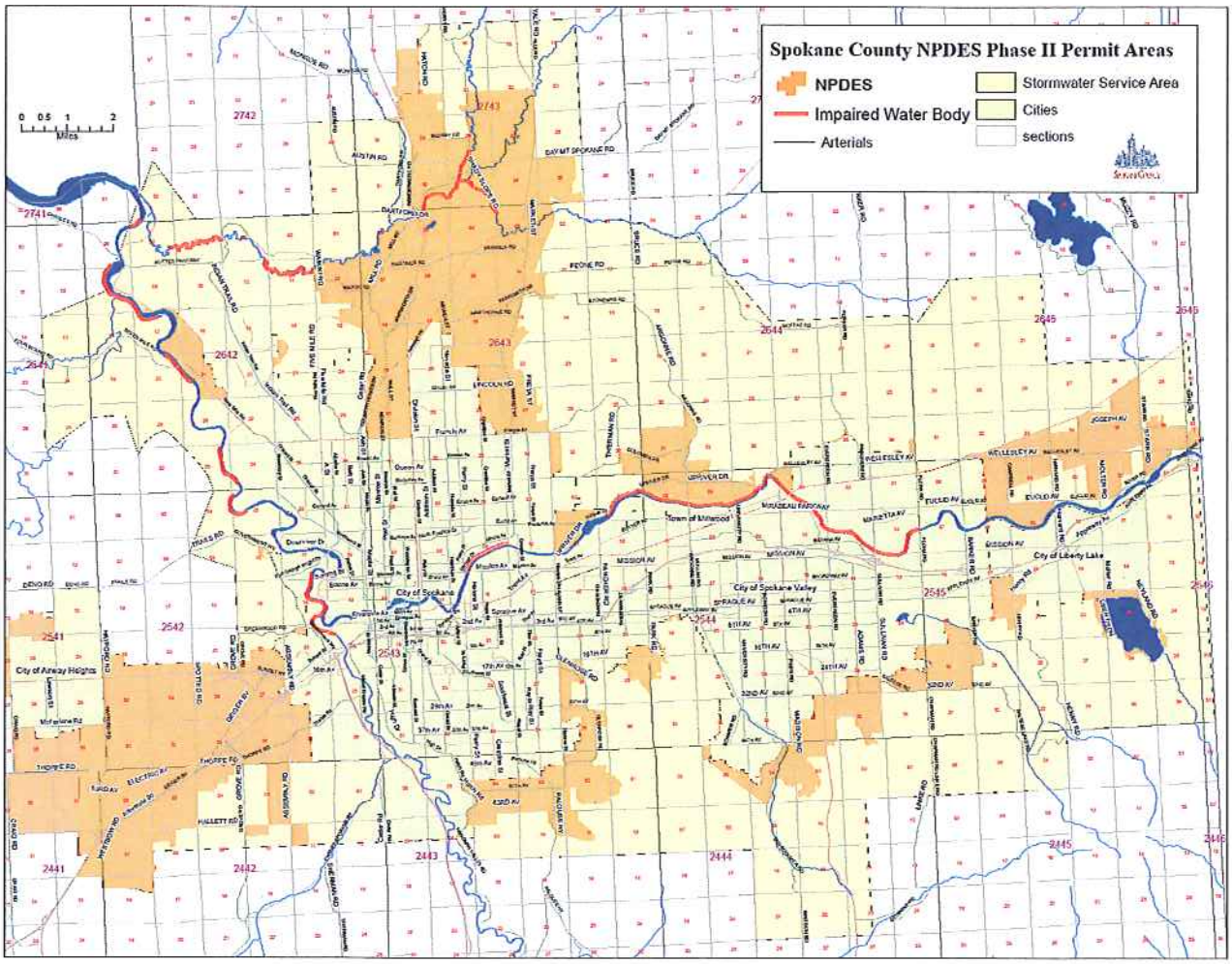
Eastern Washington Phase II Municipal Stormwater Permit (WAR04-6506)

Annual Report 2013
Spokane County, Washington

March 31, 2014
Permit Cycle, February 2007-2014



SPOKANE COUNTY

Spokane County Public Works
Division of Engineering and Roads
1026 West Broadway Avenue | Spokane, WA 99260-0170
509/477-3600 Main | 509/477-7655 Fax

Eastern Washington Phase II Municipal Stormwater General Permit

Fifth Year Annual Report - 2013

Excel Worksheet - Sections I, II and III

I. Permittee Information

Permittee Name Spokane County	**Permittee Coverage Number** WAR04-6505
Contact Name Russ Connole	**Phone Number** 509-477-3600
Mailing Address 1026 W. Broadway Ave.	
City Spokane	**State** WA **Zip + 4** 99260
Email Adddress rconnole@spokanecounty.org	

II. Regulated Small MS4 Location

	Entity Type: Put an X in the box that applies		
Jurisdiction	**County**	**City/Town**	**Other**
	x		
Major Receiving Water(s) Spokane River, Ground Water			

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):**

NPDES Phase II - Annual Report 2013

Excel Worksheet, Section IV. Certification

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 County Engineer Date _____

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

Name _____ Title _____ Date _____

No. 8 0388

bd.

BEFORE THE BOARD OF COUNTY COMMISSIONERS OF
SPOKANE COUNTY, WASHINGTON

IN THE MATTER OF AUTHORIZING THE COUNTY ENGINEER TO SIGN ALL REPORTS AND OTHER INFORMATION REQUIRED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY REGARDING THE COUNTY'S PHASE II MUNICIPAL STORMWATER PERMIT	) RESOLUTION

WHEREAS, pursuant to the provisions of the RCW Section 36.32.120(6) the Board of County Commissioners of Spokane County, Washington, (hereinafter the "Board") has the responsibility for the care of County property and the management of County funds and business; and

WHEREAS, Spokane County was issued an Eastern Washington Phase II Municipal Stormwater Permit on January 17, 2007 with said permit becoming effective on February 16, 2007; and

WHEREAS, the Municipal Stormwater Permit requires that annual reports and other information as periodically required be submitted to the Washington State Department of Ecology; and

WHEREAS, the Municipal Stormwater Permit requires that the annual reports and other information be signed by either a principal executive officer, elected official or a duly authorized representative of such persons; and

WHEREAS, the annual reports are prepared by the Stormwater Section of the Division of Engineering and Roads under the direction of the County Engineer.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Spokane County that the County Engineer is hereby authorized to sign the annual reports and all other appurtenant and related forms for the Spokane County Municipal Stormwater Permit.

ADOPTED by the Board of County Commissioners of Spokane County, Washington this 29th day of April 2008.

Bonnie Mager, Chair

BOARD OF COMMISSIONERS SPOKANE COUNTY SEAL SPOKANE COUNTY, WA

ATTEST:

Todd Mielke, Vice-Chair

Daniela Erickson
Clerk of the Board

Mark Richard, Commissioner

NPDES Phase II - Annual Report

Section VI. Status Report Covering Calendar Year 2013

VI. Status Report Covering Calendar Year 2013

Jurisdiction: Spokane 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	The fifth draft of the Stormwater Management Program (SWMP) for Spokane County has been developed. Actions relevant to S5.B. are documented within "NPDES Phase II Annual Report, Answers to Section VI, Question #1, Stormwater Management Program Actions"	**See attached SWMP - 2013**
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	Spokane County updated the Urban Growth Area coverage in 2013. The areas within the Permit coverage area are currently within the jurisdiction of the Stormwater Utility and will included within the SWMP. There were no annexations in 2013.	See Tab: "Annexations, Incorporations or Boundary Changes - Documentation"
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	We currently track costs associated with developing and implementing the SWMP.	See Tab: "Expenditure Report"
4	Implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y	Spokane County has developed a Education and Outreach Program	See tab: "Education and Outreach - Actions"
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y	Spokane County has developed a Education and Outreach Plan	See tab: "Education and Outreach - Actions"
5	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.spokanecounty.org/data/stormwater/npdes/2012%20SWMP%20Final.pdf	See Tab: SWMP 2012

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
6	Completed the map of your MS4. (*Required no later than February 15, 2012,* S5.B.3.a)	Y	Spokane County has completed the MS4 mapping within the NPDES jurisdictional area.	See SWMP, Section 3, Stormwater Baseline Data and Maps
6a	**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	Spokane County has completed the MS4 mapping within the NPDES jurisdictional area.	See SWMP, Section 3, Stormwater Baseline Data and Maps
7	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	Spokane County has a fully implemented IDDE program.	See Tab: "IDDE - Actions"
8	Field assessed at least one high priority water body or other priority area to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	Liberty Lake was in spected in September of 2013.	See Tab: "IDDE - Actions"
8a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	See the "IDDE Priority Water Body Inspection Summary"	See Tab: "IDDE - Actions"
9a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y	The hotline is publicized on the Spokane County webpage at: http://www.spokanecounty.org/stormwater/content.aspx?c=1788	See Tab: "IDDE - Actions"
9b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	Y	Spokane County has a "Request for Investigation" (RFI) database tracking and reporting system for stormwater complaints.	See Tab: "IDDE - Actions"
10	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	The Stormwater Utility field investigator is trained on indentifying and investigating illicit discharges.	N/A

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
11	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	In 2012 we trained field maintenance office supervisors. Periodic refresher courses will be given every 3 years.	See training presentation for municipal staff on IDDE. Also see Training Sign-in Sheet. See Tab: IDDE - Actions.
12	Implemented procedures for the IDDE program. (S5.B.3.e)	Y	We finished the IDDE Guidance Manual in 2010.	See Tab: IDDE - Actions.
12a	**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	Spokane County has a "Request for Investigation" (RFI) database tracking and reporting system for stormwater complaints.	See Tab: "IDDE - Actions"
13	Implemented procedures for construction site plan review. (S5.B.4.b)	Y	Construction site plan review is part of the typical procedures for the Building and Planning Department and the Development Services	See "Construction Site Control Actions" for details.
14	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	Y	Construction site plan review is part of the typical procedures for the Building and Planning Department and the Development Services Department.	See "Construction Site Control Actions" for details.
14a	Number of site plans reviewed during the reporting period:	Y	All site plans are reviewed upon submittal. In 2013, 651 residences, 14 duplexes, 12 industrial buildings, 449 private garages, 1 mercantile, and various others. See website for details.	See "Construction Site Control Actions" for details.
14b	Number of SWPPPs reviewed during the reporting period:		All site plans are reviewed upon submittal. In 2013, 651 residences, 14 duplexes, 12 industrial buildings, 449 private garages, 1 mercantile, and	See "Construction Site Control Actions" for details.
14c	Number of site plans approved during the reporting period:	Y	All site plans are reviewed upon submittal. In 2013, 651 residences, 14 duplexes, 12 industrial buildings, 449 private garages, 1 mercantile, and	See "Construction Site Control Actions" for details.
15	Implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y	All construction sites are inspected in compliance with construction stormwater pollution control measures.	See "Stormwater Management Program" for details.

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
16	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	Staff has been adequately trained.	See "Construction Site Control Actions" for details.
17	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	Y	All construction sites meeting the Permit threshold were inspected to assure compliance with the Spokane Regional Stormwater Manual.	See "Construction Site Control Actions" for details.
17a	Number of sites inspected during the reporting period:	Y	43 site were in inspected in 2013	See "Construction Site Control Actions" for details.
18	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	Spokane County, Building and Planning offers two publications on "erosion and sediment control" for parties involved with construction projects: 1) Erosion and Sediment Control Techniques; and 2) Erosion and Sediment Control Plan Requirements. Both publications provide an opportunity for parties to gain additional information or set up an appointment	Copies of the Erosion and Sediment Control Techniques and the Erosion and Sediment Control Plan publications are located within the "Construction Site Stormwater Runoff Control" tab of the Annual Report. Information
19	Implemented procedures for post-construction site plan review. (S5.B.5.b)	Y	Spokane County requires compliance with the Spokane Regional Stormwater Manual.	See "Post Construction Actions" for additional information.
20	Implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y	Spokane County requires compliance with the Spokane Regional Stormwater Manual.	See "Post Construction Actions" for additional information.
21	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	Y	All structural BMPs were inspected to assure compliance with construction stormwater pollution control measures.	See "Post Construction Actions" for additional information.
21a	Number of sites inspected during the reporting period:	Y	A detailed list of all sites inspected is kept through Development Services.	See "Post Construction Actions" for additional information.

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
22b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	Y	A detailed list of all sites inspected is kept through Development Services.	See "Post Construction Actions" for additional information.
23	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	Y	All structural BMPs were inspected to assure compliance with construction stormwater pollution control measures.	See "Post Construction Actions" for additional information.
23a	Number of structural BMPs inspected during installation during the reporting period:	Y	18 structural BMPs were inspected in 2013	See "Post Construction Actions" for additional information.
24	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y	Post construction activities engaged in by staff have been ongoing for years resulting in a high level of staff knowledge of post construction stormwater controls. Staff have been adequately trained as part of their job training. We are planning on conducting training when necessary	See Tab: Post Construction - Actions.
25	Implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y	Spokane County has developed and implemented a Stormwater O&M Plan.	See "Pollution Prevention/Good Housekeeping - Actions" for additional information.
26	Inspected 20% of stormwater treatment and flow control facilities owned or operated by the Permittee. (S5.B.6.a.i)	Y	All stormwater treatments and flow control facilities owned and operated by Spokane County were inspected at least once during the permit cycle.	See "Pollution Prevention/Good Housekeeping - Actions" for additional information.
26a	Number of known facilities:	Y	There are 28 known facilities.	See "Pollution Prevention/Good
26b	Number of facilities inspected during the reporting period:	Y	18 sites were inspected. Detailed records of inspections are detailed and an example is provided within the Prevention/Good	See "Pollution Prevention/Good Housekeeping - Actions" for
27	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	Y	There are xx construction projects permitted by Ecology under the NPDES Construction General Permit.	See "Construction Site Control Actions" for details.

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
28	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y	Regional stormwater facilities were inspected after major storms or snowmelt events. An example of the 57th Avenue Ponds included	See "Pollution Prevention/Good Housekeeping - Actions" for
29	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	This training was conducted back in 2009.	See "Construction Site Control Actions" for details.
30	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		
31	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		
32	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		
33	**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		

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.

NPDES Phase II - Annual Report 2013

Excel Spreadsheet, Answers to Section VI, Question #1

Section S5.B Stormwater Management Plan – Six Components

I. **Stormwater Management Program** – *See Stormwater Management Program Tab.*

A. **Stormwater Management Program – Six Components**

1. **Public Education and Outreach** – *See tab for summary of 2013 actions.*

2. **Public Involvement and Participation** – *See tab for summary of 2013 actions.*

3. **Illicit Discharge Detection and Elimination** – *See tab for summary of 2013 actions.*

4. **Construction Site Stormwater Runoff Control** – *See tab for summary of 2013 actions.*

5. **Post Construction Stormwater Management for New Development and Redevelopment** – *See tab for summary of 2013 actions.*

6. **Pollution Prevention and Good Housekeeping for Municipal Operations** – *See tab for summary of 2013 actions.*

NPDES Phase II - Annual Report

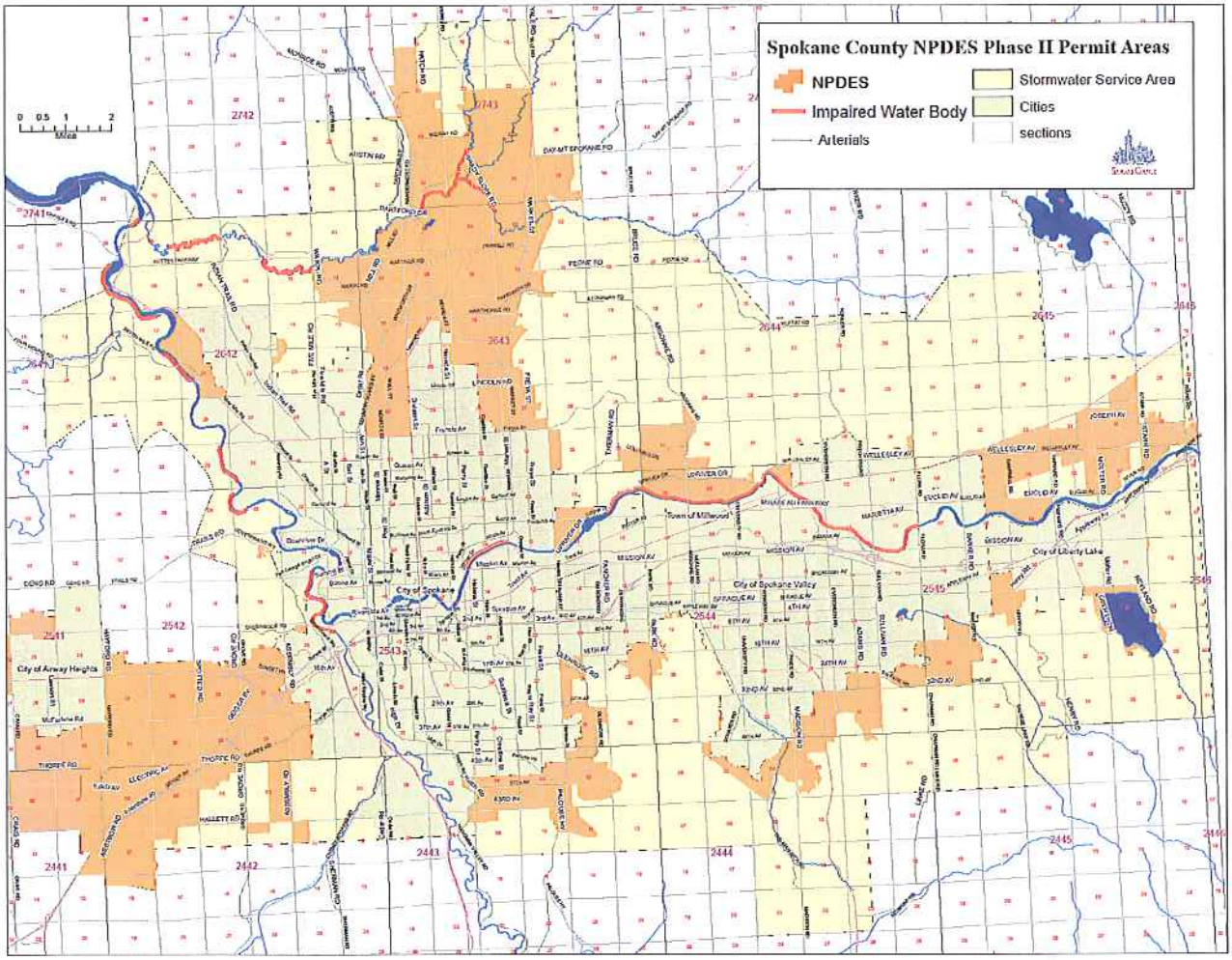
Stormwater Management Program - 2013

SPOKANE COUNTY

SPOKANE COUNTY
STORMWATER MANAGEMENT PROGRAM (SWMP)

Eastern Washington Phase II Municipal Stormwater Permit Compliance

Permit Cycle - February 16, 2007 to July 31, 2014



Eastern Washington Phase II Municipal Stormwater Permit Areas (orange areas)

Spokane County Public Works
Division of Engineering and Roads
Stormwater Utility
1026 West Broadway Avenue, Spokane, WA 99260
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SPOKANE COUNTY

FORWARD

Spokane County is required to develop and implement a Stormwater Management Program in order to meet its requirements under the Eastern Washington Phase II Municipal Stormwater Permit.

The Stormwater Management Program (SWMP) for Spokane County described in the following document is designed to be a "Public Working Document".

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SPOKANE COUNTY

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SPOKANE COUNTY

SECTION 1 – INTRODUCTION

1.1 History

The United States Environmental Protection Agency (EPA) considers pollution from all diffuse sources, including urban stormwater pollution, to be the most important source of contamination in our nation's waters. Runoff pollution occurs every time rain or snowmelt flows across the ground and picks up contaminants.

Figure 1. Spangle Creek - circa 1930's

This Stormwater Management Program (SWMP) focuses on runoff pollution from developed areas, which occurs when stormwater carries away a wide variety of contaminants as it runs across rooftops, roads, parking lots, baseball diamonds, construction sites, golf courses, lawns, and other surfaces. A majority of Spokane County's population lives in urbanized areas where the water resources are highly vulnerable to degradation from urban runoff.

Urban stormwater continues to impair the nation's waterways, 29 years after passage in 1972 of the law now known as the Clean Water Act. The main reason urban stormwater remains such an important contributor to water pollution is the fact that in most areas, stormwater receives no treatment before entering waterbodies.

Over the past three decades, national and local water pollution control efforts have focused primarily on certain process water discharges from facilities such as factories and sewage treatment plants, with less emphasis on diffuse sources. While these efforts have led to many water quality improvements, new efforts are now needed to address the remaining sources of water pollution, including urban runoff pollution.

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On December 8, 1999, EPA promulgated a rule requiring smaller municipalities, those with populations of fewer than 100,000 people located in urbanized areas (where population density is greater than 1,000 persons per square mile), to develop a Stormwater Management Program that addresses stormwater pollution runoff that enters surface waters. In Washington, EPA's smaller municipality rule is directed to local jurisdictions through the National Pollution Discharge Elimination System (NPDES) – Phase II Permits that are under the direction of the Department of Ecology.

Spokane County (County) was issued coverage under the *Eastern Washington Phase II Municipal Stormwater Permit* (Permit), under Permit No. WAR04-6506, effective February 16, 2007. The Permit states, "All Counties shall develop and implement a *Stormwater Management Program* (SWMP) during the term of this permit." The Permit primarily addresses stormwater discharges to surface waters. Stormwater that is directed to underground injection control (UIC) wells is regulated under the State of Washington's, Underground Injection Control Program, and therefore is not addressed within the SWMP.

The following Stormwater Management Program is designed to meet Spokane County's Permit obligations.

1.2 Purpose

The purpose of this SWMP is to describe the programs, practices and responsibilities adopted by the County to manage the municipal separate storm sewer system (MS4) in implementing the requirements of the Permit.

The SWMP describes the activities that will be performed to comply with the Permit conditions, provides measurable goals for key activities, and outlines staffing and funding responsibilities for the County. The SWMP will apply to the 5-year duration of the current Permit cycle (expiring February 15, 2012) and forms the foundation for a long-term program to reduce pollutants discharged to waters of the state within Spokane County. The Washington State Legislature extended the expiration date of Permit to July 31, 2014. On August 1, 2014 the new Eastern Washington Phase II Municipal Stormwater Permit will be effective.

Annual updates to the SWMP will be provided to encourage public involvement, hear public comment, to address necessary revisions in program elements and to provide for necessary revisions as conditions change within the Permit.

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SPOKANE COUNTY

1.3 Authorization

This SWMP was prepared by the Spokane County, Engineering and Roads - Stormwater Utility.

1.4 Area of Coverage

The area of coverage is defined in paragraph S1 of the municipal permit:

> "For all Counties required to obtain coverage under this permit, the geographic area of coverage is the urbanized areas and the urban growth areas associated with Cities within the urbanized areas that are under the jurisdictional control of the County. The geographic area of coverage also includes any urban growth areas that are contiguous to urbanized areas that are under the jurisdictional control of the County."

The focus is on the discharge of municipal stormwater runoff into the waters of the U.S. and waters of the state as described within the Permit. Consistent with this focus, the activities described in the SWMP will be conducted within the urban growth areas of Spokane County. See Appendix A for a detailed Spokane County map of the initial Permit boundary covered by this permit, as well as the current Stormwater Service Area (SWSA) boundary.

The City of Spokane and the City of Spokane Valley are also subject to the Permit issued by Ecology and are developing their own processes of compliance with that permit. Spokane County will be coordinating with these jurisdictions and other agencies on various elements of the SWMP, particularly on the Public Education tasks.

1.5 Period of Performance

This SWMP applies to the 5-year effective period of the municipal permit, valid from February 16, 2007 to February 15, 2012. The SWMP refers to Permit Years specifying when various activities are scheduled to occur. Permit Years are defined as follows:

Permit Year 1 - February 16, 2007 to February 15, 2008
Permit Year 2 - February 16, 2008 to February 15, 2009
Permit Year 3 - February 16, 2009 to February 15, 2010
Permit Year 4 - February 16, 2010 to February 15, 2011
Permit Year 5 - February 16, 2011 to February 15, 2012
Permit Year 6 - February 16, 2012 to February 15, 2013
Permit Year 7 - February 16, 2013 to February 15, 2014

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In addition, the Permit also requires annual reports that are subject to the following "reporting periods":

Annual Report, Year 1 - February 16, 2007 to December 31, 2008
Annual Report, Year 2 - January 1, 2009 to December 31, 2009
Annual Report, Year 3 - January 1, 2010 to December 31, 2010
Annual Report, Year 4 - January 1, 2011 to December 31, 2011
Annual Report, Year 5 - January 1, 2012 to December 31, 2012
Annual Report, Year 6 - January 1, 2013 to December 31, 2013
Annual Report, Year 7 - January 1, 2014 to December 31, 2014

1.6 Public Process

The SWMP is continually available for public comment on the Spokane County webpage (www.spokanecounty.org/stormwater). Prior to each year's deadline for the annual report, the SWMP will be evaluated and updated in response to public comments received.

1.7 Stormwater Management Program Permit Requirements

There are six (6) basic elements described within the Permit that make up the heart of the SWMP. Those elements are as follows:

1) Public Education and Outreach;
2) Public Involvement and Participation;
3) Illicit Discharge Detection and Elimination;
4) Construction Site Stormwater Runoff Control;
5) Post-Construction Stormwater Management for New Development and Redevelopment;
6) Pollution Prevention and Good Housekeeping for Municipal Operations.

1.8 Spokane County - Stormwater Management Program, Sections

The SWMP components are described within the following Sections of this document:

- Section 2.0 - Legal Authority
- Section 3.0 - Baseline Data and Maps
- Section 4.0 - Public Education and Outreach
- Section 5.0 - Public Involvement and Participation
- Section 6.0 - Illicit Discharge Detection and Elimination
- Section 7.0 - Construction Site Stormwater Runoff Control

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- Section 8.0 - Post Construction Stormwater Management for New Development and Redevelopment
- Section 9.0 - Pollution Prevention and Good Housekeeping for Municipal Operations
- Section 10 – Stormwater Management Program Implementation Responsibilities
- Section 11 - Years 1, 2, 3, 4 and 5 Measurable Goals

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SECTION 2 – LEGAL AUTHORITY

2.1 Introduction

This section addresses the Eastern Washington Phase II Municipal Permit (Permit) requirements dealing with legal authority of the County to implement the various aspects of the proposed Stormwater Management Program (SWMP). The objective is to provide documentation that the County either currently has adequate legal authority to conduct all necessary activities, or has a plan for obtaining that authority.

Figure 2. Chester Creek August 2004

2.2 Existing Legal Authority

The Spokane County, Stormwater Utility was formed in 1992 to prepare and implement basin stormwater management plans. The Utility is funded through stormwater service charges based on impervious coverage on developed parcels.

On January 17, 2006, the Board of County Commissioners adopted the *Comprehensive Stormwater Management Plan* (CSWMP) along with individual stormwater plans for Glenrose, North Spokane and West Plains and their associated Capital Improvement Plans. Each of the individual basin plans emphasizes protecting natural drainage features as the most cost effective means of handling stormwater over the long term.

In addition, Spokane County has implemented flood controls through Title 3, Buildings and Structures, Chapter 3.20, Flood Damage Protection, a comprehensive flood control ordinance that manages development within floodplain zones in compliance with the National Flood Insurance Program (NFIP).

Spokane County has adopted engineering design standards and BMPs that are described within the *Spokane Regional Stormwater Manual* (SRSM). The SRSM was approved by the Board of Commissioners on April 15, 2008 and officially became law on June 1, 2008. The SRSM replaces the *Spokane County - Guidelines for Stormwater Management*".

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In addition to the new requirements within the SRSM, the following chapters of the existing Spokane County Code address stormwater requirements: 1) Chapter 9.14, Roads, Approach and Drainage in New Construction; 2), Chapter 12.400 Subdivisions; 3) Chapter 14.802.060, Parking Lot Location and Design.

Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.03, Sanitary Sewer Code, includes various sections that address illicit discharges within Spokane County. The primary relevant sections include: 8.03.1570 POTW; 8.03.1710 Private Storm Sewer; 8.03.1730 Prohibited Discharge Standards or Prohibited Discharges; 8.03.1750 Public Sewer; 8.03.1830 Sewer; 8.03.1990 Stormwater; 8.03.2010 Storm Sewer or Storm Drain; 8.03.3200 Prohibited Uses of Sanitary Sewer; 8.03.3220 Use of Storm Sewers--Combined Sewers--Natural Outlets; 8.03.3260 Obstructing Sewer Prohibited; 8.03.3300 Unauthorized Connection to Public Sewers; 8.03.3240 Prohibited Uses--Public Sewers; 8.03.4040 Prohibited Discharge Standards--General Prohibitions; 8.03.4060 Prohibited Discharge Standards--Specific Prohibitions.

Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.26, Litter and Discriminate Dumping, includes various sections that are relevant to protecting the integrity of stormwater and other surface waters, such as Section 8.26.020, Litter in General, which addresses the disposing of litter upon any public place or private property, or within any waters in Spokane County. This Chapter also addresses notice of violation, enforcement and penalty.

Spokane County Code, Chapter 8.60.030 Oil Sellers--Educational Responsibilities, requires sellers of lubricating oil to do the following: 1) post educational materials that describe the importance of used oil recycling and how and where used oil may be recycled; and 2) provide for the sale of reusable used oil containers.

In 2008, County staff evaluated current regulations relating to illicit discharge detection and elimination. The results of the investigation concluded that County Code, although covering many aspects of the illicit discharge detection and elimination components of the Permit, fell short of meeting all requirements. As a result, draft amendments to Spokane County Code, Chapter 9.14, Roads, Approach and Drainage in New Construction, were developed and approved (Resolution No. 09-0672) through the public review and process referenced in Section 1.6. The new illicit discharge regulations bring the County into compliance with the requirements of the Permit by addressing the following:

- Prohibit illicit discharges to the municipal separate storm sewer system;
- Control spills, dumping or disposal of materials other than stormwater to the storm sewer system;

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- Require compliance with conditions in ordinances related to stormwater discharges;
- Carry out inspection and monitoring procedures necessary to determine compliance with the prohibition on illicit discharges to the storm sewer system;
- Provide regulations guiding inspection, enforcement and penalty.

2.3 Additional Required Legal Authority

If the review of current regulations and ordinances identifies deficiencies in the ability to implement SWMP programs, a plan for addressing those deficiencies will be developed.

