OK
16 May 9:53 pm	49	32	52	W	7	10.00		CLR	1010.1	29.83	28.678									OK
16 May 8:53 pm	50	34	54	W	6	10.00		CLR	1009.9	29.82	28.669									OK
16 May 7:53 pm	55	33	43	W	12	10.00		FEW090	1009.8	29.82	28.669									OK
16 May 6:53 pm	60	30	32	W	15	10.00		FEW080 SCT095	1009.5	29.81	28.659									OK
16 May 5:53 pm	63	30	29	WNW	9	10.00		BKN090	1009.4	29.81	28.659									OK
16 May 4:53 pm	62	31	31	WNW	14	10.00		BKN090	1009.3	29.81	28.659					64	56			OK
16 May 3:53 pm	62	31	31	NW	13G18	10.00		BKN090	1009.4	29.81	28.659									OK
16 May 2:53 pm	61	30	31	WNW	12G18	10.00		CLR	1009.6	29.81	28.659									OK
16 May 1:53 pm	63	32	31	WNW	15	10.00		SCT070	1009.4	29.81	28.659									OK
16 May 12:53 pm	60	30	32	WNW	5	10.00		SCT070	1009.4	29.81	28.659									OK
16 May 11:53 am	59	30	33	VRBL	3	10.00		SCT070	1009.2	29.80	28.649									OK
16 May 10:53 am	57	34	42	CALM		10.00		FEW065	1008.9	29.79	28.640					57	41			OK
16 May 9:53 am	55	33	43	SSE	3	10.00		SCT065	1008.5	29.78	28.630									OK
16 May 8:53 am	53	33	46	ESE	6	10.00		FEW065 SCT110	1008.0	29.77	28.620									OK
16 May 7:53 am	50	36	58	CALM		10.00		FEW065 BKN110	1007.6	29.75	28.601									OK
16 May 6:53 am	45	38	76	S	3	10.00		FEW065 BKN110	1007.3	29.74	28.591									OK
16 May 5:53 am	43	36	76	W	7	10.00		FEW070 SCT100	1006.7	29.73	28.582									OK
16 May 4:53 am	47	34	60	VRBL	6	10.00		CLR	1006.2	29.71	28.562	**0.51**				51	44			OK
16 May 3:53 am	45	36	71	CALM		10.00		CLR	1005.9	29.70	28.552									OK
16 May 2:53 am	47	36	65	WNW	5	10.00		CLR	1005.4	29.69	28.543									OK
16 May 1:53 am	48	37	66	W	3	10.00		CLR	1005.3	29.68	28.533									OK
16 May 12:53 am	46	37	71	CALM		10.00		CLR	1005.5	29.68	28.533							61	46	OK
15 May 11:53 pm	50	37	62	NW	8	10.00		CLR	1005.0	29.67	28.523									OK
15 May 10:53 pm	51	38	61	NNW	10	10.00		CLR	1005.0	29.67	28.523					61	50			OK
15 May 9:53 pm	52	37	57	NNW	8	10.00		FEW110	1004.9	29.67	28.523									OK
15 May 8:53 pm	54	36	50	NNW	13	10.00		FEW090	1004.4	29.66	28.514									OK
15 May 7:53 pm	56	36	47	NW	15	10.00		CLR	1003.3	29.63	28.485									OK
15 May 6:53 pm	59	36	41	WNW	16	10.00		SCT090	1002.6	29.61	28.465									OK
15 May 5:53 pm	61	38	42	NW	**21G30**	10.00		SCT080	1001.8	29.59	28.446									OK
15 May 4:53 pm	61	40	46	NNW	16**G22**	10.00		FEW048 **OVC060**	1002.2	29.60	28.456			**0.15**		61	49			OK
15 May 3:53 pm	59	45	59	NNE	3	10.00		FEW050 SCT060 BKN100	1001.8	29.59	28.446									OK
15 May 2:53 pm	56	48	75	VRBL	3	10.00		FEW045 **BKN055** BKN080	1001.4	29.57	28.427	**0.01**								OK
15 May 1:53 pm	53	47	80	CALM		8.00	**-RA**	**BKN035** OVC050	1001.4	29.57	28.427	**0.04**	**0.14**							OK
15 May 12:53 pm	52	48	86	SW	5	7.00	**-RA**	SCT012 SCT025 **OVC033**	1000.7	29.55	28.407	**0.03**								OK
15 May 12:40 pm	52	46	82	SW	5	7.00	**-RA**	SCT012 SCT025 **OVC033**		29.55	28.407	**0.02**								OK
15 May 11:53 am	50	46	87	WNW	6	**3.00**	**RA BR**	**OVC021**	1000.1	29.53	28.388	**0.07**								OK
15 May 11:35 am	50	46	87	WSW	5	**3.00**	**-RA BR**	**OVC021**		29.53	28.388	**0.05**								OK
15 May 11:27 am	50	46	87	WNW	5	**2.50**	**-RA BR**	**OVC021**		29.53	28.388	**0.04**								OK
15 May 11:18 am	48	46	93	WNW	6	**1.75**	**-RA BR**	**OVC019**		29.53	28.388	**0.03**								OK
15 May 11:00 am	50	46	87	W	6	**2.00**	**-RA BR**	**OVC019**		29.52	28.378	**0.01**								OK
15 May 10:53 am	50	46	87	W	7	**2.00**	**-RA BR**	**BKN010** OVC019	999.7	29.52	28.378	**0.05**		**0.36**		54	50			OK
15 May 10:32 am	52	45	76	NNW	9	**2.00**	**RA**	**BKN010** BKN015 OVC022		29.51	28.369	**0.02**								OK
15 May 9:53 am	52	48	86	N	3	10.00	**-RA**	**BKN010** BKN015 OVC022	998.8	29.50	28.359	**T**								OK
15 May 9:49 am	52	48	87	CALM		10.00	**-RA**	**BKN010** BKN015 OVC022		29.50	28.359	**T**								OK
15 May 8:53 am	53	48	83	NNW	6	10.00		**BKN026** OVC032	998.0	29.48	28.339	**0.02**								OK
15 May 7:53 am	52	50	93	NE	3	10.00	**-RA**	FEW005 **BKN036** OVC046	997.9	29.47	28.330	**0.08**	**0.29**							OK
15 May 7:49 am	52	50	94	CALM		10.00	**-RA**	FEW005 **BKN036** OVC044		29.48	28.339	**0.08**								OK
15 May 7:31 am	52	48	87	ENE	3	10.00	**-RA**	SCT005 **BKN023** OVC040		29.47	28.330	**0.07**								OK
15 May 7:18 am	52	48	87	NNE	8	**4.00**	**-RA BR**	FEW017 **BKN026** OVC036		29.47	28.330	**0.07**								OK
15 May 6:53 am	52	50	93	CALM		8.00	**-RA**	SCT003 **OVC042**	998.0	29.48	28.339	**0.05**								OK
15 May 6:23 am	54	52	94	NNE	3	**5.00**	**-RA BR**	FEW006 **BKN037** OVC044		29.45	28.310	**0.04**								OK
15 May 6:11 am	54	52	94	CALM		**6.00**	**-RA BR**	FEW006 **BKN027** OVC034		29.45	28.310	**0.02**								OK
15 May 5:53 am	53	51	93	CALM		**4.00**	**RA BR**	**BKN027** OVC032	996.8	29.45	28.310	**0.16**								OK
15 May 5:21 am	52	52	100	WSW	6	8.00	**-RA**	**BKN026** OVC035		29.44	28.301	**0.10**								OK
15 May 5:03 am	52	50	94	WSW	7	**3.00**	**RA BR**	SCT010 SCT015 **OVC033**		29.45	28.310	**0.08**								OK
15 May 4:53 am	52	50	93	WSW	6	**1.25**	**+RA BR**	**BKN010** BKN014 OVC037	997.1	29.46	28.320	**0.39**			**1.45**	56	52			OK
15 May 4:41 am	52	50	94	WSW	7	**1.25**	**+RA BR**	SCT010 **OVC014**		29.46	28.320	**0.24**								OK
15 May 4:27 am	52	50	94	WSW	5	**2.50**	**RA BR**	**OVC014**		29.47	28.330	**0.11**								OK
15 May 4:19 am	52	48	87	VRBL	5	**3.00**	**+RA BR**	**OVC014**		29.48	28.339	**0.07**								OK

15 May 3:53 am	53	49	86	WNW	7	9.00	-RA	OVC018	997.9	29.48	28.339	0.01					OK
15 May 2:53 am	54	48	80	CALM		10.00		OVC020	998.5	29.50	28.359						OK
15 May 1:53 am	54	49	83	CALM		10.00		OVC022	999.1	29.52	28.378	0.01	0.13				OK
15 May 12:53 am	55	50	83	W	8	6.00	-RA	OVC024	1000.0	29.54	28.398	0.12				81	51	OK
15 May 12:02 am	55	52	88	W	3	4.00	RA BR	BKN026 OVC033		29.56	28.417	0.02						OK
14 May 11:53 pm	56	52	87	W	5	8.00	-RA	FEW022 OVC031	1000.5	29.56	28.417	T						OK
14 May 10:53 pm	56	53	90	W	8	10.00		SCT030 OVC035	1000.9	29.57	28.427	0.02			72	56		OK
14 May 10:42 pm	55	52	88	W	8	10.00	-RA	BKN030 OVC035		29.58	28.436	0.02						OK
14 May 10:31 pm	55	52	88	WNW	9	10.00	-RA	OVC028		29.58	28.436	0.02						OK
14 May 9:53 pm	58	54	87	NW	13	10.00	-RA	FEW022 BKN033 OVC080	1001.6	29.59	28.446	0.09						OK
14 May 9:16 pm	59	57	94	N	8	8.00	-RA	SCT027 BKN034 OVC085		29.60	28.456	0.05						OK
14 May 8:53 pm	59	57	94	N	10	3.00	+RA BR	BKN025 OVC050	1001.7	29.59	28.446	0.37						OK
14 May 8:15 pm	59	57	94	NE	3	2.50	+RA BR	BKN019 BKN046 OVC055		29.62	28.475	0.16						OK
14 May 7:53 pm	60	56	86	NW	5	3.00	RA BR	FEW030 OVC060	1002.6	29.62	28.475	0.30						OK
14 May 7:48 pm	59	55	88	CALM		3.00	RA BR	FEW030 OVC060		29.61	28.465	0.28						OK
14 May 7:26 pm	61	55	82	SW	9	3.00	TSRA BR	SCT023 OVC050		29.60	28.456	0.20						OK
14 May 6:53 pm	61	57	87	WSW	10	5.00	-RA BR	BKN060 OVC075	1001.6	29.58	28.436	0.11						OK
14 May 5:53 pm	64	57	78	E	10	5.00	+RA	BKN047 BKN060 OVC080	1002.6	29.62	28.475	0.03						OK
14 May 4:53 pm	72	50	46	NE	15G20	10.00		SCT060	1001.2	29.58	28.436	T		T	81	70		OK
14 May 3:53 pm	74	50	43	E	9	10.00	-RA	SCT070 SCT080	1002.4	29.62	28.475	T						OK
14 May 2:53 pm	76	49	39	ENE	5G16	10.00		SCT055	1003.1	29.64	28.494							OK
14 May 1:53 pm	78	52	40	N	8	10.00		BKN048	1003.9	29.66	28.514							OK

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: Matthew Cobb

Event Inspection? ☒ Event Date: 5/15/11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.45 in.

Inspection Date: 5/17/11

Inspection Time: 1:00 pm.

Site ID:

Site Name:

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☒

Facility Components

Y	N	NC	N/A	All
			✓	Sediment forebay (if present) no more than ½ full
			✓	Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
	✓			Sediment interferes with volume capacity
	✓		✓	Trees or other shrub vegetation growing on the dam embankment
	✓			The dam embankment denuded or otherwise presents an erosion problem
	✓			Visible damage to any of the mechanical equipment, inlet, pipes or outlets
			✓	The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
	✓			Animal burrows are present on the dam embankment
	✓			Standing water remaining longer than 72 hours after a rain event (dry ponds)
			✓	Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
	✓			Too much sediment to properly treat and drain stormwater runoff
	✓			Excessive oil and debris has accumulated in the system; standing water is present
	✓			There is visible damage present to any of the inlets, pipes or outlets
	✓			Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
			✓	The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
			✓	Trash, vegetation or other debris is present on the surface
	✓			Woody vegetation begins to grow in the trench
	✓			Visible damage to any of the mechanical equipment, inlets, pipes or outlets
	✓			Standing water is present 48 hours after a rain event
	✓			Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
	✓			Clear of debris and obstructions
	✓			Headwalls stable (not eroding)
	✓			Visible damage to any of the mechanical equipment, inlet, pipes or outlets
	✓			Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 11:00 a.m.

Site ID: C23 CB7976

Site Name: 2nd street - Sycamore

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☑ No damage ☐

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

UP TO BOTTOM OF THE PIPE - NEEDS VACCED - STREET CLEANED

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colfax

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 9:28 a.m.

Site ID: (2)-746) 8107

Site Name: 70th Ave + Nob Hill Swale

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
✓				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
	✓			Trash, vegetation or other debris is present on the surface
	✓			Woody vegetation begins to grow in the trench
	✓			Visible damage to any of the mechanical equipment, inlets, pipes or outlets
	✓			Standing water is present 48 hours after a rain event
	✓			Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 1:15

Site ID (W91) 9366

Site Name: 7410 W. NOB HILL

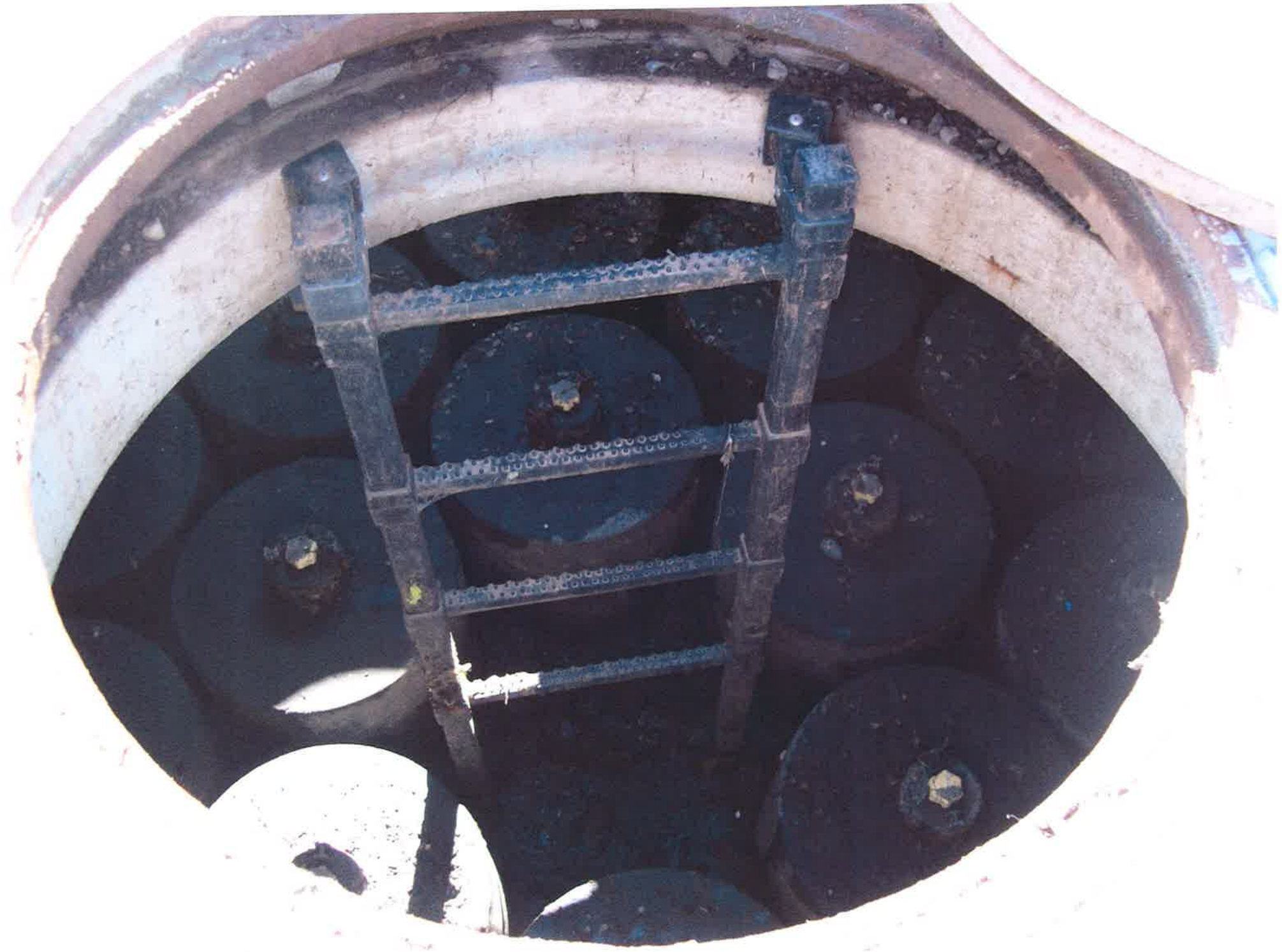
Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
				Sediment forebay (if present) no more than ½ full
				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
	✓			Too much sediment to properly treat and drain stormwater runoff
	✓			Excessive oil and debris has accumulated in the system; standing water is present
	✓			There is visible damage present to any of the inlets, pipes or outlets
	✓			Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
	✓			The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable



Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: _____

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: _____ in.