2.4 Priorities and Measurable Goals

Existing legal authority will be documented first, followed by development of a plan to address any deficiencies in current ordinances, etc. Measurable goals are defined below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Begin to assemble and summarize existing legal authority
End of Permit Year 2 (February 15, 2009)	• Develop a plan for addressing deficiencies in current legal authority • Begin developing policy and code revisions in legal authority
End of Permit Year 3 (February 15, 2010)	• Complete implementing policy and code revisions relating to illicit discharge (September 1, 2009) • If necessary, revise existing codes relating to construction and post construction
End of Permit Year 4 (February 15, 2011)	• Continue evaluating construction and post construction codes and procedures
End of Permit Year 5 (February 15, 2012)	• Monitor previous Code revisions.
End of Permit Year 6 (February 15, 2013)	• Continue implementing previous year goals and milestones
End of Permit Year 7 (February 15, 204)	• Continue implementing the components of the stormwater management program

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2.5 Staffing and Funding

Funding for review of legal authority will be provided by:
Engineering and Roads - Stormwater Utility.

Staffing for review of legal authority will be provided by:
Engineering and Road - Stormwater Utility.

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SECTION 3 – STORMWATER BASELINE DATA AND MAPS

3.1 Introduction

An initial task (special provision S 5. B. of the permit) is to gather information about the County's storm drainage infrastructure. Most stormwater runoff in unincorporated Spokane County is discharged into the ground, either via natural infiltration or through drywells. In many areas the local geology, including the gravel soils that lie over the Spokane Valley Rathdrum Prairie (SVRP) Aquifer, allows stormwater to infiltrate rapidly into the ground.

Unincorporated Spokane County has developed without an extensive system of storm sewers. Much of the runoff discharged into the ground recharges the aquifer which has an interchange of flows with both the Spokane River and the Little Spokane River. Providing a comprehensive approach to inventorying the County's stormwater system requires combining an inventory of any municipal discharges to surface waters with an inventory of county facilities that discharge stormwater into the ground.

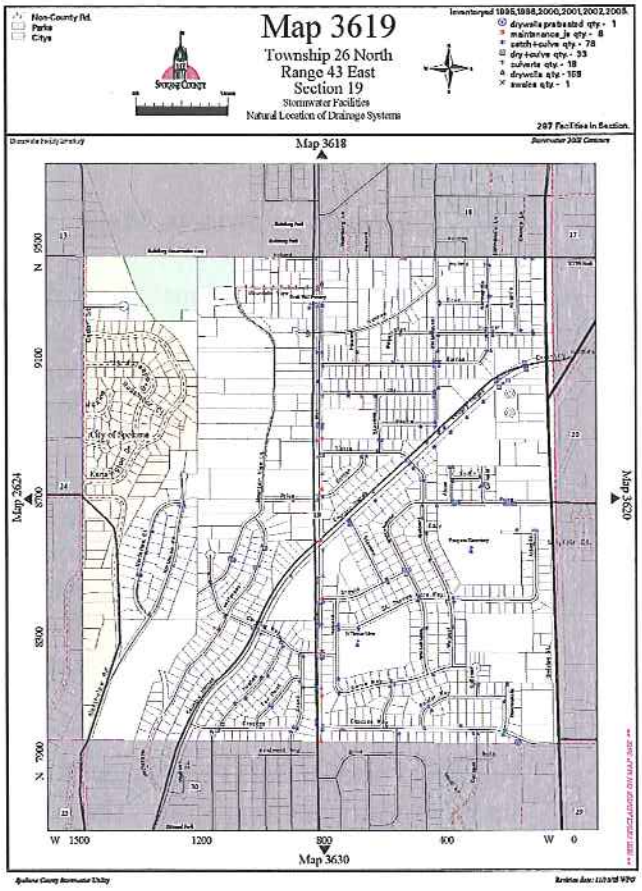

Figure 3. Example Stormwater Facilities Infrastructure Map

This SWMP is focusing on meeting the requirements of the Permit. At the same time, Spokane County is preparing a separate program to meet the requirements of the state Underground Injection Control (UIC) program. The municipal separate storm sewer system (MS4) in Spokane County is comprised of roads with ditches, culverts, curbs, bridge drains, swales, detention ponds, and piping systems that direct stormwater into a surface water body such as a DNR stream, wetland, pond, etc.

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A stormwater system map for the Permit area of unincorporated Spokane County has been prepared and is being continually updated. A stormwater system map is valuable to the various departments within the County, the public, regulatory agencies and others by documenting the stormwater system and in determining where potential stormwater quality problems may exist or originate. The initial stormwater system map is based on field work conducted regularly within the Stormwater Service Area since the Stormwater Utilities inception in 1992. The existing computerized inventory information is evaluated and updated annually based on field surveys and/or new information.

3.2 Stormwater System Maps

Maps of the existing regional storm drainage system have been prepared to document locations and contributing areas of major outfalls. The maps will also include underground injection wells and Spokane County detention and retention ponds located within the Permit boundary. As information is gathered and developed, GIS data will be reviewed and updated.

The base maps prepared in since the beginning of the Permit were developed from existing stormwater data layers developed over many years of the Stormwater Utility's past work activities. Data layers include facilities such as: catch basins, swales, roadside ditches, drywells, inlets, etc. The maps show the locations of major regional stormwater drainage and collection systems, stormwater control facilities and other relevant information.

The SWU hired a field crew in 2008 to find and document MS4 outfalls located within the Permit jurisdictional area. That data was processed and finalized in 2009.

In 2009, 2010, 2011, 2012, 2013 additional outfall inventory analysis and field investigations were conducted. This work further located and defined outfalls to the MS4. The data collected expanded the existing GIS outfall database.

The following maps were developed and/or updated by the Stormwater Utility:

(a) Permit jurisdictional area map;
(b) Permit areas in relation to the Stormwater Service Area;
(c) Permit area in relation to the Spokane Valley-Rathdrum Prairie Aquifer;
(d) Stormwater conveyance and collection infrastructure systems (outfalls, UIC wells, detention and retention ponds, etc.);
(e) Natural Drainage areas and contours (streams, rivers, lakes, ponds, etc.);
(f) Regional watersheds;
(g) County rights-of-way within the Permit boundary;

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(h) Sites where NPDES Construction Permits have been issued by Ecology;
(i) Public road systems within the Permit area.

The maps will also be useful in discovering and documenting illicit discharges and related information.

Each year, the maps will be updated with new information. Future maps are anticipated to include but may not be limited to the following:

(a) Public facilities within the Permit area (parks and open spaces, public buildings, material storage; county shops, etc.);
(b) New sites where NPDES Construction Permits have been issued by Ecology.

Additional GIS coverages and maps will be identified and developed throughout the life of the Permit.

3.3 Priorities and Measurable Goals

Activities in this category were or will be conducted as defined below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Begin preparing MS4 base maps
End of Permit Year 2 (February 15, 2009)	• Continue developing the MS4 base maps • Begin evaluation of existing stormwater infrastructure, facilities and properties
End of Permit Year 3 (February 15, 2010)	• Update stormwater GIS data layers and maps • Complete the analysis and development of the MS4 outfall coverage from 2008 and 2009 field investigations
End of Permit Year 4 (February 15, 2011)	• Gather data and develop infrastructure maps for all public facilities and activities relating to the development of the O&M Plan • Conduct priority water body outfall field investigations and continue updating outfall database • Update stormwater GIS coverages and maps
End of Permit Year 5 (February 15, 2012)	• Update stormwater GIS coverages and maps • Develop public facility site maps to accompany the Stormwater O&M Plan site assessment analysis • Develop material storage, heavy equipment storage area and maintenance area maps for the O&M Plan SWPPP

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	• Conduct priority water body outfall field investigations and continue updating outfall database
End of Permit Year 6 (February 15, 2013)	• Continue implementing previous year Permit requirements
End Permit Year 7 (February 15, 2014)	• Continue updating MS4 baseline data and maps

3.4 Staffing and Funding

Funding for the stormwater system infrastructure map will be provided by:

Spokane County, Engineering and Roads - Stormwater Utility

Staffing for map preparation will be provided by:

Spokane County, Engineering and Roads - Stormwater Utility

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SECTION 4 – PUBLIC EDUCATION AND OUTREACH

4.1 Introduction

This section describes the public education and outreach activities used by the County in response to the Permit requirements for such a program (special provision S5.B.1). The rationale for the program is to inform the general public on the importance of stormwater quality, and to influence behavior in a way that benefits water quality within the region. Activities were selected to take advantage of existing programs, and to target specific water quality problems and audiences that are important in Spokane County.

Figure 4. Soils and Geology Educational Tour 2004

4.2 Public Education and Outreach Program Elements

4.2.1 Objectives for Public Education and Outreach

The overall objectives of the Public Education and Outreach Program are to:

(a) Inform the general public in Spokane County about important water quality issues related to stormwater runoff;
(b) Inform businesses and the general public about the need to prevent illicit discharges;
(c) Inform engineers, construction contractors, developers, development review staff and land use planners about technical standards, the development of stormwater site plans and erosion control plans and stormwater *Best Management Practices* (BMPs) for reducing adverse impacts of stormwater runoff from development sites; and
(d) Influence behavior of the general public, businesses and those involved in the land development sector to reduce activities that have a negative impact on stormwater runoff quality and increase activities that have a positive impact on stormwater runoff quality.

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4.2.2 Public Education and Outreach Activities

Spokane County is working individually and where mutually beneficial with the Cities of Spokane and Spokane Valley to develop public education and outreach program. Activities being considered include, but are not limited to:

(a) Community Events. County will continue to use community events related to environmental awareness and regional water issues as opportunities for education and outreach. Booths will be staffed by volunteers from the County and/or other local organizations (e.g., Spokane County Interstate Fair, Earth Day, etc.), who will hand out informational materials and answer questions;
(b) Media Materials. County will evaluate the production or distribution of media materials to disseminate public education and outreach information. Media materials may include: (1) a program for local public television including general information on stormwater quality issues; and (2) public service announcements or a commercial for targeted messages and audiences;
(c) Printed Materials. County will continue to develop, produce or distribute printed materials (e.g., brochures, flyers, promotional items) for specific topics related to stormwater quality. Spokane County has supported the City of Spokane's efforts in the developing a stormwater atlas as a companion document to the SVRP Aquifer Atlas. Older printed materials will be updated as necessary;
(d) Grants. County will continue to pursue opportunities for obtaining grants and loans through Ecology for specific projects addressing stormwater quality issues, public education and outreach, and low impact development projects. This will be done in cooperation with other affected jurisdictions, as well as other regional planning and management agencies;
(e) Website. County will continue to enhance, maintain and update the "stormwater" section of the existing Spokane County webpage, to provide information to the public on stormwater permitting, Spokane County water quality issues, BMPs, and links to other related websites;
(f) School Programs. County will continue to conduct outreach activities in public schools in Spokane County to promote awareness of water quality issues, pollution prevention, and basic watershed principles;
(g) Involvement in Other Organizations. County will continue to be active in other organizations in Spokane County that promote inter-agency cooperation and have outreach and education functions;
(h) Construction Program. County will conduct education and outreach activities targeting construction industry organizations (developers, contractors, engineers, surveyors, etc.) about technical standards, the development of

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stormwater site plans and erosion control plans and BMPs for reducing adverse impacts from development sites. When opportunities become available, Spokane County will work through professional engineering and land planning groups to provide education regarding compliance with the Spokane Regional Stormwater Manual and with other Permit requirements.

(i) Illicit Discharge Program. County will provide information to businesses and the general public about illicit discharges – what they are and how to prevent them – and encourage proper management and disposal of toxic materials.

(j) Regional Stormwater Facilities. Signage and other information will be developed to explain the meaning of watersheds, and the value of using natural stormwater systems to control and treat stormwater runoff. Regional stormwater facilities will include opportunities for hands on education about wetlands, the stormwater cycle and the value of clean water.

(k) Civic Groups. County will provide stormwater pollution prevention information to various community groups.

4.3 Priorities and Measurable Goals

Coordinate public outreach and education with various departments and jurisdictions.

4.4 Staffing and Funding

The annual budgets of the Spokane County Stormwater Utility and the Water Resources Program fund public education and outreach related to water quality. Funds can be used for producing printed material and other education and outreach materials and for assisting in developing long-term education and outreach strategies and methods.

Spokane County supports the utilization of funds for staff time to make presentations at public schools and before civic groups.

Attendance of Spokane County staff members at community outreach events, where part of staff employment responsibilities, will be funded by various participating government agencies.

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SECTION 5 – PUBLIC INVOLVEMENT AND PARTICIPATION

5.1 Introduction

In meeting the requirements of the Permit, Spokane County intends to integrate the stormwater management program as much as possible into existing programs and activities. Spokane County has, under the State's Growth Management Act, adopted the *Public Participation Program Guidelines* (PPPG) which describes procedures to ensure a wide range of opportunities for public participation in land use decisions.

Figure 5. Price & Wall Regional Stormwater Facility Ground Breaking Ceremony, June 2008

The County will use the PPPG to ensure there are ongoing opportunities for public involvement and participation in the development and update of stormwater related codes. This section describes the public involvement and participation activities to be used to meet the municipal permit requirements for such a program (paragraph S5.B.2).

5.2 Public Involvement and Participation Program Elements

5.2.1 Objectives for Public Involvement and Participation

The overall objectives of the Public Involvement and Participation Program are to:

(a) Provide opportunities for public participation in the decision making processes related to stormwater management plans and regulations; and
(b) Ensure the public has opportunities to participate in activities and discussions that will mold and guide the local stormwater management program.

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5.2.2 Public Involvement and Participation Activities

In 2008, Spokane County utilized the public participation guidelines in adopting the *Spokane Regional Stormwater Manual* (SRSM). The public involvement guidelines include the following: communication programs and information services; broad dissemination of proposals and alternatives; public meetings after effective notice; provision for open discussion; opportunity for written comments; and consideration of and response to public comments.

In 2009, Spokane County utilized the public participation guidelines in adopting the Illicit Discharge Detection and Elimination related amendments to Spokane County Code. The public involvement guidelines include the same elements mentioned in the previous paragraph.

In 2011, the SWU conducted a randomly distributed public survey to gauge the level of the public's knowledge on stormwater related pollution sources, concerns, issues, and to begin to gain an understanding of where future education efforts should be focused towards.

The SWMP is available on the Spokane County webpage where public involvement and participation is encouraged.

5.3 Priorities and Measurable Goals

Coordinate public involvement and participation with various departments and jurisdictions to encourage compliance with the adopted guidelines.

The SWMP is available for public review and comment on the Spokane County web-site.

5.4 Staffing and Funding

Following the adopted guidelines and creating ongoing opportunities for involvement in stormwater management activities is, and will continue to be, a part of doing business at Spokane County. Funding and staffing for the public participation work are part of the operations of the Stormwater Utility and other County agencies such as the Water Resources Program.

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SECTION 6 – ILLICIT DISCHARGE DETECTION AND ELIMINATION

6.1 Introduction

This section describes the elements of the Illicit Discharge Detection and Elimination (IDDE) Program required by the Permit in paragraph S5.B.3. This element may be somewhat difficult initially for Spokane County to define clearly since the County does not have an extensive stormwater pipe system. As previously discussed in Section 3.1, most stormwater, including that conveyed by gutters or ditches in unincorporated Spokane County, is discharged into the ground, either via natural infiltration or through drywells. In many areas the geology above the SVRP aquifer allows for rapid stormwater infiltration. Therefore, opportunities for stormwater monitoring are limited.

Figure 6. Motor Oil Entering Storm Drain in Parking Lot

Illicit discharge program elements are focusing initially on evaluating the existing stormwater system and potential non-stormwater discharges into the system to determine potential illicit discharge issues and future water quality monitoring sites.

In late 2009, the County began the process of developing an IDDE Guidance Manual (GM) that will define the procedures for locating, assessing, characterizing, tracing and ending illicit discharges, as per Section S5.B.3.c. of the Permit. The GM will also aid in guiding field assessments on three high priority water bodies (Spokane River, Little Spokane River and Liberty Lake). The IDDE Guidance Manual has been completed in 2010 and has been shared with other Eastern Washington Phase II Permittees.

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6.2 Illicit Discharge Data and Mapping

The County will develop MS4 maps showing the following: all known and new connections; all known outfalls; the names and locations of all waters of the state that receive discharges from those outfalls; and areas served by discharges to the ground.

The illicit discharge related maps are described and included in Section 3, Stormwater Baseline Data and Maps.

6.3 Non-Stormwater Discharges

Spokane County Code, Chapter 9.14.215, Roads, Approach, and Drainage in New Construction, Discharge of Unauthorized Waters - Prohibited, historically prohibited the discharge of unauthorized waters onto County property or rights-of-way. Unauthorized waters include, but are not limited to groundwater, surface water containing sediment, discharges from swimming pools, hot tubs, detention or evaporation ponds, water discharged from the cleaning of containers or equipment used in laying, cutting or processing concrete and mortar, and water discharged from the cleaning of equipment or containers holding paint solvents or similar contaminants. The Code also requires control of pollutants on construction sites in a manner that does not cause contamination of stormwater or groundwater.

Also, Spokane County non-stormwater discharges are described in Spokane County Code, Section 9.14.185, Erosion and Sediment Control as well as in the Spokane Regional Stormwater Manual.

However, Chapter 9.14 falls short of meeting the illicit discharge requirements mandated under the IDDE component of the Permit. Therefore, the County went through an extensive public review process, and adopted code revisions to Chapter 9.14.215, that address all IDDE Permit requirements. This code amendment (Resolution 09-0672) was formally adopted by the Spokane County Commissioners on July 21, 2009.

In addition, Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.03, Sanitary Sewer Code, includes various sections that address illicit discharges within Spokane County's municipal separate storm sewer system (MS4). See Section 2.2, Existing Legal Authority, for a detailed list of primarily relevant sections.

6.4 Visual Inspection Program Elements

Municipal separate storm sewer systems (MS4s) is periodically inspected for evidence of non-stormwater discharges by visually observing open channel sections.

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Emphasis will be on those areas that, based on the results of visual inspections or other appropriate information, indicate a reasonable potential of containing illicit discharges, infiltration from the sanitary sewer system, or other sources of non-stormwater discharges. Inspections will be performed by Stormwater Utility staff who will work with landowners to correct the problems.

Municipal maintenance staff for streets and storm drains within Spokane County will be trained to look for evidence of non-stormwater discharges to the drainage system during their normal duties. A process for reporting potential problems will included with the existing *Hotline* and *Request for Investigation* processes currently utilized by the County.

6.5 Spill Prevention and Response Program Elements

Hazardous spill prevention and response programs and procedures are in place through the fire department, emergency management and/or contracts with special emergency response contractors. These programs and procedures are designed to addresses safe storage, handling, containment and cleanup of hazardous substances that have the potential to contaminate surface or ground water.

6.6 Public Reporting Program Elements

Public reporting of illicit discharges or other water quality problems is currently available through the following avenues:

(a) stormwater Hotline;
(b) calls to Spokane County Public Works;
(c) emails via Spokane County website;
(d) calls to Spokane County Health District;
(e) calls directly to the Department of Ecology.

Spokane County added an IDDE "hotline" (509-477-7525) in February of 2009 and developed a process to following up on calls. We also developed a public informational mail insert describing the hotline.

6.7 Hazardous Waste Disposal Program Elements

The Spokane Regional Solid Waste System (System) was created by an Interlocal Agreement between Spokane County and the City of Spokane on October 11, 1988. All ten of the existing regional cities and towns, as well as Fairchild Air Force Base, subsequently joined the System by executing inter-local agreements with the City and

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County of Spokane. In 2003, the newly incorporated cities of Liberty Lake and Spokane Valley also executed inter-local agreements and joined the System.

The System operates as a department of the City of Spokane's government and manages solid waste facilities and contracts for the benefit of all citizens residing in Spokane County. The concurrence of the County is required for certain major decisions. A Liaison Board was established by interlocal agreement in 1987. The Board's purpose is to recommend policy and provide direction on matters pertaining to the management of solid waste and related environmental issues in the incorporated and unincorporated areas throughout Spokane County. Areas of responsibility include recycling/waste reduction, composting, solid waste disposal, household hazardous waste and litter programs. The Liaison Board is also responsible for monitoring capital assets and recommending capital improvements of the System.

Spokane County will work with the System to gather information and assist in evaluating existing household hazardous waste pollution prevention measures.

Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.26, Litter and Discriminate Dumping, Litter in General, addresses the disposition of litter upon any public place or private property, or within any waters in Spokane County. See Section 2.2, Existing Legal Authority, for additional details.

6.8 High Priority Water Body Assessment

In 2010, the County conducted field assessments in an effort to find unknown illicit discharges on three (3) high priority water bodies, including; portions of the Spokane River, Silver Lake and Liberty Lake.

In 2011, the County conducted field assessments in an effort to find unknown illicit discharges on sections of the Little Spokane River from Colbert Road to the Riverside State Park river access point near St. George School. In 2012 and 2013, additional primary water body inspections were completed. See attached, *2010-2013 Compliance Actions Primary Water Body Inspections* for updated details.

Each year the County will conduct a field assessment on one additional high priority water body.

6.9 Priorities and Measurable Goals

In addition to the on-going activities of dry weather monitoring and field inspections, the first priority will be to identify existing inspection programs that are conducted by

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maintenance staffs. This will be followed by development of training materials and execution of a training program for these staffs. These and other measurable goals are defined below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Review existing local regulations related to discharge of materials and non-stormwater to stormwater systems
End of Permit Year 2 (February 15, 2009)	• Conduct periodic field inspections of open channels • Evaluate existing practices of municipal maintenance staff • Conduct public education and outreach as per Section 4 • Develop training materials for municipal maintenance staff and the public • Establish a citizen hotline by the end of February 2009 • Draft amendments to Spokane County Code to meet permit requirements to prohibit illicit discharges by August of 2009
End of Permit Year 3 (February 15, 2010)	• Conduct periodic field inspections of MS4 • Evaluate existing practices of municipal maintenance staff • Conduct public education and outreach • Update training materials, as needed, for municipal maintenance staff and the public • Revise Spokane County Code (Chapter 9.14) to include IDDE components per the Permit
End of Permit Year 4 (February 15, 2011)	• Evaluation of existing non-stormwater related local and state laws • Conduct periodic field inspections of MS4 • Evaluate existing practices of municipal maintenance staff • Conduct public education and outreach as per Section 5 • Conduct training, as needed, for municipal maintenance staff and the public • Develop a IDDE Guidance Manual to direct field personnel on inventory procedures and field inspections • Conduct field inspections on three primary water bodies (Spokane River, Silver Lake, Liberty Lake)
End of Permit Year 5 (February 15, 2012)	• Conduct dry weather assessments per Section 4 • Conduct semi-annual field inspections of open channels

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	• Evaluate existing practices of municipal maintenance staff • Evaluate regional maintenance facilities • Conduct a field inspection of a high priority water bodies (Spokane River, Liberty Lake, Little Spokane River) • Continue refining training of field crews
End of Permit Year 6 (February 15, 2013)	• Continue implementing previous year Permit requirements
End of Permit Year 7 (February 15, 2014)	• Continue implementing Permit requirements

6.10 Staffing and Funding

Staffing and funding for the illicit discharge and elimination system program elements shall be provided by Spokane County, with assistance from Ecology where available.

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SECTION 7 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

7.1 Introduction

Currently, Spokane County has included within the site plan review permitting process for new construction notification to applicants regarding the criteria and potential need for coverage under Ecology's NPDES Construction Permit. This section describes the construction site engineering design standards and best management practice (BMP) program required by S5.B.4 of the municipal permit. Construction activity has been singled out by EPA as a potential source of pollutants that require special permitting attention.

Figure 7. Construction Site Stormwater Runoff

Also, within the development review process the public is advised that proposed development projects need to comply with the standards described within the Spokane Regional Stormwater Manual (SRSM), including the erosion and sediment control plan requirements during construction.

The proposed program includes activities intended to provide guidance to public and private groups in Spokane County regarding appropriate construction practices, as well as activities intended to support Ecology in implementing its construction permitting program.

7.2 NPDES Construction Stormwater Permit - Ecology

Any construction projects disturbing one (1) acre or more of ground, or construction projects of less than one acre that are part of a common plan of development or sale shall receive a NPDES Construction Stormwater Permit from Ecology prior to beginning any construction activities.

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7.3 Spokane Regional Stormwater Manual

In 1980, Spokane County Commissioners approved Resolution No. 80-1592, which included the *Guidelines for Stormwater Management* (GSM). The GSM was prepared to provide engineers and developers information regarding drainage requirements for land development in Spokane County. This document has been amended over the years to include updates such as the adoption of an "Erosion and Sediment Control" section in April of 1998.

The GSM was replaced by the Spokane Regional Stormwater Manual (SRSM), adopted by the Board of County Commissioners in June of 2008. The SRSM has been accepted by Ecology as being equivalent to the Stormwater Management Manual for Eastern Washington (SWMM).

The SRSM establishes standards for stormwater design and management to protect water quality, natural drainage systems and downstream/down gradient properties as urban development occurs. The purpose of the SRSM is not only to protect surface and ground water quality but also to control stormwater runoff and reduce adverse impacts from flooding.

The SRSM describes, or references recommended design criteria for BMPs that will be applied to new development and redevelopment. The BMPs include criteria for wetlands, bio-infiltration swales, bio-filtration channels, oil-water separators, emerging technologies, etc.

7.4 Erosion and Sediment Control Plan - General Requirements

In Spokane County, under the SRSM, the Erosion and Sediment Control Plan (ESC Plan) is equivalent (as approved by Ecology) to the Construction Stormwater Pollution Prevention Plan (SWPPP), referenced as in Appendix 1 of the Permit. An ESC Plan shall be submitted with each proposed application for development that is proposing to disturb more than one acre of land, as required within the municipal permit, and for projects of less than one acre that are part of a common plan of development or sale, as required within the municipal permit.

When required, a proposed development shall submit an ESC Plan in accordance with the erosion and sediment control plan requirements described within the SRSM at the time of application to Spokane County.

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7.5 Developer Notification Program Elements

When a landowner or developer applies for a land action approval (subdivision, etc.) from the County, the applicant is notified of the need to prepare a drainage plan that meets local and state requirements prior to the actual development of the property. Public notification of "construction program elements" will also be part of the public education and outreach efforts described in Section 4.

7.6 Construction Site BMP Elements

Existing construction site engineering design standards and BMPs are described within the *Stormwater Management Manual for Eastern Washington* and the *Spokane Regional Stormwater Manual.* Practices recommended for Spokane County are described in detail within these manuals. As current construction practices evolve, BMP designs in one or more of these manuals are likely to be modified and updated.

In addition, the following chapters of the Spokane County Code include provisions focusing on stormwater related planning, design, construction and maintenance: 1) Chapter 9.14, Roads, Approach and Drainage in New Construction; 2), Chapter 12.400 Subdivisions; 3) Chapter 14.802.060, Parking Lot Location and Design.

If new or improved BMPs are developed and/or approved by Ecology and included within the SWMM, those BMPs will be readily available in Spokane County due to the current language within the SRSM that adopts by reference those BMPs approved within the SWMM.

7.7 Contractor Education and Training Program Elements

Spokane County will support Ecology in conducting local construction site permit program workshops for developers, contractors and engineers. This will include providing venues for workshops, handling local logistics, assisting with advertising, and providing staff to assist with workshop activities. Informational links will be provided via the Spokane County website regarding Ecology (or other organization) sponsored training opportunities for contractors.

Existing printed outreach and education materials for the construction site management program will be reviewed and evaluated.

Printed outreach and education materials for the construction site management program will be distributed with assistance from Ecology and the EPA. Possible examples include *Construction Site Permit Program, How to Prepare an Erosion and Sediment Control*

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Plan (Stormwater Pollution Prevention Plan), and *Proper Selection and Installation of Construction Site BMPs.* Printed materials will be distributed to developers and contractors during the land use application process, and will also be available to Ecology and Spokane County staff to distribute at construction sites during field visits.

Spokane County provides information to construction site operators through the SRSM, the Planning/Permitting processes, brochures, publications, and on the web-page on erosion and sediment control and BMP requirements for development and redevelopment.

7.8 Employee Education and Training Program Elements

Relevant Spokane County staff will receive training on stormwater pollution prevention construction procedures to minimize stormwater pollution from Spokane County construction activities. Training will be focused to be specific to the various departments' operations and functions. "Refresher" training will be provided to County staff as requested or as needed. See Sections 9.4.1 and 9.4.2 for details about additional employee construction training activities.

Information for construction site operators about Certified Erosion and Sediment Control Lead (CESCL) training is displayed in an interactive calendar on the Spokane County webpage. The CESCL training covers erosion and sediment control topics such as; BMPs, how to install and maintain erosion and sediment controls, and how to meet related Ecology requirements.

7.9 Priorities and Measurable Goals

Existing laws, programs and procedures will be reviewed and evaluated.

All of the program set-up activities occurred in permit year 1. The first priority achieved in year 2 was the adoption of the *Spokane Regional Stormwater Manual (SRSM).* The SRSM provides the regulatory mechanism to require erosion and sediment controls, and other construction phase stormwater pollution controls at new development and redevelopment projects.

Other measurable goals are defined below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Review existing laws, programs and procedures • Develop the *Spokane Regional Stormwater Manual*, in coordination with City of Spokane and the City of

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	Spokane Valley • Provide information to construction site operators on training in methods for erosion and sediment control.
End of Permit Year 2 (February 15, 2009)	• Review existing stormwater facility construction inspection procedures • Complete the public review process and final adoption of the "Spokane Regional Stormwater Manual" • If required, begin drafting regulations to implement construction permit requirements by February 2010 • Include construction permitting information in public/design professional education and outreach efforts
End of Permit Year 3 (February 15, 2010)	• If necessary, refine plan/process for conducting construction inspections and enforcement • Review BMP publication documents • If required, draft and adopt regulations to implement construction permit requirements by February 2010 • Include construction permitting information in public/design professional education and outreach efforts
End of Permit Year 4 (February 15, 2011)	• Enhance and improve the data base for construction permits and inspections • Include construction permitting information in public/design professional education and outreach efforts • Complete the development of the process for conducting construction inspections and enforcement • Begin developing a record keeping system for construction and post construction inspections
End of Permit Year 5 (February 15, 2012)	• Continue to refine and improve construction inspection process • Continue to notify and educate the development community • Continue refining record keeping • Continue construction inspections • Continue training activities
End of Permit Year 6 (February 15, 2013)	• Continue implementing previous year Permit requirements
End of Permit Year 7 (February 15, 2014)	• Continue implementing Permit requirements

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7.10 Staffing and Funding

Spokane County, in coordination with Ecology, will be responsible for preparation of materials and the development of a process for notifying the public, developers and design professionals of construction permitting, inspection and compliance requirements.

The Spokane County departments involved with construction permitting and inspection will keep a record of all relevant data, documentation and information.