Inspection Date: 5-18-11

Inspection Time: 10:50 a.m.

Site ID: (EZM) CB 275

Site Name: N 6TH Street + Lincoln

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

REMOVED HEAVY DEBRIS FROM GRATE

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 11:11

Site ID: (EZ1) CB 1198

Site Name: FRONT STREET + EAST A

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Cotton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 10:45 a.m.

Site ID: E-45 SWALE 8034

Site Name:

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☑ No damage ☐

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
✓				Trash, vegetation or other debris is present on the surface
	✓			Woody vegetation begins to grow in the trench
	✓			Visible damage to any of the mechanical equipment, inlets, pipes or outlets
	✓			Standing water is present 48 hours after a rain event
			✓	Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

WEEDS PRESENT ON SWALE

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Collins

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 10:41 a.m

Site ID: QE-42) CB 815

Site Name: 1705 S. FAIR AVE

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

DRY

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 10:32 a.m

Site ID: (E-45) CB 347

Site Name: East Spruce + South Fair

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

SMALL AMOUNT OF WATER

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 10:24 a.m

Site ID: 18TH St + MEAD N.E.

Site Name: (E-54) ob 859

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☑ No damage ☐

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

REMOVED DEBRIS FROM TOP OF GRATE

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R.Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 10:14 a.m.

Site ID: (E-53) 10232

Site Name: 18TH street + Sliger - NE

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Cotton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 1250 p.m.

Site ID: W92 CB43177

Site Name: 207 S. 76TH AVE

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

REMOVED DEBRIS FROM GRATE

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 1:33

Site ID: W90 CB 4441

Site Name: 72nd Ave + Viola

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 3-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 3-18-11

Inspection Time: 1:50

Site ID: 70th Ave & King

Site Name: WSO WIC 4613

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Signs of heavy water - EVERYTHING LOOKS GOOD

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection:____ in.

Inspection Date: 5-18-11

Inspection Time: 2:09

Site ID: W81 SWALE 8011

Site Name: 2200 S. 64TH Ave

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
				Sediment forebay (if present) no more than ½ full
				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
	✓			Trash, vegetation or other debris is present on the surface
	✓			Woody vegetation begins to grow in the trench
	✓			Visible damage to any of the mechanical equipment, inlets, pipes or outlets
	✓			Standing water is present 48 hours after a rain event
	✓			Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

SOME WEEDS IN SWALE - INLETS ARE CLEAR

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 2:30

Site ID: 3808 MEADOW LANE

Site Name: W43 CB3356

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: ____ in.

Inspection Date: 5-18-11

Inspection Time: 3:15

Site ID: W45 CB3732

Site Name: 44TH Ave & Benjamin

Photo ID: ____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☑ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

INLET PLUGGE WITH ROOTS - REMOVED, RESTORED FLOW

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: ____ in.

Inspection Date: 5-18-11

Inspection Time: 3:34

Site ID: (WSM) CB 3527

Site Name: 716 N. 40TH Ave

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☑ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

CB, SDMH, STORM PIPE, & SIDEWALK HAD HEAVY DIRT & DEBRIS WASHED OUT FROM VACANT LOT - USED VAC TRUCK TO CLEAN AND REMOVE ALL MATERIAL

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 3:50

Site ID: (W32) 7986

Site Name: CREEKSIDE OUTFALL

Photo ID:

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☐

Facility Components

Y	N	NC	N/A	All
				Sediment forebay (if present) no more than ½ full
				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
			✓	Clear of debris and obstructions
			✓	Headwalls stable (not eroding)
			✓	Visible damage to any of the mechanical equipment, inlet, pipes or outlets
			✓	Open channels stable (not eroding) and free of sediment deposits

OUTFALL CURRENTLY UNDER WATER

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: 1.4 in.

Inspection Date: 5-18-11

Inspection Time: 4:10

Site ID: 9213 (E-9)

Site Name: S. 12TH Ave OUTFALL

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☐

Facility Components

Y	N	NC	N/A	All
				Sediment forebay (if present) no more than ½ full
				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
			✓	Clear of debris and obstructions
			✓	Headwalls stable (not eroding)
			✓	Visible damage to any of the mechanical equipment, inlet, pipes or outlets
			✓	Open channels stable (not eroding) and free of sediment deposits

OUTFALL CURRENTLY UNDER WATER

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection: ____ in.

Inspection Date: 5-18-11

Inspection Time: 4:30

Site ID: (ESO) 8151

Site Name: OUTFALL EAST OF MH10250

Photo ID: ____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☐

Facility Components

Y	N	NC	N/A	All
				Sediment forebay (if present) no more than ½ full
				Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
				Animal burrows are present on the dam embankment
				Standing water remaining longer than 72 hours after a rain event (dry ponds)
				Emergency spillways should be clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Sand Filters, Underground Detention, Manufactured Facilities**
				Too much sediment to properly treat and drain stormwater runoff
				Excessive oil and debris has accumulated in the system; standing water is present
				There is visible damage present to any of the inlets, pipes or outlets
				Excessive sediment and/or debris has accumulated in the inlet/surface, pipes or outlets
				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
			✓	Clear of debris and obstructions
			✓	Headwalls stable (not eroding)
			✓	Visible damage to any of the mechanical equipment, inlet, pipes or outlets
			✓	Open channels stable (not eroding) and free of sediment deposits

OUTFALL CURRENTLY UNDERWATER

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

Regional Stormwater Management
Stormwater Facility Inspection Form

(required by section S5.B.5.c.ii & S5.B.6.a.ii of Washington Department of Ecology Eastern Washington Phase II Municipal Stormwater Permit effective Feb. 16, 2007)

Investigator: R. Colton

Event Inspection? ☐ Event Date: 5-14-11

10-year 24-hour Storm Event Information:
10-yr. event: Yakima area: >1.4"; Sunnyside area: >1.2"

Size of event requiring inspection:____ in.

Inspection Date: 5-18-11

Inspection Time: 4:44

Site ID: (047) 3978

Site Name: 4108 DONALD DRIVE

Photo ID: _____

Assessment: Needs immediate attention ☐ Okay, maintenance indicated ☐ No damage ☑

Facility Components

Y	N	NC	N/A	All
	✓			Sediment forebay (if present) no more than ½ full
	✓			Emergency or overflow spillway clear of debris and obstructions
Y	**N**	**NC**	**N/A**	**Dry Ponds, Wet Ponds or Wetlands**
				Sediment interferes with volume capacity
				Trees or other shrub vegetation growing on the dam embankment
				The dam embankment denuded or otherwise presents an erosion problem
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				The low flow orifice, forebay or concrete trickle ditch is blocked by trash, debris or sediment
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				The accumulation of sediment is greater than the manufacturer's recommendation, or too much oil is present for proper water filtration (Manufactured Facilities)
Y	**N**	**NC**	**N/A**	**Infiltration Trenches, Swales**
				Trash, vegetation or other debris is present on the surface
				Woody vegetation begins to grow in the trench
				Visible damage to any of the mechanical equipment, inlets, pipes or outlets
				Standing water is present 48 hours after a rain event
				Runoff no longer infiltrates into but flows across the trench
Y	**N**	**NC**	**N/A**	**Outfalls; Channels**
				Clear of debris and obstructions
				Headwalls stable (not eroding)
				Visible damage to any of the mechanical equipment, inlet, pipes or outlets
				Open channels stable (not eroding) and free of sediment deposits

Y = Checked and condition present; N = Checked and condition absent; NC = Not checked, N/A = Not applicable

This presentation is designed to teach specific audiences about the Regional Stormwater Management Program and NPDES permit requirements, the potential impacts of stormwater to water bodies, and steps each audience can take to improve stormwater quality. Audiences include: staff that may receive reports of Illicit Discharge; staff that may observe illicit discharges in the course of their duties; IDDE staff; the general public; businesses, and engineers, construction contractors, developers, development review staff, and land use planners. These audiences are identified by the permit as minimum target audiences. Additional target audiences may be added as they are identified by section S5.B.1 of the permit. Slides can be hidden if not appropriate for a targeted audience.

Outline

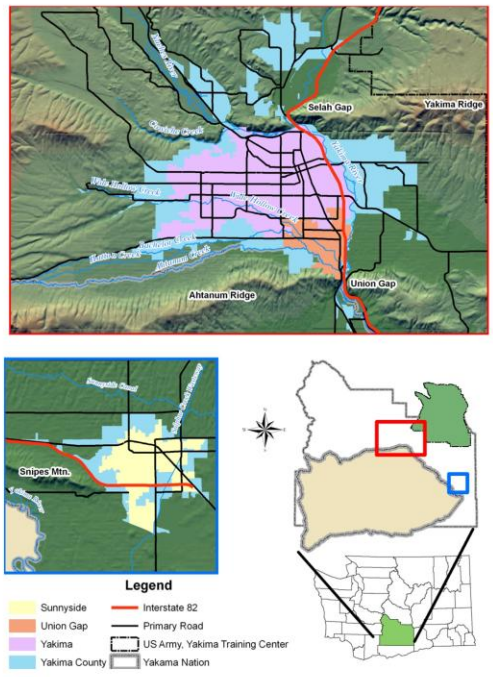
- Overview of Regional Stormwater Management Program
- What Stormwater is
- Why Stormwater is a Problem
- Overview of Program Components (tied to state permit)
- Reporting Illicit Discharges
- Other Program Components Specific to Your Department

Outline of presentation.

Who is “Regional”?

Among others, the cities of Yakima, Union Gap, and Sunnyside, as well as the urban parts of the County around those communities (and Selah), are required by the Washington Department of Ecology to comply with a permit that allows them to discharge stormwater to area water bodies. The first 5-year permit focuses on developing a program, so it made economic sense for several municipalities in a geographic area to develop one regional program rather than four (or more) independent programs doing essentially the same tasks. The initial agreement between the entities was for the first three years of the permit. A 2nd interlocal agreement was signed in 2009 for permit years 4 & 5.

Where does the Regional Stormwater Program apply?



Ecology's permit applies to Cities within their city limit, and counties in the Urban Growth Area and Federal Census defined Urban areas surrounding those cities. According to EPA rules, Phase II communities:

- Own and operate a storm drain system
- Discharge to surface waters
- Are located in urbanized areas
- Have a population greater than 1,000

The Regional Stormwater Program includes the Cities of Yakima, Union Gap, Sunnyside, and the urbanized areas of Yakima County surrounding those communities and Selah, which opted for their own coverage under the Eastern Washington Phase II Municipal Stormwater permit.

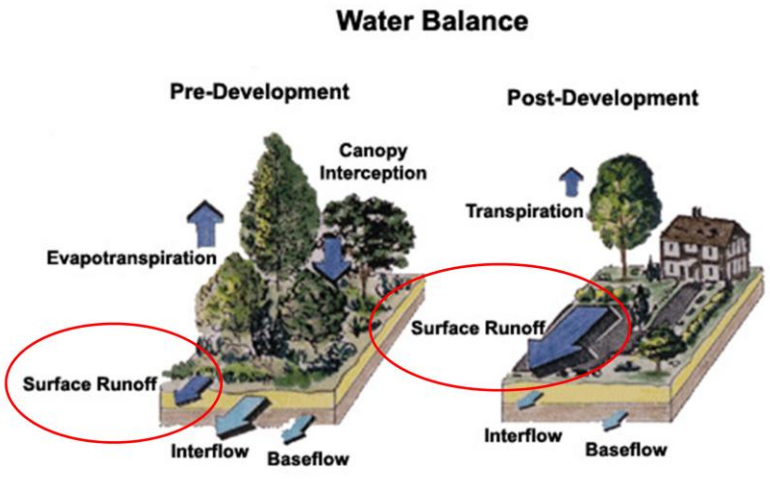
What is Stormwater?

Stormwater - means runoff during and following precipitation and snowmelt events, including surface runoff, drainage and interflow.

Here is a condensed version of a definition found for stormwater in Ecology's permit. Notice it includes snowmelt as well as rainwater.

Another permit term we need to understand is MS4. This is the system of drainage for municipal (public) properties that carries stormwater runoff from the property to nearby waters. The permit specifically regulates only the public MS4. Private activities are only impacted when they discharge stormwater to the public MS4.

Why is Stormwater an Urban Issue?



Stormwater is considered an urban issue because development changes both the amount of runoff, the kinds of pollution associated with the runoff, an where that “load” ends up. Parking lots, streets, roofs, sidewalks and compacted parks and lawns increase the amount of surface runoff compared to the pre-development scenario. The types of pollution in urban runoff are different than those in undeveloped areas. Urban runoff is typically collected and discharged to surface water (lakes and streams) rather than into the ground where pollutants can be filtered out across a broad area.

Why is Stormwater a Problem?

Anything deposited on streets may be washed in storm drains, which discharge either to streams or groundwater.

17th St. and Chestnut, Yakima

Outfall into Wide Hollow Creek

http://www.indyposted.com/10278/use-your-cellphone-save-a-fish/

Anything could include **pollutants** from:
Automobiles, excess lawn runoff, illegal dumping, cigarette butts, litter…..
the list goes on and on……

Pollutants may hurt or kill aquatic organisms such as fish and be harmful to humans

Why is Stormwater a Problem?

Soil – most common pollutants in our waterways. Pollutants attached to soil can be washed from yards and construction sites.

Fertilizers & Pesticides - from lawns and golf courses.

Sediment is a common component of stormwater and can be a pollutant when it is detrimental to aquatic life (primary producers, benthic invertebrates, and fish). Sediment can interfere with photosynthesis, respiration, growth, reproduction, and oxygen exchange between aquatic organisms and the surrounding water. In addition, sediment can transport other pollutants that attach to it including nutrients, trace metals, and hydrocarbons. Sediment is the primary component of total suspended solids (TSS), a common water quality analytical parameter.

Nutrients (typically nitrogen and phosphorous) are the major plant nutrients used for fertilizing and are often found in stormwater. Nutrients can accelerate growth of vegetation, particularly algae, resulting in excessive concentrations that impair use of water in lakes and other sources of water supply. In addition, un-ionized ammonia (one of the nitrogen forms) can be toxic to fish.

Pesticides (including herbicides, fungicides, rodenticides, and insecticides) have been repeatedly detected in urban stormwater around the country. As use of pesticides has increased, so too have concerns about the potential adverse effects of pesticides on the environment and human health. Accumulation of these compounds in simple aquatic organisms, such as plankton, provides an avenue for bio-magnification through the food web, potentially resulting in elevated levels of toxins in those organisms that feed on them, such as fish and birds. Most of these pollutants are associated with agricultural chemicals that are no longer used and are entering streams through sediments eroding off farmland.

Why is Stormwater a Problem?

Oil - leaking from cars, trucks, and boats.

Sewage - from leaking pipes.

Oil and grease includes a wide array of petroleum hydrocarbons, some of which are toxic to aquatic organisms at low concentrations. The main sources of oil and grease are leakage from engines, spills at fueling stations, overfilled tanks, restaurant waste or illegal oil disposal.

Pathogens (bacteria and viruses) are common contaminants of stormwater. Sources of these contaminants include animal excrement, sanitary sewer overflow or cross connection, and soil.

Why is Stormwater a Problem?

Pet waste - bacteria, parasites, and viruses end up in storm drains, harming human health and the environment.

Soap - from washing cars.

Organic compounds (including toxic synthetic compounds such as adhesives, cleaners, sealants, and solvents) are widely applied and may be improperly stored and disposed. In addition, deliberate dumping of these chemicals into storm drains and inlets causes environmental harm to waterways.