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SECTION 8 – POST-CONSTRUCTION STORMWATER MANAGEMENT FOR NEW DEVELOPMENT AND REDEVELOPMENT

8.1 Introduction

This section describes the post-construction stormwater management for new development and redevelopment programs required by S5.B.5 of the municipal permit.

Post-construction activity has been singled out by EPA as a potential source of pollutants that require special permitting attention. The proposed program includes activities intended to provide for the long term inspection, maintenance and management of stormwater facilities.

Figure 8. Post Construction Stormwater Drainage Problem

8.2 Post Construction General Requirements

The Spokane Regional Stormwater Manual (SRSM) requires the ESC Plan (described within section 7) to include post-construction review, inspection and compliance. The ESC Plan is required to be submitted with each proposed application for new development or redevelopment that is proposing to disturb more than one acre of land, and from projects of less than one acre that are part of a common plan of development or sale, as required within the Permit.

Post-construction review, inspection, and compliance requirements are described within the following chapters of the Spokane County Code: 1) Chapter 9.14, Roads, Approach and Drainage in New Construction; 2), Chapter 12.400 Subdivisions.

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8.3 Post-Construction Notification Program Elements

Public notification of "post-construction program elements" shall be made a part of the public education and outreach efforts described in Section 4.

8.4 Post-Construction Site Inspection Program Elements

The County is currently reviewing all new construction projects located within the Permit jurisdictional boundary within the site plan review process.

The County shall work with Ecology to develop a database of "state permitted" construction sites within the Permit jurisdictional area. The database, combined with Spokane County construction project information and other tools will be used to identify areas of recent construction projects and to track adverse impacts to surface waters from the projects after completion.

8.5 Education and Training Program Elements

When possible, Spokane County will work with Ecology and other jurisdictions to conduct post-construction inspection training for County personnel. This will include providing venues for workshops, handling local logistics, assisting with advertising, and providing staff to assist with training activities.

Spokane County provides information to construction site operators through the SRSM, the Planning/Permitting processes, brochures, publications, and on the web-page on erosion and sediment control and BMP requirements for development and redevelopment.

8.6 Priorities and Measurable Goals

All of the program set-up activities are given high priority and scheduled in Permit Year 1. The contractor education and training program shall take place throughout the permit cycle. Other measurable goals are defined below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Review current laws relative to post-construction review, inspection and compliance • Evaluate and develop procedure for including site plan review of all construction projects within the Permit boundary
End of Permit Year 2	• Begin evaluating post-construction procedures

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(February 15, 2009)	• Include post-construction information in public/design professional education and outreach efforts • Work with Ecology to develop a database of current "NPDES General Permit" construction sites within the Permit boundary • Review process for post-construction inspections • Complete formal adoption of the "Spokane Regional Stormwater Manual" • If necessary, begin drafting regulations for policy and public review by the end of Permit Year 3 • Complete including in the site plan review process, review of all construction projects located within the Permit boundary
End of Permit Year 3 (February 15, 2010)	• Begin developing post-construction review, inspection, compliance procedures and if necessary ordinance revisions • Enhance and improve the current database for Ecology NPDES General Permitted construction sites • Continue with post-construction information in public education and outreach efforts
End of Permit Year 4 (February 15, 2011)	• Continue improving the Permit databases and processes • Finalize post-construction review, inspection, compliance procedures and if necessary ordinance revisions • Post-construction information to the public • Begin evaluating and developing staff training materials • Evaluate record keeping process • Evaluate inspection process
End of Permit Year 5 (February 15, 2012)	• Enhance record keeping process • Enhance inspection practices and procedures • Develop and implement training programs • Evaluate existing policy that promotes the maintenance of natural drainage systems
End of Permit Year 6 (February 15, 2013)	• Continue implementing previous year Permit requirements
End of Permit Year 7 (February 15, 2014)	• Continue implementing Permit requirements

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8.7 Staffing and Funding

Spokane County will work with Ecology in the preparation of materials and development of a process for notifying the public, developers and design professionals of post-construction review, inspection and compliance requirements.

The various Spokane County departments involved in compliance with the Permit will provide relevant data, documentation and information to the Spokane County and Ecology Phase II Permit coordinators necessary to support the successful implementation of this section of the SWMP.

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SECTION 9 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

9.1 Introduction

In coordination with multiple departments, Spokane County has developed a Stormwater Operations and Maintenance Plan (O&M Plan). This section describes the various pollution control, good housekeeping, BMPs and source control measures that will be applied to existing and new public facilities, and operations to mitigate the effects of urbanization on stormwater quality. These practices and measures address the miscellaneous requirements described in special provision S5.B.6 of the municipal permit.

Figure 9. County Crews Cleaning Storm Drain

Specific activities and programs were selected because of their link to existing County activities (e.g., for street and stormwater system maintenance) and their relevance to the Spokane County environment. Emphasis is on enhancing and documenting existing programs and activities.

Many County operations already meet the requirements under the Permit. Therefore, the SWMP for "Good Housekeeping" will primarily be a documentation of existing activities and recommendation/implementation of necessary modifications to reduce pollutants to surface and ground water. The Stormwater Operations and Maintenance Plan is available at the office of Engineering & Roads, Stormwater Utility.

9.2 Municipal Stormwater Facilities and Programs

Public stormwater facilities in unincorporated Spokane County fall into three general categories: (1) regional stormwater facilities; (2) facilities that mainly handle road runoff; and (3) on-site stormwater facilities at county owned parks, maintenance shops, county buildings, parking lots, etc. In several cases, county road crews also maintain stormwater facilities serving a specific development using funds from the owners of the parcels of land within the area served.

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In addition, many new developments install on-site stormwater facilities that are owned and maintained privately. For residential developments this may mean that a homeowners association is responsible for maintenance of all stormwater facilities in the neighborhood. For commercial and private industrial facilities, the landowner or operator of the establishment on the site operates and maintains the stormwater facilities.

Spokane County will review the following Public Works O&M activities and document the activities in relation to complying with the Permit.

9.2.1 Regional Stormwater Facilities

On January 17, 2006, the Board of County Commissioners adopted the *Comprehensive Stormwater Management Plan* (CSWMP) along with individual stormwater plans for Glenrose, North Spokane and West Plains and their associated Capital Improvement Plans. Each of the individual basin plans emphasizes protecting natural drainage features as the most cost effective means of handling stormwater over the long term.

The Stormwater Utility has constructed or participated in the funding to construct regional stormwater facilities and has purchased or is planning to purchase parcels of land for stormwater facilities. Two regional stormwater facilities were constructed in 2008. Regional stormwater facilities are generally maintained by the Stormwater Utility, County road maintenance, private landscape maintenance contractors and at times, County Parks crews.

Existing maintenance plans for regional stormwater facilities will be reviewed for consistency with the Permit and UIC requirements. As maintenance plans are developed for the new regional facilities, they will comply with Permit and UIC requirements.

9.2.2 Roadway Stormwater Facilities

Stormwater facilities in the county road rights-of-way are maintained by crews from the County Engineering and Roads Maintenance Section. Generally, curbs and gutters, culverts and ditches alongside County roads make up a large portion of the MS4. Stormwater Utility staff will work with maintenance section employees to develop the inventory of facilities and potential outfalls to surface waters and a program of preventative or proactive maintenance. Topics to be

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addressed include appropriate frequencies for cleaning catch basins, inlets and storm drains and appropriate ditch cleaning methods and frequencies.

Staff has examined current street sweeping and dust control practices and have determined that current practices are meeting Permit guidelines. All County streets are cleaned once in the Spring and once in the Fall of each year. In addition, spot street cleaning operations are conducted primarily based on field inspections or in response to public complaints. In addition, Spokane County has placed GPS units on all street sweepers to provide documentation of sweeping activities, as well as provide the public an opportunity to view street sweeping progress.

The County also constructs new roads and improves existing roads. Stormwater staff will work with the Engineering and Roads - Design Section regarding compliance with the Spokane Regional Stormwater Manual (SRSM).

Stormwater staff is also working with the Maintenance Section on common procedures for tracking and reporting stormwater facility maintenance activities. This will include standardization of the data that will be collected, and how it will be reported.

9.2.3 Stormwater Facilities at Parks and Other County Owned Properties

Stormwater Utility staff will work with the Parks and Golf Courses, Fair and Expo, Utilities, Human Resources, Sherriff, and Facilities Maintenance Departments and with maintenance supervisors at the county shops within the Permit boundary to review site management practices. Staff will review site operations, the use of herbicides, pesticides and other chemicals, the disposal of vactor wastes and the treatment and disposal of stormwater from the various sites. Existing maintenance plans will be reviewed and updated as necessary.

9.2.3.1 Parks and Open Spaces

Stormwater Utility staff will interview Parks staff and discuss current landscaping and maintenance practices. Staff will review any water quality data collected by Parks personnel. Staff will also discuss current training opportunities for Parks staff about proper storage, handling and application of pesticides, herbicides and fertilizers and whether additional training is warranted.

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Spokane County communities are implementing water conservation plans that have guidelines and ordinances addressing outdoor landscape irrigation. The plans are aimed at reducing water waste resulting from over watering. This will also reduce the contribution of pesticides, herbicides and fertilizers to downstream receiving waters.

Spokane County currently operates three golf courses; Meadow Wood Golf Course and Liberty Lake Golf Course are located within the City of Liberty Lake, which are outside of the county's Permit boundary.

The Hangman Valley Golf Course is located within the jurisdiction of Spokane County, however, it is located approximately 3 miles south of the Permit boundary.

9.2.3.2 Vehicle Fleets, Heavy Equipment Storage Areas, Maintenance Areas

Appropriate frequencies and practices will be reviewed and where necessary improvements implemented for cleaning, washing, painting and other maintenance activities related to County vehicles, equipment, heavy equipment and maintenance/repair areas.

The County shall conduct all vehicle and equipment washing, maintenance and repair in a self-contained covered building or in a designated wash and/or maintenance and repair area operated to separate wash-water contaminants from discharging to the MS4.

Spokane County has developed a Stormwater Pollution Prevention Plan (SWPPP) for all vehicle fleets, heavy equipment storage areas, and maintenance areas. The SWPPP is on file at each maintenance or repair shop.

9.2.3.3 Municipal Buildings

Stormwater Utility staff will work with County Facilities Maintenance staff to learn about current frequencies and practices for cleaning, washing, painting and other maintenance activities related to County owned, operated or maintained buildings.

The staff will discuss any concerns and the need for additional training regarding pollution prevention and good housekeeping practices for all County owned, operated or maintained buildings.

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9.2.3.4 Material Storage

All hazardous material storage areas shall be contained within a secure structure, in accordance with all applicable local, state and federal codes (i.e. Building and Fire Codes, OSHA Regulations, State of Washington, etc.). Hazardous material handling procedures and practices are currently being implemented.

All non-hazardous materials shall be stored in secure areas where the potential for stormwater pollution or contamination are minimal. Material storage is addressed within the SWPPP at all vehicle fleets, heavy equipment storage areas, maintenance areas.

9.2.3.5 Industrial Activities and Other Public Facilities

The following publicly owned industrial facilities in Spokane County will be identified using best available information:

(a) Municipal landfills;
(b) Public hazardous waste treatment, disposal and recovery facilities;
(c) Public industrial facilities that could contribute a substantial pollutant load to the municipal storm sewer system.

Public facilities identified above will be shown on a GIS map. Current permit requirements and available information about onsite BMPs will be identified.

At this time, no public industrial facilities have been identified that require coverage under the Permit.

9.3 Construction Projects

See *Spokane Regional Stormwater Manual* (SRSM) for details regarding engineering design standards, including BMPs relevant to construction projects. Spokane County will comply with the applicable construction standards relating to stormwater pollution control.

9.4 Spokane County Employee Education and Training

Relevant Spokane County staff will be periodically trained on operation and maintenance procedures to minimize stormwater pollution from operations and maintenance activities.

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Training will be focused to be specific to the various departments operations and functions. "Refresher" training will be provided to County staff as requested or as needed.

9.4.1 Objectives for Spokane County Employee Education and Training

The overall objectives of the Employee Education and Training Program are to:

(a) Inform the employee about important water quality issues, regulations, BMPs, and other construction practices related to stormwater management;
(b) Influence behavior of the employee to reduce activities that have a negative impact on stormwater runoff quality and increase activities that have a positive impact on stormwater runoff quality.

9.4.2 Employee Education and Training Activities

The following activities will be part of the employee education and training program.

(a) Training Events. County, in coordination with Ecology, will use training events for employees that focus on stormwater pollution awareness, stormwater construction practices, pollution prevention practices and regional stormwater issues.
(b) Printed Materials. County will continue to develop, produce or distribute printed materials (e.g., brochures, flyers, promotional items) for specific topics related to stormwater quality. Older printed materials will be updated as necessary.
(c) Website. County will continue to enhance, maintain and update the "stormwater" section of the existing Spokane County webpage, to provide information to employees on stormwater pollution potential sources and pollution prevention practices, Spokane County water quality issues, BMPs, and links to other related websites.
(d) Construction Program. County will conduct education and training activities targeting County employee construction and maintenance personnel.

9.5 Priorities and Measurable Goals

The first priority is to evaluate pollution prevention and good housekeeping areas of interest within the Permit jurisdiction.

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The second priority is to determine and evaluate existing tracking/reporting procedures within the various County departments in order to establish needs and goals for the following years.

These and other measurable goals are listed below.

Completed by	Measurable Goal/Milestone
End of Permit Year 1 (February 15, 2008)	• Begin reviewing pollution prevention and good housekeeping areas of interest within the Permit jurisdiction
End of Permit Year 2 (February 15, 2009)	• Review the availability of information on cleaning catch basins, inlets and storm drains • Review existing available information for tracking and reporting storm drain system maintenance • Review existing available information on street sweeping and dust control • Review existing available information on pesticide, herbicide and fertilizer monitoring data and existing management procedures • Review existing available information on vehicle fleet and heavy equipment maintenance/repair procedures • Review existing available information on hazardous material storage • Begin determining where employee training may be needed
End of Permit Year 3 (February 15, 2010)	• Evaluate a reporting program for the various items activities listed in years 2 and 3 • Begin developing a database to track various activities listed in years 2 and 3 • Conduct employee training as determined in Years 2 and 3 • Continue reviewing the availability of information on cleaning catch basins, inlets and storm drains • Continue reviewing available information for tracking and reporting storm drain system maintenance • Continue reviewing available information on street sweeping and dust control • Continue reviewing available information on pesticide, herbicide and fertilizer monitoring data and existing management procedures • Continue reviewing available information on vehicle fleet and heavy equipment maintenance/repair procedures • Continue reviewing available information on hazardous

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	material storage • Evaluate future training needs
End of Permit Year 4 (February 15, 2011)	• Continue to develop a reporting program for the various activities listed in years 2 and 3 • Begin developing a database to track various activities listed in years 2 and 3 • Conduct employee training as needed • Evaluate future training needs • Complete the development of the O&M Plan
End of Permit Year 5 (February 15, 2012)	• Complete reporting program development for the various O&M activities • Update files for various activities • Conduct employee training • Evaluate future training needs • Evaluate and update the O&M Plan as needed
End of Permit Year 6 (February 15, 2013)	• Vehicle Fleets, Heavy Equipment Storage Areas, Maintenance Areas
End of Permit Year 7 (February 15, 2014)	• Continue implementing the O&M Plan

9.6 Staffing and Funding

The evaluation of existing procedures and practices relating to pollution prevention and good housekeeping measures will be funded by Spokane County. Staffing will also be provided by Spokane County.

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SECTION 10 – SWMP IMPLEMENTATION RESPONSIBILITIES

10.1 Introduction

This section describes how the responsibilities for implementing the adopted SWMP programs will be shared among the various Spokane County entities.

This section is in compliance with the Eastern Washington Phase II Municipal Stormwater Permit, special provision S5.A and S5.B, which requires an implementation strategy within the Stormwater Management Program (SWMP).

Figure 10: Residential Grassy Swale

10.2 Implementation Responsibilities

In general, Spokane County provides overall program oversight, funding and staffing for activities that are described within the SWMP.

Responsibility for implementing the various elements of the SWMP will be primarily by various Spokane County entities as described below:

Public Works, Engineering and Roads – Development Services, Stormwater Utility, Fleet Management and Road Maintenance Sections

Building and Planning

Public Works, Utilities

Parks, Recreation and Golf Department

Facilities

Human Resources

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Fair & Expo Center

The State of Washington, Department of Ecology will provide various services in support of the SWMP.

The various Spokane County entities shall coordinate through the Stormwater O&M Plan.

10.3 Implementation in New Areas

The programs outlined in this SWMP will be applied to Spokane County areas described as United States Census classified urbanized areas, *Urban Growth Areas* (UGA) associated with Phase II Permit regulated cities under the jurisdictional control of the County, and UGA areas contiguous to urbanized areas (see *Spokane County - Comprehensive Plan* for UGA details) that are under the jurisdictional control of the County, as required by Section S1.A.2. Those areas that become urbanized or are included in an UGA area during the period of the current municipal permit will be documented and included within the next subsequent Phase II Municipal Stormwater Permit cycle.

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SECTION 11 – MEASURABLE GOALS

11.1 Year 1 Goals

This section summarizes the measurable goals proposed in the previous sections for years 1, 2, 3 and 4 of the five year Permit cycle. Many activities are proposed from year to year establish a foundation for public education and outreach, public involvement, IDDE, construction, post-construction programs, and operations and maintenance.

Year 1 measurable goals are summarized in the following table.

Program Category	Measurable Goal/Milestone
Section 2: Legal Authority	• Begin to Assemble and summarize existing legal authority
Section 3: Stormwater System Map	• Begin preparing MS4 base maps
Section 4: Public Education and Outreach	• Begin reviewing public outreach and education opportunities with various departments and jurisdictions
Section 5: Public Involvement and Participation	• Begin reviewing public involvement and participation opportunities with various departments and jurisdictions
Section 6: Illicit Discharge Detection and Elimination Program	• Review existing local regulations related to discharge of materials and non-stormwater to stormwater systems
Section 7: Construction Site Stormwater Control Program	• Review existing laws, programs and procedures • Develop the *Spokane Regional Stormwater Manual*, in coordination with City of Spokane and the City of Spokane Valley • Provide information to construction site operators on training in methods for erosion and sediment control
Section 8: Post Construction Management for New Development and Redevelopment	• Review current laws relative to post-construction review, inspection and compliance • Evaluate and develop procedure for including site plan review of all construction projects within the Permit boundary
Section 9: Pollution Prevention and Good Housekeeping for Municipal Operations	• Begin reviewing pollution prevention and good housekeeping areas of interest within the Permit jurisdiction

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11.2 Year 2 Goals

This section summarizes the measurable goals proposed in the previous sections for year 2 of the five year Permit. Many activities proposed for year 2 will build and expand on year 1 goals.

Year 2 measurable goals are summarized in the following table.

Program Category	Measurable Goal/Milestone
Section 2: Legal Authority	• Develop a plan for addressing deficiencies in current legal authority • Begin developing policy and code revisions in legal authority
Section 3: Stormwater System Map	• Continue Developing the MS4 base maps • Begin evaluation of existing stormwater infrastructure, facilities and properties
Section 4: Public Education and Outreach	• Coordinate public outreach and education with various departments and jurisdictions
Section 5: Public Involvement and Participation	• Coordinate public involvement and participation with various departments and jurisdictions • Post SWMP on the Spokane County web-site by May 31, 2008
Section 6: Illicit Discharge Detection and Elimination Program	• Conduct periodic field inspections of open channels • Evaluate existing practices of municipal maintenance staffs • Conduct public education and outreach as per Section 4 • Develop training materials for municipal maintenance staff and the public • Establish a citizen hotline by the end of February 2009 • Draft amendments to Spokane County Code to meet permit requirements to prohibit illicit discharges by August of 2009
Section 7: Construction Site Stormwater Control Program	• Review existing stormwater facility construction inspection procedures • Complete the public review process and final adoption of the "Spokane Regional Stormwater Manual" • If required, begin drafting regulations to implement construction permit requirements by February of 2010 • Include construction permitting information in public/design professional education and outreach efforts
Section 8: Post Construction	• Begin evaluating post-construction procedures • Include post-construction information in public/design

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Management for New Development and Redevelopment	professional education and outreach efforts • Work with Ecology to develop a database of current "Ecology - NPDES General Permit" construction sites within the Permit boundary • Review process for post-construction inspections • Complete formal adoption of the "Spokane Regional Stormwater Manual" • If necessary, begin drafting regulations for policy and public review by the end of Permit Year 3 • Complete including in the site plan review process, review of all construction projects located within the Permit boundary
Section 9: Pollution Prevention and Good Housekeeping for Municipal Operations	• Review the availability of information on cleaning catch basins, inlets and storm drains • Review existing available information for tracking and reporting storm drain system maintenance • Review existing available information on street sweeping and dust control • Review existing available information on pesticide, herbicide and fertilizer monitoring data and existing management procedures • Review existing available information on vehicle fleet and heavy equipment maintenance/repair procedures • Review existing available information on hazardous material storage • Begin determining where employee training may be needed

11.3 Year 3 Goals

This section summarizes the measurable goals proposed in the previous sections for year 3 of the five year Permit. Many activities proposed for year 3 will build and expand on years 1 and 2 goals.

Year 3 measurable goals are summarized in the following table.

Program Category	Measurable Goal/Milestone
Section 2: Legal Authority	• Complete implementing policy and code revisions relating to illicit discharge (September 1, 2009) • If necessary, revise existing codes relating to construction and post construction
Section 3: Stormwater System Map	• Update stormwater GIS data layers and maps • Complete the analysis and development of the MS4 outfall

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	coverage from 2008 field investigations
Section 4: Public Education and Outreach	• Coordinate public outreach and education with various departments and jurisdictions
Section 5: Public Involvement and Participation	• Coordinate public involvement and participation with various departments and jurisdictions • Post updated SWMP on the Spokane County web-site by May 31, 2009
Section 6: Illicit Discharge Detection and Elimination Program	• Conduct periodic field inspections of MS4 • Evaluate existing practices of municipal maintenance staff • Conduct public education and outreach • Updated training materials, as needed, for municipal maintenance staff and the public • Revise Spokane County Code, Chapter 9.14, to include IDDE components per the Permit
Section 7: Construction Site Stormwater Control Program	• If necessary, refine plan/process for conducting construction inspections and enforcement • Review BMP publication documents • If required, draft and adopt regulations to implement construction permit requirements by February 2010 • Include construction permitting information in public/design professional education and outreach efforts
Section 8: Post Construction Management for New Development and Redevelopment	• Begin reviewing developing post-construction review, inspection, compliance procedures and if necessary ordinance revisions • Enhance and improve the current database for "Ecology - NPDES General Permit" construction sites • Continue with post-construction information in public education and outreach efforts
Section 9: Pollution Prevention and Good Housekeeping for Municipal Operations	• Evaluate a reporting program for the various items activities listed in years 2 and 3 • Begin developing a database to track various activities listed in years 2 and 3 • Conduct employee training as determined in Years 2 and 3 • Continue reviewing the availability of information on cleaning catch basins, inlets and storm drains • Continue reviewing available information for tracking and reporting storm drain system maintenance • Continue reviewing available information on street sweeping and dust control • Continue reviewing available information on pesticide,

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	herbicide and fertilizer monitoring data and existing management procedures • Continue reviewing available information on vehicle fleet and heavy equipment maintenance/repair procedures • Continue reviewing available information on hazardous material storage • Evaluate future training needs

11.4 Year 4 Goals

This section summarizes the measurable goals proposed in the previous sections for year 4 of the five year Permit. Many activities proposed for year 4 will build and expand on years 1, 2 and 3 goals.

Year 4 measurable goals are summarized in the following table.

Program Category	Measurable Goal/Milestone
Section 2: Legal Authority	• Continue evaluating construction and post construction codes and procedures
Section 3: Stormwater System Map	• Gather data and develop infrastructure maps for all public facilities and activities relating to the development of the O&M Plan • Conduct priority water body outfall field investigations and continue updating outfall database • Update stormwater GIS coverages and maps
Section 4: Public Education and Outreach	• Coordinate public outreach and education with various departments and jurisdictions
Section 5: Public Involvement and Participation	• Coordinate public involvement and participation with various departments and jurisdictions • Post updated SWMP on the Spokane County web-site by May 31, 2010
Section 6: Illicit Discharge Detection and Elimination Program	• Evaluation of existing non-stormwater related local and state laws • Conduct periodic field inspections of MS4 • Evaluate existing practices of municipal maintenance staff • Conduct public education and outreach as per Section 5 • Conduct training, as needed, for municipal maintenance staff and the public • Develop a IDDE Guidance Manual to direct field personnel on inventory procedures and field inspections • Conduct field inspections on three primary water bodies

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	(Spokane River, Silver Lake, Liberty Lake)
Section 7: Construction Site Stormwater Control Program	• Enhance and improve the data base for construction permits and inspections • Include construction permitting information in public/design professional education and outreach efforts • Complete the development of the process for conducting construction inspections and enforcement • Begin developing a record keeping system for construction and post construction inspections
Section 8: Post Construction Management for New Development and Redevelopment	• Continue improving the Permit databases and processes • Finalize post-construction review, inspection, compliance procedures and if necessary ordinance revisions • Post Construction information to the public • Begin evaluating and developing staff training materials • Evaluate record keeping processes • Evaluate inspection processes
Section 9: Pollution Prevention and Good Housekeeping for Municipal Operations	• Continue to develop a reporting program for the various items activities listed in years 2 and 3 • Begin developing a database to track various activities listed in years 2 and 3 • Conduct employee training as needed • Evaluate future training needs • Complete the development of the Stormwater Operations and Maintenance Plan

11.5 Year 5 Goals

This section summarizes the measurable goals proposed in the previous sections for year 5 of the five year Permit. Many activities proposed for year 5 will build and expand on years 1, 2, 3 and 4 goals.

Year 5 measurable goals are summarized in the following table.

Program Category	Measurable Goal/Milestone
Section 2: Legal Authority	• Monitor previous Code revisions.
Section 3: Stormwater System Map	• Update stormwater GIS coverage areas and maps • Develop public facility site maps to accompany the Stormwater O&M Plan site assessment analysis

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	• Develop material storage, heavy equipment storage area and maintenance area maps for the Stormwater O&M Plan SWPP • Conduct priority water body outfall field investigations and continue updating outfall database
Section 4: Public Education and Outreach	• Coordinate public outreach and education with various departments and jurisdictions
Section 5: Public Involvement and Participation	• Coordinate public involvement and participation with various departments and jurisdictions • Post updated SWMP on the Spokane County web-site by May 31, 2011
Section 6: Illicit Discharge Detection and Elimination Program	• Conduct dry weather assessments per Section 4 • Conduct semi-annual field inspections of open channels • Evaluate existing practices of municipal maintenance staff • Evaluate regional maintenance facilities • Conduct field inspection of a high priority water bodies (Spokane River, Liberty Lake, Little Spokane River) • Continue refining training of field crews
Section 7: Construction Site Stormwater Control Program	• Continue to refine and improve construction inspection process • Continue to work with notification and education of the development community • Continue refining record keeping • Continue refining construction inspections • Continue training activities
Section 8: Post Construction Management for New Development and Redevelopment	• Enhance record keeping processes • Enhance inspection practices and procedures • Develop and implement training programs • Evaluate existing policy that promotes the maintenance of natural drainage systems
Section 9: Pollution Prevention and Good Housekeeping for Municipal Operations	• Continue to develop a reporting program for the various O&M activities • Begin developing a database to track various activities • Conduct employee training • Evaluate future training needs • Complete the development of the Operations and Maintenance Plan

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11.6 Year 6 Goals

This section summarizes the measurable goals proposed in the previous sections for year 6 of the extended five year Permit. Year six will be a continuation of the implementation of previous year Permit actions and requirements. See above sections for details.

11.7 Year 7 Goals

This section summarizes the measurable goals proposed in the previous sections for year 7 of the extended five year Permit. Year seven will be a continuation of the implementation of previous year Permit actions and requirements. See above sections for details.

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Public Education and Outreach

Actions - 2013

Spokane County provided Public Education and Outreach through the distribution of various kinds of information, virtual tours, links to educational sites, background/history, place to report stormwater problems, etc. on Spokane County's web-page. Also, other information is made available on the Spokane County web-page and/or available at the Spokane County Public Works Department, such as, NPDES Construction Permit information, brochures, publications, Ecology Publication #07-10-058, and the Spokane County - Stormwater Management Program. See Public Education and Outreach Attachment for examples of information available.

Contents:

1. Spokane County Engineering & Roads, Stormwater Utility Web-page
   a. Stormwater Background/History
   b. Brochures and Education Links
   c. Canines for Clean Water
   d. Community Car Wash
   e. Contact Us
   f. FAQs
   g. Grassy Swale Information
   h. Historical Stormwater Photos
   i. Regional Stormwater Facilities
   j. Storm Drain Dan
   k. Water Quality, NPDES, UIC, etc.
   l. Watersheds

2. Handouts available to public in Engineering & Roads, Building and Planning or elsewhere in the County
   a. Homeowner's Guide to Grassy Swales
   b. Grassy Drainage Swales in Residential Developments, SW-2
   c. Homeowner's Guide to Stormwater Drainage Easements
   d. Natural Location of Drainage System(s), SW-3
   e. Basements within High Risk, Drainage Problem & Critical Flood Areas (High Risk Drainage Areas), SW-1
   f. Maintaining Pools and Hot Tubs to Prevent Stormwater Pollution
   g. Stormwater Hotline
   h. Residential Site Plans, BP-72
   i. Environmental Review, B-49
   j. Pre-Application Conference Information and Guidelines, BP-26
   k. Commercial Permits, BP-1
   l. Washington Water's Posters
   m. Good Housekeeping Practices
   n. Urban Runoff Pollution Prevention

o. Spokane County Stormwater Management Fact Sheet
p. Homeowner's Guide to Storm Drains and Drywells

3. Handouts Available at Spokane County Stormwater Utility Division
   a. Ecology Publication #07-10-058

4. Watershed Signs
   a. Spokane County coordinated with the City of Spokane to place watershed signs at key locations identifying the Glenrose and Five Mile Watersheds.

5. Other Public Outreach Information

   a. See the attached Spokane County Education and Outreach Plan for additional information.
   b. Central Valley Environmental Education Program
   c. Meade School District Environmental Education Program
   d. Storm Drain Stenciling
   e. Storm Drain Dan coloring book
   f. Various other materials and activities

Note: Handouts and information from web-pages were available at community events. Also, other public outreach information is included in other sections of this Annual Report.

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Education & Outreach Plan

The County is required to implement a public education and outreach program to distribute educational materials and conduct outreach activities about the impacts of stormwater discharges on surface water and groundwater, and the steps that the public can take to reduce pollutants in stormwater runoff.