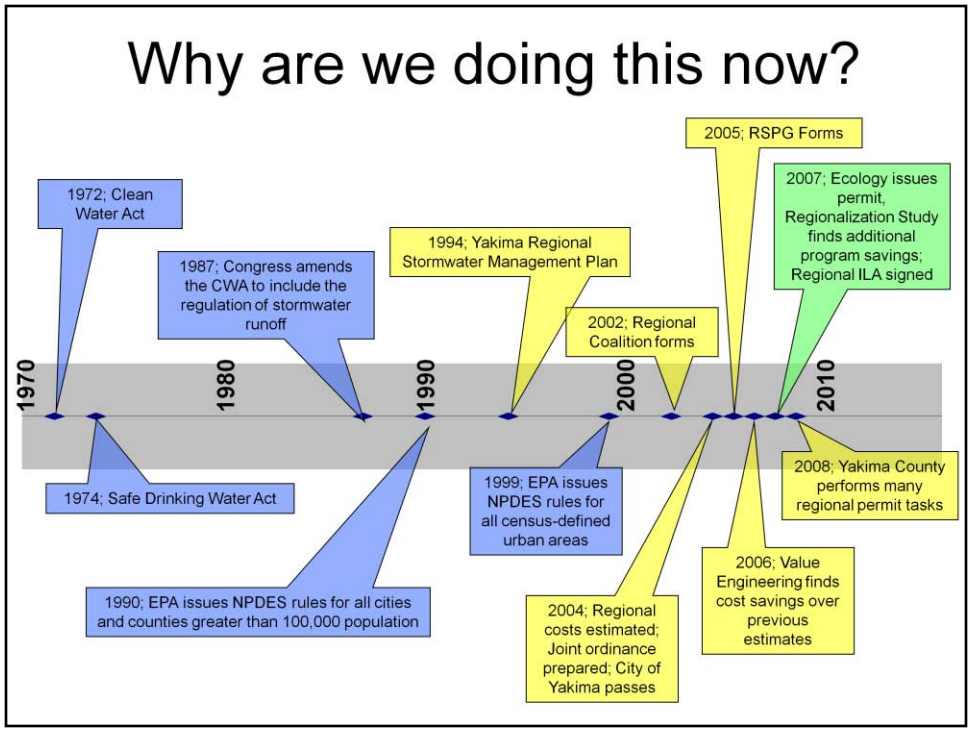
Why is Stormwater a Problem?

Litter - clogs waterways and degrades water quality.

Chemicals - household chemicals and paint, not properly disposed of, end up in our waterways.

Illegal Dumping - trash blocks water movement; organic matter rots and reduces dissolved oxygen in water, toxic have acute and chronic impacts.

Gross Pollutants (trash, debris, and floatables) are common to urban environments and industrial sites and may create an aesthetic “eye sore” in waterways. Gross pollutants also include plant debris (such as leaves and lawn-clippings from landscape maintenance), animal excrement, street litter, and other organic matter. When these substances decay in streams, lakes, and estuaries dissolved oxygen levels are depressed, sometimes causing fish kills.



Nationally, stormwater efforts have been underway for many years, formalized by the Clean Water Act of 1972 and an amendment in 1987. Regional stormwater programs began in 1994 with a Yakima Regional Stormwater Management Plan. A coalition formed in 2001 between local cities and the County to conduct a planning project that better defined regulatory requirements and costs. Consultants were selected in May 2002. The consultants developed a minimum program ensuring compliance with proposed stormwater regulations. A joint ordinance was prepared, however, only the City of Yakima adopted it in November, 2004. By fall of 2005, a new guidance group, the Regional Stormwater Policy Group (RSPG), consisting of elected officials from the City of Yakima, Union Gap, Sunnyside, and Yakima County formed to re-review overall program costs and explore mechanisms for further cost savings by regional consolidation. The RSPG commissioned a Value Engineering (VE) study to re-examine the costs of individual stormwater programs for each municipality. The VE study, completed in October of 2006, found some cost savings. Upon completion of the VE study, the RSPG re-hired the VE consultant to conduct an analysis of additional savings based on a regional approach. The regional report concluded in January of 2007 that a sizeable savings over the VE study costs was achievable with a regional program, especially in the first three years of the permit. Ecology issued individual permits to the parties on February 16, 2007 and a three-year ILA for regional permit compliance was signed on July 5, 2007. An NOI for joint permit coverage was submitted in August, 2007 and development of the RSWaMP began. Ecology issued co-permittee status for participating RSPG parties on October 1, 2007, identifying Yakima County as the “lead entity”.

The current ILA for a regional program will expire in 2010. The current permit period ends February 15, 2012.

Why Here?

It only rains about 8" per year…

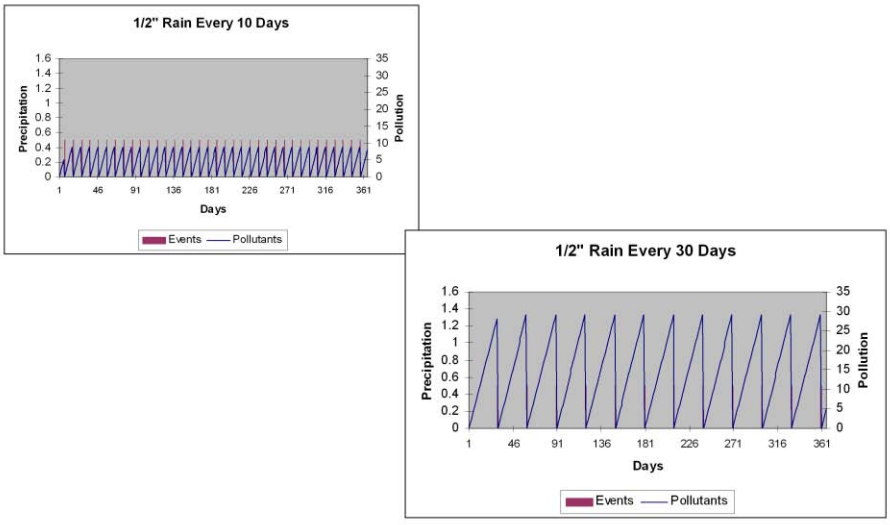
Outfall into Wide Hollow Creek

Stormwater is often perceived as a problem only in rainy areas. Unfortunately, dry areas can have as much or more pollution. This is because the volume of runoff is only half the equation; the other half is the amount of pollution carried in the runoff. Together, runoff plus pollutant concentrations make up a "load" that is discharged to nearby waters. Because dry areas aren't "washed" as often, pollutants can build up over time during dry periods and have very high concentrations once runoff picks them up.

What kinds of pollutants can you identify in the photos? Would you or fish swim in water from either of these photos?

Why Here?

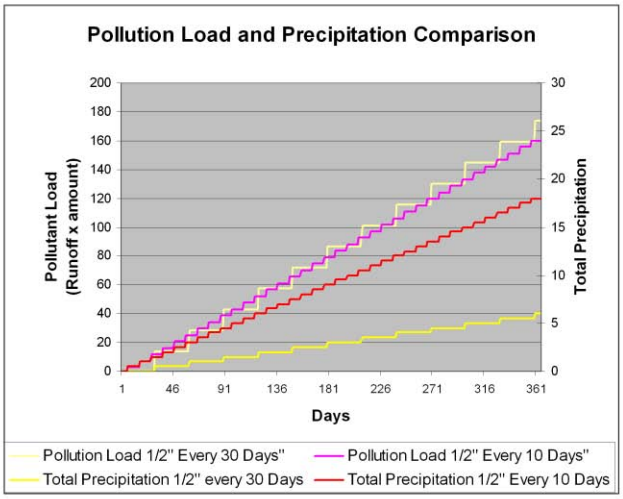
It only rains about 8” per year…



Optional slide for more technically oriented audiences. Graphs compare two precipitation regimes: the upper shows a precipitation pattern of ½” every ten days (maroon bars). The blue lines represent linear buildup of a pollutant on an impervious surface. Every time it rains, the pollutant buildup is re-set to zero. The lower graph shows a drier precipitation pattern of ½” every 30 days. Again, the blue lines show buildup and wash-off of a hypothetical pollutant. Now lets look at what happens when we look at load.

Why Here?

It only rains about 8” per year…



Optional slide for technically minded audiences. Follows previous slide. When we change the units in the previous slide from event to cumulative, we see that total annual precipitation in the drier scenario (dark yellow) is significantly less than in the “wet” scenario (red, second from bottom). Load, however, is greater for the dry regime (light yellow, top line) compared to the wet regime (magenta).

This is a very simple, hypothetical situation that assumes a regular increase in surface pollution (one unit per day), however, it does provide an idea that buildup of pollutants in dry climates can contribute comparable pollution loads to regular runoff in wet climates.

What is the Regional Stormwater Program?

Eight Program Elements

Public Education

Public Involvement

Illicit Discharge and Detection Elimination

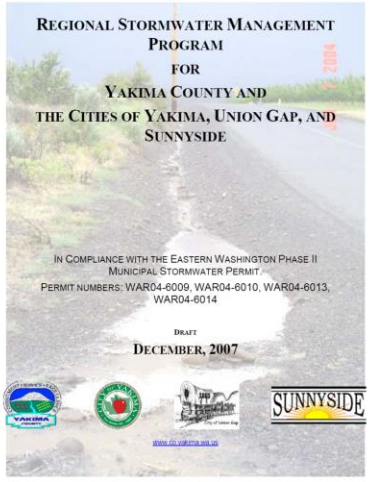
Construction Stormwater

Post-construction Stormwater

Good Housekeeping and Pollution Prevention

Total Maximum Daily Load (TMDL)

Monitoring and Recordkeeping



The Regional Stormwater Program is closely linked to Ecology's permit that requires 8 elements, shown here. The following slides will discuss each program element in more detail. The program is described by a required document (cover shown) available on the Regional Stormwater Program website.

What are the parts of the program?

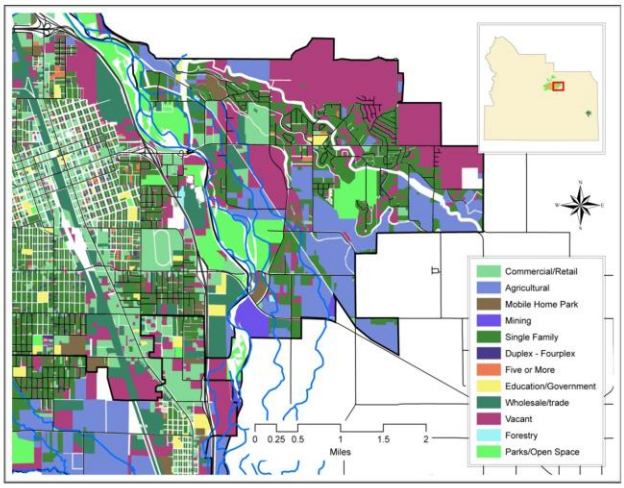
Public Education

Target Audiences

Public Involvement

Annual Program Updates

Public Input Policy



In years 1-3 of the permit, a Public education and outreach program element will identify and characterize target audiences. These can be specific populations in the area, specific types of land uses (as identified on the map), certain groups of businesses, or geographic areas with high levels of illicit discharge activity. After target audiences are identified, the regional program will shift focus and concentrate on getting a stormwater message out to the identified target audiences.

A Public Involvement and Participation program element is underway. Each municipality has adopted a policy by their Board or Council directing input, and public meetings have been held to review and receive annual comment on the Program document

What are the parts of the program?

Illicit Discharge Detection and Elimination

- Mapping
- Ordinance
- Procedures for Investigating
- Hotline
- Staff Training

The illicit discharge detection and elimination program element has several parts that must be accomplished within the first three years of the permit. These are shown. A map of the system must be started; an ordinance must be in place. Most municipalities have some prohibition of illegal waste disposal, but a specific inclusion of the stormwater system is required. The municipalities must come up with a procedure that will be used to follow up on reports of illicit discharge and steps to take to eliminate them. A hotline or telephone number must be published and staff must be adequately trained.

Ecology calls the next two program elements “Construction site stormwater runoff control” and “Post-construction stormwater management for new development and redevelopment”. For convenience, “construction stormwater” and “post-construction stormwater” will be used to identify the two programs. The requirements and, therefore, the regional stormwater program, are very similar for the two program elements. Both require an ordinance within the first three years to require erosion and sediment controls and post-construction stormwater controls on new development and redevelopment projects that discharge to the MS4 and disturb one acre or more. Permittees may reference the ordinances to the *Stormwater Management Manual for Eastern Washington* or develop a local manual (subject to approval by Ecology) to meet their regional needs. Yakima County climate and soils are different enough from other parts of Eastern Washington that the local partners have committed to developing a local manual.

Construction stormwater permits are currently required by Ecology. The regional permittees must begin reviewing stormwater plans and inspecting construction sites in 2011 and 2012. Ecology is currently developing a program and guidance to address any overlap of jurisdiction that may occur as a result of the municipal programs required by the municipal permit.

What are the parts of the program?

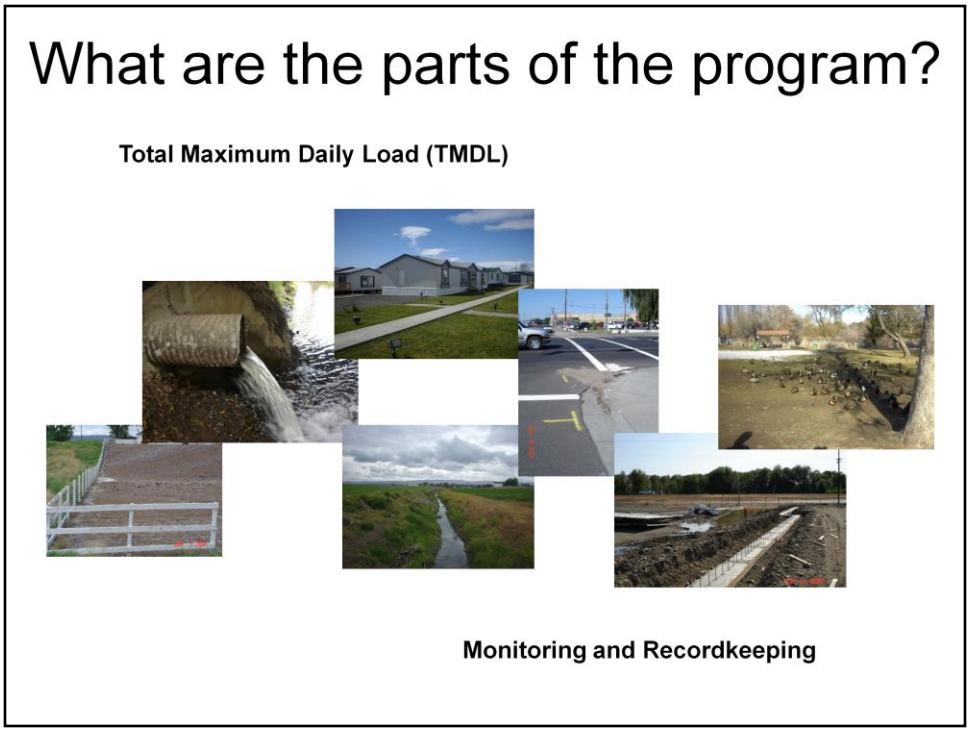
Municipal Operation & Maintenance Plans

- Stormwater Collection and Conveyance
- Roads, Highways, and Parking Lots
- Vehicle Fleets
- Municipal Buildings
- Parks and Open Space
- Construction Projects
- Industrial Activities
- Material Storage, Equipment Storage, and Maintenance Areas
- Flood Management Projects
- Other Facilities

Good Housekeeping and Pollution Prevention

More Staff Training

The sixth core program element is aimed at operations conducted by the municipalities themselves. The concept is that the municipalities must have their own house in order. Operation and maintenance (O&M) plans that address stormwater and pollution prevention for the activities listed in the slide have been developed. Many municipal activities currently have O&M plans or Standard Operating Procedures (SOPs). In these cases, stormwater practices will be added to the existing plans if needed. Additional staff training is also required to ensure the plans are properly implemented.



The final two programs require compliance with TMDL requirements; and Monitoring/Recordkeeping.

Additional requirements including monitoring may need to be met if an applicable TMDL (water quality improvement project) is approved for stormwater discharges.

During the current permit cycle, long-term monitoring sites including outfalls and stormwater runoff treatment facilities will be identified for future monitoring.

Annual report of all permit related records will be submitted to Ecology each year.

What is an Illicit Discharge?

"Illicit discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater.

"Illicit connection" means any man-made conveyance that is connected to a municipal separate storm sewer without a permit, excluding roof drains and other similar type connections.

Ordinance required by NPDES Permit adopted in 2009 prohibiting these discharges.

Discharge of Floor Sanding Rinse

Center for Watershed Protection photo

Illicit discharges and connections to the MS4 can harm both people and the environment. Each municipality passed an Illicit Discharge Ordinance in 2009 prohibiting these discharges.

Common illicit discharges include:

- Sanitary wastewater from improper sewage connections, exfiltration, or leakage
- Fruit packing wash water
- Surface flow and irrigation drainage from feed lots and hobby farms
- Commercial car wash wastewaters
- Radiator flushing wastewaters
- Engine degreasing wastes
- Improper oil disposal
- Excess fertilizer or pesticides
- Laundry wastes
- Spills from roadway or other accidents
- Dewatering of construction sites
- Improper disposal of household toxic wastes
- Chemical, hazardous materials, and garbage
- Swimming pool cleaning wastewater and filter backwash

Exemptions?

- Emergency Fire Fighting Discharges

Exempt unless causing or contributing to a water quality violation:

- Diverted Stream Flows
- Uncontaminated Groundwater
- Foundation Drains
- Air Conditioning Condensate
- Irrigation Water from Agricultural Sources
- Crawl Space Pump Discharge
- Footing Drains
- Lawn Watering and Other Irrigation Runoff

http://www.flickr.com/photos/egjish/220511913/

Certain types of discharges are exempt from the ordinance as long as they do not cause or contribute to a water quality violation. Discharging lawn watering and other irrigation runoff are discouraged, but not prohibited.

Conditional Exemptions

Potable Water Source Discharges
- Water Line Flushing
- Hyperchlorinated Water Line Flushing
- Fire Hydrant System Flushing
- Firefighting Training
- Pipeline Hydrostatic Test Water

Swimming Pool Discharges
(Cleaning Wastewater and Filter Backwash Prohibited)

http://www.pollardwater.com/pages_product/DD2H_Dechlor_Demon.asp

Exempt if:

- **Dechlorinated to a concentration of 0.1 ppm or less**
- **pH adjusted if necessary**
- **Volumetrically and velocity controlled to prevent resuspension of sediments if necessary**

Potable water source discharges are allowed if certain conditions are met.

Conditional Exemptions

- Street and Sidewalk Wash Water
- Dust Control Water
- Routine External Building Wash Down Water

Exempt if:

- **No detergents**
- **Streets and sidewalks swept and material removed prior to washing**

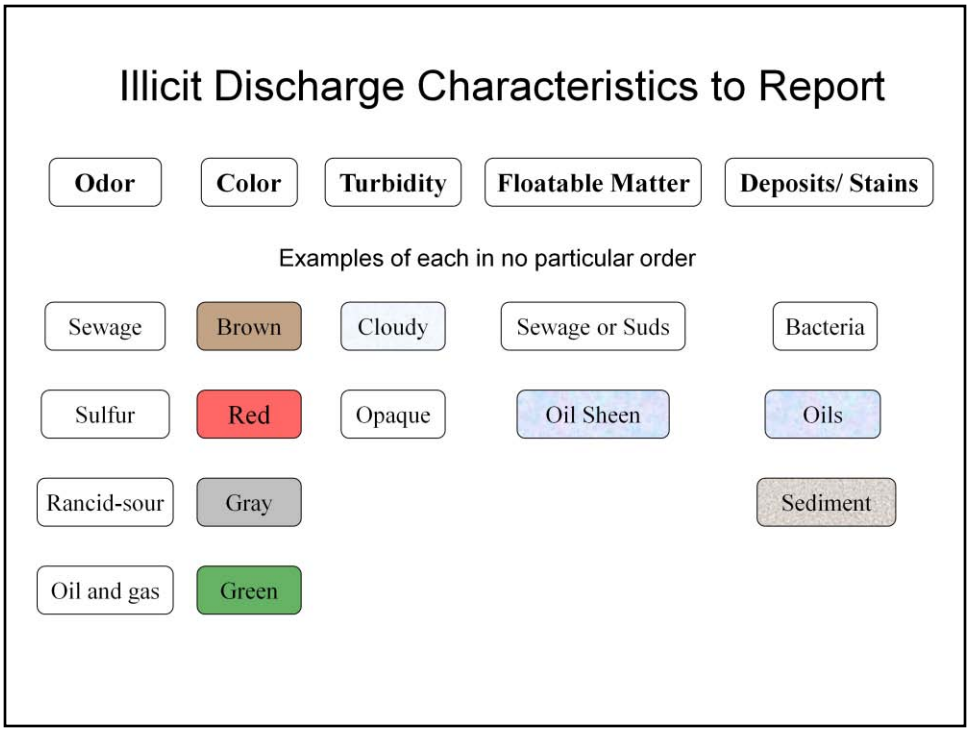
- Dye Testing

Exempt if:

- **Notification to Stormwater Utility or Authority**

http://www.flickr.com/photos/sugthethug/1233317349/

Additional discharges that are allowed if certain conditions are met.



If the type of illicit discharge is not obvious, be prepared to provide the following characteristics when reporting the discharge. Examples of each characteristic are given in no particular order.

Field Staff

What is your role?

How to report a spill or improper disposal:

Is it: a hazardous material? CALL 911!

Is it: in the MS4, or could runoff carry it there?

Call 574-2300 or e-mail PublicServicesIllicitDischarge@co.yakima.wa.us.

Otherwise, ***Call Yakima Health District:***
Art McEwen (509) 249-6543 Ted Silvestri (509) 249-6562

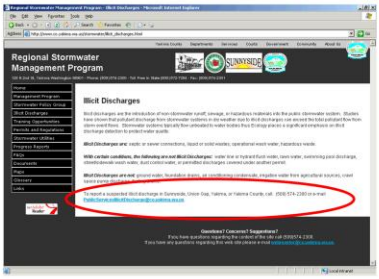
If the illicit discharge is hazardous and constitutes an emergency call 911!

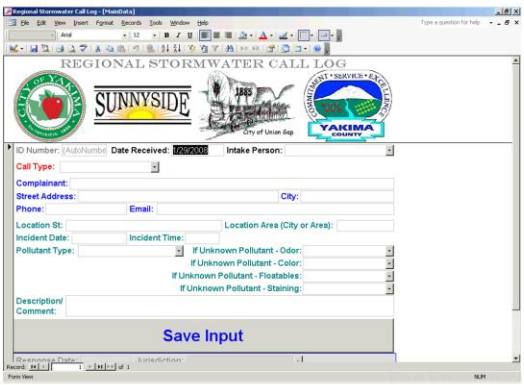
If the illicit discharge does not constitute an emergency and is in the MS4 or runoff could carry there, notify a supervisor, municipal stormwater staff contact, or call the illicit discharge hotline at 574-2300.

For other illegal dumping not associated with the MS4 call the Yakima Health District.

Phone Staff

What is your role?





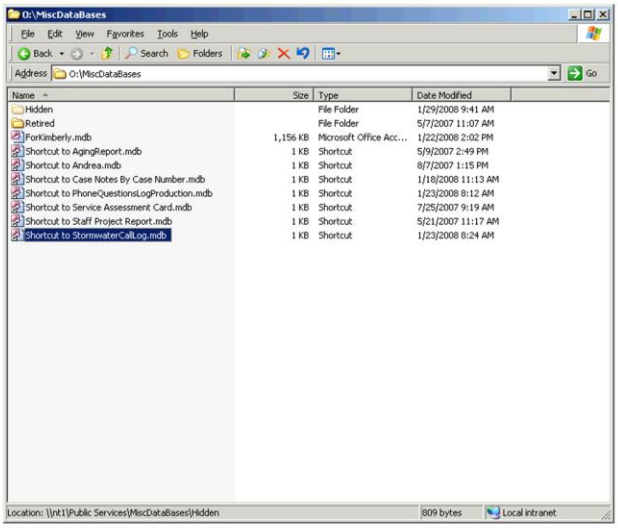
Public services on nt1\MiscDataBases\Shortcut to StormwaterCallLog.mdb

Forward illicit discharge reporting phone calls to appropriate stormwater staff. If staff are not available, use the call log to collect important information about the possible illicit discharge which could include the following:

- Date
- Intake Person
- Complainant's (caller) name, street address, city, phone, e-mail
- Illicit discharge location (street, city or area, incident date, time
- Pollutant type (if known)
- If unknown pollutant, odor, color, floatables, staining
- Description/comments

County
Phone Staff

What is your role?



Public services on nt1\MiscDataBases\Shortcut to StormwaterCallLog.mdb

Public Services file location of stormwater call log shortcut.

Illicit Discharge Detection and Elimination (IDDE) Staff

What is your role?

NPDES Permit Requirements

- MS4 Mapping
  - 1/3 Map (Feb. 16, 2010)
  - 2/3 Map (Feb. 16, 2011)
  - Complete Map (Feb. 16, 2012)

The following are required to be included on the MS4 map:

- Roads with Drainage Systems, Municipal Streets
- Catch Basins
- Curbs and Gutters
- Ditches and Manmade Channels
- Storm Drains
- Outfalls
- All Authorized Connections
- Receiving Waters
- Areas (Sewersheds) Served by Discharges to Ground.

- Verify Existing Outfall Locations and Identify Previously Unknown Outfalls (Aug. 19, 2011)

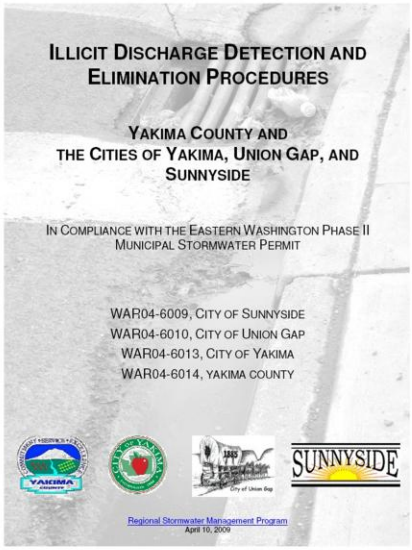
1/3 map will include any mapping completed through 2009. In addition to facilities and structures, all authorized connections to the MS4, receiving waters, and areas served by discharges to ground must be mapped.

IDDE Staff

IDDE Procedures

Must adopt and implement the following procedures to meet
NPDES Permit Requirements
(Aug. 16, 2011)

- Locating priority areas likely to have illicit discharges
- Characterizing Illicit Discharges
- Tracing the Source
- Ending the Discharge
- Program Evaluation and Assessment



The Illicit Discharge Detection and Elimination Procedures document provides staff with a summary of methods to meet selected IDDE permit requirements.

Illicit Discharge
Detection and Elimination
(IDDE) Staff

IDDE Procedures

NPDES Permit Requirements

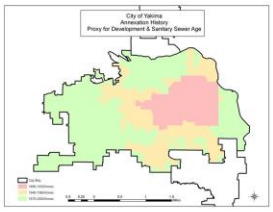
- Develop and implement program to detect and address illicit discharges (Aug. 19, 2011)
- Procedures for locating priority areas for investigation (land use, development age)
- Prioritize receiving waters for visual inspection to identify previously unknown outfalls (Feb. 16, 2010)
- Field assess at least 3 high priority water bodies or other areas to verify outfall locations and detect illicit discharges (Feb. 16, 2011)
- Field assess at least 1 high priority water body or other area each year thereafter.

Center for Watershed Protection photo

The Illicit Discharge Detection and Elimination Procedures provide staff with a summary of methods to meet selected IDDE permit requirements. Procedures using GIS for locating priority receiving waters and areas for investigation and methods for characterizing, tracing, and ending illicit discharges are included.

IDDE Staff

City of Yakima
Annexation History



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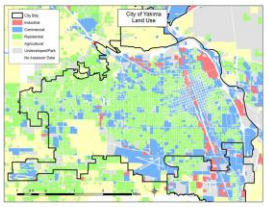

Land Use

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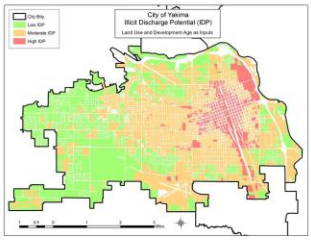
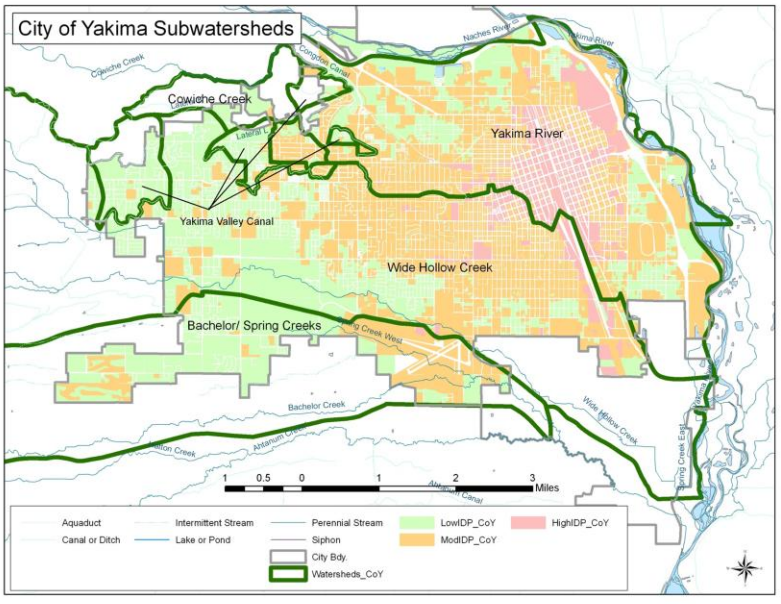
Illicit Discharge Potential City of Yakima

City of Yakima
IDP



One method using GIS to determine illicit discharge potential. Annexation history is used as a proxy for development age (older developments are more likely to have illicit connections or discharges. Land use is broken into industrial (highest illicit discharge potential), commercial, residential, agricultural, undeveloped/park (lowest potential). Annexation history and land are combined in GIS to show high, moderate, and low illicit discharge potential areas. More inputs including sewer and storm sewer line locations could be included to provide more detailed evaluation.

IDDE Staff



Watershed boundaries are placed on the illicit discharge potential map. The percentage of high, moderate, and low illicit discharge potential for each receiving water watershed could be calculated. The watershed with the highest percentage of high potential could be prioritized for investigation and so forth.

Illicit Discharge Detection and Elimination (IDDE) Staff

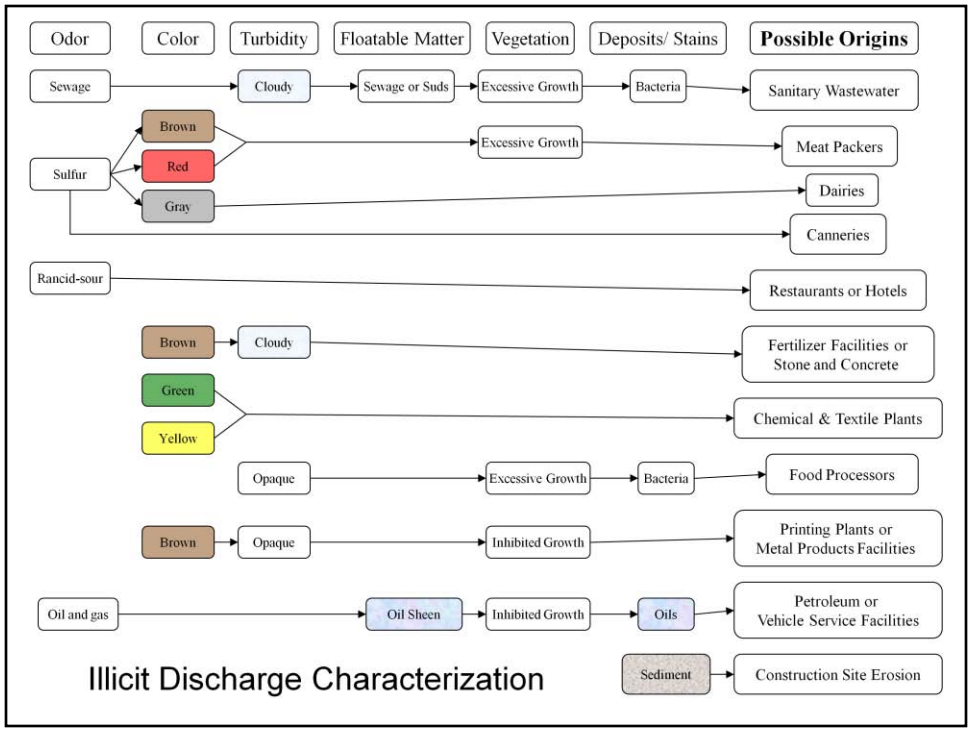
Characterizing Illicit Discharges

Center for Watershed Protection photos

Characterize the nature of and threat posed by illicit discharges

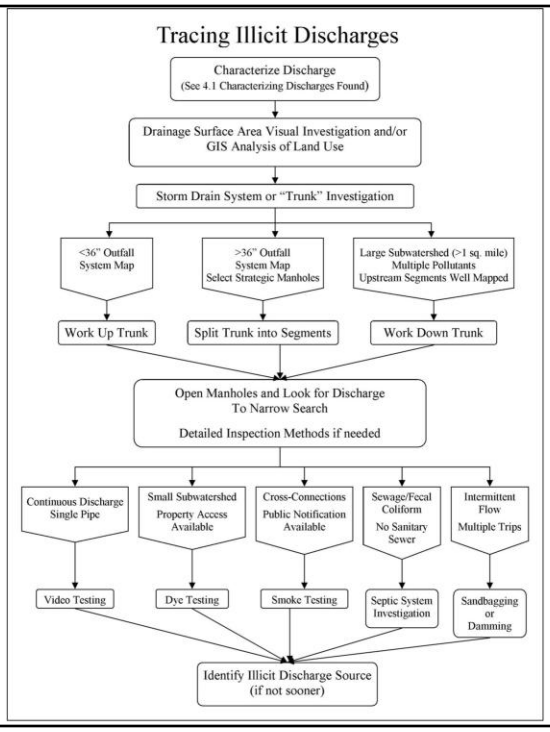
- Investigate within 7 days (on avg.) of report.
- Immediately if an emergency.