2013 PUBLIC EDUCATION HIGHLIGHTS

Water Resource Center

3rd Annual Mead 5th Grade Environmental Education Days

Stormwater Magic

Program Focus

The program's focus is to educate Spokane County residents about stormwater. Of particular importance is demonstrating how everyone's individual actions add up to negatively affect the quality of our lakes, rivers, and even our drinking water. The desired result is to change behavior in ways that will improve water quality throughout the County.

Spokane County Stormwater Utility's Outreach and Education Plan has the following objectives:

1. Encourage public reporting of illicit discharges or improper disposal of materials into the MS4 conveyances and clogged catch basin inlets. The reporting is accomplished by the use of a countywide hotline telephone number;
2. Educate residents concerning potential impacts of pollutants from the MS4 conveyances serving their place of residence, their workplace, and the roads on which they drive, including the need for members of the public to take responsibility for and stewardship in their water resources;
3. Continue to provide informative materials and live presentations to school children on stormwater pollution issues;

4. Use applicable public notification protocol, involving and seeking input from the public in the SWMP through meetings or other means and support efforts to improve water quality in the MS4 area;
5. Educate County residents regarding acceptable application and disposal of pesticides, herbicides and fertilizers;
6. Educate construction site operators, contractors and engineers on the importance of storm water management techniques and structural BMPs to reduce pollutants in runoff from construction sites; and
7. Educate the public on the proper management and disposal of used motor oil and toxic materials, including the availability and locations of facilities for disposal or drop-off of household hazardous wastes, chemicals, grass clippings, leaf litter, animal wastes and motor fluids.

2013 Outreach Programs

The Spokane County Stormwater Utility (SWU), in cooperation with the Spokane County Water Resources Department, continues to conduct a significant amount of public education based on the perceived needs of our community and that of successful programs implemented in other communities. See *Appendix A*.

This was an exciting year with a number of activities and wide-reaching impacts, including offering in-house learning opportunities at Spokane County's *Water Resource Center*, a newly-constructed water-focused interpretive center located at our Regional Water Reclamation Facility.

Spokane County Water Resource Center

Learning events for all ages of students and adults are held at the *Water Resource Center* throughout the year. The *Water Resource Center* has three separate areas for education and meetings:

1. **Indoor Exhibits** – There is an indoor exhibit area, which has permanent informative displays highlighting important features of the Spokane regional water cycle, the geology of the Spokane Valley-Rathdrum Prairie Aquifer, a model of the Water Reclamation Facility process, in addition to an interactive water conservation quiz on two Apple iPads. Portable activities include a stream table; EnviroScape and other watershed models; Stormwater Plinko; the "Flush-o-matic," an electrically powered agitator that simulates the breakdown of flushables in the sewer system; and stormwater pollution jars, to name a few.

2. **Conference Room** – The indoor conference room provides tables and chairs for hosting meetings up to 80 people. This room also exhibits a permanent "stormwater maze" drawn on the floor utilized for K-12 non-point pollution education during the winter and spring months.

3. **Patio/Landscaping** – The outdoor patio and facility grounds allow visitors to view and learn about the Center's xeriscaping and on-site stormwater treatment facilities, including swales and pervious pavement.

On twenty separate occasions, K-12 students, students from Spokane Community College, and adults were brought to the Water Resource Center in 2013. The County is actively marketing this new facility to area schools, and anticipates tripling the number of teaching events in 2014.

Appendix B highlights the various water-based curricula, including stormwater instruction, currently offered at the *Water Resource Center*.

Participation in Community Events

Spokane County successfully reaches a wide variety of the public through outreach at community events throughout each permit year.

- **Earth Day Spokane** – Reaching over 200 people, County and Spokane City staff shared a booth at this event on a very windy April 20, 2013, where information was provided to the public on current efforts to improve stormwater quality. Kids played "Stormwater Plinko" and the City of Spokane's "Stormwater Bean Bag" game, while Staff handed out: 1) a variety of brochures on pollution prevention and water conservation; 2) refrigerator magnets depicting our mascot, Storm Drain Dan, and our illicit discharge hotline number; 3) "Protect the Aquifer, Only Rain Down the Drain" license plate covers; and 4) the City of Spokane's water droplet stress balls and "End Stormwater Pollution" bracelets.

- **Unity in the Community** – The annual Unity in the Community event was held on August 17, 2013. Spokane County's booth, situated among many of Spokane's well-known local vendors, attracted over 140 youth and adults. Families played "Stormwater Plinko," and were asked to guess the contents of our "Stormwater Pollution Jars" (i.e., canning jars filled with common stormwater contaminants such as motor oil, paint, trash, soap, etc.). Additionally, the public was offered free Spokane Valley-Rathdrum Aquifer Atlases, license plate covers, and various stormwater-related informational brochures.

- **Go Green Booth at Spokane County Interstate Fair** – The SWU, Spokane County Water Resources, Spokane Conservation District, Spokane Regional Solid Waste System, Spokane Regional Clean Air Agency, National Weather Service, Spokane Joint Aquifer Board, EnviroStars, Sustainable Works, and Washington State University Extension staffed a joint booth at this event from September 6 - 15, 2013.

  Over the span of ten days, hundreds of youth and adults learned about storm drains, the aquifer, and water pollution, in addition to such things as recycling and air pollution. Of particular note, this event saw the debut of the Utility's "Stormwater Magic" trick for children. The Various items for distribution included newly-printed *Storm Drain Dan* activity books, Spokane Valley-Rathdrum Prairie Aquifer Atlases, "Protect the Aquifer, Only Rain Down the Drain" license plate covers, and pamphlets on pollution prevention.

- **ValleyFest** – Spokane County Water Resources, in cooperation with the Spokane Valley Stormwater Utility, staffed a booth at this event on September 20 - 22, 2013. Youth and adults again learned about storm drains, drywells, and water pollution via the County's "Stormwater Plinko" game. Our regional stormwater mascot, *Storm Drain Dan*, made an appearance at this event to greet area children. Various items for distribution included

200+ *Storm Drain Dan* activity books, and pamphlets on pollution prevention and water conservation.

K-12 Outreach

- **EnviroScape Model** – The SWU educates school children and their parents using EnviroScape's Nonpoint Source/Stormwater Pollution and Prevention model and Groundwater Liner kit. The EnviroScape is a 3D mini-watershed model that simulates the many sources of both point and nonpoint source pollution. It allows students and adults to observe the interactions of precipitation with various land use practices, and the impacts those practices have on streams, lakes, and groundwater.

- **Stormwater Plinko** – The SWU continues to utilize a 4' x 2'-sized Plinko game as a stormwater pollution teaching tool at community events. Players are asked to release a Ping-Pong ball "water droplet" at the top. The "water droplet" ultimately falls into one of nine spaces at the bottom. Three of the spaces are swales/grass, four spaces are storm drains, and two spaces involve infiltration through bare soil.

  Optimally, a player's "water droplet" will land in the grass/grassed swale, where plant medium acts as a filter for removing pollutants from rainwater. Those whose "water droplets" land in the storm drain are asked to describe a type of pollution found on the street that would not get filtered by a storm drain, potentially percolating to harm our groundwater.

- **Central Valley School District Outdoor Environmental Education Program** – The SWU and Spokane County Water Resources continued its participation in a 27-year-old environmental program for fifth graders. Over the span of 20+ days, from April to June, more than 1,200 fifth graders from the Central Valley School District (CVSD) learned about watersheds, the water cycle, stormwater pollution, stewardship regarding their storm drains, and drinking water protection.

  Each day, more than 50 kids worked their way through four (4) stations. The first station focused on the aquifer and water quality/stormwater. The second station involved a lesson on beavers, wetland ecology, and identifying macroinvertebrates in a nearby creek. The third station was a nature hike. For the final station, two CVSD P.E. instructors led a ropes course to teach teamwork. All the sessions were hands-on, with students collecting information and being tested.

  Participating agencies not mentioned above include Liberty Lake Sewer and Water District, and the WRIA 55/57 Watershed Implementation Team.

- **3rd Annual Mead School District Outdoor Environmental Education Days** – The SWU and Spokane County Water Resources organized and funded its third environmental program for fifth graders within the Mead School District. Over the span of eight days, June 3 - 13, 2013, more than 610 fifth graders and 65 teachers/chaperones learned about

the watersheds, the water cycle, aquifers, stewardship regarding their storm drains, and drinking water protection.

Each day, approximately 75 kids worked their way through six (6) stations. The first station, staffed by Water Resources, focused on the watersheds and aquifers. Station 2 educated the kids about sewers, septic systems, and flushables/nonflushables. The Stormwater Utility staffed the third station. Station 4 focused on the connection between air pollution and water pollution. Time at the fifth station was split between three agencies, and either involved a nature walk, a lesson about composting, or a discussion about storms and flooding. The final station, Station 6, saw the kids play a running/teamwork game hosted by their P.E. teacher.

In addition to the groups mentioned above, the Spokane Joint Aquifer Board, Spokane Regional Clean Air Agency, Spokane Regional Solid Waste System, and National Weather Service also volunteered their time to make this program possible. Most have committed to make the 4th Annual Mead School District Outdoor Environmental Education Program happen in 2014.

- **Girl Scouts Flex Program** – The SWU and Spokane County Water Resources hosted several presentations to the Girl Scouts at the County's *Water Resource Center*. This class serves to increase kids' awareness of water quality issues. Spokane County staff used models and real examples to explain how precipitation reaches lakes, streams, and even our drinking water. The girls identify examples of potential contaminants to water and learn how they can help prevent water pollution. Weather- and time-permitting, the girls can also choose to stencil storm drains at the end of the lesson. A patch is earned for taking the "class." Any Girl Scout troop can sign up at the following website:

  http://www.gsewni.org/just-girls/flex-program/

- **Storm Drain Stenciling Program** – Many people mistakenly believe that storm drain inlets empty water to treatment facilities, so they pour chemicals or sweep debris directly into the storm drains. This dumping greatly increases the level of non-point source pollution (i.e., leaves, soil, trash, fertilizers, pesticides, street residue, etc.) already present in urban stormwater runoff, and can contribute substantially to a decline in water quality. As such, 2013 saw the second year of the County's storm drain stenciling program.

  The program is a hands-on, service learning project for volunteers who are interested in educating the public about stormwater pollution prevention. Storm drain stenciling involves placing a "clean water" message next to a drain. The County's stencil messages, "Dump No Waste, Drains to Aquifer" and "Keep It Clean, Drains to Aquifer," remind would-be dumpers and passersby that most storm drains in Spokane County connect to the aquifer, and that dumping has the potential to pollute our drinking water.

  In addition to stenciling, volunteers are asked to distribute an informational door hanger to all residents within the stenciling area, which discusses the stenciling program and stormwater pollution. Spokane County believes storm drain stenciling educates threefold: 1) to the crew of stenciling volunteers; 2) to the neighboring residents who receive the door

hangar; and 3) to public citizens who happen upon the stenciled messages. Thus far, participants-to-date include Boy Scouts, area fifth-graders, and non-profit organizations.

- **Storm Drain Dan Activity Book** – The SWU completed its first stormwater-related activity book geared toward young children in 2012. It became available for distribution at local community events beginning September 2013. The focus of the activity book, titled *Storm Drain Dan and His Adventures to Save Our Water*, is to educate kids about stormwater, stormwater pollution, and pollution prevention via mazes, word searches, and puzzles. Over 400 of these books were given out during the last quarter of 2013.

- **Stormwater Magic** – The SWU and Spokane County Water Resources group teamed up to host an activity for children on "Kid's Day" at the Spokane County Interstate Fair on September 6, 2013. As the Utility had previously utilized the Plinko game at the Fair in 2012, we elected to provide a new, very different way to engage the public at this year's event. And so, the "Stormwater Magic" trick was born.

  A teaspoon of sodium polyacrylate is placed in a white Styrofoam cup. The top of the cup is then covered with a black shower drain strainer to give the cup the appearance of being a miniature storm drain. When water is poured into the cup, the powder acts like a sponge and turns the water into a clear solid. This cup and drain lid become our *Magic Storm Drain.*

  Adults and children were then asked what happens to stormwater once it enters a real storm drain. Does polluted stormwater "magically" disappear like the water poured into our *Magic Storm Drain*? This trick proves to be a great segue to educate adults and children as to where stormwater really goes, and how pollution on our streets doesn't get filtered by storm drains, potentially percolating to harm our groundwater.

Stormwater Utility Webpage

The County provides the following website for information about stormwater and surface water management: http://www.spokanecounty.org/stormwater. In addition to a variety of education and outreach materials, and updates on SWU capital projects, the County's Annual Stormwater Report and Regional Stormwater Manual are available for download on the site.

Poo-llution Prevention Campaign

Spokane County has continued its marketing campaign, titled "Canines for Clean Water," to encouraging residents to pick up after their dog(s). The project's goals were to inform dog owners about the impacts pet waste can have on surface waters, if not properly disposed of in the trash.

The County distributes pledge postcards, brochures, and temporary tattoos at community events. For those who take a "pledge" to always pick up after their pooch, we give away (or mail) free "Canines for Clean Water" bandanas for their dogs to wear. For those residents unable to attend an event but still wishing to "pledge," there is an online pledge form on the County's website.

Local Media

An educational documentary on one of the County's regional stormwater facilities was produced during the 2009 permit year. The 20-minute piece tells the story about how the facility uses natural processes

to remove pollutants from urban stormwater, in addition to discussing the public's involvement before, during, and after the construction of the facility. This piece continues to be rebroadcasted periodically on Cable Channel 5, the City of Spokane's Community Access station. The documentary can also be viewed on the County's website at the following address:

http://www.spokanecounty.org/video/include/vod/stormwater/stormwatervid.flv

County Projects

In order to facilitate the implementation of stormwater management and xeric landscaping techniques by developers and homeowners, Spokane County has constructed several demonstration projects and stormwater treatment facilities over the years. In both 2010 and 2012, Stormwater Utility was awarded grants for a retrofit project that will replace a one-mile stretch of an asphalt drainage channel with a LID raingarden/bio-infiltration swale. The new channel will provide water quality treatment for the adjacent road network. County staff conducted a public involvement and participation process in 2013 that included open houses and newsletters to educate neighbors and interested parties about this innovative stormwater project. Construction is anticipated for Spring/Summer 2014. Once complete, the project will showcase the use of trees and native perennials and grasses, and serve as a highly visible example to residents and developers of the benefits of xeriscaping.

Erosion and Sediment Control Education for Contractors and Developers

During the course of the Spokane County Development Review and/or the Site Plan Review processes and while conducting on-site inspections, Public Works staff provides Erosion and Sediment Control (ESC) guidance to contractors and developers. The Stormwater Utility also has two CESCLs on-staff who are ready to field questions regarding the County's ESC ordinances, and local, state, and federal regulations.

In addition, Stormwater Utility staff has compiled a calendar, which displays the dates of – and hyperlinks to – all Certified Erosion and Sediment Control Lead (CESCL) trainings and recertification courses within the entire State of Washington. Contractors and/or developers can access the calendar via the County's Stormwater webpage at:

http://www.spokanecounty.org/data/stormwater/npdes/2014_CESCLCalendar.pdf

The County's Building & Planning Department also includes a flyer in every building permit application packet to remind contractors and developers to contact the Department of Ecology to find out if their project will require a Construction General Permit (CGP).

Stormwater Hotline

Spokane County understands that citizen cooperation is vital to an effective stormwater program. Likewise, the public is key to timely enforcement. This is why the Stormwater Utility created a reporting hotline to provide citizens with an opportunity to help eliminate polluted stormwater discharges. Through this hotline – available 24 hours a day – anyone can report illegal dumping, illegal discharges into storm drains, or pollution spills. The County continues to spread the word about this hotline via the website and magnets that are handed out at community events.

Speaker Forums

Spokane County Staff also works to share their knowledge of stormwater concerns, local stormwater projects, new technologies, and successful application of Best Management Practices

(BMPs) with audiences inside and outside the local MS4. The presentation name (in bold) is followed by the date, speaker's name, forum title, and location.

- **Water Issues in Spokane**. January 17, 2013. Rob Lindsay. *Spokane Exchange Club.* Spokane County Water Resource Center, Spokane, WA.

- **TMDLs and Water Quality**. April 2, 2013. Rob Lindsay and Dave Moss. *Gonzaga University Environmental Science Class.* Spokane County Water Resource Center, Spokane, WA.

- **Low Impact Development**. April 24, 2013. Russ Connole. *Gonzaga University Civil Engineering Class.* Gonzaga University, Spokane, WA.

- **Eastern Washington LID Guidance Manual**. June 11 – 13, 2013. Russ Connole, AHBL, HDR, and Washington Stormwater Center. *Training Seminar for Eastern Washington LID Guidance Manual.* Spokane, WA; Tri-Cities, WA; and Wenatchee, WA.

- **Water Reclamation and the Saltese Flats**. July 15, 2013. Rob Lindsay and Ben Brattebo. *Sunrise Rotary Club.* City of Spokane Valley, WA.

- **Green Infrastructure**. October 24, 2013. Colleen Little, P.E. *Spokane: Green Solutions.* Spokane City Hall, Spokane, WA.

- **TMDLs and the Spokane County Water Reclamation Facility**. October 31, 2013. Dave Moss, Ben Brattebo, and Reanette Boese. *Spokane Community College Environmental Conservation Class.* Spokane County Water Resource Center, Spokane, WA.

Planned Activities

In the following years, Spokane County will supplement its current public education and outreach program by updating it to maintain compliance as the Department of Ecology phases in new Permit requirements. Actions recommended for continued compliance include:

- Continued collaboration with other NPDES municipalities

- Identifying target behaviors relevant to Spokane County

- Implementing new or modifying existing education and outreach activities

- Maintaining records of public education and outreach activities

- Utilizing GIS tools for better communication with the public about what is occurring in their watersheds

- Summarizing annual activities for the "Public Education and Outreach" component of the Annual Compliance Report; and identifying updates to the Program document

Workplan for 2014 Activities

In addition to the aforementioned actions, the following activities for education and outreach are targeted for implementation in FY2014:

- Continuing participation in community events
- Expanding educational programs at Spokane County's *Water Resource Center*
- Continuing youth outreach programs, including hosting and funding the Mead School District Outdoor Environmental Education Days
- Continuing to provide informational material (i.e., fact sheets, brochures, etc.)
- Continuing the storm-drain marking program to encourage greater public participation in stormwater education
- Continuing webpage development and enhancements
- Involvement with the 2014/2015 Spokane Valley – Rathdrum Prairie Aquifer Atlas Update, to include several new pages on stormwater, stormwater/aquifer interconnectivity, and stormwater Best Management Practices.

Appendix A

Education/Outreach Activities for 2013

Event	Date
Otis Orchards Elementary Science Night	1/16/13
Sunrise Elementary Science Night	1/31/13
Longfellow Elementary Science Night	2/6/13
Progress Elementary Science Night	2/7/13
Holmes Elementary Science Night	2/12/13
Mullan Road Elementary Science Night	2/20/13
Meadow Ridge Elementary 5th Grade Science Class	2/28/13
Girl Scout Flex Program - Troop 2537	2/28/13
University Elementary Science Night	3/12/13
Exploring Families Field Trip @ Water Resource Center	3/22/13
Earth Day Spokane	4/20/13
Central Valley School District 5th Grade Outdoor Environmental Days	4/15/13 – 5/31/13
Windsor Elementary Science Night	4/25/13
Mead School District 5th Grade Outdoor Environmental Days	6/3/13 – 6/13/13
Spokane Bar Association Storm Drain Stenciling	6/7/13
Girl Scout Flex Program – Troop 4350	6/25/13
Deer Park After-School Program @ Water Resource Center	6/26/13
ValleyPoint Learning Center @ Water Resource Center	7/8/13
School District 81, Summer Express @ Water Resource Center	7/10/13, 7/12/13
West Central Community Center Summer Day Camp	7/15/13
School District 81, Summer Express @ Water Resource Center	7/17/13, 7/18/13
Spokane County Homeschoolers @ Water Resource Center	8/8/13
YMCA Spokane Valley	8/16/13
Unity in the Community	8/17/13
Girl Scout Echo Day Camp	8/19/13
Kids' Day Activity at Spokane County Interstate Fair	9/6/13
Go Green Booth at Spokane County Interstate Fair	9/6/13 – 9/15/13
NNRI Water Festival	9/12/13, 9/13/13
Boy Scouts Troop 413 Storm Drain Stenciling	9/15/13
ValleyFest	9/21/13
Summit School at Riverside State Park	9/23/13
Garfield Apple Program @ Water Resource Center	10/8/13
St. George's School 7th Grade Science Class @ Water Resource Center	10/16/13
Spokane Valley Tech High School 11th Grade Science Class	10/23/13
Moran Prairie Elementary 6th Grade Science Class	11/1/13
Girl Scout Flex Program @ Water Resource Center	11/11/13
Exploring Families Field Trip @ Water Resource Center	11/12/13
Colbert Cub Scouts (Multi-Troop) Learning Event	11/20/13
Step into STEM	11/23/13

Focused Information Distribution for 2013

Publications and Outreach

Homeowner's Guide to Grassed Swales
Homeowner's Guide to Storm Drains & Drywells
Homeowner's Guide to Stormwater Drainage Easements
You Dump It, You Drink It – A Guide to Automotive Care and Fluids Disposal
Urban Runoff Pollution Prevention Fact Sheet
Good Housekeeping Practices Fact Sheet
Maintaining Pools & Hot Tubs to Prevent Stormwater Pollution
Going "P" Free Yard Care Card
Contractor's Swale Field Guide (Laminated)
Wally Otter Stormwater Pollution Word Search
Wally Otter Stormwater Maze
Wally Otter "We Really Otter Protect Our Water" Stickers
Canines for Clean Water Tattoos
Canines for Clean Water Mousepads
"Protect the Aquifer, Only Rain Down the Storm Drain" License Plate Covers
Storm Drain Dan Magnets
Storm Drain Dan Tattoos
"Storm Drain Dan and His Adventures to Save our Water" Activity Book

Appendix B

List of Activities offered at the Spokane County Water Resource Center (WRC)

THE WATER CYCLE				
Title	**Description**	**Age Group**	**Group Size / Duration of Activity**	**Next Gen. Science Standards**
Our Local Water System	Learn how the natural water cycle works in the Spokane area. Students will get to participate in simulating precipitation and water pumping.	All ages	Any size group (15 or less optimal) 25 minutes	Practices #2 Cross Cut #2,4,5,6 Core Ideas: PS1A; ESS2A,C; ESS3A,C
Our Watershed Through the Year	Be a part of a watershed by mimicking part of a river or aquifer. Learn about watershed systems and boundaries; seasonal changes in river flows; and how the Spokane River and the Spokane Valley – Rathdrum Prairie Aquifer interact.	Grade 5 and up	Larger groups 30 minutes	Practices #2 Cross Cut #4,5,6 Core Ideas: PS2C; ESS2A,C
Travel Through the Water Cycle	Learn how water moves through the water cycle by being a water molecule. Learn that the water cycle is a complex non-circular system. Observe that the water goes from one state to another and back.	All ages	Any size group 30 minutes	Practices #2 Cross Cut #4,5 Core Ideas: PS2C; ESS2A,C

PEOPLE AND WATER				
Water Reclamation Facility Process	Learn about the process the wastewater coming out of their houses and schools goes through to become reclaimed water using hands on activities for most of the steps in the process.	All ages	Small groups (15 or less optimal) About 20 min	Practices #2 Cross Cut #4,5,6 Core Ideas: PS2C; ESS3C; ETS2B
What Should You Flush?	Investigate why some common household materials should not be flushed down the toilet. Predict which materials will break down, make observations, and draw conclusions.	All ages	Any size group 10 - 15 minutes	Practices #3,4 Cross Cut #2 Core Ideas: ETS2B

Where Does Stormwater Go?	Investigate where precipitation goes when it falls on various surfaces around the Water Resource Center. Select sites, state a hypotheses, control variables, and record results on a map.	Grade 5 and up	Any size group 50 minutes	Practices #3,8 Cross Cut #1,2,6 Core Ideas: ESS3C
Stormwater Maze	Learn about pollutants on our streets and where they go when it rains. Students will take turns playing the part of water and pollutants in a stormwater pipe maze.	Grade K - 8	Medium-sized groups (15 - 20 optimal) 30 minutes	Practices #2 Cross Cut #2,4,5 Core Ideas: ESS3A,C
Stormwater *Mis*Match	Match "good" with "bad" photos of different at-home behaviors that might lead to stormwater pollution. Groups will work as a team(s) making predictions and drawing conclusions.	Grade 2 and up	Any size group 20 - 30 minutes	Practices #2 Cross Cut #1,2,3,4 Core Ideas: ESS3A,C
Runoff Walk and Talk	Explore how stormwater is managed at the WRC and how it helps to protect the SVRP aquifer water quality.	All ages	Any size group 30 - 45 minutes	Practices #2 Cross Cut #2,6 Core Ideas: ESS3C; ETS2B
To Leak or Not to Leak	Investigate the differences between permeable pavement and traditional asphalt or concrete pavement and learn why each has benefits.	All ages	Any size group 30 minutes	Practices #2 Cross Cut #2,6 Core Ideas: ESS3C; ETS2B
Build a Water Well	Learn about the aquifer under the WRC and how we get our potable water. Measure the water level in a small "monitoring well." Assemble a 30- to 60-foot casing for a new "well."	All ages	Any size group	Practices #2 Cross Cut #4,6 Core Ideas: ESS3A,C; ETS2B

WATER QUALITY				
Investigate Water	Investigate the properties of several types of water. Make predictions, test the predictions, make observations, and draw conclusions.	Grade 2 - 8	Small groups (15 or less optimal) 20 minutes	Practices #3,8 Cross Cut#1,2 Core Ideas: PS1A
Sum of the Parts	Learn about point- and non-point sources of pollution. Recognize that everyone contributes and is responsible for water quality. Discuss the effects of pollution on other people's property and the river.	Grade 5 and up	Any size group (12 or more optimal) 50 minutes	Practices #2 Cross Cut #2,5 Core Ideas: ESS3A,C

Concentration and Load	Learn about concentrations versus loads, maximum contaminant levels, and total maximum daily loads (TMDLs). The participants will help with a concentration activity then form a river and make the "water" flow at various levels with pollutants added to understand load.	Grade 7 and up	Large groups 50 minutes	Practices #2 Cross Cut #2,4,5 Core Ideas: PS2C; ESS3A,C

SCAVENGER HUNTS				
WRC Information Scavenger hunt	Explore the Water Resource Center exhibits by looking for answers to questions. Scavenger hunts will be appropriate for the age group.	All ages	Any size group	Practices #8 Cross Cut #2,4,5,6 Core Ideas: ESS2A,C; ESS3A,C
Outdoor Water Scavenger Hunt	Learn about the water related features outside of the Water Resource Center by looking for answers to questions provided. Scavenger hunts will be appropriate for the age group.	All ages	Any size group	Practices #8 Cross Cut #2,4,5,6 Core Ideas: ESS2A,C; ESS3A,C

TEACHER-GUIDED OR WRC STAFF-GUIDED ACTIVITIES				
Crumple a Watershed	Students build a model landscape to investigate how water flows through and connects watersheds. Observe how pollutants travel through the watershed.	Grade 3 - 6	Small groups (10 or less optimal) 20 minutes	Practices #2 Cross Cut # 2,4,5 Core Ideas: ESS2C
H2Olympics	Students do different water Olympic events to investigate two properties of water, cohesion, and adhesion.	Grade 3 - 6	Small groups (15 or less optimal) 30 minutes	Practices #3 Cross Cut #2, 6 Core Ideas: ESS2A,C
Permeability of 3 Earth Materials	Investigate the permeability of three Earth materials - pebbles, sand and silt. Permeability is an important property for the Spokane Valley – Rathdrum Prairie Aquifer.	Grade 3 - 6	Small groups (15 or less optimal)	Practices #3 Cross Cut # Core Ideas: ESS2A,C; PS2C

EnviroScape	Students observe and simulate the interactions of precipitation with various land use practices, the impacts those practices have on streams, lakes, and groundwater. Reinforce the concept of watersheds, identify pervious and impervious surfaces, discuss common types of pollutants, and learn about point- and non-point source pollution.	Grade 2 and up	Small groups (15 or less optimal)	Practices #2 Cross Cut #2,4,5,6 Core Ideas: PS1A; ESS2A,C; ESS3A,C

WRC activities are designed to meet Washington State science education standards in the following ways:

Use models to understand…

- Natural water systems
- Engineered water systems
- The roles of water in Earth's surface processes
- Human impacts on Earth's systems

Carry out investigations of the properties of water…

- Make predictions
- Collect data
- Analyze data
- Draw conclusions

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Stormwater Utility

Administration

The Stormwater Utility ensures that stormwater systems are planned, developed and maintained to prevent flooding, protect water quality and preserve natural stormwater systems. The Stormwater Utility strives to provide leadership and a focus for other community efforts working toward improved stormwater management that causes as little short-term and long-term harm as possible to the environment.

Spokane Regional Stormwater Manual
The (9.8MB), a publication of Spokane County Development Services, can be access by clicking on the title shown above.

If you are looking for assistance with road flooding, cleaning of storm drains, or other "maintenance" type issues, contact Spokane County Engineering and Roads Maintenance by calling (509)477-3600.

Can't find what you are looking for?

Contact the Stormwater Utility Section, at (509) 477-3600 or email:
Stormwater Utility Section

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1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Brochures and Educational Links

- Aquifer-Friendly Car Wash Program
- Basements in High Risk Drainage Areas
- Basin Map - Stormwater Sub Basins Map
- Boundary Map - Stormwater Service Area
- Canines For Clean Water Brochure
- Code Changes Regarding Grassed Bio-Infiltration Swales
- Contractor's Field Guide - Grassed Bio-Infiltration Swale Construction
- Erosion and Sediment Control Education Calendar
- Good Housekeeping Practices
- Grassed Bio-Infiltration Swales In Residential Developments
- Homeowners Guide to Stormwater Drainage Easements
- Homeowner's Guide to Grassed Bio-Infiltration Swales
- Illicit Discharge Hotline/Reporting
- Natural Location of Drainage System(s)
- Storm Drain Dan
- Storm Drain Guide
- Storm Drain Stenciling Community Involvement Project
- Urban Runoff Pollution Prevention
- Washington Waters Boating Pollution Impacts
- Washington Waters Car (Leaking Oil) Pollution Impacts
- Washington Waters Car Wash Pollution Impacts
- Washington Waters Dog Pollution Impacts
- Washington Waters Farm/Manure Pollution Impacts
- Washington Waters Septic System Failure Pollution Impacts
- Washington Waters Yard Treatment Pollution Impacts

Educational Links

Click on logos (or additional links) to check out educational and entertaining websites/tools or videos.