Summary of methods and procedures included in Illicit Discharge Detection and Elimination Procedures.



This chart shows how various characteristics including odor, color, turbidity, floatable matter, vegetation, and deposits/stains commonly describe the same illicit discharge. Possible origins for these combinations of characteristics are also presented. For all field staff, noting and reporting the characteristics of an observed illicit discharge will assist stormwater staff identify the origin. This chart also provides stormwater staff a visual methods to identify the source of an illicit discharge.

IDDE Staff

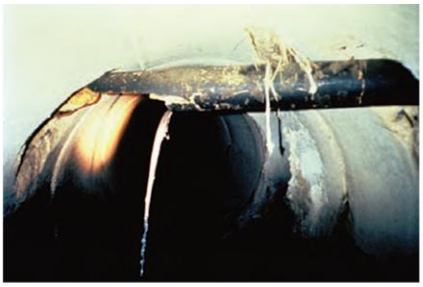


Flow chart for tracing illicit discharges. Continue down flow chart until illicit discharge source is identified.

IDDE Staff

Ending the Illicit Discharge

- Notification
- Technical Assistance
- Follow-up Inspection
- Enforcement (if needed)



Center for Watershed Protection photo

Procedures for ending the illicit discharges. Involve Code Enforcement if needed.

IDDE Staff

Regional Stormwater Lead Role

NPDES Permit Requirements

- Inform public employees, businesses, and the general public about illicit discharge hazards (Aug. 19, 2011).
- Reporting Hotline (Feb. 16, 2009)
  - Call 574-2300 or e-mail PublicServicesIllicitDischarge@co.yakima.wa.us.
- Record all calls received and follow-up actions.
- Program evaluation and assessment procedures
- Training
  - Employees who identify, investigate, terminate, cleanup, and report an illicit discharge or connection.
  - All municipal field staff who might come into contact with or observe an illicit discharge or connection.

Yakima County is Regional Stormwater Lead and is tasked by an ILA to complete these permit requirements.

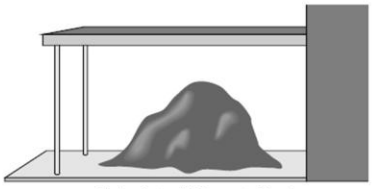
Operation & Maintenance Staff

What is your role?

What are Best Management Practices (BMPs)?

Practices that prevent or reduce the release of pollutants and other adverse impacts to receiving waters.

- Operational (Source Control)
  - Schedules of Activities
  - Prohibitions of Practices
  - Maintenance Procedures
- Structural (Treatment or Flow Control)



Ecology Eastern WA Stormwater Manual

Best Management Practices (BMPs) are practices that prevent or reduce the release of pollutants and other adverse impacts to receiving waters. Categories of BMPs include the following.

Operation & Maintenance Staff

What is your role?

NPDES Permit Requirements

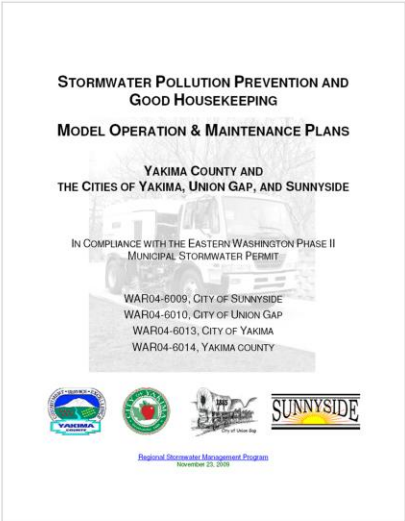
- Develop and implement an Operation and Maintenance Plan (Feb. 16, 2010)
- BMPs shall be at least as protective as those in the:

Stormwater Management Manual for Eastern Washington

OR

Yakima County Regional Stormwater Manual (approved by Ecology as equivalent)

- BMPs must be implemented by Aug. 16, 2011.



Operations and maintenance plans containing BMPs for various types of municipal O&M activities have been developed by the regional stormwater group. BMPs included must be at least as protective as the Stormwater Management Manual for Eastern Washington or the Yakima County Regional Stormwater Manual (once approved by Ecology). These BMPs must be implemented by Aug. 16, 2011. The following slides outline types of municipal facilities and O&M activities that the O&M Plan addresses. Specific BMPs for these O&M activities will presented in a future training.

Operation & Maintenance Staff

Best Management Practices

General BMPs

- Avoid and prevent anything other than rain from entering storm drains
- Sweep or vacuum project dust and debris
- Sweep or vacuum prior to street, sidewalk, and building washing
- Follow product labels
- Carry spill control kit

http://city.milwaukee.gov/StormDrainInletProte16793.htm

Operation & Maintenance Staff

Best Management Practices

General BMPs

- Insure contractors follow BMPs
- Properly dispose of wastes
  - Sanitary sewer
  - Landfill
  - Recycling center
- Report spills or accidental discharges to storm drain system

http://www.carterlake.swilsa.lib.ia.us/contact/imgA.jpg

MS4 Operation & Maintenance Staff

What is your role?

- Catch Basin Cleaning
- Stormwater System Inspection & Maintenance
- Structural BMP Inspections & Maintenance
- Recordkeeping
- Inspect minimum 95% of all known stormwater treatment and flow control facilities at least once by Feb. 16, 2012.
- Spot checks of treatment and flow control facilities after major storms.
  - Greater than 10-year recurrence interval (24 hour storm).
  - Yakima area: > 1.4" rain
  - Sunnyside area: > 1.2" rain

A comprehensive MS4 Operation and Maintenance Plan has been developed by the regional stormwater group. This plan describes inspection/maintenance schedules and thresholds for any structures or facilities that make up the MS4. Specific permit requirements include the following.

Street & Parking Lot
Operation & Maintenance Staff

What is your role?

O&M Plan Addresses:

- All-Season BMPs
  - Street Sweeping
  - Street Repair & Maintenance
  - Roadside Vegetation Control
  - Dust Control
- Winter Activity BMPs
  - Deicing
  - Anti-icing
  - Material Storage Areas (Salt, Sand, or Other Chemical)

http://missionviejodispatch.com/wp-content/uploads/2010/03/Holtzman-street-21551-Bogarra1.JPG

The Roads, Highways, and Parking Lot O&M Plan addresses the following.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

http://www.tymco.com/sweepers/index.htm

Street Sweeping and Cleaning

Always:

- Use regenerative air sweepers
  - Could also use in tandem with a vacuum sweeper

Whenever Possible:

- Sweep streets before catch basin cleaning
- Conduct sweeping at optimal frequencies.
  - Sweeping more often = reduced catch basin cleaning?
  - Sweeping more often = less trips to dispose of waste?

- Vary depending on land use, traffic volume, and rainfall patterns.

- Produce the most cost-effective annual reduction of pollutants in stormwater

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Street Sweeping and Cleaning

Whenever Possible:

- Train operators in those factors that result in optimal pollutant removal:
  - Sweeper speed
  - Brush adjustment and rotation rate
  - Sweeping pattern
  - Maneuvering around parked vehicles
  - Interim storage and disposal methods.

http://www.sonoransweep.com/ConstructionServices/sweeper.htm

- Consider periodic parking restrictions to ensure along curb is swept.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Street Sweeping and Cleaning

http://www.jakps.com/nss-folder/photogallery/0707.JPG

Proper Waste Disposal

- Properly dispose of wastes
  - Insures that pollutants don't end up in a storm drain or surface water in another location.

Road Sweeping Non-Pickup (if applicable)

May only be brushed onto roadsides on roads without curb and gutter

- Sweepings shall **not** be brushed into wet ditches, streams or other water bodies.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Street Repair and Maintenance

Examples activities:

- Pavement marking
- Patching
- Resurfacing
- Sealing
- Right-of-way maintenance

http://community.cbs47.tv/blogs/kenmalloy/archive/2010/05/31/4373731.aspx

Pollutants could include:

- Metals
- Chlorides
- Hydrocarbons
- Nutrients
- Sediment
- Trash

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Road Surface Maintenance

Always:

- Prevent debris, oils, cleaning agents, and sediment from entering storm drains.
- Sweep or vacuum dust and debris before washing work sites.

http://www.erosioncontrol.com/assets/archives/ec0807_42_270.jpg

Whenever Possible:

- Avoid work in wet weather
- Properly contain and dispose of any residue from cleaning tools.
  - Use heat to clean equipment where possible, avoiding solvents.
  - Minimize vehicle and equipment cleaning on site.

Use and maintain storm drain filter fabrics or similar devices.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Pavement Marking & Sign

Always:

- Prevent paint from entering storm drains and water bodies.
- Store paint in spill proof containers or covered areas.
- Properly contain and dispose of unused paints, cleaning materials, etc.
- Sweep or vacuum:
  - Before power washing
  - After grinding and power washing before using water to clean up sites.

http://able2know.org/topic/45512-1

- Properly dispose of debris.
- Cleaning wastes include unused paint, cleaning materials, other spent materials

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Sign, Guard Rail, Traffic Signal, and Other Road Feature Maintenance

Always:

- Prevent :

  - Disturbed soil

  - Paint and debris

from entering the MS4 or surface waters

http://www.newson6.com/story/14059983/snow-cleanup?redirected=true

Whenever Possible:

- Minimize the area of soil disturbance
- If soil is disturbed, use sediment trapping and cover BMPs
  - Seed disturbed soils if the area will sustain vegetation.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Roadside Vegetation Control

- Maintains sight distances
- Controls unwanted vegetation growth
- Controls noxious weeds.

But, these activities could adversely impact water quality.

http://www.uintahweeds.org/Pics/roadside_kochia02.jpg

Always:

- Perform mowing and chemical application to the extent needed.
- Never apply pesticide into water, unless labeled for that use.

- Natural vegetation is left in place to the extent possible, considering safety for visibility and ditch flow capacity.
- Some pesticides are labeled for this type of application and may require a NPDES permit.

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Roadside Vegetation Control

Always:

- Avoid herbicide applications within 100 feet of a water body.
- Avoid herbicide application on or near storm drain inlets
- Follow product labels
- Time application when runoff is unlikely.
- Use lowest possible rate to achieve desired level of vegetation control

Whenever Possible:

- Minimize the area of soil disturbance

http://www.salceygroup.co.uk/commercial-services-vegetation-management.php

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Gravel Road Maintenance

http://www.hawaiihighways.com/photos-Lava-Closures-page2.htm

Always:

- Follow product labels
- Maintain equipment for proper application.
- Use only approved dust suppressant chemicals

Whenever Possible:

- Do not apply product during or just before a heavy rainfall.
- Restrict use of product if within 25 feet of a body of water.
- Calibrate equipment to evenly distribute products at optimal rate for binding surfaces.

http://garrisenvi.com/earthbind100.html

Dust suppressant chemicals Ecology Publication #96-433

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Winter Activities

- Deicing
- Anti-icing
- Material Storage Areas
  (Salt, Sand, or Other Chemical)

- Depleted Dissolved Oxygen
  (acetate with calcium or magnesium anti/de-icers)
- Increased Conductivity
  (calcium, magnesium, and acetate ions)
- Increased Alkalinity and pH
  (acetate)
- Sand could carry pollutants

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Anti-Icing

Always:

- Apply at appropriate rate to provide public safety, while avoiding excessive application.
- Follow manufacturer's recommendations.

De-Icing & Sanding

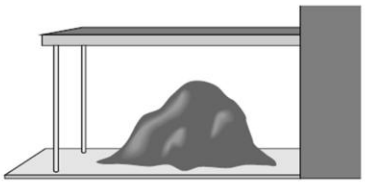
Always:

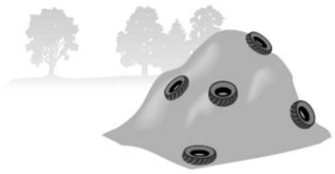
- Apply enough to improve vehicle traction.
- Allow maximum melting before plowing or reapplication.
- Sweep streets in early spring to collect accumulated winter material

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Material Storage Areas





Always:

Operational BMP

- Do not hose down stockpile areas to storm drains or a receiving waters.

Structural BMPs

- If greater than 5 cubic yards material
  - Store in a building or covered paved/bermed area
  - Temporary plastic sheeting cover
  - Pave the area and install a stormwater drainage system with curbs or berms along the perimeter

Street & Parking Lot
Operation & Maintenance Staff

Best Management Practices

Material Storage Areas

Always:

Structural BMPs

- Large stockpiles that cannot be covered:
  - Implement perimeter containment practices
  - Install treatment BMPs

http://eideard.wordpress.com/2009/03/09/what-determines-the-size-of-giant-sand-dunes/

Whenever Possible:

Treatment BMP

- Convey stormwater stockpile areas to treatment BMPs (wet vault, pond, etc.)

Additional Operational BMPs

- Design slope to drain stormwater to perimeter
- Sweep paved storage areas regularly

Vehicle Fleet
Operation & Maintenance Staff

What is your role?

O&M Plan Addresses:

- Storage
- Washing
- Maintenance

http://www.ci.salem.nh.us/images/fleet.jpg

Pollutant Sources Include:

- Parts/vehicle cleaning
- Spills/leaks of fuel and other liquids
- Vehicle wash water
- Replacement of liquids
- Outdoor storage of batteries/liquids/parts, and vehicle parking.

The Vehicle Fleet O&M Plan addresses storage, washing, and maintenance. The permit specifically requires all washing and maintenance be conducted in

self contained covered building or in designated wash and/or maintenance areas

operated to separate wash water from stormwater.

Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Vehicle Storage

http%3a//www.bestservices1.com/parking_lot_vacuum_sweeping

Always:
Operational BMPs:

- Sweep parking lots and storage areas regularly.
- Parking lot washing:
  - Discharge water to sanitary sewer if allowed
  - Avoid discharging to a storm drain or receiving water.
- Vehicles washing and repair:
  - Take to wash and repair facilities, not in the parking lot.

http://www.bbmaintenanceservices.com/parkinglotmaintenance.htm

Vehicle Fleet
Operation & Maintenance Staff

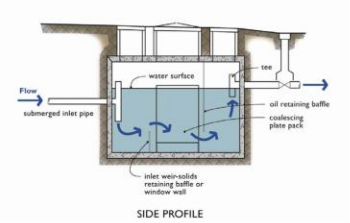
Best Management Practices

Vehicle Storage

Always:

Treatment BMPs:

- High-use sites
  - An oil removal system such as an



American Petroleum Institute (API) (also called baffle type)

OR

Coalescing plate (CP) oil and water separator, catch basin filter, or equivalent BMP

Vehicle high-use site characteristics include:

Average daily traffic (ADT) count ≥ 100 vehicles per 1,000 ft.² of gross building area

OR

Storage of a fleet of 25 or more 10 ton diesel vehicles
(trucks, buses, trains, heavy equipment, etc.)

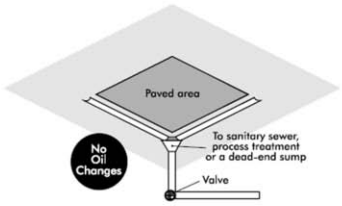
Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Washing

Always:

- Wash vehicles at commercial or municipal facilities that drain to the sanitary sewer.
- Outside washing areas should include:
  - Paved areas
  - Spill containment pads
  - Collect wash water in a pad drain system
  - Drain to sanitary sewer



Uncovered Wash Area

Ecology Eastern WA Stormwater Manual

- Water should only be discharged to the storm drain system or surface waters if it is first treated and an NPDES permit is in place.

Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Washing

Whenever Possible:

- Wash area should be well marked.
- Use phosphate-free biodegradable detergents.
- Consider recycling wash water

http://www.gamesdash.com/limg/1/680/car-wash-anyone.jpg

- Consider the selection of soaps/detergents and treatment BMPs should be considered carefully.
  - Oil/water separators are ineffective in removing water soluble detergents.

Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Maintenance

http://www.oileater.com/sorbent-products.html

Always:

Operational BMPs:

- Inspect all incoming vehicles, parts, and equipment stored temporarily outside for leaks.
- Use drip pans or containers under leaks
- Remove batteries and liquids in designated contained areas
- Empty oil and fuel filters before disposal
    - Properly dispose of waste oil and fuel.

Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Maintenance

Always:
Operational BMPs:

- Do not connect shop flood drains to storm drains or surface water.

http://www.cpwac.org/publicworks.aspx?id=596

- Do not pour/convey wash water, liquid waste, or other pollutants into storm drains or to surface water.
    - Check with local jurisdiction to convey to sanitary sewer or to another disposal facility.

Vehicle Fleet
Operation & Maintenance Staff

Best Management Practices

Maintenance

Whenever Possible:

- Avoid hosing down work areas.
  - Use dry methods for cleaning leaked fluids.
- Recycle:
  - Greases
  - Used oil
  - Oil filters
  - Antifreeze
  - Cleaning solutions
  - Automotive batteries
  - Other possible contaminants
- Do not mix incompatible waste liquids stored for recycling.

http://www.examiner.com/city-hall-in-louisville/louisville-mayor-plans-consolidation-of-vehicle-repair-sites

Municipal Building
Operation & Maintenance Staff

What is your role?

O&M Plan Addresses:

- Cleaning & Washing
- Painting &
  Other Maintenance Activities

http://www.flickr.com/photos/29448949@N06/2758315486/

http://www.homeimprovementpages.com.au/home_maintenance/Carpet_Cleaning

The Municipal Building O&M Plan addresses the following. BMPs also apply to contractors operating on municipality owned property.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Building Cleaning & Washing

- Washing of carpet and other interior items with mobile equipment.
- Pressure washing of buildings, rooftops, and other large objects.

Wash water could be contaminated with:

- Suspended solids
- Heavy metals
- Other pollutants

http://adminpilot.s3.amazonaws.com/chuckbiagicarpet/files/2011/04/edited-biagi-2.jpg

- Report any spills or accidental discharges to the storm drain system to a supervisor and then the Stormwater program.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Building Cleaning & Washing

Always:

- Dispose of carpet or interior waste water to the sanitary sewer.
- Collect & convey exterior wash water to:
  - Sanitary sewer system
  - Soils with treatment capacity

  Sump pump, wet vacuum, or similar device could be used
- Cover nearby storm drain inlets if needed

Whenever Possible:

- Avoid using excessive amounts of water for interior and exterior washing.
- Recycle the wash water.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

Pollutant sources include:

- Surface preparation and application of paints, finishes, and(or) coatings to buildings.
- Building repair work
- Remodeling of buildings
- Construction of buildings

http://www.fugoolive.com/exterior-painting-when-is-it-time-to-paint.html

Potential pollutants include:

- Organic compounds
- Oils and greases
- Heavy metals
- Suspended solids
- Toxic hydrocarbons in solvents
- Abnormal pH

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

Always:
Operational BMPs:

- Never dump any toxic substance or liquid waste on the:
  - Pavement
  - Ground
  - Toward a storm drain inlet.
    - Report any spills or accidental discharges
- Use ground or drop cloths
- Properly clean and temporarily store collected debris daily.

http://www.paintersinportland.com/system/files/Spring09_PaintYourHeartOut.jpg

Report any spills or accidental discharges to the storm drain system to a supervisor and then the Stormwater program.

Use ground or drop cloths underneath outdoor painting, scraping, sandblasting work.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

Always:
Operational BMPs:

- Wipe up spills with rags and other absorbent materials immediately.
  - Do not hose down the area to a storm drain, receiving water, or conveyance ditch to receiving water.
- Use a storm drain cover, filter fabric, or similar runoff control device
  - Maintain filter device

http://city.milwaukee.gov/StormDrainInletProte16793.htm

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

Always:
Operational BMPs:

- Use a ground cloth or container for paint mixing and tool cleaning
  - Properly dispose of all wastes
- Collect and properly dispose used solvents when cleaning brushes and tools
- Store toxic materials under cover (tarp, etc.)
- Store and maintain a spill control kit

http://www.westernsafety.com/FlintTrading/flintpg2.html

Containers for paint mixing and tool cleaning: pail, drum, drip pan, tarpaulin, or other protective device for paint mixing and tool cleaning.

Collect solvents when when cleaning brushes and tools covered with non-water based paints, finishes, or other materials.

- Store toxic materials under cover (tarp, etc.):
  - Precipitation events
  - When not in use to prevent contact with stormwater.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

http://www.campverde.az.gov/wp-content/uploads/2010/07/Paint-stormwater-violation.jpg

Always:
Structural BMP:

- Enclose and(or) contain all work while using a spray gun or conducting sand blasting

Also incompliance with other applicable requirements:

- Air pollution control
- Occupational Safety and Health Administration (OSHA)
- Washington Industrial Safety and Health Act (WISHA)

Do not conduct during windy conditions:

- Outside spraying
- Grit blasting
- Sanding activities

Windy conditions render containment ineffective.

Municipal Building
Operation & Maintenance Staff

Best Management Practices

Painting & Other Maintenance Activities

Whenever Possible:
Operational BMPs:

- Clean paintbrushes and tools covered with water-based paints in:
  - Sinks connected to sanitary sewers
  - Portable containers that can be dumped into a sanitary sewer drain.
- Recycle paint, paint thinner, solvents, pressure wash water, etc.
- Use efficient spray equipment:

  - Electrostatic
  - Air-atomized
  - High volume/low pressure
  - Gravity feed

- If feasible, purchase recycled paints, paint thinner, solvents, etc.

http://www.ci.liberty.mo.us/images/pages/n1339/image001.jpg

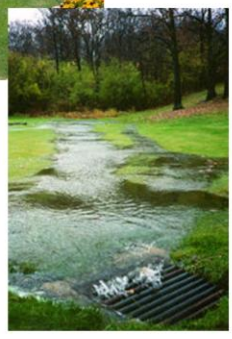
Park and Open Space
Operation & Maintenance Staff

What is your role?

O&M Plan Addresses:

- Proper Application of Pesticides and Herbicides
- Proper Application of Fertilizer
- Sediment and Erosion Control
- Landscape Maintenance
- Vegetation Disposal
- Trash Management
- Building Exterior Cleaning and Maintenance (covered under municipal building maintenance)

http://www.weblogs.cals.vt.edu/P6



http://en.wikipedia.org/wiki/Runoff_(water)

The O&M Park and Open Space Plan addresses the following. BMPs also apply to contractors operating on municipality owned property.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Pesticides and Herbicides

Always:

- Maintain healthy turf through:
  - Soil conditioning
  - Proper water application
  - Seed mixtures
  - Careful fertilizer applications.

http://www.cityofsacramento.org/parksandrecreation/parks/services-herbicide.htm

Healthy turf:

- Resists disease and weed infestations
- Reduces need for pesticide and herbicide applications.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Pesticides and Herbicides

Always:

- Develop and implement an Integrated Pest Management (IPM) Plan
  - Use pesticides only when other alternatives are not available or appropriate.
  - Choose the least toxic pesticide available that is capable of reducing the infestation to acceptable levels.
- Implement a pesticide-use plan and include at a minimum:
  - List of selected pesticides and their specific uses
  - Brands
  - Formulations
  - Application methods and quantities to be used
  - Equipment use and maintenance procedures
  - Safety, storage, and disposal methods
  - Monitoring, record keeping, and public notice procedures.

All procedures shall conform to:

- Chapter 17.21 Revised Code of Washington (RCW)
- Chapter 16-228 Washington Administrative Code (WAC)

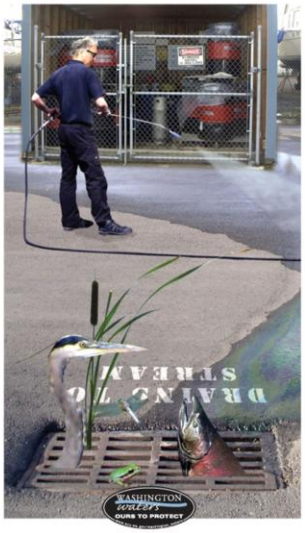
Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Pesticides and Herbicides

Always:

- Always follow label directions.
  (weather, application rate, etc.)
- Mixing and cleaning in a contained area.
- Store product in enclosed areas or in covered impervious containment.
- Assure application equipment has immediate shutoff for emergencies.
- Avoid spraying non-permitted pesticides within 100 feet of open waters.



- Do not hose down the paved areas to storm drains
- Ensure spills/leaks are cleaned up
- Store and maintain spill cleanup materials

- Spray applications should only be conducted during weather conditions as specified in the label direction and applicable local and state regulations.

  Do <u>not</u> apply during rain or immediately before expected rain.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Pesticides and Herbicides

Whenever Possible:

- Consider alternatives to the use of pesticides such as:
  - Covering or harvesting weeds
  - Substitute vegetative growth
  - Manual weed control.

- Consider the use of soil amendments
  - Compost is an example
  - Could control some common diseases in plants.

http://danielk123.wordpress.com/aquatic-pesticides/

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Pesticides and Herbicides

Whenever Possible:

- Develop an annual evaluation procedure including:
  - Review of the effectiveness of pesticide applications
  - Impact on buffers and sensitive areas (including potable wells)
  - Public concerns
  - Recent toxicological information on pesticides used/proposed for use.

- Recycle rinsate from equipment cleaning/ triple-rinsing back into product.

http://www.public-domain-image.com/nature-andscape/river/slides/wisconsin-medford-stream-river-water-park-picnic.html

Keep records to document effectiveness.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Fertilizer

Nitrogen and phosphorus can = algal blooms in water bodies.

Algal blooms decrease dissolved oxygen in water

May cause death of aquatic animals and plants.

http://www.earthweek.com/2008/ew080829/ew080829xLARGE.jpg

Always:

- Evaluate soil nutrient levels through regular testing to ensure the best possible efficiency and economy of fertilization.
- Apply fertilizers according to label directions.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Proper Application of Fertilizer

Always:

- Apply fertilizers in amounts appropriate for target vegetation
- Time the fertilizer application to periods of maximum plant uptake (fall & spring)
- Fertilizers should not be applied to stormwater treatment BMP facilities.

Whenever Possible:

- Use natural compost and organic fertilizers instead of synthetic fertilizers.
- Use slow release fertilizers or resin coated fertilizers.

http://www.lawnbrothers.org/images/organic-fertilizer-application.jpg

Fertilizers should not be applied to grass swales, filter strips, or buffer areas that drain to sensitive water bodies unless approved by the local jurisdiction.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Sediment and Erosion Control & Landscape Maintenance

- Associated with:

  - Grading
  - Soil transfer
  - Vegetation removal
  - Mowing
  - Trimming
  - Other activities

- Pollutants may attach to sediment

Always:

- Implement erosion control techniques or devices to stabilize disturbed areas.
- Minimize land disturbance
- Minimize slope lengths.
- Implement site planning to avoid sensitive areas.

http%3a//www.redfeatherllc.us/erosion.htm

Use mulch or other erosion control measures when soils are exposed for more than a week.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Sediment and Erosion Control & Landscape Maintenance

Whenever Possible:

- Avoid land disturbance during wet months.
- Install erosion control blankets when seeding near drainage ways.
- Protect natural vegetation, especially near water bodies and steep slopes.
- Aerate lawns regularly in areas of heavy use where soil compacts.

http%3a//www.turfdoctorinc.com/soil_aeration.html

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Vegetation Disposal

May be required for activities including mowing, weeding, and trimming.

Improper disposal could carry pollutants into or hinder the proper function of the MS4.

Always:
- Dispose of collected vegetation properly.
- Do not dispose of collected vegetation into storm drains or water bodies

Whenever Possible:
- Conduct mulch-mowing

Background image:
http://keeprocklandbeautiful.org/index.php?page=clean-streets-clean-streams

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Vegetation Disposal

Whenever Possible:

- Dispose of grass clippings, leaves, sticks, etc. by composting.
- Consider using growth regulating products to reduce the frequency of mowing and quantity of clippings.

http://rds.yahoo.com/_ylt=A0PDoX5z8uINS3MAh.CjzbkF/SIG=12qr4ut6d/EXP=1307206387/**http%3a//blogs.smarter.com/homegarden/2007/08/08/backyard-compost-piles/

Park and Open Space
Operation & Maintenance Staff

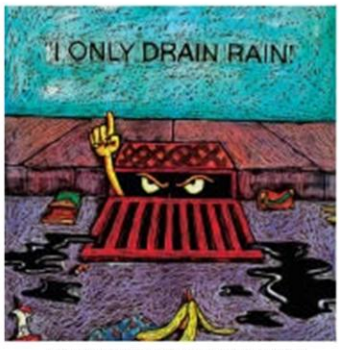
Best Management Practices

Trash Management

Activities include:

- Collection
- Storage
- Transport

Garbage and leachate could enter drains or receiving waters



http://www.mfe.govt.nz/publications/sus-dev/risk-radar-sheets-jul06/images/stormwater-poster-2.jpg

Always:
Operational BMPs:

- Cover trash bins and dumpsters
- Dispose of hazardous waste and gasoline/oil contaminated materials properly, not in a dumpster or trash bin.

Park and Open Space
Operation & Maintenance Staff

Best Management Practices

Trash Management

Whenever Possible:
Operational BMPs:

http://www.pneac.org/Stormwater/pg-refuse-containers.cfm

- Store garbage containers:
  - Beneath a covered structure or inside
  - On a flat, concrete surface that does not drain directly into storm drains.
- Inspect garbage bins for leaks regularly
- Request/use dumpsters without drain holes.

Structural BMP:
- Install containment berms, curbing, or vegetation strips

Have repairs made immediately.

Construction Projects
Operation & Maintenance Staff

What is your role?

- Public construction projects shall comply with the requirements applied to private projects.
- Coverage under *General NPDES Permit for Stormwater Discharges Associated with Construction Activities*

  or

  Another NPDES permit that covers stormwater discharges associated with the activity.
- Include construction and post-construction controls selected and implement pursuant to the requirements in Appendix 1 of the Eastern Washington Phase II Municipal Stormwater NPDES Permit.

Construction projects shall be covered under the *General NPDES Permit for Stormwater Discharges Associated with Construction Activities.*

Industrial Activity
Operation & Maintenance Staff

What is your role?

Municipal operations listed below require coverage under
General NPDES Permit for Stormwater Discharges
Associated with Industrial Activities

or

Another NPDES permit that covers stormwater
discharges associated with the activity

Municipal Industrial Facility Examples	Description and SIC codes
Hazardous Waste Treatment, Storage, or Disposal	Including those operating under interim status or a permit under Subtitle C of the Resource Conservation and Recovery Act (RCRA).
Landfills, Land Application Sites, and Open Dumps	Facilities receive or have received any industrial wastes (waste that is received from any industrial facilities, including those subject to regulation under Subtitle D of RCRA).
Recycling Facilities	Facilities involved in recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile recyclers.
Transportation Facilities	Those classified under the following SICs which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations: 40 – Railroad Transportation 41 – Local and Interurban Transit Passenger Transportation 45 – Transportation by Air
Sewage Treatment Plants	Those with a design flow of one million gallons per day or more.

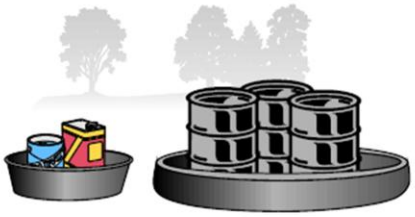
Table shows industrial facilities commonly owned and operated by a municipality that would require Industrial Stormwater NPDES Permit Coverage.

Currently only applicable to the Yakima Air Terminal – McAllister Field.

Material Storage, Heavy Equipment Storage, and Maintenance Area Operation & Maintenance Staff

What is your role?

- Develop and implement a *Stormwater Pollution Prevention Plan (SWPPP)*
- Generic SWPPPs can be applied at multiple sites.
- Facilities covered under an Industrial NPDES Permit are exempt



Secondary Containment System

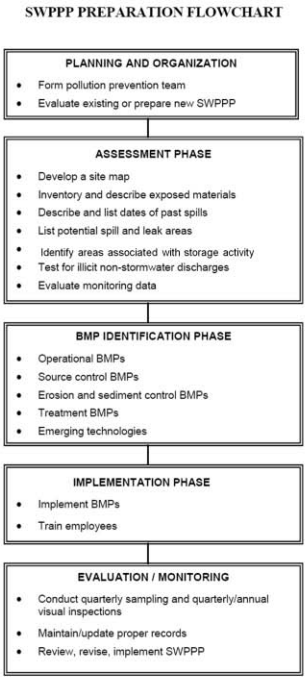
Ecology Eastern WA Stormwater Manual

Only applies to municipal material storage, heavy equipment storage, and maintenance areas where runoff could enter the MS4 or directly to surface waters. The SWPPP consists of a site map and a set of forms. The forms identify or document he following:

1 - Pollution Prevention Team
2 - Materials Inventory
2A - Significant Materials Exposed
3 - Potential Pollutants
4 - Significant Spill and Leaks
5 - Associated Areas
6 - Non-Stormwater Discharge Assessment (Dry Weather)
7 - Non-Stormwater Discharge Assessment and Failure to Certify
8 - Minimum BMP Identification
8A - Additional BMP Identification
9 - Implementation
10 - Employee Training
11 - Visual Inspections

Material Storage,
Heavy Equipment Storage,
and Maintenance Area

Operation & Maintenance
Staff



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7 - Non-Stormwater Discharge Assessment and Failure to Certify
8 - Minimum BMP Identification
8A - Additional BMP Identification
9 - Implementation
10 - Employee Training
11 - Visual Inspections

Flood Management Project
Operation & Maintenance Staff

What is your role?