SALT LAKE COUNTY	If your time for viewing is short, the 2004 and 2005 public service announcements on Salt Lake County's site are worth taking the time to view!!
Puget Sound Starts Here	**Puget Sound Starts Here** is a program sponsored by a consortium of 57 cities and counties dedicated to improving water quality in Puget Sound, called **STORM (Stormwater Outreach for Regional Municipalities), Washington State Puget Sound Partnership** and **Washington State Department of Ecology**.
Dog Doogity	**Dog Doogity** - View a video produced by Puget Sound Starts Here. The object is to invite people to protect Puget Sound. The general idea applies to any region.
City of Spokane www.spokanecity.org	Use the City of Spokane's online calculator to customize your outdoor irrigation schedule based on soil conditions, plant type, and sprinkler type.
University of Central Florida	The University of Central Florida's Stormwater Management Academy site . This is a great one!
Agriculture and Agri-Food Canada	View Robo Cow's Pointless Personal Pollution: Erosion and Sediment Video . This one is great for kids of all ages!
City of Tacoma	The City of Tacoma's "Natural Yard Care" program.
DEPARTMENT OF ECOLOGY State of Washington	Washington State Department of Ecology's Natural Yard Care: Five steps to make your piece of the planet a healthier place to live .

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SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Aquifer-Friendly Car Wash Program

Clean water is important to all of us. It's up to all of us to make it happen. In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, most water pollution comes from things like cars leaking oil, fertilizers from yards and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help keep our water clean and that adds up to a pollution solution!

Keep our Rivers, Lakes, Streams and Aquifer Clean

Cleaning your car the right way helps:

- Support a healthy watershed.
- Prevent water pollution in rivers, lakes, streams and the aquifer.
- Set a good example for your children and your neighbors.

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides a healthy environment for recreational opportunities, aquatic habitat, drinking water, and adds beauty to our environment. All of us benefit from clean water, therefore, all of us have a role in getting and keeping our lakes, rivers, streams and aquifer clean.

What's the problem with car washing?

There's no problem with washing your car. It's just how and where you do it that's important. Most soap contains phosphates and other chemicals that harm fish and water quality.

If you live in an urban area and you wash your car in the driveway, the soap, together with the dirt and oil washed from your car, flows into nearby storm drains which can run directly into surface or ground waters. The phosphates from the soap can cause excess algae to grow. Algae looks bad, smells bad, and harms water quality. As algae decays, the process uses up oxygen in the water that fish need to survive. Algae can also block the sunlight necessary to support healthy aquatic plant life.

How can we change our ways?

The state recommends that cities and counties help educate people in urban areas about sensible ways to wash their cars and still keep soapy water from washing into storm drains. You can, indeed, wash your car and help keep our waters clean! Car wash soaps don't have to be a problem.

What will you do to help?

- Use a commercial car wash, either self-serve or machine wash.
- Wash on lawns or other surfaces where water can seep into the ground.
- Sell commercial car wash coupons as a fund raiser instead of actually washing cars.
- Use a wet/dry shop vacuum to suck up excess rinse water and pour it onto a nearby lawn, landscape area or stormwater swale.
- Or use a pump kit to send the soapy runoff to a lawn, landscape area or stormwater swale.
- Rent a "Bay for a Day" at a self-serve car wash that has an approved disposal system.

Community Fundraiser Car Wash - Borrow an "Aquifer-Friendly Car Wash Kit"

Spokane County has "Aquifer-Friendly Car Wash Kits" which include: a storm drain protector mat, a wet/dry shop vacuum/with built-in holding tank water pump; two 50 foot garden hoses; a GFCI adapter plug; and a 100 foot extension cord -- all available for temporary loan for community car wash fundraiser events (similar to Option #2 below). We also have laminated posters that can be used to attract passersby. ***Please contact Spokane County Stormwater Utility at 509-477-3600 for details and availability.***

Build Your Own Car Wash Kit

Option #1:

Sample Equipment

- **Wet/dry shop vacuum:** as the car wash is being conducted, designate a person to vacuum up excess rinse water as it accumulates on the ground. Rinse water must be collected prior to entering the storm drain. Then dispose of the rinse water on a lawn area, landscaped area or stormwater swale.
- **GFCI adapter plug** - ground-fault circuit interrupter (Class A).
- **Extension cord:** a 100 foot (or appropriate length) extension cord.
- **Safety Vests and Traffic Cones:** orange safety vests and traffic cones are necessary when working in or near traffic.

Option #2:

- **Storm drain protective mat:** place a heavy protective mat over the storm drain to prevent soapy water from entering.
- **Wet/dry shop vacuum:** after the water is allowed to pool it can then be vacuumed up with the shop vacuum and pumped through a garden hose or poured onto a lawn, landscape area, or stormwater swale.
- **Garden hose (optional):** Some shop vacuums are available with a built in water pump that can continually pump water from the shop vacuum container through a garden hose as water is being vacuumed up.
- **GFCI adapter plug**: Ground-Fault Circuit Interrupter (Class A).
- **Extension cord:** a 100 foot (or appropriate length) extension cord.
- **Safety Vests and Traffic Cones:** orange safety vests and orange traffic cones are necessary when working in or near traffic.

Most of these items can be purchased at local hardware stores. Safety items, such as road cones and vests, can be purchased from a local safety equipment supplier; check yellow pages in local phone directory.

How to use your car wash kit (For Option #2)

1. Locate the nearest lawn, landscape area or stormwater swale, storm drain, electrical plug in. (Locate the storm drain where the water will accumulate.)
2. Put on traffic vests.
3. Set up orange cones next to storm drain to alert traffic.
4. Cover the storm drain grate with the heavy mat. **Caution: be sure that the grate is completely covered.**
5. Plug in the wet/dry shop vacuum using the ground fault adapter plug and extension cord.
6. Use the wet/dry shop vacuum to remove pooled water around the storm drain. Make sure that one to two people are designated strictly for this task.
7. Dispose of the rinse water on a lawn area, landscaped area or stormwater swale.
8. Read and follow safety instructions with all equipment.

Download the Aquifer-Friendly Car Wash Public Participation Form and remember... *You are the Solution to Stormwater Pollution!*

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Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Background / History

Photo Gallery of Historical Stormwater Related Photos

2005 Comprehensive Stormwater Management Plan

Chronology of Activities Leading to the Formation of the Spokane County Stormwater Utility (SWU)

1983

The Board of County Commissioners appointed a citizens committee (later named Citizens Committee on Stormwater Management, CCSM) to determine whether there are significant stormwater problems in Spokane County

1984

The CCSM submitted a report, "A Study of Stormwater Management Concerns in Spokane County", identifying 3 categories of concern:

- physical problems (risks to property, life and environment from stormwater)
- organizational structure (lack of responsibility and authority for preventing/solving stormwater problems)
- public awareness (lack of public knowledge/concern re: stormwater problems, causes, controls)

The CCSM concluded that Spokane County has taken a piecemeal approach to stormwater management, i.e. each development devised its own system for managing stormwater. Often these systems did not fit together and appeared to make downstream problems worse. The CCSM concluded that the county needed a comprehensive stormwater program to plan, construct and maintain regional stormwater systems.

For each concern, the CCSM recommended policies and actions. The CCSM evaluated options under state law for forming a comprehensive stormwater program.

The CCSM also helped organize citizens in the Central Park Watershed (the Central Park Committee) to evaluate stormwater problems in that area and to make recommendations.

1985
As directed by the Board, the CCSM held public meetings to provide the public with an opportunity to review their recommendations. After 2 public hearings, stormwater policies were adopted into the County's Comprehensive Plan through approval of the Planning Commission and the Board.

1986
The Central Park committee made their final recommendations (need for watershed planning to handle new development). The Board approved the CCSM's recommendation that a feasibility study be prepared for a comprehensive stormwater management program; agreed to finance 1/2 of the study from General Fund and 1/2 from County Road Fund. James M. Montgomery Consulting Engineers, Inc. was approved to prepare the feasibility study. (Cost of study: $39,935)

The CCSM continued public awareness efforts, including holding a workshop for developers, realtors, design professionals and bankers ("Letting The Land Tell Us") focusing on ideas for using natural drainage as an amenity in new developments.

1988
The feasibility study ("Spokane County Flood Control Zone District Management Plan") was accepted by the Board. The Board directed the CCSM to develop a strategy for additional public awareness.

The feasibility study:

- provided overview of what a local stormwater program would do and how much it would cost
- evaluated the service area boundary proposed by the CCSM
- set out basic strategy for establishing and funding the stormwater program

1989
The Board authorized the CCSM to proceed with public awareness program and agreed to finance a cost of service/rate study. The County Engineer agreed to hire a staff person to provide local research needed for the consultant study. James M. Montgomery was chosen to conduct the study (cost: $60,000.)

CCSM held watershed tours in the North Spokane, Chester Creek and Forker watershed areas) and worked with interested residents on an adopt-a-watershed group in the Chester Creek area.

1990
The CCSM drafted a vision/mission statement, performed more outreach to the public on stormwater management issues, and updated the Planning Commission on the group's efforts. After much discussion, the CCSM decided to change their recommendation that the comprehensive stormwater program be a flood control zone district. The committee decided that a stormwater utility would be a more flexible and responsive approach to stormwater needs in the county.

An Ad Hoc Committee on Stormwater (developers/design professionals) was formed to advise CCSM about interests of the development community relating to stormwater issues.

Ad Hoc Committee on Stormwater (developers/design professionals) formed to advise CCSM about interests of

development community relating to stormwater issues.

1991
The Cost of Service/Rate Study was completed.

Cost of Service/Rate Study:

- provided specifics about how the proposed stormwater program would operate, how much it would cost, and the steps necessary for establishment
- recommended county-wide stormwater utility with an established Stormwater Service Area (SWSA) that would receive service and fund the program
- recommended funding through stormwater service charges based on impervious coverage
- recommended means of integrating stormwater utility into existing county structure

The CCSM reviewed the study with the Board, and the Board authorized the CCSM to take public comment on the report. The CCSM held 3 public workshops and staff made numerous presentations to service and business groups about the proposed stormwater utility.

The CCSM made final recommendations to the Board regarding establishing a stormwater utility and forwarded recommendations and support of Ad Hoc Committee on Stormwater Management to the Board.

1992
After a final public hearing, Board of County Commissioners established Stormwater Utility. The Board authorized the loan of start up costs (up to a maximum of $170,000) from the Road Fund, with funds to be paid back over 2 years.

The Stormwater Rate Ordinance was approved by Board. Stormwater staff obtained digital orthophotos, through a contract with David Evans and Associates, for determining impervious coverage for billing. Staff prepared the billing for single family residences (annual stormwater fee of $10 per year; one Equivalent Residential Unit or ERU) and non-residential properties (based on the impervious coverage of each parcel).

1993
First stormwater bills sent out by Treasurer's Office. Stormwater budget for 1993 was approximately $1.2 million.

For information about plans, projects and other activities since 1993, see
Stormwater Utility 2005 Comprehensive Stormwater Management Plan .

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SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Canines For Clean Water Poo-llution Prevention Program

A Stormwater Poo-llution Prevention Program for Dogs and Dog Owners who Care about Clean Water and reside in Spokane County!

SPOKANE COUNTY RESIDENTS, take the Canines for Clean Water pledge to pick up after your pet and receive a FREE bandana!

Just enter your contact information on our website or call us. AND...Send us a photo of your "Canine for Clean Water" wearing the bandana. We'll post the picture on the web in our Canines For Clean Water Gallery!!!

Download the Canines For Clean Water Flyer

How You Can Help Prevent Poo-llution...

Let's talk about poop. No, really...Let's talk about poop! Does your family own a dog? You probably even know lots of people with dogs. Now what do you think happens to all of the dog waste our pets leave behind?

When pet waste is left on the ground, especially near streets and sidewalks, rain, snowmelt, and your sprinklers wash it into storm drains and drainage ditches! This water, called runoff, generally does not get piped to the local wastewater plant to get cleaned or treated. So where does the runoff go, you ask?

Most often, it collects in underground wells to seep down to the aquifer. Otherwise, it flows directly to our streams, rivers, and lakes. Who wants to drink, or swim and fish in that?! Yuck!

Don't worry, though, nobody has to give up their pooch. Pet owners can improve water quality simply by picking up after their pets and throwing the waste away in the trash!

Did You Know?

Pet waste is full of bacteria, parasites, and viruses that can make wildlife and people sick! One average-size dog dropping contains 3 billion coliform bacteria. Multiply that by the fact that 40% of households have a dog, and you can see how the poo-llution really "piles" up!

Some Tips to Remember...

- Scoop up after your pet and dispose of the waste properly - in a trash can or toilet. Don't bury it or compost it.
- Keep your pet on a leash and on trails in natural areas.
- Remain within off leash areas when off leash.
- Encourage your friends and family to do the same!

Canines For Clean Water is Sponsored By:

Spokane County Stormwater Utility, a Section of
Public Works - Division of Engineering & Roads
1026 W. Broadway, 2nd Floor
Spokane, WA 99260-7284
Phone: (509) 477-3600
Fax: (509) 477-7655

About Our Mascot

Hans is a Bernese Mountain Dog (Berner Sennenhund or "Berner"). His ancestors were working dogs on farms in Switzerland and were often used to pull small carts or wagons. Like most other Berners, Hans is affectionate, loyal, and loving.

He loves to tag along when his master conducts business at the County Courthouse campus. Hans lives near the Price and Wall stormwater facility and enjoys the walking paths.

A big charmer, Hans impresses everyone with his big grin and warm heart. He's a real love sponge!

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SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Current Projects

and

Regional Stormwater Facilities

(Click on the italicized name of the project to view additional information, photos and graphics.)

CURRENT PROJECT

Country Homes Boulevard Restoration Project

REGIONAL STORMWATER FACILITIES

Regional stormwater facilities serve large drainage areas and are intended to supplement the overall stormwater system in a defined area. These facilities typically capture, control and filter stormwater before it percolates back into the ground. In the Spokane County area this can mean filtering back into the Spokane Valley Rathdrum Prairie Aquifer.

In the early days of Spokane County's Stormwater Utility, the Citizen's Committee on Stormwater Management ("CCSM") reviewed how the county was handling stormwater concerns and determined that the process needed refinement. The CCSM concluded that the county needed a comprehensive stormwater program to plan, construct and maintain regional stormwater systems. Since formation of the program, in 1992, studies have been conducted, priority areas identified and additional work has taken place to acquire sites that are appropriate for regional use. The top two areas identified were the Glenrose Watershed, in particular the Browne Mtn. area, and the Five Mile area in North Spokane.

In 2008, construction began and was completed for two state-of-the-art regional facilities known as the Browne Mtn. Regional Stormwater Facility and the Price and Wall Regional Stormwater Facility, the first of their kind in the Spokane County area.

Browne Mtn. Regional Stormwater Facility

Price and Wall Regional Stormwater Facility

This page was last edited 8/27/2012 11:50:24 AM .

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Grassed Bio-Infiltration Swales

- What Are Grassed Bio-Infiltration Swales?
- County Code Changes Regarding Swales (Nov 2001) (20kb)
- Construction Techniques to Increase Swale Performance
- Planting Grass in Swales
- Erosion Protection
- Homeowner's Guide to Grassed Bio-Infiltration Swales (20kb)
- Contractor's Field Guide for Grassed Bio-Infiltration Swale Construction (20kb)
- SW-2 Grassed Drainage Swales in Residential Developments (20kb)
- County Requirements for Construction of Grassed Bio-Infiltration Swales
- Swale Demonstration Project
- Swale Demonstration Project Annual Technical Reports

What are Grassed Bio-Infiltration Swales?

Grassed infiltration swales ("swales") are depressions (collection areas) in which stormwater from roofs, streets and driveways is collected following a rain or snow event. Swales are usually found in the front portion of new lots next to the street and sidewalk. Swales are used to collect and dispose of stormwater runoff, and to remove pollutants from stormwater before it reaches underground sources of drinking water. Within a swale there is typically an elevated grate (4" to 6" above grade) that is the cover for a drywell. The drywell receives overflow from the swale in the event of excessive runoff. Stormwater enters swales through cuts in the curb or through catch basins and infiltrates through the grass and soil. Pollutants in the stormwater are removed by the grass and soil in this infiltration process, helping to protect the Aquifer from contamination.

Drainage swales rely on the infiltration process, which is when water "soaks" into the ground and eventually recharges groundwater. The infiltration process requires the soil to have pore spaces for the water to pass through. Some ground materials have larger pore spaces than others, for example gravel is very effective for allowing water to pass through. Clay soils have small pore spaces that limit the amount of water that can pass through.

Back to Topics

County Requirements for Construction of Grassed Bio-Infiltration Swales

- The depth from the swale floor to the top of drywell grate must be no more than 8 inches, but deep enough to accommodate the designed volume of runoff.
- Following a storm event the swale should not have standing water for more than 72 hours.
- The floor of the swale should be level to evenly distribute water throughout the swale.
- The drywell should not be placed near the inlet to the swale. Drywells should be installed according to the approved plans.

Back to Topics

Construction Techniques to Increase Swale Performance

- Do not drive over swale area prior to construction. Compaction of soils will dramatically reduce infiltration.
- Shallow bedrock under the swale area will prevent percolation and infiltration, significantly reducing the performance of the swale.
- Importing top soil or sand will create a layered subsurface which is not conducive to good infiltration. On site top soil should be used in swales whenever possible. When off-site top soil/sand is used it should be mixed with 2" of organic matter per 6" of top soil and rototilled into the existing surface. This will greatly increase the infiltration capacity of the swale.
- Do not clean concrete truck chutes, masonry tools, and painting equipment in or near swales. These materials will dry and produce a layer of impermeable material that can destroy the infiltration process.

Back to Topics

Planting Grass in Swales

- Sod is not the only option for establishing grass in swales. Hydroseeding is becoming more and more accepted. Recommendations for seed mixes are moving to grass species that are able to establish in poor soils and have a high drought tolerance. For aesthetic purposes, drought tolerant species are being utilized in areas that do not require turf.
- The following recommendations on bed preparation apply to seeding and sod.
    1. Prepare a "fluff" layer of 1-3" of soil into which the sod can root rapidly. The floor of the swale should be level.
    2. Apply a starter fertilizer such as 10-20-10, at the rate of 1 to 2 lb. of phosphorus per 1000 sq ft and mix this thoroughly with the upper 1-4" of soil. Phosphorus is important to establishing roots in newly lain sod because it promotes root growth.
    3. Sod should be lain "butted up," i.e., the pieces are put together as tightly as possible without overlapping. They are also staggered like bricks in a wall. The long axis of the rectangular sod is be lain perpendicular to the slope, helping to reduce erosion.
    4. The sod sod is rolled to firm it against the graded surface and inspected for gaps that need to be closed or for debris that needs to be removed. The sod should be set 1" below the top of the inlet to insure that the growth of grass will not block the inlet.

Sod should be fresh and after being placed should be kept damp for 2-3 weeks to encourage rooting.

Back to Topics

Erosion Protection

- Erosion on construction sites occurs when cleared and graded slopes are not protected from the erosive forces of rain fall and runoff. Frequently, there are no measures taken to protect infiltration swales from the deposition of the sediments in runoff. This results in a fine layer of silt that clogs the bottom of the swale.
- Slopes that have been graded must be protected from erosion.
- Inlets to the swale should be protected form runoff carrying silt eroded form the site.
- Drywells in the swale should be protected form sedimentation by placing filter fabric under the grate.

Contacts For More Information

Design/construction criteria for swales, drywells, catch basins, etc:
Spokane County Engineering and Roads Development Services
(509)477-3600

Inspection of completed grassed bio-infiltration swales:
Spokane County Stormwater Technician
(509)477-7244

Regional Stormwater Planning and Regional Stormwater Facilities:
Spokane County Stormwater Utility
(509)477-3600

Aquifer/Water Quality:
Spokane County Water Quality
(509)477-3604

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SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Illicit Discharge Hotline - Storm Drain Dan Program

Hi! My name is Storm Drain Dan. I'm new to the area, and am the mascot for a cooperative effort between Spokane County, the City of Spokane, and the City of Spokane Valley. My purpose is to encourage everyone to take responsibility for ensuring that nothing other than stormwater gets into our storm drains. Remember, You Are The Solution to Stormwater Pollution!

Click here for additional information after you've read through this page: Hotline Info

You can also help prevent roadside flooding and assist the folks who maintain area roads and streets, so that property and homes stay as dry as possible during rain and snow-melt events.

Throughout the year county road crews work to prevent roadside flooding by keeping storm drains open. During and after thunderstorms and snow-melting events, they may not be able to get to storm drains near your home immediately. They have a lot of area to cover.

If you can work without danger to your health and safety, you can help prevent roadside flooding by adopting a storm drain near your home.

- Check the storm drain grate or inlet frequently to make sure it is free of snow, ice, leaves, pine needles and other debris.
- Rake snow, ice and other debris away from the storm drain.
- Leave the storm grate securely in place. If it is cracked or damaged, report it at the number below.
- Dispose of the snow, ice or debris in a safe place that won't cause a traffic hazard.

If you are unable to safely clear a storm grate or inlet and you think a flooding problem is imminent, call the County at 477-3600 to report the situation.

Storm Drain Dan says:

Be safe and smart when working near the roadway.

Thanks for helping to prevent roadside flooding,

Remember,

YOU ARE THE SOLUTION TO STORMWATER POLLUTION!

This page was last edited 1/11/2012 10:27:51 AM .

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

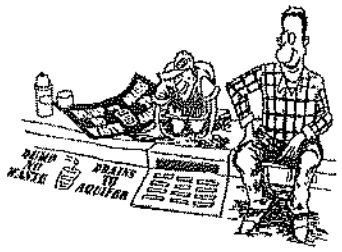
Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Storm Drain Stenciling

A Community Service Project Opportunity

Would your community service or other group like to help educate yourselves and the public about water quality issues by stenciling storm drains? If so, provide your contact information below and send the information to us. Someone will get back to you soon to talk about what's involved!

Storm Drain Stenciling Info Request Form



Your Name: *Enter your name...*

Organization: *your organization name...*

Your Email: *your email...* Phone Number: *and your phone number*

submit cancel

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

What is a Watershed?

A watershed is a geographic area that drains to a common point. Rain and melting snow drain from the ridges and hills down to the lowest point in the watershed, typically where stormwater empties into a river, lake or stream or sinks down (infiltrates) into the ground.

Watersheds may also be referred to as drainage basins and may vary in size. Watersheds or drainage basins may be defined by a small stream, covering only a few square miles, or they may be defined by a major river, such as the Columbia River, covering thousands of square miles.

Activities in a watershed can affect the quantity of stormwater emptying out of it. If natural land is covered by buildings and parking lots, more water will be channeled toward the outlet than if the land is left in a natural state. Undeveloped land accepts more stormwater into the ground and natural land features may retain stormwater until it can evaporate back into the atmosphere.

What happens to the land can also affect the quality of water emptying out of a watershed. Stormwater can carry pollutants into water used for bathing, drinking, cooking or swimming. If pollutants reach a high level, the water may no longer be safe for general use.

Greater Spokane County Watersheds

Although there are many defined watersheds in greater Spokane County, the following watersheds are priority areas being focused on at this time.

- Glenrose Watershed
- North Spokane (Five Mile) Watershed
- West Plains Watershed

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WHAT IS THE SPOKANE VALLEY-RATHDRUM PRAIRIE AQUIFER?

The Spokane Valley-Rathdrum Prairie Aquifer is the sole source of drinking water for more than 400,000 people in the region. The aquifer covers an area of about 320 square miles extending from Idaho through the Spokane Valley.

An "aquifer" can simply be defined as a rock layer saturated with water. The Spokane Valley-Rathdrum Prairie Aquifer consists of a thick layer of loose rock material ranging in size from gravel to large boulders. The aquifer is very permeable, allowing water to move through it rapidly, up to 90 feet per day in some areas.

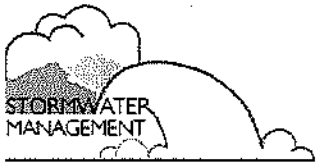
In general, the quality of the water in the aquifer is very good. However, because there is no confining layer between the land surface and the aquifer, our drinking water source is highly susceptible to contamination. Pollutants spilled, dumped or unintentionally allowed to leak into the ground can contaminate the aquifer.

For Information about the Spokane Valley-Rathdrum Prairie Aquifer, contact:

Spokane County Water Quality Management Program
(509)477-3604

Important Numbers!

For information about stormwater easements, swales and stormwater management in Spokane County, contact:



Spokane County
Stormwater Management
(509)477-3604

For information about stormwater easements and swales within the City of Spokane, or the City of Spokane Valley, contact:

City of Spokane (509)625-7900

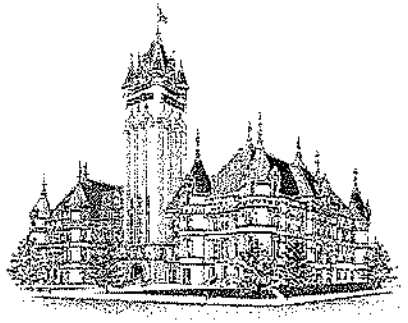
City of Spokane Valley (509)921-1000

For information about yard and garden concerns, contact:

Washington State University Cooperative
Extension, Spokane County
N. 222 Havana
Spokane, WA 99202

(509)477-2048

Homeowner's Guide to Grassy Swales



SPOKANE COUNTY
PUBLIC WORKS

Engineering & Roads
Stormwater Management

GRASSY DRAINAGE SWALES

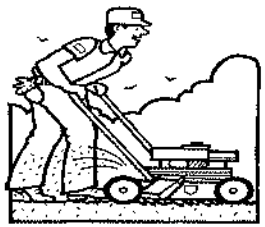
Swales are grassy depressions in the ground designed to collect stormwater runoff from streets, driveways, rooftops and parking lots. The grass in the swale removes pollutants from stormwater as the water infiltrates into the soil. The treated water recharges groundwater supplies including the Spokane Valley – Rathdrum Prairie Aquifer. The Aquifer is the sole source of drinking water for the Spokane and Coeur d'Alene metropolitan areas.

Most swales are found at the front of new lots next to the street or sidewalk. Some swales contain elevated metal or concrete grates that are covers for drywells. The grate is usually elevated 6 inches off the flat bottom of the swale. The drywell receives overflow from the swale in the event of excessive runoff.

Stormwater enters swales through openings in the curb, sidewalk, or catch basins and then infiltrates through the grass and soil. Pollutants are removed by grass and soil in this process. The water should drain through the swale quickly. Grass begins to die if it is under water for more than 72 hours.

All swales need regular maintenance. Grass and soils will accumulate at the inlet. This build-up needs to be removed to prevent area flooding.

The maintenance of a swale is usually the responsibility of the individual property owner. When the property is sold, maintenance responsibility is transferred to the next property owner.



DOES YOUR SWALE HAVE A PROBLEM?

Swales can begin to hold stormwater, rather than allowing it to pass through the soil for a number of reasons.

- The soil in the bottom can become clogged with fine silt that washes in from your yard, driveway or the road. Some sands from the winter snow plow/sander may reach your swale.

- Adding new soil over existing soil, followed by sod can cause soil layering and reduce infiltration.

- Driving through the swale will compact the soils and reduce infiltration.

- Paint, mortar or concrete left over from construction and washed into the swale can reduce infiltration.

- During summer months, over-irrigation of a lawn can cause standing water. It is important to monitor irrigation to apply only the water needed for a healthy lawn.

- Back to back storm events may not allow enough time for the water to soak into the ground thoroughly.

- Frozen ground in winter months may reduce the infiltration rate.

HELP FOR AILING SWALES

Taking good care of your swale is the best way to avoid the expense of repair or renovation. Several measures can be taken before complete renovation. These include:

- Core aerate the grass in the swale to help break up any silt that has washed in. Aeration promotes healthy grass and will contribute to infiltration.

- Check to make sure that other swales on your block are receiving their share of the stormwater runoff in your neighborhood. Swales receiving excess stormwater can fail.

- Dig down into your swale to see if there is any construction material blocking infiltration. If there is, remove the material and replace the sod.

- Reduce irrigation if water is standing in a swale when there has been no rain.

- As a last resort, remove the grass and 6 inches of soil and dispose of it at an approved site. Then install new seed material or sod over well-draining soils. When off-site soil is used, mix it with organic material and rototill into the existing surface to increase infiltration capacity.

Stormwater Facilities And The Law

In most cases in Spokane County, the private landowner is responsible for maintaining drainage easements under local regulations.

To avoid any flooding problems, costly drainage facility replacement, or legal action it is best if a prospective homebuyer, new homeowner, or someone planning on installing new landscaping consult the original plat (subdivision) plans. This will help identify any easements that may exist on the property. These plans are accessible at the Spokane County Public Works building or the Spokane City Hall building.

What Can Be Placed In An Easement?

Ditches, ponds and swales operate best when planted with seed material or sod over well-drained soils. Water lawns to soak the ground 1/2 inch below the root system to promote deeper growth. The grass helps remove pollutants from stormwater as the water infiltrates into the soil.

Avoid placing grass clippings, yard waste or fill of any type in the easement.

Easements can be landscaped with trees or shrubs as long as they do not obstruct the flow of water or reduce the holding capacity. Plant trees and shrubs at the top of the ditch or swale to avoid obstruction.

Fences and structures that block flowing water should not be installed across drainage easements.

02/06

Important Numbers!

For information about stormwater easements, swales, and stormwater management; Contact:

STORMWATER MANAGEMENT

Spokane County Stormwater Utility

(509) 477-3604

For information about stormwater easements and swales within the City of Spokane; Contact:

City of Spokane

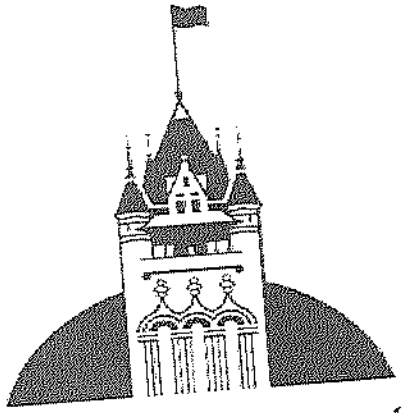
(509) 625-7900

For information about other yard and garden concerns; Contact:

Washington State University Cooperative Extension, Spokane County
N. 222 Havana Spokane, WA 99202

(509) 477-2048

Homeowner's Guide To Stormwater Drainage Easements



Spokane County Public Works

Stormwater Utility Section
Division
Of
Engineering & Roads

WHY MANAGE STORMWATER ?

As our population grows and development continues, impervious surfaces like roads, driveways, roofs and paving also increase. Impervious surfaces decrease the area where rain once infiltrated the ground and increases the amount of stormwater run off.

Due to these changes, it is necessary to provide facilities to manage run off and prevent flooding.

Stormwater facilities such as swales, drywells and ponds also provide essential treatment of contaminated stormwater prior to discharging into the Spokane Valley Rathdrum Prairie Aquifer.

Facilities located in the County roadway are generally maintained by the County. When the facility is located in a drainage easement on private property, the property owner or Homeowners Association is usually responsible for maintenance.

WHAT ARE DRAINAGE EASEMENTS ?

Drainage Easements are portions of land set aside to assist in the management of stormwater runoff.

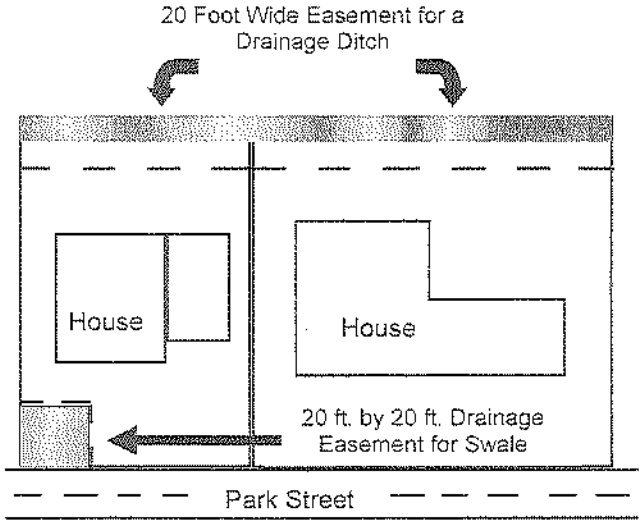
Easements are usually 10 to 20 feet wide and run along property lines, although they can vary greatly in size, shape, and location.

Within the easement there will usually be a drainage ditch, natural drainage course, or a stormwater pipe, which is used to convey stormwater runoff in a controlled manner.

Easements can also be located in the front portion of a lot adjacent to the public roadway.

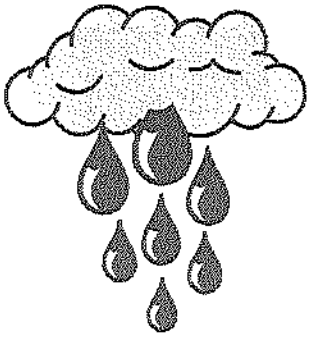
This type of easement generally contains a stormwater swale (a grassed drainage area). While drainage ditches are designed to intercept runoff and convey it from one place to another, stormwater swales are depressions that collect stormwater runoff from streets, driveways and rooftops. They are designed to dispose of runoff, as well as remove pollutants from the runoff.

The maintenance of the drainage system is usually the responsibility of the individual property owner or the Homeowners Association. You may have observed this type of language about drainage systems on the plat or deed when you purchased your property.



Example of two typical Drainage Easement situations.

EASEMENTS HELP PREVENT FLOODING



Some drainage easements and swales are only used when there is a large thunder-storm or when spring thaw occurs. Therefore, homeowners and builders may forget the essential need for these easements and facilities.

When these drainage facilities are filled in, obstructed or destroyed, stormwater can not infiltrate or be conveyed properly. This situation can cause flooding of yards, roadways, and basements. Easements of all types should be kept open and unobstructed to prevent flooding problems, as well as to allow the stormwater runoff system to function properly.

All ditches and swales are required to be lined with common turf grass. Grass is essential in removing pollutants and preventing erosion.

A properly functioning swale may retain water for as long as 72 hours after a rainstorm. Be sure to clean build-up from catch-basin inlets on a regular basis.

Core aeration of the grass in the swale will help break up any silt that has washed into the swale or easement . Aeration promotes healthy grass and will contribute to infiltration thus reducing the possibility of flooding.

SPOKANE COUNTY

Grassed Bio-Infiltration Swales in Residential Developments

SW-2

Spokane County Division of Engineering & Roads/Stormwater Section

What is a grassed bio-infiltration swale?

Bio-infiltration swales are grassed depressions in the ground designed to collect stormwater runoff from impervious surfaces such as streets, driveways, rooftops and parking lots. The grass in the swale helps filter the Stormwater, while soil helps remove pollutants as it infiltrates to the sub surface. The treated water recharges groundwater supplies including the Spokane Valley - Rathdrum Prairie Aquifer. The Aquifer is the sole source of drinking water for the greater Spokane and Coeur d'Alene metropolitan areas.

Why are swales different sizes and shapes?

When a new subdivision is planned, the developer's engineer evaluates the development site. Using the Spokane Regional Stormwater Manual, the engineer designs a system of swales to handle runoff from the planned development. The design specifies the number and size of swales, and the appropriate locations for them. Swales are sized to handle a volume of runoff from a storm with a 10-year recurrence and are designed to treat the first one-half inch of runoff from the impervious surface draining to the swale.

Who is responsible for the swale?

1) Developer:
The developer of a subdivision is responsible for installing drywells and curb cuts, and for rough grading the drainage swale.

2) Builder (Building Permit Applicant):
Responsibility for the swale transfers to the builder upon application for a building permit. The builder is responsible for protecting the swale area from compaction and other harmful activities during home construction. The builder is also responsible for fine-grading the swale, installing sod and conducting a performance test. The builder is required to deposit a $1,000 security with Spokane County to guarantee that the work and testing are accepted.

3) Property Owner:
The property owner is responsible for the swale after the security is released back to the builder. The owner is responsible for perpetually maintaining, repairing and restoring the swale to keep it in good working order.

How does the process work while a home is being built? What does a builder need to do to get the $1,000 security released?

The builder must complete the fine grading and establish grass in the swale no later than 6 months after final building inspection approval. The builder calls the County at 477-3600 to request a swale inspection. An inspector will inspect the swale to ensure it is the correct size (according to the engineered plans) and that it is finished with established sod. The County will contact the builder to explain the deficiencies or schedule a time to have the swale flood tested in the presence of a Stormwater Technician. During the flood test the technician will evaluate whether the swale is working properly. If the swale conforms to the accepted plans on file with Spokane County, and performs as designed during the field test, Spokane County will release the security back to the builder.

When is grass "established?"

Grass is considered established when the sod can be grabbed and no layer pulls away from the ground. More technically, it is the time when the root structure is established within the soil. The time period for establishment varies with site and seasonal conditions, but generally happens 1 to 2 weeks after the sod has been placed.

(Continued on back page)

Revised: 7/20/09

How long does a builder have to fine grade, sod, and test the swale?

The builder has up to 6 months (weather permitting) from the date of "final" building inspection approval to complete the swale and perform the flood test. This means the builder needs to get the sod established while the swale can be flood tested, i.e. before the ground freezes in the winter.

How does a builder get enough water to adequately test a swale?

1) Check to see if there is a fire hydrant nearby that may be used. (Note: A permit may be required.)

2) Use a water trailer or truck owned by the builder or offered for rent by a private company.

How does a builder test a linear swale or one that lies between two parcels?

Sandbags can be used to block off the part of the swale not to be tested. The swale can then be filled with water to the required depth. Plastic should be wrapped around the sand bags to prevent any seepage.

What happens if a builder does not complete the swale work and testing within the 6-month time limit?

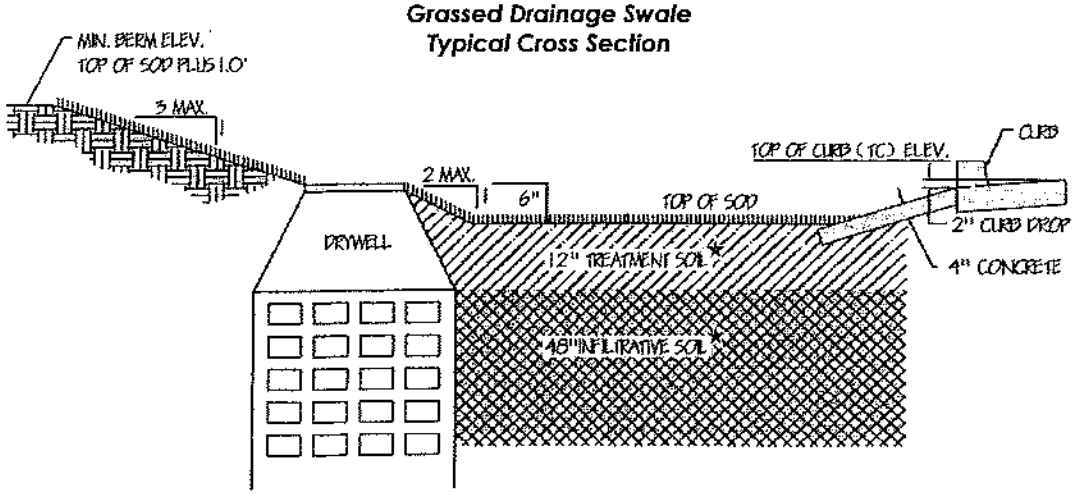
If weather conditions cause delays, the builder can request an extension of time from Spokane County. If the swale is not completed promptly, the entire security may be forfeited to Spokane County. The County may have the option of completing and testing the swale. If the costs for swale installation and testing exceed the $1,000 security, the building permit applicant will be billed for the additional costs.

How can a homeowner get help with a swale that doesn't drain properly?

Contact the County's Stormwater Utility (477-3600) for suggestions about what may be done to get the swale to function better.

For more information, or to schedule an appointment, contact:
Spokane County Stormwater Utility
1026 W. Broadway Avenue, 2nd Floor
Spokane, WA 99260-0170
(509)477-3600

Grassed Drainage Swale
Typical Cross Section



* Notes:

1) Twelve-inch (12") treatment soil layer shall meet the following criteria:
   - Infiltration rate between 0.25 in/hr and 0.50 in/hr
   - Average Cation Exchange Capacity (CEC) at least 15 meq/100g
   - Organic matter content at least 2% by weight
   - When treatment is required, sand and coarser soils are not suitable to be used as topsoil

2) Forty-eight-inch (48") subgrade infiltrative soil layer shall meet the following criteria:
   - Infiltration rate at least 0.15 in/hr
   - Facility must completely drain within 72 hours
   - Infiltration testing which demonstrates the facility's conformance to the infiltration rate may be required prior to construction certification

SPOKANE COUNTY

Natural Location of Drainage System (or NLDS)

Spokane County Division of Engineering & Roads/Stormwater Section

SW-3

This brochure provides general information about special measures required for the Natural Location of Drainage Systems within the unincorporated areas of Spokane County.

What is a Natural Location of Drainage System?

Natural Location of Drainage System(s) or NLDS(s) includes channels, preexisting and established drainage systems, and natural features that may convey, store, or dispose of stormwater and groundwater that comes to the surface. The systems may be seasonal or storm dependent and do not necessarily experience a continuous flow of water. NLDS(s) include both Type A and B systems and are defined by the first documented topographic contours existing for the subject property, either from maps, photographs, site inspections, or other appropriated means.

The Spokane County Stormwater Utility Section maintains maps of the Type A and Type B Natural Location of Drainage Systems identified within the Spokane County Stormwater Service Area.

Type A drainageways are those predominant systems which are considered a significant part of a larger existing natural conveyance system. Type A drainageways shall be preserved for stormwater conveyance and shall be considered for use as regional facilities.

Type B drainageways are those systems which are generally less prominent, yet are deemed to perform important functions in the existing management of stormwater runoff and may be necessary for managing stormwater as part of the larger regional system.

Because every site is unique, a local jurisdiction representative shall make interpretations, as necessary, based on site visits and technical information submitted as to the exact location and type of NLDS on the project site. The representative may also require the project proponent to provide engineering information to assist in this determination.

Why is preservation of the NLDS(s) important?

Preserving the Natural Location of Drainage Systems in their "green" state provides a necessary means of water quality treatment, conveyance and/or disposal of stormwater runoff and enhances the ability to utilize predominant systems as regional facilities.

What happens when NLDS(s) are not protected?

On January 17, 2006, the Board of County Commissioners adopted the Comprehensive Stormwater Management Plan (CSWMP) along with individual stormwater plans for Glenrose, North Spokane, and West Plains and their associated Capital Improvement Plans. Each of the individual basin plans emphasizes protecting natural drainage features as the most cost effective means of handling stormwater over the long term. Natural drainageways must be preserved to serve as the regional stormwater system and to reduce the community's long term costs for stormwater management.

(Continued on back page)

Revised: 7/20/09

Spokane County has learned that drainage problems in many areas occur as a result of destruction of the natural drainage systems. Problems occur when natural drainageways are ignored during the development and road-building process or when drainage is diverted from its natural path into roadside ditches or to cutoff easements.

There is also strong evidence that even if a stormwater route is maintained (i.e. a pipe picks up runoff on one end of a piece of property and simply passes it through to the other side), stormwater runoff still wants to follow the path of least resistance on the surface and subsurface. Many of the current basement flooding problems seem to point at the fact that although design engineers are sizing surface conveyance facilities to route stormwater through or around a piece of property, during a wet season, stormwater manages to find its "old" route despite the engineered facilities designed to carry the stormwater away from the area.

NPDES

In February 2007 the Washington State Department of Ecology issued Spokane County a National Pollutant Discharge Elimination System (NPDES) Phase II Stormwater Permit which allows discharge of stormwater to waters of the state. A requirement of the NPDES Phase II Permit is to practice Best Management Practices (BMPs) to protect water quality. The Stormwater Management Manual for Eastern Washington contains technical information and DOE approved BMPs. Preservation of Natural Drainage Systems is a core element of the manual and is encouraged for the reasons described in this document.

When one development is allowed to pipe versus use (and protect) the Natural Location of Drainage Systems, then subsequent developments want to hook into the systems of adjacent developments. In essence, this disjointed "system" becomes the de facto regional system, and the flooding problems blossom. This is not the type of system recommended by the approved basin plans. Working to make these drainage pieces into a well-functioning regional stormwater system will be much more expensive over the long term than protection, preservation and use of the natural location of drainage systems as development occurs.

For more information or an appointment contact:
Spokane County Public Works
Stormwater Utility Section
1026 W. Broadway Avenue
Spokane, WA 99260-0430
(509)477-3604

Revised: 7/20/09

SPOKANE COUNTY

Basements Within High Risk, Drainage Problem & Critical Flood Areas (High Risk Drainage Areas)

Spokane County Division of Engineering & Roads/Stormwater Section

SW-1

This brochure provides general information about special measures required for basement construction in areas identified as high-risk, drainage problem and critical flood areas. These areas are generally referred to as high risk drainage areas.

Many new homes built during a dry-weather cycle may have no "apparent" flooding risk. However, during wet-weather cycles, these basements may be in danger of flooding due to rising groundwater levels.

One way to mitigate potential water infiltration problems is to dampproof or waterproof below grade walls and floors during construction. For more specific information about protection of below grade spaces, refer to the International Residential Code (IRC) sections related to dampproofing and waterproofing, specifically sections R405, R406 and R506.

What are the minimum requirements for basements in high risk drainage areas?

IRC section R406 requires foundation walls that retain earth and enclose habitable or usable spaces located below grade (basements) to be waterproofed or dampproofed. Foundation drainage systems which discharge to an approved outlet and sub-slab vapor retarders are also required. Foundation drains may not discharge to any road or right-of-way, sanitary sewer system or adjacent property.

What are my options if I want a basement in a High Risk Drainage Area?

1) On platted properties where the plat dedication contains specific conditions or restrictions on below grade construction, those requirements must be met.

2) On platted property where a condition in the dedication requires site specific investigation, a Geotechnical Engineer is required to visit the site and provide a report which includes basement construction recommendations, a detail of the footing/foundation design and recommendations for an appropriate discharge method, facility and location, or the builder may construct the below grade space in conformance with the waterproofing requirements contained within the IRC.

3) On properties where there are no specific conditions, the owner/builder may choose between prescriptive waterproofing or dampproofing, or may choose to obtain a site specific investigation and report.

In locations without specific conditions on the dedication language or restrictions from an existing geotechnical report and where pressure from a high water table is not expected to occur, there are two options:

1) Meet the IRC prescriptive requirements for **dampproofing**:

- Concrete walls shall be coated with bituminous coating, acrylic modified cement, surface bonding mortar or any material permitted for waterproofing. from the top of the footing to finished grade, and
- 6-mil polyethylene is required between the concrete floor slab and a gravel base layer. The "radon rock" and the soil-gas retarder membrane used in "passive radon systems" are considered to meet the requirements for this dampproofing material.
- For "active" radon systems that do not provide a membrane between the floor slab and the gravel base, connection of the under slab radon piping and the subsoil drainage system/ foundation drain such that positive drainage to the foundation drain is provided, is acceptable as an alternative to installing the membrane with concurrence from the active system installer. Absent such, a membrane or other approved alternative is necessary, and
- A foundation drain is required around all concrete or masonry foundations that retain earth and enclose habitable or usable spaces located below grade, at or below the area to

be protected. The foundation drain needs to daylight or drain by gravity or mechanical means to an approved location/disposal area, and

- Excavation outside the foundation shall be backfilled with soil that is free of organic material, construction debris or large rocks. Positive drainage of the finished grade away from the structure, with a minimum fall of 6 inches within the first 10 feet (5%) is required, or

2) Provide a geotechnical report prepared by a licensed Engineer with geotechnical experience that evaluates the development site's hydrogeologic condition and provides an alternate method of protecting the basement from high groundwater.

In locations without specific conditions on the dedication language or restrictions from an existing geotechnical report, and where pressure from a high water table is expected to occur, there are two options:

1) Meet the IRC prescriptive requirements for **waterproofing**, i.e. install specified waterproofing materials to the walls and under the floor slab; and follow the requirements for placement of foundation drains, backfill, site grading, and erosion protection, or

2) Install a means of safely lowering and maintaining the groundwater table not less than 6 inches below the bottom of the lowest floor and meeting the dampproofing requirements of the IRC. Engineering of the groundwater lowering method must be based on a geotechnical report prepared by a licensed Engineer with geotechnical experience that evaluates the development site's hydrogeologic condition.

What information do I need to provide with my building permit application?

For a basement in high risk drainage areas, the site plan and construction drawings of the proposed structure submitted at the time of building permit application needs to reflect how the applicant intends to meet the prescriptive dampproofing or waterproofing requirements of the IRC or the specific conditions of the existing geotechnical report.

Site plans need to reflect the disposal area for any foundation drainage system.

If the applicant proposes other measures to protect the basement, a geotechnical report and an engineered design supporting and specifying the alternative measures is also required.

During the building permit application process, staff will provide a one-page final project report form for the applicant or the applicant's Engineer to complete and return to the Department of Building and Planning.

What actions are required during construction of the basement?

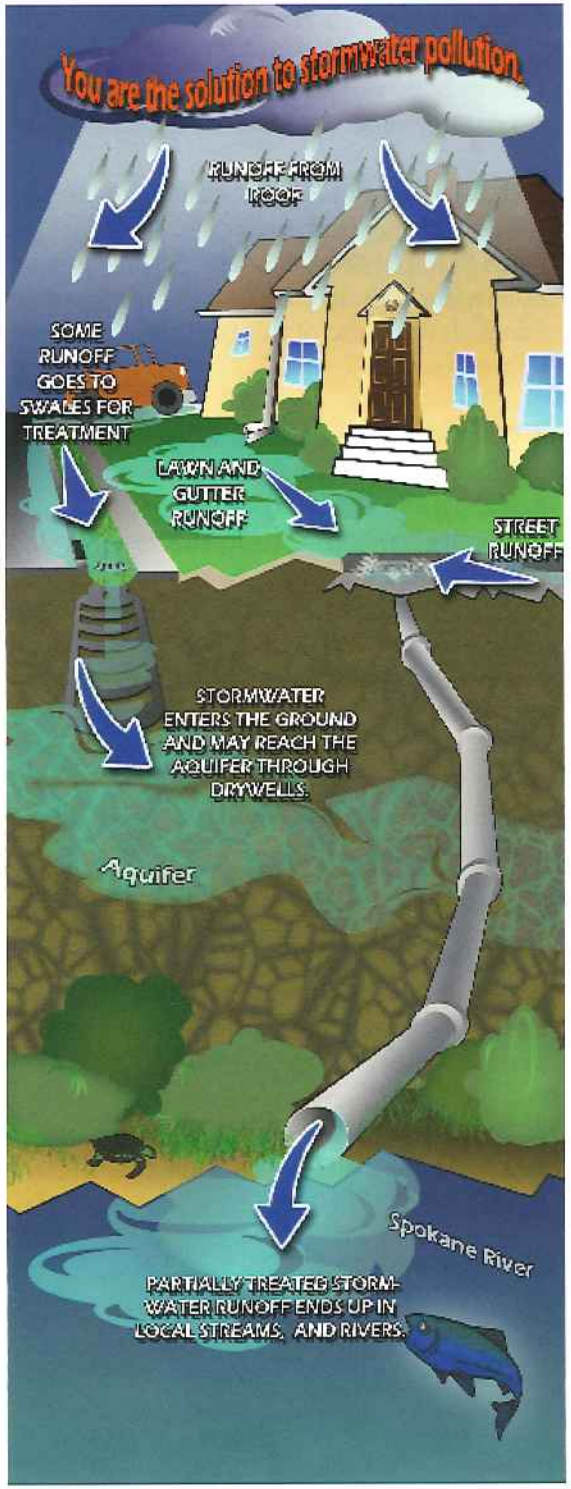
To meet the **dampproofing** requirements, the permit applicant must inspect the construction to assure that the specified design measures are being implemented. If the basement is being **waterproofed** or the applicant is following the recommendations of an engineered design, then a Geotechnical Engineer is required to inspect the construction.

What happens after construction of the basement?

Prior to receiving a final inspection approval and Certificate of Occupancy, the permit applicant will need to submit to the Department of Building and Planning the completed final project report. If the basement is being **waterproofed or was designed by an engineer**, then a Geotechnical Engineer is required to inspect the construction and to provide an as-built drawing along with the final project report to Building and Planning verifying that the design measures were installed.

If, during construction of either **dampproofing** or **waterproofing** measures, site conditions are found to be significantly different from what was anticipated or other dampproofing/waterproofing measures are installed, then the permit applicant will need provide a revised drawing on any new measures to deal with groundwater safely along with the final report.

For more information, or to schedule an appointment, contact:
Department of Building and Planning
1026 W. Broadway Avenue
Spokane, WA 99260
(509)477-3675
www.spokanecounty.org/bp



CITY OF SPOKANE

625-7900
www.spokanewastewater.org

City of Spokane Valley

688-0321
www.spokanevalley.org

Spokane County

477-3604
www.spokanecounty.org

Spokane Regional Health District

324-1560, EXT. 3
www.srhd.org

Please note that while every effort is made to assure the accuracy of the information contained in this brochure it is not warranted for accuracy. This document is not intended to address all aspects of regulatory requirements and should serve as a starting point for your investigation. For detailed information contact the appropriate jurisdiction.

For additional copies please visit:
www.spokanewastewater.org/strmwtr.asp.

Rev. 8/08

Maintaining Pools and Hot Tubs to Prevent Stormwater Pollution

Water from residential pools and hot tubs is not considered stormwater and should not be discharged directly to storm drains.

What is Stormwater

Stormwater is rainfall and snow melt that flows over land surfaces to a storm drain system. As stormwater flows across impervious surfaces (i.e. driveways, parking lots, streets, etc.) it can pick up and transport pollutants such as oil, dirt (sediment), leaves, and heavy metals. Drains and swales transport stormwater to the Spokane River, streams or the aquifer.

Water from pools and hot tubs is not considered stormwater because the water contains chlorine and other chemicals. If water from pools and hot tubs were to reach the storm drains, it would pollute stormwater. It is easier and cheaper to prevent stormwater pollution than to clean it up.

Stormwater Best Management Practices (BMPs)

BMPs are procedures that help prevent pollutants such as chlorine, metals, and sediments from entering storm drains. By practicing the BMPs for draining pools and hot tubs that are outlined in this brochure, you will help keep our water systems and drinking water clean.

General Maintenance:

- Clean your pool or hot tub regularly. Maintaining proper chlorine levels, water filtration, and circulation will reduce the need to drain your pool or hot tub.
- Avoid using copper-based algaecides. Control algae with chlorine or other alternatives to copper-based pool chemicals.
- Dispose of unwanted pool chemicals properly–many are hazardous wastes when discarded. Household hazardous wastes may be taken to one of the Spokane Regional Solid Waste System transfer stations, www.solidwaste.org.

Filter Maintenance:

- Never rinse or clean filters into the street, paved driveways, or a street drain. Do not drain backwash into streets or street drains.
- Rinse cartridge filters into a container and allow the waste to settle out. Dispose of residue by bagging and placing in the trash after it dries out.

Draining Pools and Hot Tubs:

- Prior to draining, shut off the chlorination system or do not add any chlorine for at least 1-3 days to allow the chlorine to dissipate.
- Drain water onto a landscaped area of your property; away from septic system drain fields (if applicable). If unable to drain water onto a landscaped area, contact the agencies listed on the back of this brochure for other alternatives.
- When draining, be considerate of your neighbor by keeping all water on your property. Use sand bags or berms, if necessary, to keep water from leaving your property.
- Do not drain if there has been recent application of herbicides, pesticides, or fertilizers.
- Avoid draining water during rainy weather conditions to prevent flow from reaching street drains.

Storing Pool and Hot Tub Chemicals:

- Store chemicals indoors and away from drains to prevent leaks and spills that could make their way to storm drains.
- Clearly and visibly label bottles to avoid being dumped outside or down the sink by mistake.

YOU are the Solution to Stormwater Pollution

Do you know???
Stormwater is runoff from rainfall or snowmelt that often carries pollutants? It picks up trash and pollutants on the ground and carries them to storm drains, ditches or swales.

Do you know???
That stormwater is only partly treated in many parts of the county before it goes to the Spokane River, Little Spokane River or to the Aquifer?

If you see...in **Spokane County**

- Motor vehicle fluids and/or household chemicals being dumped into gutters or street drains;
- Stormwater leaving construction areas and entering streets drains, swales, ditches; or
- If you are just not sure...call the hotline.

Call the Stormwater Hotline

When calling...*please provide*....

- Description of the pollution (or leave a detailed message);
- Date, time, and location of the stormwater pollution;
- Your name and a phone number where you can be reached for further details (this is optional).

So, please... nothing but rain down our drains!!

- Polluted stormwater can harm human health, aquatic life, and our environment.
- It is cheaper to prevent stormwater pollution than it is to clean it up.
- For more details about how you can help, please visit: ***www.spokanecounty.org/Stormwater***

It's our responsibility to keep our rivers, lakes, and aquifer clean!

Spokane County - Stormwater Hotline

YOU ARE THE SOLUTION TO STORMWATER POLLUTION
Stormwater Hotline
477-7525
Stormwater Utility

SPOKANE COUNTY

Residential Site Plans

BP-72

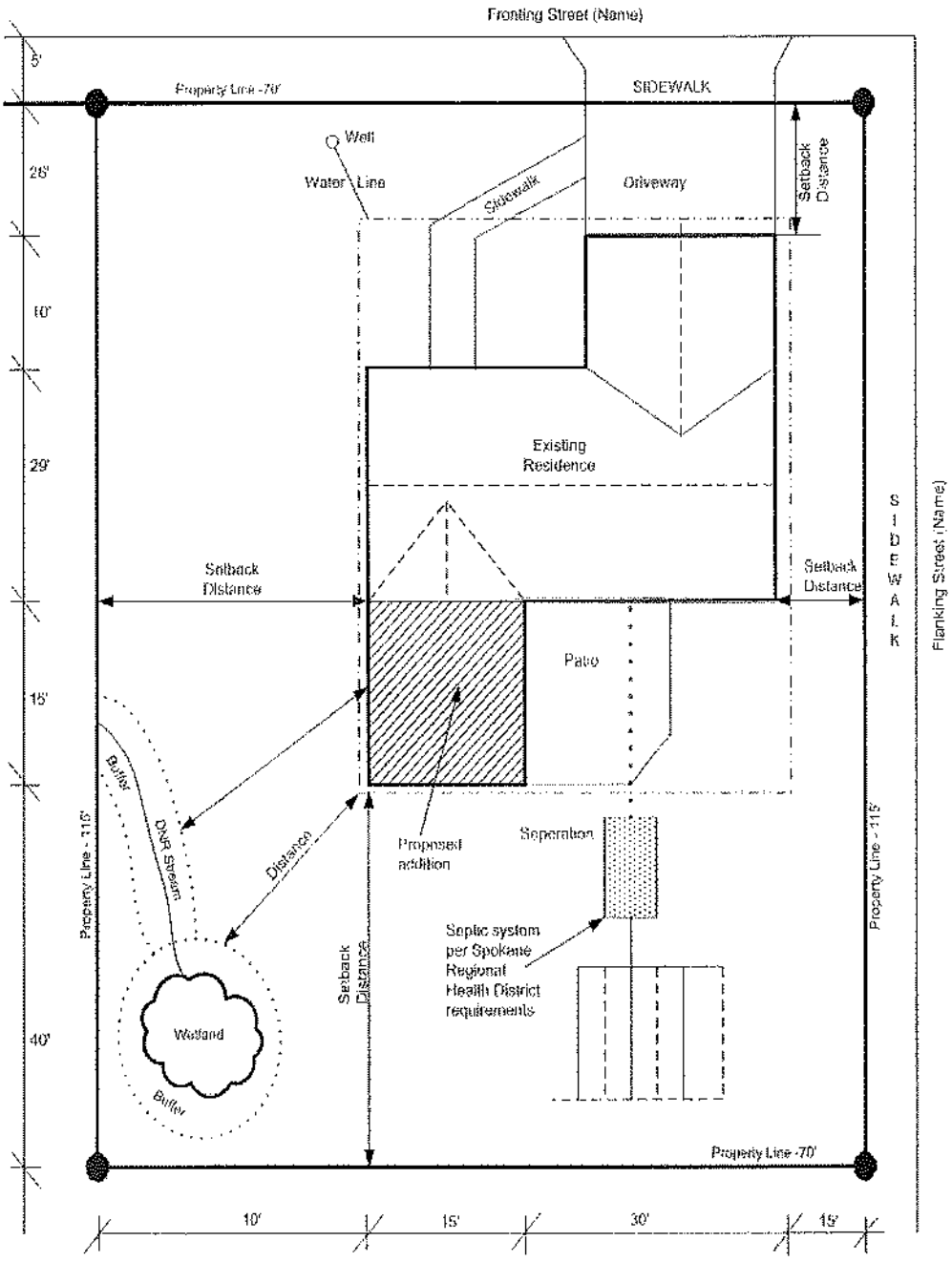
Department of Building and Planning

SAMPLE RESIDENTIAL SITE PLAN

Scale = 1:20

● **Property Corner**

N



Help us serve you faster by making sure your building height is indicated on your plans.