- Assess water quality impacts in the design of all new flood management projects that are **associated with the MS4 or discharge to the MS4.**
- Ecology encourages review and evaluation of existing flood management projects that are **associated with the MS4 or discharge to the MS4** to determine whether changes or additions should be made to improve water quality.

Only applies to flood management projects that are associated with the MS4 or discharge to the MS4.

Currently no projects by any of the regional partners have been identified that fall in to this category.

Other Facility - Utility
Operation & Maintenance Staff

What is your role?

Potable Water Source Discharges

- Water Line Flushing
- Fire Hydrant System
- Pipeline Hydrostatic Test Water
- Discharges to the MS4 or Underground Injection Controls (UICs) must be:
  - Dechlorinated to 0.1 ppm or less.
  - pH adjusted if necessary (to 6.5-8.5)
  - Volumetrically and velocity controlled to prevent resuspension of sediments.

http://www.flickr.com/photos/geog/2041500152/

Illicit discharge ordinance adopted in 2009 requires dechlorination to 0.1 ppm or less within NPDES permit areas.

Other Facility - Utility
Operation & Maintenance Staff

What is your role?

Dechlorination Methods

Non-MS4 Practices:

- Discharge to Sanitary Sewer
- Discharge to Retention Tank
- Land Application

Discharge to MS4 or UICs:

- Dechlorinating Diffuser and Chemical Tablet Chamber
- Vitamin C (in ascorbic acid and sodium ascorbate form)
- Dechlorination Mats/Strips
- Venturi Based Dechlorination Devices
  - Feeds chemical solutions into chlorinated water flow

http://www.ardenindustries.com/bazooka.htm

The following are dechlorination methods that could be used to dechlorinate water to meet the 0.1 ppm chlorine requirement.

Other Facility - Airport
Operation & Maintenance Staff

What is your role?

Airport Specific

O&M Plan Addresses Aircraft, Runway, and Taxiway:

- Anti-icing
- De-icing
- Cleaning

Conduct aircraft de/anti-icing in a designated area that does not drain into the storm sewer.

http://www.flickr.com/photos/beautifulcataya/3217295472/

BMPs related to airport facilities center around anti-icing, de-icing, and cleaning or aircraft, runways, and taxiways. These BMPs could be included in a Stormwater Pollution Prevention Plan (SWPPP) required by an Industrial Stormwater NPDES Permit.

What can homeowners do?

- Use fertilizers sparingly and sweep up driveways, sidewalks, and gutters
- Don't over-water your lawn
- Vegetate bare spots in your yard
- Compost yard waste
- Use least toxic pesticides, follow labels, and learn how to prevent pest problems
- Direct downspouts away from paved surfaces
- Consider a rain garden to capture runoff

The following are BMPs a home owner can implement to prevent pollutants from entering the MS4.

What can homeowners do?

- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly
- Never dump anything down storm drains or in streams

Additional BMPs a home owner can implement to prevent pollutants from entering the MS4.

What can businesses do?

Preventing Illicit Discharges

Management and Disposal of Toxic Materials

Need to add notes for future. Slide not needed for Municipal Trainings.

Contractors

What can builders do?

Development of Stormwater Site and Erosion Control Plans

Need to add notes for future. Slide not needed for Municipal Trainings.

Contractors

What can builders do?

Stormwater BMPs

Need to add notes for future. Slide not needed for Municipal Trainings.

Contractors

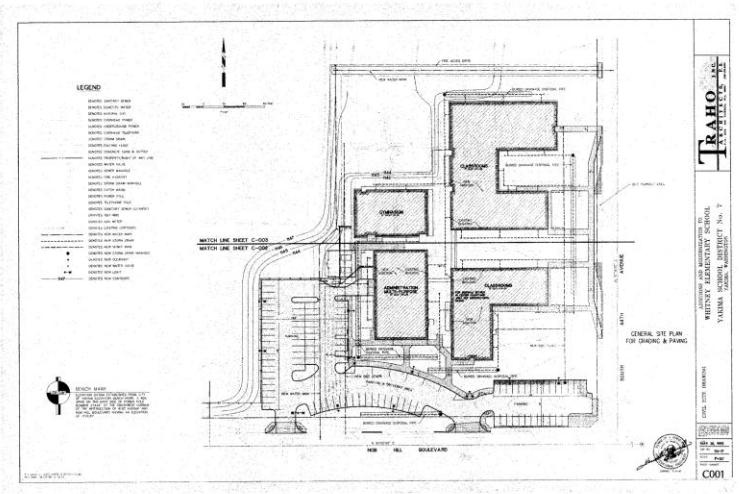
What can builders do?

Technical Standards

Need to add notes for future. Slide not needed for Municipal Trainings.

Designers
Engineers
Developers
Planners

What can designers do?



Development of Post-Construction Stormwater Plans

Need to add notes for future. Slide not needed for Municipal Trainings.

Designers
Engineers
Developers
Planners

What can engineers do?

Stormwater BMPs

Need to add notes for future. Slide not needed for Municipal Trainings.

What other kinds of training are available?

AGC Education Foundation

The Journal for Surface Water Quality Professionals
Stormwater

Training Opportunities

Summary

Regional Efforts are Compliant and Cost Effective

Scope of the Program is Limited to Requirements

Focus is on Water Quality

First Five Years of Permit is Program Development

Policies
Ordinances
Municipal Operations

We are Already Doing a Lot

Meanwhile, There are Things Everyone Can Do

Regional Stormwater Program Website
http://www.yakimacounty.us/Stormwater/

Operation & Maintenance Staff

Summary

Regional Efforts are Compliant and Cost Effective

Focus is on Water Quality

Best Management Practices (BMPs)
keep pollutants
out of storm drains and waterways

Possible to Save Money and Protect Stormwater

We are Already Doing a Lot

Meanwhile, There are Things Everyone Can Do

Regional Stormwater Program Website

http://www.yakimacounty.us/Stormwater/

Need video file linked to slide to work. Exploding manhole on Minnesota(?) freeway.


Questions?

City of Yakima-Public Works

Parks Maintenance-Safety Meeting

Includes Tahoma Cemetery and Fisher Golf

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1		Arias, Isidro	CE
2		Byers, Michael	S
3		Goeken, Jason	S
4		Herreid, Jim	Fi-S
5		Honanie, Cornell	
6		Johnson, Doug	
7		Julsing, Rae	
8	DM	Miller Debra	S
9		Molina, Quintin	Fi
10		Murphy, Randy	
11		Pierson, Smokey	CE
12	DR	Rodman, Dawn	S
13	JR	Rodriguez, Juan	
14		Rognlie, Chip	
15	OFF	Salinas, Margarito	
16		Arturo Cenas	
17		Kevin VanEpps	
18	JR	Juan Ramos	
19			
20			
21			

City of Yakima-Public Works

Streets-Safety Meeting

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1	TB	Burke, Tom	25	
2	DC	Catron, David	26	
3		Deason, Wayne	27	
4	CF	Ford, Casey	28	
5		Fraga, Robert	29	
6	JG	Gage, Jeff	30	
7	MH	Hartman, Marc	31	
8	EH	Hazen, Eugene		
9	JK	Kendall, Jay		
10	RK	Kern, Raymond		
11	TL	Lounsbury, Tim		
12	DM	Morford, Dusty		
13		Parries, Jeff		
14	WR	Renecker, Bill		
15	MR	Richards, Michael		
16	KR	Rivard, Kurt		
17	JR	Rutter, John		
18	MS	Schooley, Mark		
19	TS	Schut, Todd		
20		Simpson, Doug		
21	RU	Urioste, Richard		
22	EV	Vatshell, Erik		
23		Willis, Brady		
24				

City of Yakima-Public Works

Equipment Rental-Safety Meeting

Date: 6-15-11

Subject: STORM WATER

My signature or initials indicate my attendance and my understanding of the topics, policies, procedures and information covered at this safety meeting.

1	MH	Haider, Mike
2		Jaquins, Joe
3		Jones, Kerry
4	TM	Marrs, Terry
5		McDowell, Michael
6		Nugent, Michael D.
7		Petri, Stuart
8	RSR	Richey, Rhonda
9		Simpson, Earl
10	D.S.	Stoothoff, David
11		Wonner, Richard
12	SLW	Williams, Steve
13		
14		

Stormwater Monitoring Preparation

Yakima County Regional Stormwater Management Program

Yakima County

The Monitoring and Program Evaluation (S8.) section of the Municipal Stormwater NPDES permit requires three monitoring preparation components by December 31, 2010:

1. Stormwater monitoring site selection;
2. Targeted stormwater management plan (SWMP) effectiveness monitoring questions;
3. Runoff treatment best management practice (BMP) effectiveness monitoring site identification.

The requirements for these permit monitoring components vary for each city and county depending on population.

Ecology has additional information to assist with monitoring preparation which can also be found in Ecology's *Monitoring and Reporting Guidance Phase II Municipal Stormwater Permits located* at http://www.ecy.wa.gov/biblio/1010030.html.

1) Stormwater Monitoring (S8.C.1.a)

Identify outfalls or conveyances for future monitoring within designated land use areas. Select sites based on known water quality problems and/or targeted areas of interest for future monitoring. Note: ***No requirement for Union Gap; two requirements for Sunnyside.*** (due Dec. 2010)

Table 2. Outfalls or conveyances identified where future monitoring could occur.

Site #	Site Location (Outfall description or address)	Latitude (Decimal degrees)	Longitude (Decimal degrees)	Land Use	Why was the site selected?	Site constraints	Contributing basin size (acres)	Other contributing land uses	Water quality concerns
1	OF-160 East of University Park Way at Keys Rd. Swale overflow into unnamed creek/slough then to Moxee Drain.	46.5964	-120.452	Commercial (City of Yakima, City of Sunnyside, and Yakima County)	Only outfall near commercial properties. 11 Catch Basins	Overflow from future swale/pond that is designed to treat and hold 6 month event.	~12 acres	Low-to-medium Density Residential	The unnamed stream/slough does not have any water quality concerns. Moxee Drain: Category 5. Yakima Area Creeks Fecal Coliform TMDL. Critical Salmon Habitat 2005, west of Birchfield Rd. (National Marine Fisheries Service)
2	OF-? (ID number still to be assigned) Piped from ditch at S. 34th Ave. and Meadow Ln. Into Ahtanum Creek.	46.5515	-120.554	High-Density Residential* (City of Yakima and City of Sunnyside) Medium-To-High-Density Residential** (Yakima County)	Defined outfall piped from ditch. Few other outfalls close to medium density residential	CMP outfall piped from ditch. Amount rainfall needed for flow unknown. Attaching sampling equipment.	~35 acres	Low-density Residential	No water quality category listed (Ecology). Critical Salmon Habitat 2005 (National Marine Fisheries Service)
3	DID 44 Ditch Outfall Best sampling point is ~45' up ditch from Buckskin Slough at the outlet of a ditch driveway culvert (west of Old Naches Hwy).	46.6445	-120.5939	Industrial (City of Yakima) Low-Density Residential*** (Yakima County)	Dry weather flows from DID and stormwater from roads. Large drainage area.	Ditch outfall. Best sampling point is ~45' up ditch from Buckskin Slough at outlet of driveway culvert.	~250 acres (excluding area above Gleed Canal)	Agricultural	No water quality category listed (Ecology). Critical Salmon Habitat 2005, east half of Buckskin Slough (National Marine Fisheries Service)

* 4 dwelling units per acre or greater; ** 2 to 4 dwelling units per acre; *** One unit per acre or lower

2) Targeted Stormwater Management Program (SWMP) Effectiveness Monitoring Questions (S8.C.1.b)

Each co-permittee is required to identify two suitable questions, select sites where monitoring would be conducted, and develop a monitoring plan for each question (due Dec. 2010).

Examples:

- Is street sweeping more cost effective than catch basin cleaning at reducing the discharge of toxic pollutants that adhere to sediment?
- Is illicit discharge detection and elimination dry weather outfall screening effective in identifying sources of contamination?
- How effective is illicit connection detection and elimination program at finding leaking septic systems?
- Is the small business education activity effective in improving the implementation of source control BMPs at targeted businesses?
- Does the elimination of an illicit sewer connection have a measurable effect on fecal coliform counts in the receiving water?
- Does stormwater system cleaning produce a measurable improvement in the quality of stormwater discharges?
- Does an additional construction site inspection during the wet season produce a measurable improvement in sediment runoff?
- Does the implementation of pesticide application policies reduce the pesticides found in outfall discharges to fish-bearing creeks?

	Question	*Site location*	*How and Why is the Issue Significant?*	*Could the results be significant to other MS4s? If so, how?*	*Hypothesis about the issue or management actions that will be tested*	*Media* to be collected and tested*	*Parameter(s) and attribute(s) to be measured***	*Expected modifications to management actions depending on the results*
Question #1	Is street sweeping more cost effective than catch basin cleaning at reducing the sediment volume that is discharged?	University Park Way north of Keys Rd.	A greater emphasis could be put on either street sweeping or catch basin cleaning depending on which is more effective at reducing sediment volumes (a surrogate for pollutant loads). Depending on the results a possible cost savings could be realized.	Yes, conclusions may apply to other MS4s and could assist operators of those MS4s in adjusting operation and maintenance actions.	H_0: No difference between measured parameters H_1: There is a difference between measured parameters	Stormwater	Total Suspended Solids (TSS) (mg/L)	The frequency of street sweeping and catch basin cleaning could be adjusted depending on the conclusions of answering this question to further reduce sediment volumes.
Question #2	Is there a measurable difference in sediment volumes at ditch outfalls and pipe network outfalls?	Terrace Heights Bridge Outfalls Selected Ditch Outfall(s) such as OF-? S. 79th Ave. at Hatton Creek or another outfall	Public education and operation and maintenance efforts could be adjusted to whichever type of MS4 has higher sediment volume (surrogate for pollutant loads).	Yes, conclusions may apply assist other MS4s with roadside ditch systems to allocate public education and operation and maintenance activities in the most effective way to reduce sediment volumes.	H_0: No difference between measured parameters H_1: There is a difference between measured parameters	Stormwater	Total Suspended Solids (TSS) (mg/L)	Public education and operation and maintenance activities could be concentrated to the type of MS4 discharge (ditch vs. pipe) that contains the highest sediment volume.

* Stormwater, sediment, or receiving water

** Physical (stream or particle characteristics); Chemical (concentration); Biological (macroinvertebrate, bacteria, algae). Be sure to identify units for each.

3) Runoff Treatment BMP Effectiveness Monitoring (S8.C.1.c)

Yakima County and the City of Yakima (***Note: no requirement for Union Gap and Sunnyside***) are required to prepare to conduct monitoring to evaluate the effectiveness of at least two runoff treatment BMPs, at no fewer than two sites per BMP (due Dec. 2010).

BMPs shall be selected from the following list:

- Basic treatment
  - Biofiltration swale
  - Vegetated Filter swale
  - Wet-pond
  - Wet-vault
  - Treatment wetland
  - Sand filter
  - Dry pond
  - Extended detention dry pond
- Metals treatment
  - Amended sand filter
  - Two facility treatment train
  - Bio-infiltration swale
- Oil treatment
  - Bio-infiltration swale
  - Biofiltration swale
  - Vegetated filter strip
  - Linear sand filter
  - Catch basin insert
  - Catch basin preceded by passive oil control vault

BMP and site location identification.

BMP Type	**Site 1 Location** (description/address/latitude and longitude in decimal degrees)	**Site 2 Location** (description/address/latitude and longitude in decimal degrees)
Bio-infiltration swale	ID # IP-160. Near corner of Univ. Park and Keys Rd. Overflow to OF-160-Overflow (In MH) into unnamed creek (to Moxee Drain). 46.59630,-120.45300. Constructed in 2010.	ID # IP-935. Near corner of Cowiche Canyon Rd. and W. Powerhouse Rd. Overflow to OF-935-Overflow into Cowiche Creek after short overland flow. 46.62660, -120.58100. Constructed in 2011.
No Others Exist	No Others Exist	No Others Exist

Public Services

128 North Second Street · Fourth Floor Courthouse · Yakima, Washington 98901

(509) 574-2300 · 1-800-572-7354 · FAX (509) 574-2301 · www.co.yakima.wa.us

VERN M. REDIFER, P.E., Director

November 9, 2011

Terry Wittmeier
Water Quality Program, Central Regional Office
Washington State Department of Ecology
15 W. Yakima Ave. Suite 200
Yakima, WA 98902

Re: Notice of Violation Docket #8797 dated October 19, 2011

Mr. Wittmeier,

This letter is to satisfy the requirement to notify Ecology of a failure to comply with the terms and conditions in the Eastern Washington Phase II Municipal Stormwater Permit in accordance with Section G20 of the permit, as identified in the above Notice. The violation was regarding the Public Outreach Plan permit requirements, specifically S5.B.1.b, by August 16, 2011.