Your Residential Site Plan Should Include:

- Site plans on 8-1/2 x 11 inch paper are preferred.
- Scale used and a marker showing the direction of north.
- Location and dimension of all property lines.
- Adjoining street(s) location & names and points of vehicular ingress/egress, including drive-ways/access easements, sidewalks, curbing etc.
- Location, dimension and use of all existing and proposed buildings, structures, parking areas, drainage, landscape areas or other planned site improvements such as stairs, ramps, retaining or other walls, etc. For all proposed buildings show porches, walks, decks, roof overhangs, etc.
- Sidewalks, curbing, stairs, ramps, retaining or other walls, etc.
- Existing buildings scheduled for demolition or removal
- Location, dimensions and type of all public and private easements (i.e.: drainage, access, utilities).
- Setbacks/distances from buildings to property lines, easements & center line of rights of way, other buildings, streams, water bodies, ordinary high water mark (OHWM), and wetlands etc.
- If the project is located within 250 feet of a body of water regulated by the Shoreline Management Act, the ordinary high water mark (OHWM) needs to be indicated.
- All water bodies such as lakes, creeks, streams, ponds and wetlands need to be indicated.
- Critical Areas buffers
- Location of slopes over 30%.
- Location of any floodplains
- Location of proposed or existing sewage disposal system(s), well(s), sewer line(s), and water line(s) and distances to buildings.

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SPOKANE COUNTY

Environmental Review

B-49

Division of Building and Code Enforcement

SEPA is the abbreviation or acronym for the State Environmental Policy Act, Chapter 43.21C RCW. Enacted in 1971, this state law provides the framework for review and consideration of the environmental consequences of a proposal. It also gives agencies the ability to condition or deny a proposal due to identified likely significant adverse impacts. The Act is implemented through the SEPA Rules, Chapter 197-11 WAC and Chapter 11 of the Spokane County Code. This brochure is intended to provide an overview of SEPA Requirements.

When is SEPA environmental review required?

Environmental review is required for any proposal which involves a government "*action*" as defined in the SEPA Rules (WAC 197-11-704), which is not *categorically exempt* (WAC 197-11-800 through 890). Project actions involve government agency decisions on a specific project, such as a construction project, zone change or timber harvest. *Nonproject actions* involve decisions on policies, plans, or programs, such as the adoption of a comprehensive plan or development regulations, or a six-year road plan. Sometimes a series of exempt actions may prompt an environmental review under *SEPA*.

What is an "underlying governmental action"?

The underlying governmental action is the action that must be taken by an agency to authorize a proposal. Actions include the issuing of a permit or license, the approval of funding, the adoption of a plan, ordinance, or rule, or other actions defined in WAC 197-11-704. It is not the issuance of a SEPA document.

Who is responsible for doing SEPA environmental review?

One agency is identified as the "*lead agency*" under the SEPA Rules WAC 197-11-924 to 938, and is responsible for conducting the environmental review for a proposal and documenting that review in the appropriate SEPA documents (DNS, DS/EIS, adoption, addendum).

This review is based on a environmental checklist completed by the applicant and other supporting documents/studies.

What is the difference between lead agency, responsible official, and decision-maker?

The *lead agency* is the agency responsible for all procedural aspects of SEPA compliance. The *responsible official* represents the lead agency and is responsible for the documentation and the content of the environmental analysis. Decision-makers may be either staff members or elected officials who are responsible for taking an agency action, such as issuing a license, or adopting a plan or ordinance.

When a license / permit is required by Spokane County, the County or one of its divisions or departments will usually be *lead agency* for the project. There are some exceptions for larger proposals where a state agency is designated as lead agency (see WAC 197-11-938 for criteria). If the county does not have a license to issue for the proposal, another agency with a permit to issue will be lead agency, such as a health district, school district, public utility, local air authority, or a state agency.

What is a "categorical exemption"?

A *categorical exemption* is an *action* that is exempt from *SEPA* compliance because it is unlikely to have a significant adverse environmental impact. The categorical exemptions are found in Part Nine of the SEPA Rules, and in RCW 43.21C.035, .037, and .0384.

Certain proposals, defined as "*minor new construction*", are exempt because they are of the size or type to be unlikely to cause a significant adverse environmental impact. Examples include:

- Dwelling units, 20 or less;
- Agricultural structures up to 20,000 square feet;
- Commercial buildings up to 12,000 square feet;

and up to 40 parking spaces;
- Parking lots with up to 40 parking spaces;
- Landfills and excavations up to 500 cubic yards;
- Underground tanks up to 10,000 gallons.

Other exemptions include enforcement and inspection activities, issuing business licenses, storm/water/sewer lines eight inches or less, etc. Some proposals are exempt by statute, regardless of environmental impact.

Some exemptions contain conditions under which they do not apply, such as projects undertaken wholly or partly on lands covered by water; projects requiring a license to discharge to the air or water; or projects requiring a rezone.

What is a Threshold Determination?

The *threshold determination* process is the process used to evaluate the environmental consequences of a proposal and determine whether it is likely to have any "*significant adverse environmental impact.*" This determination is made by the lead agency and is documented in either a *determination of nonsignificance* (DNS), or a *determination of significance* (DS) and subsequent preparation of an *environmental impact statement* (EIS).

What is a "significant" adverse environmental impact?

WAC 197-11-794 defines "*significant*" as "a reasonable likelihood of more than a moderate adverse impact on environmental quality." What is considered significant can vary from one site to another, and from one jurisdiction to another, both because of the conditions surrounding the proposal at a particular location, and because of the judgement of the responsible official.

Can information in existing environmental documents be used for a new or amended proposal?

Yes, there are several ways that information in existing documents can be used: 1) adoption, 2) incorporation by reference, 3) addendum, or 4) *supplemental EIS.* Using existing information reduces paperwork and delays caused by conducting duplicate studies and analysis.

Agencies may adopt all or part of existing documents to support a new *threshold determination*, or the information may be "incorporated by reference." A revised proposal generally does not require a new *threshold determination* so adoption of the original document would not be required for the revised proposal.

What is a "DNS"?

A DNS or "*determination of nonsignificance*" documents the responsible official's decision that a proposal is not likely to have significant adverse environmental impacts.

How and when are cumulative impacts evaluated?

SEPA requires agencies to address cumulative impacts. This can be difficult if each project is evaluated individually in isolation from other related proposals. With comprehensive planning under state GMA requirements, cities and counties are able to look at the "big picture," evaluate cumulative impacts of development, and determine appropriate mitigation measures to apply to individual, future proposals. Agencies also have a responsibility to look at cumulative impacts within project EISs (Environmental Impact Statements). The EIS should look at how the impacts of the proposal will contribute towards the total impact of development in the region over time. (Proponents are only responsible for mitigation of the portion attributable to their own proposal, though voluntary mitigation beyond that level is allowed.)

What about a public comment period?

A *comment period* is required when:
- there is another agency with jurisdiction;
- non-exempt demolition activities are occurring; non-exempt grade and fill permits are taking place;
- a mitigated DNS has been issued under WAC
- 197-11-350(2) or 350(3), and / or
- an action under the Growth Management Act is taking place.

If a *comment period* is required, it is generally 14 days. A public notice, and the DNS are circulated and the a notice is posted on the site. If a comment period is not required, no public notice or distribution is required.

What is the difference between a DNS and mitigated DNS?

A mitigated DNS is a DNS that contains mitigation or conditions that reduce likely significant adverse environmental impact(s) to a nonsignificant level. A mitigated DNS requires a comment period when there are other agencies with jurisdiction (unless the "*optional DNS*" process has been used).

What is the "optional DNS" process?

The *optional DNS process* allows the county, when they are the *SEPA lead agency*, to use the comment period on a *notice of application* (NOA) to obtain comments on environmental issues. A NOA is a notice that is required for

certain project permits identified in Spokane County's "Application Review Procedures for Project Permits". The NOA must state that the *optional DNS* process is being used and that this may be the publics only opportunity to comment. All mitigation conditions being considered are identified. After the end of the NOA comment period, the county may issue the DNS without a second comment period. This provides for a single 14 day comment period. With the second comment period, the time frame for comments is extended an additional 14 days.

What is the issue date of a DNS?

The *issue date* is the day the DNS is sent to the Department of Ecology and is made publicly available. The 14-day comment period starts from the date of issuance.

What is an Environmental Impact Statement (EIS)?

An *environmental impact statement* is a document prepared when the County determines a proposal is likely to have significant adverse environmental impacts. The *EIS* provides an impartial discussion of significant environmental impacts, reasonable alternatives, and mitigation measures that would
avoid or minimize adverse impacts. The County will issue a draft EIS with a 30-day comment period to allow other agencies, tribes, and the public to comment on the environmental analysis and conclusions. These comments will be used to finalize the environmental analysis and issue a final *EIS*.

When is an environmental impact statement required?

An EIS is required for any proposal that is likely to have a significant adverse environmental impact where mitigation that would reduce the impact to a nonsignificant level has not been provided. The indication that an *EIS* will be required is signified by the issuance of a *declaration of significance (DS)* rather than a *DNS* the applicant and lead agency may work together after the issuance of a *DS* to revise the proposal's impacts or identify mitigation measures that would allow the lead agency to alter its decision and instead issue a *determination of nonsignificance or mitigated DNS (MDNS)*.

Are there any opportunities to appeal SEPA?

An administrative appeal of either procedural issues or substantive decisions, or both, are heard by the Spokane County Hearing Examiner. If the administrative appeal process has been exhausted or is not available, a judicial appeal that is heard by the court can be pursued.

What is a "notice of action"?

A notice of action is the document used to limit the time a SEPA appeal can be filed when the underlying government action has no set appeal limitations. The form is located in Spokane Environmental Ordinance section 11.10.230. Procedures for using a notice of action are found in RCW 43.21C.080.

(The information in this handout, as modified, was taken from the Washington State Department of Ecology Handbook. For additional information see www.wa.gov)

Other Brochures that may be helpful

B-1 *Commercial Permits*
B-26 *Conference Information and Guidelines*
B-31 *Rules, Regulations and Red Tape*
B-33 *Site Plans and Construction Drawings*
B-40 *Information Directory*
B-51 *Application Submittal requirements for Building Permits*
B-52 *Permit Processing Time Savers*

For more information or an appointment contact:

Spokane County
Division of Building and Code Enforcement
1026 W. Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675 BACE@spokanecounty.org
http://www.spokanecounty.org/building

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(B49) 02/02

SPOKANE COUNTY

PreApplication Conference Information and Guidelines

BP-26

Department of Building and Planning

What are pre-application conferences?

This brochure is intended to provide an overview of Preappliation Conferences. As participants in a Preapplication Conference, you will meet with County departments and other public entities to review your construction project. The following departments are typically represented:

- Spokane Regional Health District
- Fire District
- Division of Engineering and Roads
- Department of Building and Planing
- Division of Utilities

When are they scheduled?

Conferences are held on Tuesdays and Thursdays at 10:00 a.m. and 11:00 a.m., and are scheduled to provide County staff a minimum of seven (7) working days for review of your proposal.

What do I need to schedule a conference?

Seven (7) site plans and floor plans are needed for the departments to review. To provide a more comprehensive review please submit as much detailed information as is available.

The Site plans need to include:

- ❑ Legal description
- ❑ Scale of drawing
- ❑ North arrow
- ❑ Property dimension and configuration
- ❑ A vicinity map showing sufficient area detail to locate the project in relation to arterial streets and landmarks
- ❑ Width/names of streets adjacent to site
- ❑ Distance to all property lines
- ❑ Applicable easements
- ❑ Setbacks to center of adjacent streets
- ❑ Existing buildings/setbacks to proposed buildings
- ❑ Loading areas and drainage details
- ❑ Bodies of water within 250 feet and other "critical areas" (wetlands, slopes >30% etc.)
- ❑ Buildings scheduled for demolition/removal
- ❑ Proposed buildings including projections, decks, canopies
- ❑ Fire access lanes and turnarounds
- ❑ Fire hydrant/standpipe locations
- ❑ Accessible parking stalls and accessible routes of travel into and within building
- ❑ Height/area/use of new and existing buildings
- ❑ Outdoor storage, fence height/location/type
- ❑ Existing parking/number of spaces/proposed parking spaces/traffic circulation
- ❑ Landscaped area/plants, location/curbing
- ❑ Septic tank/drainfield and/or well location
- ❑ Drainage swales/dry wells/drainage of loading dock
- ❑ Driveways and all road approaches
- ❑ Curbing/sidewalks/street channelization/types of surfaces
- ❑ Refuse areas

The floor plans need to include:

- ❑ Building dimensions
- ❑ Use of each room
- ❑ Stairs, exits, etc.

How do I schedule a conference?

For building permits just come in to the Department of Building and Planning's permit center with seven site plans and floor plans and two sets of construction drawings. After filling out a permit application, you will receive the date and time of the conference.

For more information on how to obtain a permit for a commercial building, see Bulletin BP-1, "Commercial Permits" and Bulletin BP-33, "Commercial Site Plans and Construction Drawings."

Other brochures that may be helpful

BP-1 *Permit Fee Schedule*
BP-19b *Erosion and Sediment Control Requirements*
BP-33 *Site Plans & Construction Drawings*
BP-51 *Application Submittal Requirements for Building Permits*
BP-52 *Permit Processing Time Savers*

For more information or an appointment contact:
Spokane County
Department of Building and Planning
1026 West Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675 bp@spokanecounty.org
http://www.spokanecounty.org/bp

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(BP26) 09/06

SPOKANE COUNTY

Commercial Permits

BP-1

Department of Building and Planning

The purpose of this brochure is to provide an overview of what information will be necessary to complete your application and to answer some common questions related to commercial building permits and inspections.

New commercial construction or the remodel/ repair of commercial buildings in Spokane County must conform to adopted standards, including the International Building, Plumbing, Mechanical and Fire Codes, the Uniform Plumbing Code, the Washington State Barrier-Free Regulations, the Washington State Energy Code, zoning and land use regulations, and various other local and state laws.

A preapplication meeting with reviewing departments will generally be arranged to help determine your particular needs. We strongly encourage these meetings, particularly on major projects, prior to detailed preparation of plans and specifications to help eliminate costly changes.

What requirements must be met before filing an application?

Many factors dictate whether a particular piece of properly is compatible for a given project. Primary among these are the zoning of the property and the method of sewage disposal.

Please note that past zone reclassification actions for the property may have included special conditions, which could influence the design of your project. These conditions need to be taken into consideration in the site and/or building design. The Department staff can assist you in reviewing this matter or help you determine if the proposed use is compatible with the zoning of the property.

On-site sewage disposal systems, soil type, location, property size, etc. are all influencing factors. To verify whether your particular piece of property is capable of supporting an on-site septic system, contact the Spokane Regional Health District (324-1560), or the County Division of Utilities (477-3604) regarding the availability of a public sewer.

What steps will be taken to process the building permit?

Initially the vast majority of commercial projects are reviewed at a preapplication meeting. The intent of these meetings is to identify the information necessary to submit an application for your specific proposal, provide information relative to any conditions of approval from a land use decision and provide preliminary code information. Usually the meetings are held prior to the submittal of a formal application, but we can schedule one upon receipt of an application if one was not conducted previously.

At the time of application, Department staff will be assigned to help coordinate processing and issuance of the permit. Documents, site/landscape/drainage plans and other information will be circulated by the project coordinator for review and comment by the appropriate departments. The departments will provide you with their individual comments. Substantial changes may require resubmittal of plans.

In order to aid you in obtaining a permit in the shortest possible time frame, and depending on the circumstances as determined by the assigned project coordinator, applications for minor commercial projects (i.e., small additions, minor remodels, etc.) may be circulated to the reviewing departments without the need to schedule a conference.

How long will it take to get the permit?

If your application and plans are complete, addressing all county and state requirements, approvals for new commercial construction can usually be completed within 35 days. Special designs and major commercial projects may require additional review time.

In the case of commercial remodels or repairs, the complete application and approval process can be accomplished in shorter time frames.

How much will the permit cost?

Fees for building permits are based on valuation using standard market rates for similar types of construction. The actual fees are established by county fee schedules and are based on the size and use of the structure. Please refer to the county's current fee schedule or consult with department staff.

What can delay permit issuance?

- Incomplete plans, particularly construction details as prescribed by the International Building Code.
- Incomplete information on plans reviewed by other county departments (drainage, landscaping, allocation of floor area usage, parking spaces, etc.).
- Improper legal description(s).
- Fragmented submissions or plan changes initiated by the applicant or their agent.
- Failure to submit revised plans and documents to the Department of Building and Planning for coordination and circulation. (All plans need to be submitted to the Department of Building and Planning permit counter.)
- Failure to respond to plan corrections noted during plan review in a timely fashion.
- Failure to adequately describe uses both within existing buildings located on the same site and in any proposed structures.

Will I need other permits in conjunction with the application?

Approvals or permits from other county departments and state agencies may be required prior to the release of your building permit, including:

- Many commercial projects require plumbing and mechanical permits in conjunction with the building permit. Both are issued by the Department of Building and Planning (477-3675).
- If you are installing or altering a septic system, or if your project is such that a septic system may need to be enlarged or relocated, permits are required from the Spokane Regional Health District (324-1560).
- If sewer is available to your site, a side sewer permit will need to be obtained from the Spokane County Department of Building and Planning. Information regarding the installation or inspection of sewer lines can be obtained from Spokane County Division of Utilities (477-3604).
- Curbcuts, driveway approaches and the construction of curbs and sidewalks need to be reviewed by the Division of Engineering & Roads. Permits may be required (477-3600).
- Electrical permits for work in unincorporated areas of the county can be obtained from the Washington State Department of Labor and Industries (324-2640). For connection to the power distribution lines, contact the serving utility.
- You will need to contact the appropriate utility for connections to a public water system.

Once the permit is issued, what inspections will be required?

At a minimum, the following inspections are required:

- Footing/Foundation - After excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations any required forms shall be in place prior to inspection.
- Framing - After the roof deck or sheathing, all

framing, fire blocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are approved.

- Drywall - after nailing is complete but before taping or finishing
- Fire Systems/Fire resistant penetrations - Fire alarm and sprinkler systems must be tested and witnessed by a representative of the department. Protection of joints and penetrations shall not be concealed until after inspection and approval.
- Concrete slab and under-floor inspection - concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.
- Lath and gypsum board - After lathing and gypsum board, interior and exterior, is in place, but before any plastering is applied or gypsum board joints and fasteners are taped and finished.
- Special Inspections - The owner may be required to employ an approved special inspector for structural welding, concrete or other types of work under Section 1704 of the International Building Code.
- Plumbing - After rough-in, pressure tests, before covering, and final.
- Mechanical - Rough-in of piping, before covering metal chimneys, HVAC equipment installations, duct work, smoke/fire dampers and similar mechanical work before concealment and final.
- Site Improvements - Site drainage, landscaping, parking, etc., prior to occupancy. (An inspection is recommended at the grading stage, prior to placement of sod, etc., to verify appropriate grades).
- Other Inspections - in addition to the inspections specified above, the building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the department of building and safety.
- Final - The final inspection shall be made after all work required by the building permit is com pleted.

In addition to the above inspections, any equipment, systems or materials, which would be concealed by framing, drywall, concrete, etc., must be inspected prior to cover.

If during construction problems arise where site modifications are required (i.e., parking, site drainage, landscaping, etc.), separate as-built drawings may be required demonstrating compliance with county requirements.

It is the responsibility of the permittee to see that the required inspections are made. Failure to notify this department that construction has progressed to a point where inspection is required may necessitate the removal of certain parts of the construction at the owner's expense.

When you are ready for any of the preceding inspections, please call 477-3675, and give the owner's name, project address, permit number and type of inspection needed. We can usually schedule an inspection within 24 hours.

Under certain circumstances, parts of your project may require inspections from other agencies, including:

- Road cuts for utilities or drives: Washington State Department of Transportation, 456-3000 or County Division of Engineering and Roads, 477-3600.
- On-site waste disposal system: Spokane Regional Health District, 324-1560.
- Construction in a flood plain: Division of Engineering and Roads, 477-3600.
- Electrical wiring: State Department of Labor and Industries, 324-2640.
- Sewer and hook-up: County Division of Utilities, 477-3604.
- Hydrants: Local Fire District.

These agencies should be contacted directly for their particular inspection requirements.

Will the permit expire?

Your permit will be considered null and void by limitation if the work authorized by the permit is not commenced or is stopped for a period of 180 days, unless a written request for an extension of the permit is received and approved by the building official prior to expiration. At a minimum, an inspection should be requested at least once every 180 days to assure the validity of the permit.

Other Brochures that may be helpful

BP-2 *Demolition Permits*
BP-4 *Permit Fee Schedule*
BP-8 *Sign Permits*
BP-19 *Erosion and Sediment Control*
BP-19a *Erosion and Sediment Control Techniques*
BP-19b *Erosion and Sediment Control Plan Requirements*
BP-26 *Commercial Conference Information and Guidelines*
BP-27 *Critical and Hazardous Materials*
BP-29 *Public Assemblies*
BP-31 *Rules, Regulations, and Red Tape*
BP-33 *Site Plans and Construction Drawings*
BP-39 *Addressing*
BP-40 *Information Directory*
BP-45 *Slopes and Setbacks*
BP-46 *Grading and Parking Lot Permits*
BP-46a *Typical Grading Permits*
BP-47 *Speculative Buildings*
BP-48 *Non-Residential Energy Code*
BP-51 *Application Submittal Requirements*
BP-52 *Permit Processing Time Savers*
BP-53 *Project Planning Checklist*

For more information or an appointment contact:

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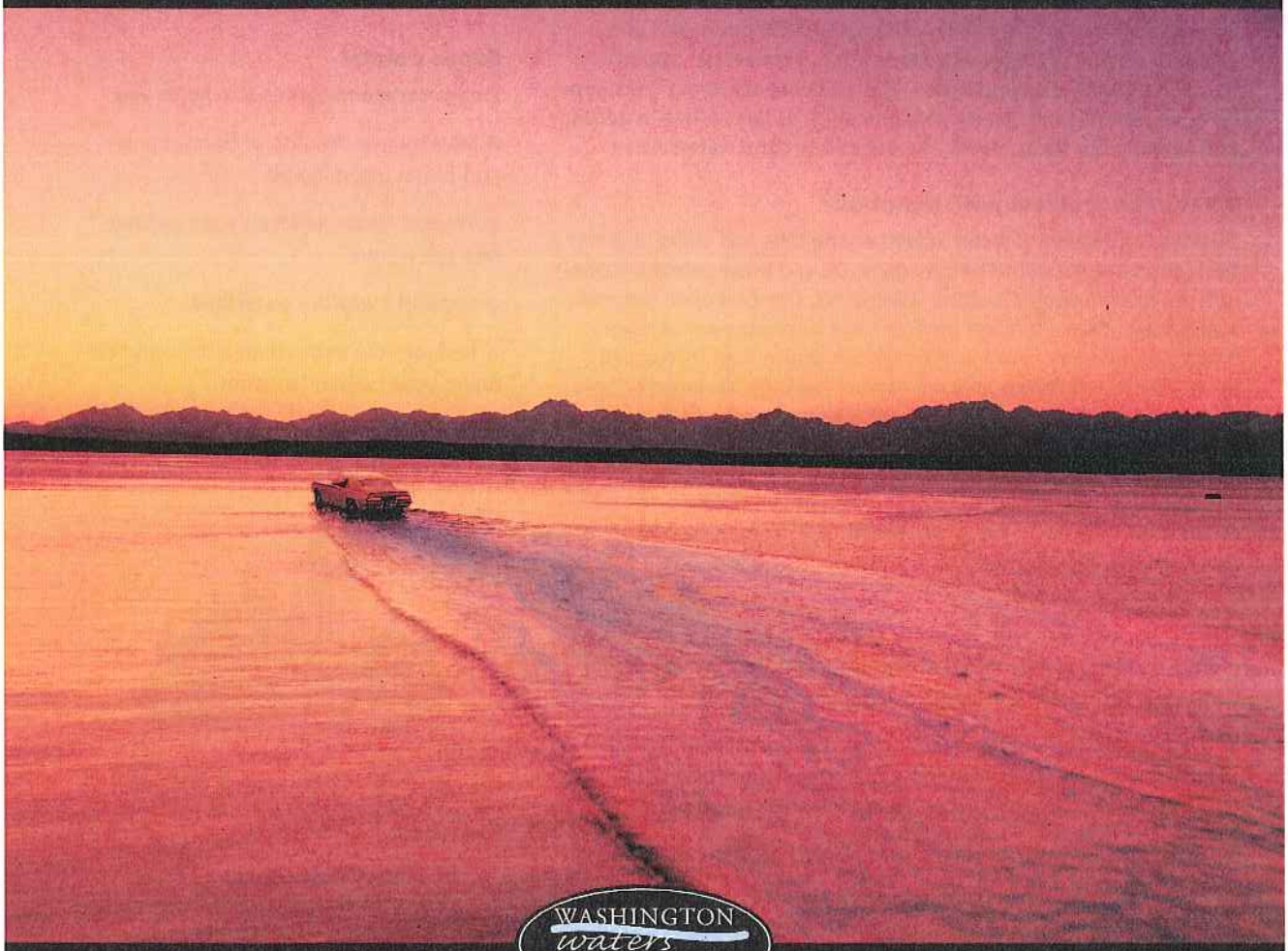
(B1) 10/04

WHEN YOUR CAR'S

LEAKING OIL ON THE STREET,

REMEMBER, IT'S NOT JUST

LEAKING OIL ON THE STREET.



WASHINGTON waters
OURS TO PROTECT
www.ecy.wa.gov/washington_waters

Leaking oil from cars and other vehicles collects on roadways and eventually washes into storm drains, ditches, lakes, and streams. That's bad news for fish and other aquatic life.

Don't leave a sheen.
Maintain your car.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension, U.S. Environmental Protection Agency and Thurston County Stream Team.

When your car's leaking oil on the street, remember, it's not just leaking oil on the street.

Clean water is important to all of us. It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, most water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a pollution solution!

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water, and adds beauty to our landscape. All of us benefit from clean water and all of us have a role in getting and keeping our lakes, rivers, marine and ground waters clean.

What's the problem with motor oil?

Oil does not dissolve in water. It lasts a long time and sticks to everything from beach sand to bird feathers. Oil and other petroleum products are toxic to people, wildlife and plants. One pint of oil can make a slick larger than a football field. Oil that leaks from our cars onto roads and driveways is washed into storm drains, and then usually flows directly to a lake or stream. Used motor oil is the largest single source of oil pollution in our lakes, streams and rivers. Americans improperly dispose of 200 million gallons of used oil each year and a sizeable portion reaches our waters.

Drips don't have to be a problem.

What will you do to help?

- Maintain your car.
- Stop drips. Check for oil leaks regularly and fix them promptly. Keep your car tuned to reduce oil use.
- Use ground cloths or drip pans beneath your vehicle if you have leaks or are doing engine work. Clean up spills immediately. Collect all used oil in containers with tight fitting lids. Do not mix different engine fluids.
- Never dispose of oil or other engine fluids down the storm drain on the ground or into a ditch.
- Recycle used motor oil. Many auto supply stores and gas station will accept used oil.
- Buy recycled (re-refined) motor oil to use in your car.

To find out more about where you can take used oil for recycling, call the Department of Ecology's 1-800-RECYCLE line or the number in your community listed below.

Don't leave a sheen.

Maintain your car.

We all need clean water.

We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

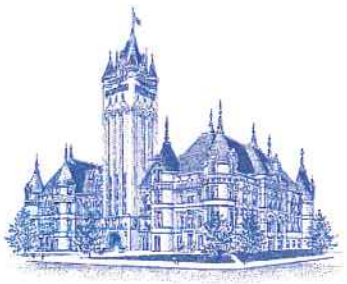
More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Proper car maintenance also helps you:

- Save money because of fewer repairs and better gas mileage.
- Prevent toxic chemicals from getting into our waters.
- Support a healthy watershed.
- Reduce your exhaust emissions and reduces your carbon footprint.



SPOKANE COUNTY

Spokane County Public Works
Division of Engineering and Roads
Stormwater Utility
1026 West Broadway Avenue, Spokane, WA 99260
509-477-3600 Main / 509-477-7655 Fax

WASHINGTON *waters*

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WHEN YOU'RE WASHING

YOUR CAR IN THE DRIVEWAY,

YOU'RE NOT

JUST WASHING YOUR CAR

IN THE DRIVEWAY.

WASHINGTON waters
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Storm drains run directly into lakes, rivers or marine waters. When you wash your car in your drive way, the soap can go down the storm drain and pollute our waters.

Don't feed soap to the storm drain.
Wash your car right. Keep your waters clean.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension Service, U.S. Environmental Protection Agency and Thurston County Stream Team.

When you're washing your car in the driveway, you're not just washing your car in the driveway.

Clean water is important to all of us. It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, most water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a pollution solution!

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water, and adds beauty to our landscape. All of us benefit from clean water and all of us have a role in getting and keeping our lakes, rivers, marine and ground waters clean.

What's the problem with car washing?

There's no problem with washing your car. It's just how and where you do it. Most soap contains phosphates and other chemicals that harm fish and water quality. If you live in the city and you wash your car in the driveway, the soap, together with the dirt and oil washed from your car, flows into nearby storm drains which run directly into lakes, rivers or marine waters. The phosphates from the soap can cause excess algae to grow. Algae look bad, smell bad, and harm water quality. As algae decay, the process uses up oxygen in the water that fish need.

How will we change our ways?

The state recommends that cities and counties help educate people in urban areas about sensible ways to wash their cars and still keep soapy water from washing into storm drains. You can, indeed, wash your car and you can also keep our waters clean!

Car washing soaps don't have to be a problem.

What will you do to help?

- Use a commercial car wash, either self-serve or machine wash.
- Wash on lawns or other surfaces where water can seep into the grounc
- Divert water away from storm drain.

Charity Car Washes

- Sell commercial car wash coupons instead
- Borrow a pump kit to send the soapy runoff to a sanitary sewer
- Locate the wash to divert wash water into the sewer, not the storm drain
- Rent a "Bay for a Day" at a self-serve car wash that is hooked up to sanitary sewer.

Don't feed soap to the storm drain. Wash your car right. Keep your waters clean.

We all need clean water.

We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Cleaning your car the right way also helps you:

- Support a healthy watershed.
- Help restore salmon runs.
- Sets a good example for your children and your neighbors.

SPOKANE COUNTY

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WASHINGTON *waters*
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WHEN YOUR DOG

GOES ON THE LAWN,

REMEMBER

IT DOESN'T JUST GO ON THE LAWN.