> *"No later than 180 days prior to the expiration date of this permit, all Permittees shall have developed and fully implemented a public education and outreach strategy. The strategy shall be designed to reach all of the target audiences identified within the geographic area of the Permittee's jurisdiction covered under this permit to meet the education and outreach goals listed in (a) above."*

In addition, this letter responds to the requirement of the Notice to file a report with Ecology stating what steps have been, and are being, taken to resolve the violation.

Our Public Education and Outreach Strategy is contained in our Stormwater Management Program document, submitted to Ecology with our Annual Report for Year 4, dated March 2011. The Performance Measures and Measurable Activities shown in Table 2 of the Annual Report are repeated below with their implementation or completion dates:

Performance Measures	**Date Completed**
1. Identify and Characterize Target Audience	
A. Identify land uses using GIS	February 16, 2010
B. Model estimated pollutant loadings using literature values for pollutant loads from land use types	February 16, 2010
C. Identify land use areas with highest expected pollutant loadings	February 16, 2010

Performance Measures	Date Completed
2. Staff Presentation to Civic Groups	
A. Develop a model speaker's presentation and provide speakers as requested.	March 2010
B. Place speaker request on permittee website	September 20, 2011
3. Distribute Paper Materials	
A. Develop and distribute printed materials for target audiences described in the permit	October 31 - November 4, 2011
B. Keep records of distribution of printed materials	November 2011
4. RSWMP Information on a Website	
A. Set up and maintain a separate web page for the RSWMP web page.	February 2008
B. Establish links to the Regional Stormwater Management website from co-permittee websites	March 2009

We feel that we have satisfied the subject violation and believe this puts our program back in full compliance. Brian Cochrane and Terry Keenhan of my staff would like to discuss future elements of the strategy to avoid any further concerns.

Sincerely,

Vern M. Redifer, PE
Public Services Director

c: Tom Tebb, Ecology Central Regional Director
Charles McKinney, Central Regional Office
Jim Bridges, City of Sunnyside
James Restucci, City of Sunnyside, Mayor
Mark Gervasi, City of Sunnyside, City Manager
Dennis Henne, City of Union Gap
Jim Lemon, City of Union Gap, Mayor
Micah Cawley, City of Yakima, Mayor
Don Cooper, City of Yakima, City Manager
Scott Schafer, City of Yakima

CITY OF YAKIMA
WASTEWATER DIVISION
2220 East Viola
Yakima, Washington 98901
Phone: 575-6077 • Fax (509) 575-6116

December 19, 2011

VIA U.S. Mail, First Class, and
CERTIFIED MAIL
7009 1680 0001 2377 9637

D&H Properties Yakima LLC
c/o Steve Brown
910 W. Main Street, Ste. 248
Boise, ID 83703

Dear Mr. Brown,

This letter is in regard to an illicit stormwater connection from the catch basin in the loading dock area at D & H Properties, 10 W. Mead, Yakima, Washington to the City of Yakima (City) stormwater system. This connection was evident when flooding occurred from this drain during heavy stormwater flow in the adjoining lines. D & H representatives contacted City crews when flooding occurred and the relief of the stormwater flow restriction alleviated flooding in the drain.

D&H Property is in violation of § 7.85.040 and 7.85.050 of the City's Municipal Code.

§ 7.85.040 Discharge Prohibitions

A. No person shall discharge or cause to be discharged into the MS4 (Multiple Separate Storm Sewer System or a public UIC (Underground Injection Control system) any materials, including but not limited to pollutants or waters containing any pollutants other than stormwater.

B. The commencement, conduct or continuance of any illicit discharge into the MS4 or a public UIC is prohibited…if the City has reason to consider that the discharges, whether singly or in combination with others, may cause or contribute to a violation of the City's stormwater permit, may cause the City to violate Ecology's UIC rules, or is causing or contributing to a water quality or flooding problem.

§ 7.85.050 Prohibition of Illicit Connections

A. The construction, use, maintenance or continued existence of an illicit connection to the MS4 or public UIC is prohibited.

B. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. The wastewater manager is directed to allow a reasonable period of time, not to exceed one hundred eighty days from the date of notification, to correct connections made in the past that are now illicit.

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2220 East Viola
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Phone: 575-6077 • Fax (509) 575-6116

This letter serves as official notification that D&H Properties has 180 days (until **June 19, 2012)** to complete corrective actions to ensure that stormwater from D&H Property located at 10 W. Mead is not discharged to the City's stormwater system. By **February 15, 2012**, D&H Properties shall provide written notification outlining an action plan and projected date of completion of corrective actions. Failure to do so may result in enforcement action with administrative penalties.

All stormwater generated at D&H Properties **must be retained on-site and shall not be discharged to the City's streets or stormwater system**. On-site stormwater management must comply with all applicable local and state rules and regulations.

Notify the City of Yakima Wastewater Division upon completion of the onsite stormwater management system. If you have any questions or concerns, please contact Holly Myers, Environmental Compliance Specialist at (509) 576-6871.

Thank you for your prompt attention to this matter.

Sincerely,

Scott Schafer, Manager
City of Yakima Wastewater Division

cc: David Schneider, Wastewater Assistant Manager, City of Yakima
Shelley Willson, Utility Engineer, City of Yakima
Terry Wittmeier, Municipal Stormwater Specialist, Department of Ecology
Brian Cochrane, Stormwater and DID Lead, Yakima County

CITY OF YAKIMA
WASTEWATER DIVISION
2220 East Viola
Yakima, Washington 98901
Phone: 575-6077 • Fax (509) 575-6116

November 8, 2011

Mr. Terry Wittmeier
Municipal Stormwater Specialist
Department of Ecology
Central Regional Office
15 W. Yakima Ave. Ste 200
Yakima, WA. 98902

RE: Smoke-Testing Results - Update to the City of Yakima SF4 Notification Response (WARN04-6013) - Further Information October 7, 2011

Dear Mr. Wittmeirer:

This letter is to further update the Department of Ecology (Ecology) on recent efforts conducted by the City of Yakima (City) to identify a possible source of pollution into Buchanan Lake.

As indicated in the City's SF4 Notification Response (WARN04-6013) – Further Information October 7, 2011 to Ecology, the City was scheduling to conduct smoke-testing within the Buchanan Lake drainage basin. Such efforts produced the following results:

Parking Lots

Four private parking lot storm drains are verified to be connected to the City's MS4 as a result of the smoke-testing. The City will contact the adjacent businesses to educate them on BMPs to reduce or eliminate pollutants from being discharged into the MS4. The City may require at a later date that such connections be discontinued and the stormwater retained onsite.

The nearest address for each parking lot is:

- 13 East Yakima Avenue
- 19 Front Street
- 110 North 3rd Street
- 414 North 3rd Street

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Swimming Pool

The drains that originally served the old Miller pool deck at 8th Street tested positive during the smoking of the MS4. The pool has since been replaced with a spray park. The old pool equipment shed and a manhole adjacent to the equipment building also tested positive. Staff will work with Yakima Parks and Recreation Department to discontinue such connections.

Planter Boxes

Olive Garden – 3rd Street and Yakima Avenue – The planter boxes, a pipe at the corner of their building, and possibly an irrigation box (marked as DID 69 near a fire exit on Yakima Avenue) all tested positive during the smoking of this area. The pipe ends all appear to be visible within the MS4. Olive Garden will be notified by the City to eliminate such connections to the MS4.

Residences

- 602 S 7th Street tested positive when smoking the City's MS4 and negative when the sanitary sewer was smoked. The City's camera crew entered the system at the adjacent catch basins and determined that there was a plate in the street that had been asphalted over. The City's utility crew dug up the plate allowing the camera crew to view the storm drain line. It appears that there may be domestic waste being discharged into the storm line at this location. However due to the alignment and depth, viewing the line is severely limited; with no direct access. The storm line is approximately 10 feet deep and catch basins are connected through a drop from the platform which was discovered by the camera crew. Archive drawings indicate that this line may have originally been a domestic sewer line until sometime in the late 70's at which time, was replaced by a new sewer system in the area. The City will take immediate action in hiring a contractor to open the pipeline at this location to verify if an actual illicit connection of domestic waste to the MS4 exists; correcting the issue if necessary within the next two weeks.

- 1508 East Beech Street – smoke-testing of the MS4 had a positive result within the backyard of this residence. The property owner indicated to the City that he had installed a direct connection to the MS4. The connection is a ten-inch pipe with a rock as a cover. The property owner indicated that he takes off the rock if water is pooling within his backyard. The City will be eliminating this connection and making the necessary repairs to the MS4. A letter to the property owner will be promptly submitted outlining the City's ordinance regarding illicit discharges and connections.

- Four locations tested positive during the smoking of the City's MS4 on segment of pipes referred to as "horse troughs"; installed during the 1920's. They are shallow "troughs" that conveyed water away from property frontage. The locations were either dug up at the street to determine if any material was entering into the storm system from the homes or inspected using the camera. There was no evidence of staining, drainage or any odor at any of the four locations along their respective storm drain segments. The utility crew plugged the horse troughs on the property side at 601 S 3rd Street on 10/20/2011 and 604 S 3rd Street on 10/19/2011. 310 and 311 N 3rd Street were both addressed by a plug installed on 11/01/2011. All four property owners were correctly connected to the sanitary sewer system.

The City appreciates Ecology's support and determination that an adaptive management response under condition S.4.F.3 is not necessary due to the City addressing illicit discharges into its MS4 and into Buchanan Lake.

The City will continue to execute the conditions of the Eastern Washington Phase II Municipal Stormwater Permit in its efforts to reduce and/or eliminate pollutants from reaching waters of the State.

If you have any questions, please contact me at (509) 249-6815.

Sincerely,

Scott Schafer
Wastewater Division Manager

cc: Michael Morales, Assistant City Manager
Jeff Cutter, City Attorney
Chris Waarvick, Director of Public Works

CITY OF YAKIMA
WASTEWATER DIVISION
2220 East Viola
Yakima, Washington 98901
Phone: 575-6077 • Fax (509) 575-6116

October 7, 2011

Mr. Terry Wittmeier
Department of Ecology
Central Regional Office
15 W. Yakima Ave. Ste 200
Yakima, WA. 98902

RE: S4.F Notification Dated August 29, 2011 Response (WAR04-6013)

Dear Mr. Wittmeier:

The City of Yakima (City) is providing the Department of Ecology (Ecology) with further information regarding its ongoing investigation pertaining to an alleged illicit discharge into Buchannan Lake from the City's Municipal Separate Storm Sewer System (MS4) as part of its S4.F Notification to Ecology.

Per your request, additional information is required to better evaluate the notification and is to be submitted within 15 business days upon receipt of the letter. As such, the City is providing Ecology activities conducted prior to the alleged incident, as well as current and anticipated activities to ensure that the water quality of surface water, including that of Buchanan Lake, remain protected from possible pollutants. The information provided is being submitted well ahead of the Oct 14th due date.

The basin that drains to Buchanan Lake contains 230 catch basins, 62 storm drain manholes, 2 UICs and 53,799.4 feet of pipe (10.2 miles).

The City's stormwater activities include:

1. ***Cleaning, Smoke-Testing, Dye-Testing***

   - The catch basin and surface infrastructure were inventoried and cleaned during the months of June through August 2009. During this initial cleaning the drains and lines in the City parking lots contained in this basin were also cleaned (City Hall, police, and public parking lots.)

   - June, July and August 2010 the pipelines were cleaned. In addition, the catch basins were inspected and cleaned as necessary.

   - In the summer of 2009 and 2010 the system was smoke tested as the crews were determining the system's connection points. During this inventory

work the crew was alert for any connections that may have led to illicit connections. Dye was also used to ascertain the flow the connections between catch basins and pipelines.

- After meeting with DOE on August 15, 2011, the crew was sent back through this entire area to clean the lines, catch basins and check for illicit connections or perhaps intentional dumping of materials. Cleaning included City of Yakima parking lots. This was completed the week of September 26th. The crew also utilized television cameras to assess the pipelines. There were 4,012.77 feet of pipe not cleaned. This was due to tving the lines and finding that the integrity of the pipe caused enough concerns for the City not to Hydro-Vac those segments of pipe. However, 92% of the pipes draining to Buchanan Lake were cleaned. During the cleaning process, a "plug" was placed downstream just prior to Buchanan Lake to capture all of the water that was used to clean the pipes. The water was then vactored out with none of the wash water reaching the lake.

- Smoke-testing of this area began the week of October 3rd and will be conducted for the next few weeks.

  During all of the above work, the crews were diligently looking for illicit connections or dumping into the stormwater system. To date, no such observations have been indicated.

  Map of the basin draining to Buchanan Lake has been enclosed (front pocket of binder).

2. Street Sweeping

- The City sweeps the City streets four times per year using mechanical and regen sweepers in tandem. The east side of 1st Ave usually receives a 5th sweeping when time and weather allow due to the concentration of activity.

- "E" St., Adams St., Naches St. and Front St. were last completed on September 14th. The portion of Beech St and Race St. between Naches St. and I-82 were last completed on September 19th.

3. Education

- An educational booth was set up at the Central Washington State Fair at the 2010 and 2011 events. The City coordinated with State Fair Park's staff to provide an opportunity to help educate the public on stormwater and how to help protect the receiving waters from pollution.

Pictures of the educational booth from the 2011 event have been enclosed as Exhibit A.

- The City worked with the West Valley School District and Bob Tuck in both 2009 and 2010 having students stencil catch-basins in specific neighborhoods.

- In 2012, the City will begin installing Catch Basin Markers. Our preference is to install vinyl decals instead of painted stencils. The decals are more colorful and durable; lasting longer than typical painted stencils. Our efforts will begin on the basin draining to the Buchanan Lake which includes the downtown area.

- Planning to work with Yakima public/private schools to conduct stormwater presentations teaching kids at a young age what stormwater is, how to keep it clean, and know what the stencils on catch-basins and drains indicate.

- The City and the Hispanic Chamber of Commerce have formed a partnership as a result of an alleged FOG discharge by food vendors into the City's MS4 in the downtown area following a Cinco de Mayo event. The City and the Hispanic Chamber of Commerce will be working together to educate the Hispanic community by conducting meetings with business owners and possibly utilizing the media, both radio and TV to get the message out about stormwater.

  The City is currently working with the Hispanic Chamber of Commerce to translate educational material regarding the proper disposal of fats, oils, and grease (FOG) and will eventually distribute this information out as part of both the City's Pretreatment and Stormwater Programs. The Pretreatment brochure remains to be translated into Spanish. Once completed, both the Pretreatment and Stormwater brochures will be printed.

  Examples of the work in progress of both brochures for Pretreatment and Stormwater have been enclosed as Exhibit B.

- News story with KIMA Action News on September 28th regarding illicit discharges into the City's MS4.

4. Training

- Matt Durkee of Yakima County provided training to the City of Yakima employees in both 2010 and 2011 regarding the Regional Stormwater Program focusing on Best Management Practices (BMPs) and illicit discharges.

PowerPoint presentation and sign in sheets are enclosed as Exhibit C.

5. ***Work Orders/BMPs***

- The City has recently implemented an automated maintenance management system to produce routine work orders which will provide for scheduled preventative maintenance (PM) and BMPs of the stormwater system. Doing so, allows the City to increase maintenance frequencies to reach ultimate effectiveness and efficiencies of its crews in protecting the quality of surface waters.

- City crews manufactured and installed a bar screen within the pipe upstream and just west of Buchanan Lake to capture any floatable trash that may get into the City's MS4 and prevent it from discharging into the lake. This was device was installed on September 28th.

  A picture of the bar screen has been enclosed as Exhibit D.

6. ***Notification/Enforcement***

- Since 2007, the City has taken appropriate steps in notifying businesses of stormwater issues and has taken enforcement action in enforcing the City's Illicit Discharge Ordinance which went into effect in 2009.

  Spreadsheets detailing stormwater issues for 2007 – 2011 have been enclosed as Exhibit E.

- Notification letters were mailed out to similar businesses after an illicit discharge was observed into the City's MS4.

  Copies of various notification letters have been enclosed as Exhibit F.

7. ***Other Activities***

- In 2012, Akel Engineering will be completing the City's stormwater collection system evaluation. This project was initiated in 2010 to address current and future capacity issues. It will also identify drainage basins and may be used for sizing needed facilities such as stormwater retention ponds.

- In response to the Cinco de Mayo event and the alleged discharge of FOG by food vendors into the City's MS4, the City has made it a policy that the

event organizer of any street event serving food (Cinco de Mayo, Three-on-Three Basketball Tournament, Farmers Market, etc.) is responsible to contact a grease vendor prior to the event. They are to bring in temporary bins for the food vendors to dispose of their FOG. Following the event, the bins are removed. Such requirements are made as part of the City's Development Services Team (DST) review and comments for such events.

Thank you for allowing the City an opportunity to present further information to Ecology regarding the City's stormwater activities in protecting water quality.

If you have any further questions, please do not hesitate to call me at 249-6815.

Sincerely,

Scott Schafer
Wastewater Division Manager

cc: Michael Morales, Assistant City Manager
Jeff Cutter, City Attorney
Chris Waarvick, Director of Public Works