WASHINGTON waters
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Rain, snow melt and lawn sprinklers wash dog poop and its bacteria into storm drains. From there, it goes on to pollute our waterways. So what to do? Simple. Bag it and put it in the trash.

Scoop the poop.
Bag it. Trash it.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension, U.S. Environmental Protection Agency and Thurston County Stream Team.

When your dog goes on the lawn, remember it doesn't just go on the lawn.

Dog poop is more than just an icky nuisance. It's a health risk to dogs and people, especially children. It's full of bacteria that can make people sick. And it's a source of water pollution.

Water - from rain, snow melt or lawn sprinklers - melts dog poop. Then runoff carries it to storm drains, ditches and streams that feed our rivers, lakes and marine waters.

Bacteria from dog poop threatens drinking water for both people and livestock and can end up in shellfish. People can get very sick if they fish or swim in these waters or eat the polluted shellfish. Nutrients from dog poop can also feed the growth of aquatic plants and algae. As these decay, they use up oxygen in the water that fish and other aquatic life need.

Dog poop left on the ground is no small problem - based on a study by the American Veterinary Medical Association, it's estimated that there are 1.6 million dogs in Washington State. That means hundreds of tons of new dog poop every day!

Dog poop doesn't have to be a problem.

What will you do to help?

- Carry plastic bags when taking your pet for a walk or a romp in the park.
- Pick up your dog's waste. Use a plastic bag, scoop or disposable gloves. Remember to wash your hands afterward.
- Seal the waste inside a plastic bag (or two) and throw it in the garbage.
- Keep dog poop out of septic systems and sewer systems. These systems are designed for human waste only.
- Pick up after your dog in your yard every few days—more often if you have small children who play there.

Scoop the poop.
Bag it. Trash it.

We all need clean water.

We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Properly disposing of dog poop also helps you

- Keep pets healthy.
- Make yards and parks safer and more pleasant places to play.
- Keep your and your family's shoes clean.
- Keep out of trouble with local ordinances.
- Support a healthy watershed.

SPOKANE COUNTY

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WASHINGTON *waters*
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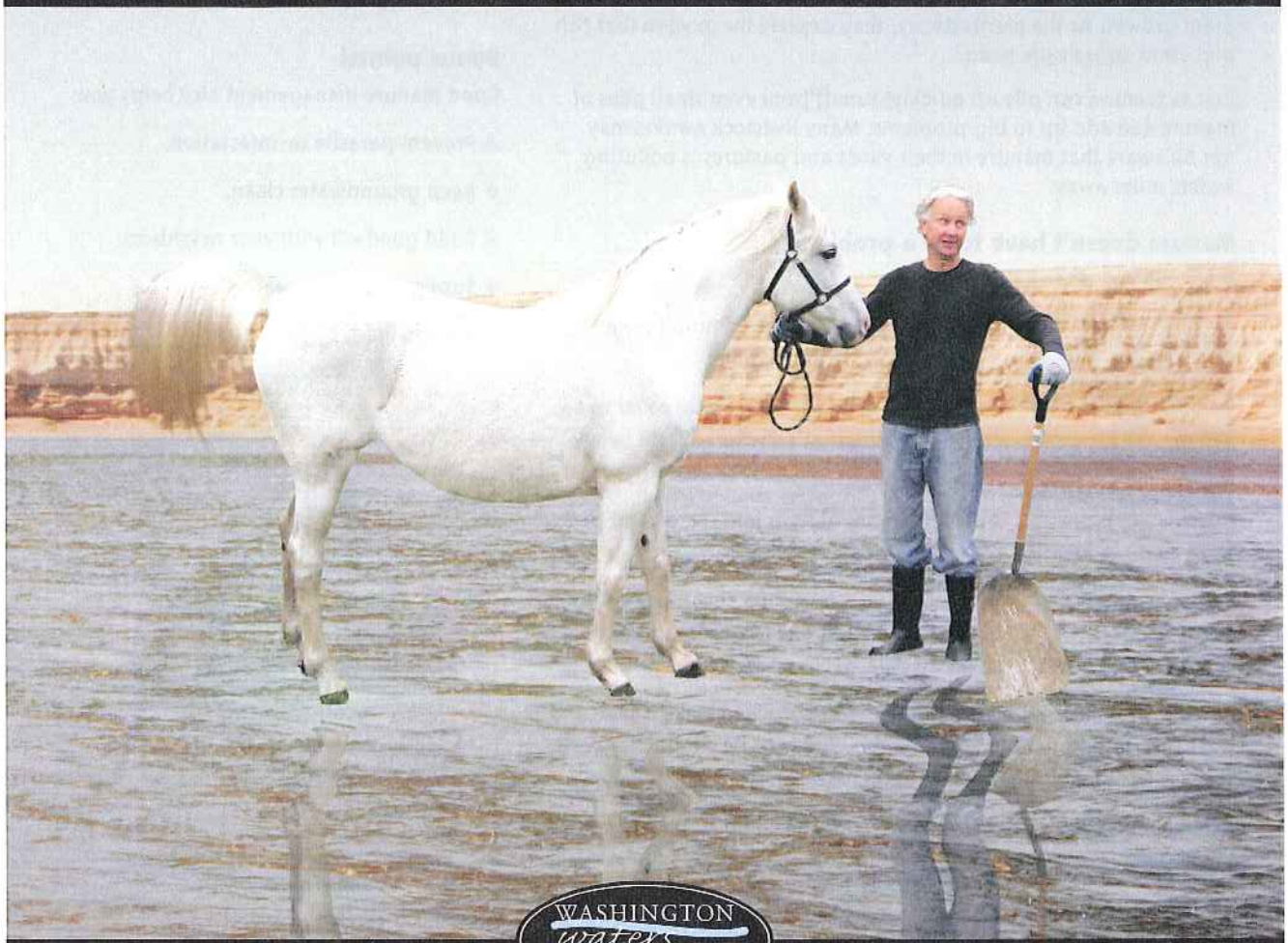
WHEN YOU LEAVE

MANURE OUT IN THE WEATHER,

REMEMBER

YOU'RE NOT JUST LEAVING IT

OUT IN THE WEATHER



WASHINGTON waters
OURS TO PROTECT
www.ecy.wa.gov/washington_waters

Water and manure are a bad combination. When rain, snowmelt or sprinkler water reaches manure, the runoff can make waters unsafe to drink and swim in, and promote algae blooms. Keep manure out of the weather and the water.

Manage manure.
Collect, cover and compost.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension, U.S. Environmental Protection Agency and Thurston County Stream Team.

When you leave manure out in the weather, remember you're not just leaving it out in the weather.

If you keep livestock, even just one or two, you have a special role to play in keeping our state's waters clean.

Livestock manure can be great fertilizer, but when it's exposed to rain, snow melt or irrigation water, it also can be a source of water pollution. Water running off manure carries nutrients and bacteria that cause problems when they enter Washington's waters.

Bacteria from manure can make water unsafe to drink or to swim in. Nutrients from manure can promote excessive algae and aquatic plant growth. As the plants decay, they deplete the oxygen that fish and other aquatic life need.

Just as manure can pile up quickly, runoff from even small piles of manure can add up to big problems. Many livestock owners may not be aware that manure in their yards and pastures is polluting waters miles away.

Manure doesn't have to be a problem.

What will you do to help?

- Use downspouts to direct runoff from buildings away from manure.
- Pile manure and keep it under cover in a convenient site that's sheltered from heavy winds.
- Pick up manure from farm yards and paddocks at least every 3 days.
- When using a tarp for a cover, use a durable, heavy-weight one large enough to fully cover the pile. Secure it well.
- Work with the local conservation district office to make a plan and learn how to best handle your manure. You may be eligible for cost sharing to put your plan into action.
- Build a compost system or have an off-site compost facility colle the manure.

Manage manure.
Collect, cover and compost.

We all need clean water.

We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Good manure management also helps you:

- Prevent parasite re-infestation.
- Keep groundwater clean.
- Build goodwill with your neighbors.
- Support a healthy watershed.
- Reduce mud.

SPOKANE COUNTY

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WASHINGTON *waters*
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WHEN YOUR HOME

SEPTIC SYSTEM FAILS,

REMEMBER

IT DOESN'T JUST FAIL AT HOME.

WASHINGTON waters
OURS TO PROTECT
www.ecy.wa.gov/washington_waters

A failed septic system is bad news for more than your pocketbook. Runoff can carry untreated sewage off site and into our state's waters. Regular upkeep can keep your system working as it should.

Your home septic system.
Check it, fix it, maintain it.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension, U.S. Environmental Protection Agency and Thurston County Stream Team.

When your home septic system fails, remember it doesn't just fail at home.

When your home's on-site septic system fails, it's more than a wet, stinky mess. It's expensive to repair and it's a health hazard to you, your family and your pets. And, the problem may not be limited to your yard. When you take care of your septic system, you are taking care of yourself, your wallet, and your community.

A good septic system takes care of most health or environmental threats posed by household sewage and wastewater. But septic systems need regular maintenance. Without it, they can fail and overflow. Runoff can then carry untreated sewage across your yard to your neighbor's property or into surface waters—lakes, streams, rivers or Puget Sound.

Public health impacts from failing septic systems can be widespread. Bacteria, viruses and other pollutants from the sewage can contaminate fish and shellfish and make water unsafe for swimming or drinking. Fishing and shellfish industries can be closed. Drinking-water wells and groundwater can be come contaminated. Beaches and waters can be closed for recreation, too.

A septic system doesn't have to be a problem. How will you help?

- Get regular inspections and maintenance. Check with your county Environmental Health office for advice. You may be able to do this work yourself. The current state Board of Health rule for on-site sewage systems requires a full evaluation every one to three years for a system consisting of a septic tank and a gravity drainfield. All other systems must have a yearly evaluation. You may not need to pump every time, but it's good to budget as though you will.

- Choose a date or time of the year for inspection that's easy to remember. Mark it on the calendar.

- Learn how to keep your system functioning —
what you can and can't flush or pour down the drain.
No pet waste, medications, grease or toxic chemicals.
If you have a garbage disposal, don't use it or use it sparingly.

- Keep trees at least 30 feet from edge of drainfield to keep their roots from invading. And never drive over the system.

- Watch for cues that your tank is nearing capacity or your system is failing. Got odors? Get someone out to check it right away. Then fix it, if needed.

- Conserve water. Too much can cause solids to escape your tank and plug your drainfield.

Your on-site septic system. Check it, fix it, maintain it.

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We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

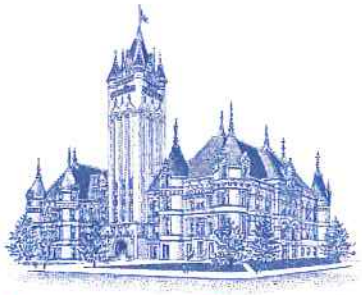
More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Maintaining your septic system also helps you:

- Save big bucks and protect your investment in your home.
- Keep groundwater clean.
- Maintain good will with your neighbors.
- Support a healthy watershed.



SPOKANE COUNTY

Spokane County Public Works
Division of Engineering and Roads
Stormwater Utility
1026 West Broadway Avenue, Spokane, WA 99260
509-477-3600 Main / 509-477-7655 Fax

WASHINGTON *waters*
OURS TO PROTECT
www.ecy.wa.gov/washington_waters

WHEN YOU TREAT THE LAWN

REMEMBER

YOU'RE NOT JUST

TREATING THE LAWN.

You treat the lawn. Then you turn on your sprinkler or it rains. Runoff carries fertilizers and pesticides into storm drains, ditches, lakes, and streams . That's bad news for fish and other aquatic life.

Treat with care.
Right dose at the right time.

A message from the Washington Departments of Ecology, Health, Washington Parks & Recreation Commission, Washington Conservation Commission, Puget Sound Partnership, WSU Extension, U.S. Environmental Protection Agency and Thurston County Stream Team.

When you treat the lawn, remember you're not just treating the lawn.

Many people use fertilizers, weed killers and pesticides to enhance their yards and gardens.

But If you use too much of these products or apply them at the wrong time, runoff can easily carry them from your lawn or garden into storm drains and ditches. From there they can end up in lakes, streams, rivers and marine waters.

Weed killers and pesticides are designed to kill plants and animals. However, when they get into our waters, they can kill plants and animals that are not a problem. Fish, amphibians and aquatic insects are vulnerable to these chemicals.

Like in the garden, fertilizer in lakes and streams makes plants grow. But too much algae and other aquatic plant growth can make boating, fishing and swimming unpleasant. What's more, as the algae and other plants decay, they use up the oxygen in the water that fish and other aquatic life need.

Lawn and garden care doesn't have to be a problem. What will you do to help?

- Read the label. Follow the instructions.
- Use fertilizer sparingly. Many plants don't need as much as you might think. Too much can even harm them. Also, roots, leaves and fruits need different nutrients. Test your soil to find the right dose and type to match the your plants' needs.
- Don't treat your lawn or garden right before a rainstorm. Don't water too much.
- Use slow-release fertilizers and other more environmentally friendly products.
- Try non-chemical alternatives. Use compost. Plant companion plants that deter pests. Pull weeds by hand. Use mulch. Trade lawn for native groundcover or shrubs.
- Get expert advice about lawn and garden products from Maste Gardeners at your county WSU Extension office.

Treat with care.

Right dose at the right time.

We all need clean water.

We drink it, fish in it, play in it. We enjoy all it adds to our lives. In fact, we need it to survive. Fish and wildlife do, too.

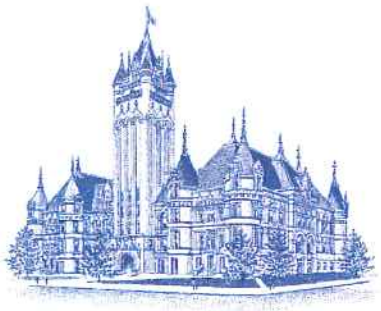
More than 60 percent of water pollution comes from things like cars leaking oil, fertilizers and pesticides from farms and gardens, failing septic tanks, pet waste, and fuel spills from recreational boaters.

All these small, dispersed sources add up to a big pollution problem. But each of us can do small things to help clean up our waters too—and that adds up to a pollution solution!

Bonus points!

Using fertilizers and pesticides sparingly also helps you:

- Save money.
- Make yards safer places to play.
- Support a healthy watershed.



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SPOKANE COUNTY
PUBLIC WORKS

DIVISION OF
ENGINEERING & ROADS
STORMWATER UTILITY

Good Housekeeping Practices

March 2009

Quick Facts

- Stormwater is the number one cause of water pollution in the country.
- One quart of used oil dumped into a storm drain can pollute a million gallons of water and create a slick the size of a football field.
- The U.S. loses 600 million tons of sediment per year. That is enough sediment to cover more than 400 football fields per day to a depth of 1 foot.

Glossary

Best Management Practices

Methods such as good housekeeping, spill prevention, or treatment measures to prevent or minimize pollutant discharges to the storm drain system.

Illicit Discharge

The discharge of non-stormwater to the storm drain system, thereby contributing to water pollution.

Storm-Drain System

Collects and transports rain and snowmelt via gutters, ditches, drywells, pipes, catch basins, etc., to prevent flooding in urban areas. Anything that flows or is discharged into the system goes directly to area streams, rivers, lakes, the aquifer, or other waters.

Urban Runoff

Rain and any other water that passes through and out of developed areas (streets, parking lots, roof tops, etc.) into the storm-drain system.

STORMWATER ISN'T JUST STORM WATER...

When we replace vegetated land with surfaces that water can not penetrate [such as streets, parking lots, and rooftops], rain water and snow melt no longer soaks into the ground but leaves the site as stormwater runoff. Stormwater washes along or dissolves materials in its path, becoming a transportation system for pollutants. Storm drains collect this stormwater runoff and carry it away to discharge points. Contrary to popular belief, most storm drains do not carry stormwater to wastewater treatment plants. Much of our stormwater eventually enters the underlying aquifer, a natural underground reservoir providing the drinking water to Spokane and surrounding areas.

Stormwater runoff can be a source of ground and surface water pollution. Stormwater contains sediments, metals (copper, cadmium, chromium, lead, zinc, etc.), nutrients (phosphorous and nitrogen), salts, petroleum products, food wastes, and coliform bacteria, to name a few. When introduced to our streams and lakes, these pollutants and debris prove toxic to plant and animal life, affect recreational activities such as boating and swimming, and can even increase flooding conditions.

Stormwater runoff eventually enters our rivers, lakes, and even the aquifer!

All residents and businesses can apply good housekeeping practices in their daily activities to reduce or eliminate stormwater pollution. The information on the reverse side of this page identifies some of these good housekeeping practices.

COMMON STORMWATER POLLUTANTS

Pollutant	Source
Sediments - silt, sand, and clay	Construction sites; bare spots in lawns and gardens; wastewater from sediment and other debris; washing cars and trucks on driveways or parking lots; dirt roads and driveways; unprotected stream banks and drainageways
Nutrients	Fertilizers; pet waste; grass clippings and leaves left on streets and sidewalks; organics burned in ditches
Disease organisms	Pet and wildlife waste; garbage
Hydrocarbons	Car and truck exhaust; leaks and spills of oil and gas; used oil dumping; burning leaves and garbage
Pesticides	Overapplication of or application before a rainstorm; spills and leaks
Metals	Cars and trucks (brake and tire wear, exhaust); industrial activities, galvanized metal gutters and downspouts

SPOKANE COUNTY PUBLIC WORKS

DIVISION OF ENGINEERING & ROADS STORMWATER UTILITY

1026 West Broadway Avenue
Spokane, WA 99260-7284

Phone: 509-477-3600
Fax: 509-477-7655

We're on the Web!

www.spokanecouty.org/Stormwater

BEST MANAGEMENT PRACTICES FOR GOOD HOUSEKEEPING

Storing Materials

- ✓ Place tight fitting lids on all containers.
- ✓ Check containers often for leaks or spills. Replace all bins and containers that are leaking, corroded, or otherwise deteriorating.
- ✓ Store containers in a manner that keeps leaks and spills from being washed into the storm-drain system.
- ✓ Store containers and materials inside a building, under a roof, or securely covered with a tarp to prevent contact with rain.
- ✓ Sweep storage areas frequently and dispose of dirt, debris, and waste in the trash. Do not hose down areas near a storm drain!

Dispose of liquid spills or waste properly, either in the trash or at the local hazardous waste collection site.

Preventative Maintenance

- ✓ Keep tools, equipment, and vehicles in good working condition.
- ✓ Regularly inspect equipment and vehicles for leaks (oil, radiator, transmission, etc.), and make repairs immediately.
- ✓ Use drip pans to catch leaks during maintenance activities.

Litter Control

- ✓ Pick up litter and waste daily, and dispose in trash receptacles.
- ✓ Prevent trash overflow by supplying adequate numbers of trash receptacles on site.

Waste Disposal

- ✓ Check dumpsters and trash receptacles regularly for leaks. Replace leaky or corroded dumpsters and trash receptacles immediately.
- ✓ Keep outside refuse container lids closed to keep rain out.
- ✓ Pick up and properly dispose of or compost leaves, grass clippings, and other yard waste.
- ✓ NEVER pour oil, antifreeze, paint, or any other toxic materials down the storm drain. Take them to approved hazardous waste collection sites.

Tool, Equipment, Vehicle, & Pavement Cleaning

- ✓ If possible, wash tools, equipment, and vehicles in a grassed area.
- ✓ Otherwise, discharge all wash water from paved areas to the sanitary sewer, a process treatment system, or holding tank.
- ✓ Sweep bare floors and paved areas often and dispose of the dirt and debris in the trash.
- ✓ Do not powerwash dirt, debris, or any other materials to the storm system.

Training (specifically for businesses)

- ✓ Train employees regularly on good housekeeping practices, especially where to locate and the use of spill control materials.
- ✓ Post "Good Housekeeping" literature in several locations on site.
- ✓ Assign a person to be responsible for effective implementation of BMPs.

For more information or assistance in implementing these best management practices, contact: Spokane County Public Works, Division of Engineering & Roads, Stormwater Utility at 509-477-3600.

SPOKANE COUNTY

YOU ARE THE SOLUTION TO STORMWATER POLLUTION
477-7525

SPOKANE COUNTY

Urban Runoff Pollution Prevention

SPOKANE COUNTY
PUBLIC WORKS

DIVISION OF
ENGINEERING & ROADS
STORMWATER UTILITY

April 2009

BE PART OF THE SOLUTION, NOT PART OF THE POLLUTION!

The health of our rivers, lakes, and aquifer depends on you!

Storm-drain systems are an essential network of channels and pipes that collect rainwater and snowmelt to prevent flooding of our streets, yards, and even our homes and businesses. Runoff in dry weather (i.e. irrigation, sprinklers, and residential car washing), also flows into storm drains.

Today, the number one source of water pollution is urban runoff, the water that flows from our streets and parking lots to the storm drain system. Each one of us, living and/or working in Spokane County, contributes small amounts of contaminants to runoff that can add up to a huge problem for the environment.

We can no longer point to "dirty" industries, waste treatment plants, or dumps and landfills as the only significant contributors to water pollution. In addition, industrial and commercial facilities have been cleaning up their operations for years now.

So, the protection and health of our waterways, including streams, lakes, and even the Spokane River, depends on you. It is up to every County resident and business to do their part and take simple steps to help eliminate runoff pollution.

Take a moment to review this handout to learn more about urban runoff. Remember, YOU are the solution to runoff pollution!

How Do We Contribute To Runoff Pollution?

Illegal Dumping

People sometimes look for a "shortcut" to dispose of used oil, antifreeze, detergents, or other wastes, and storm drains do seem like the easiest solution! But, hazardous products that are improperly disposed of in storm drains harms aquatic habitats and our drinking source, the aquifer, by adding toxic and/or nutrient enriching chemicals to the water. These products include pesticides, insecticides, and fertilizers; bleach; aerosols; drain cleaners; and certain detergents labeled "toxic."

Pet Waste

While many people believe animal waste is good fertilizer, it is actually a health hazard and shouldn't be composted for use in your home garden Pet waste contains parasites, bacteria, and viruses which, if left on the ground, contaminates stormwater and, ultimately, our rivers, lakes, and aquifer. Yuck!

Quick Facts

- Today, 40% of the waterways in the United States are not clean enough for fishing or swimming.
- The average home contains more than 6 gallons of materials that are potentially toxic to aquatic life.
- More than 100 million gallons of used motor oil are improperly disposed of every year.

WE HAVE A HOTLINE!

If you see someone polluting a storm drain or waterway . . .

CALL

509.477.7525

Glossary

Illicit Discharge

The discharge of non-stormwater to the storm-drain system, thereby contributing to water pollution.

Erosion

The washing or wearing away of surface soils primarily by the action of water.

Storm-Drain System

Collects and transports rain and snowmelt via gutters, ditches, drywells, pipes, catch basins, etc., to prevent flooding in urban areas. Anything that flows or is discharged into the system goes directly to area streams, rivers, lakes, the aquifer, or other waters.

Urban Runoff

Rain and any other water that passes through and out of developed areas (streets, parking lots, roof tops, etc.) into the storm-drain system.

SPOKANE COUNTY PUBLIC WORKS

DIVISION OF ENGINEERING & ROADS STORMWATER UTILITY

1026 West Broadway Avenue
Spokane, WA 99260-7284

Phone: 509-477-3600
Fax: 509-477-7655

www.spokanecounty.org / Stormwater

SPOKANE COUNTY

YOU ARE THE SOLUTION TO STORMWATER POLLUTION
477-7525

HOW WE CONTRIBUTE TO RUNOFF POLLUTION... *(CONTINUED)*

Construction Projects

Disturbing soil and vegetation during construction increases erosion. The major stream pollutant by weight and volume is sediment. In addition to creating murky water conditions, sediment carries with it metals, pesticides, and nutrients which have a tendency to bind onto the soil particles. This nutrient input leads to the depletion of oxygen in our surface waters. When that happens, fish and other aquatic life suffocate!

Automobiles

Oil, grease, radiator fluid, antifreeze, and copper dust from brake pads are just a few of the common pollutants automobiles contribute to urban runoff pollution. Improperly maintained vehicles deposit oil, hazardous fluids, and air particulates which fall onto our streets and make their way into our storm drain system. Oh, and not to mention pollute the air we breathe!

Landscaping

Blowing, hosing, or otherwise moving grass clippings and leaves into the street not only clogs storm-drains inlets, but adds too much decomposing material to water which depletes oxygen in our rivers and lakes. Additionally, *over*-applying pesticides and fertilizers simply allows more chemicals to wash away during a rainstorm.

Home Maintenance

Washing building fascia, driveways, and sidewalks; and wet cutting stone and tile all contributes polluting sediments to our waterways. This wash water should be diverted to a grassy area where it can be absorbed by and filtered into the ground. Additionally, disposing of excess building materials (i.e. unused stucco, cement, paint, grout, dry wall mud, etc.) into the street clogs storm-drain inlets and pipes when they harden.

For more information on urban runoff pollution prevention contact:
Spokane County Public Works, Division of Engineering & Roads, Stormwater Utility at 509-477-3600

A FEW OF THE CONSEQUENCES OF URBAN RUNOFF POLLUTION...

SPOKANE COUNTY

STORMWATER MANAGEMENT FACT SHEET

The Problem: As Spokane County (County) urban areas grow we have more rooftops, driveways, streets and other hard surfaces. Homes, businesses and streets are being constructed on hillsides, in areas where water used to pond and soak into the ground and in or near ravines where stormwater needs to flow. Development is also occurring in areas where handling additional stormwater on the development site is difficult due to poorly draining soils, bedrock, or perched water tables close to the ground surface. Rain and melting snow on roads and parking lots carry contaminants that can pollute our aquifers, streams and lakes. Seasonal flooding is a problem for many homeowners in areas where soils cannot handle the increased runoff. More stormwater is running off after land is developed, but fewer options are available for handling it. Many new developments have to rely on large evaporation ponds that are viewed as economically undesirable and unsightly.

Stormwater Utility History: In the late 1970s, the County recognized that as the community grew, stormwater impacts would need to be addressed with new development to reduce potential flooding problems and to protect the Spokane-Rathdrum Aquifer. Through the 1970s, each new development or road generally included rudimentary drainage facilities to partly serve the development or road. Since infiltration rates were high on the valley floor where most development was occurring, drywells were usually the preferred method of disposing of stormwater runoff. In other cases, runoff from developing sites was channeled onto nearby farmland or vacant rural land. As development densities increased and began moving into areas with poor natural infiltration rates, drywells no longer worked effectively. Stormwater related problems became evident. As awareness about the Aquifer grew, the County began to require pre-treatment of runoff prior to disposal to drywells. The County also implemented guidelines for the control of stormwater runoff in new developments.

In 1983 the Board appointed a citizens committee (later named the Citizens Committee on Stormwater Management, CCSM) to examine the stormwater situation in the County and to recommend a publicly acceptable method of financing and managing a long-term stormwater program for the urbanizing community.

The CCSM concluded that the County needed a comprehensive stormwater program to plan, construct and maintain regional stormwater systems. The CCSM recommended policies and actions to move toward a comprehensive stormwater program. In the mid 1980s, the CCSM held public meetings and workshops to discuss their recommendations. The Board approved the CCSM recommendation that a feasibility study be prepared for a comprehensive stormwater management program.

After the completion of the feasibility study, a Cost of Service Rate Study and public workshops, presentations and a public hearing in 1992 the Board established a Stormwater Utility and approved a stormwater rate ordinance. A specific Stormwater Service Area (SWSA) was adopted, within which stormwater services would be provided and fees would be charged. The next year, the County Treasurer's Office mailed the first stormwater bills.

In the 1990s and early 2000s the County completed a strategic stormwater management plan and several watershed or basin plans for Chester Creek, Glenrose, Central Park, North Spokane and West Plains. Each of the plans evaluated options for handling increasing stormwater needs of the developing basins. The plans recommended the facilities that would be most effective in the basins and described the costs associated with facility construction. Each of the plans received substantial public input during development, but the basin plans were not formally adopted since no funding was available for plan implementation. As opportunities arose, the County did, however, acquire properties indicated by the basin plans as being needed for future stormwater facilities.

In 2003 Economic and Engineering Services, Inc. (EES) was retained by Spokane County to perform a funding analysis and rate study to implement a regional stormwater management strategy. The study examined the adequacy

of existing rates, projected future rates, evaluated alternative rate structures and developed several options for funding stormwater capital improvement projects.

The Board directed utilities staff and the consultant to present the study analysis and options to the county's Development Task Force for review and recommendation. The Development Task Force (DTF), supported by the Board to advise them on development related issues, included developers, homebuilders, private engineers, neighborhood association representatives and county staff. During January through June of 2004, the consultant and staff discussed funding options with the DTF. In June the DTF recommended that the Board proceed with funding a regional stormwater management program through increased stormwater rates, by issuing bonds and by implementing System Development Charges (SDCs). SDCs are a mechanism for the development community to participate in financing capital improvement projects. After the public hearing in August 2004, the Board of County Commissioners adopted a funding option for constructing regional stormwater facilities.

Funding for Regional Stormwater Facilities: Regional stormwater facilities are grass lined ditches, ponds, pipes and other means of conveying, cleansing and disposing of stormwater runoff. Regional facilities are like a "backbone" -- the major system to which smaller ditches, natural drainageways and pipes can be connected. The facilities will lessen flooding in existing neighborhoods and will provide a safe means of disposing of runoff from new developments envisioned by the County's comprehensive land use plan.

Stormwater Service Charges: Annual stormwater rates are based on an Equivalent Residential Unit (ERU) measurement. Parcels with the drainage characteristics of a single-family parcel receive a flat rate. The average single-family residential parcel in Spokane County has 3,160 square feet of hard (impervious) surfaces. This is defined as 1 ERU. The rate for 1 ERU is determined by service area, as described below.

Stormwater service charges for businesses, industries, farms, apartment buildings and other non-residential land uses are calculated based on their impervious coverage as compared to the average single-family residential unit. For example, if a commercial parcel has four times more impervious coverage than a residential parcel, it is charged four times the single-family rate for the drainage service area.

Annual charges are based on the specific rates for each of the service areas as shown below. Maps of the specific service areas are available from Spokane County Engineering & Roads, Stormwater Section.

	Annual Rate per Equivalent Residential Unit		
Drainage Service Area	**2005**	**2006**	**2007**
Glenrose	$49.00	$58.00	$63.00
North Spokane	$31.00	$37.00	$40.00
West Plains	$38.00	$45.00	$48.00
Remainder of service area	$17.00	$20.00	$21.00

System Development Charges: SDCs support a "growth pays for growth" concept. Generally, SDCs are one-time charges new developments pay for access to the regional stormwater system. SDCs are based on the number of ERUs or the amount of impervious surface anticipated in a development.

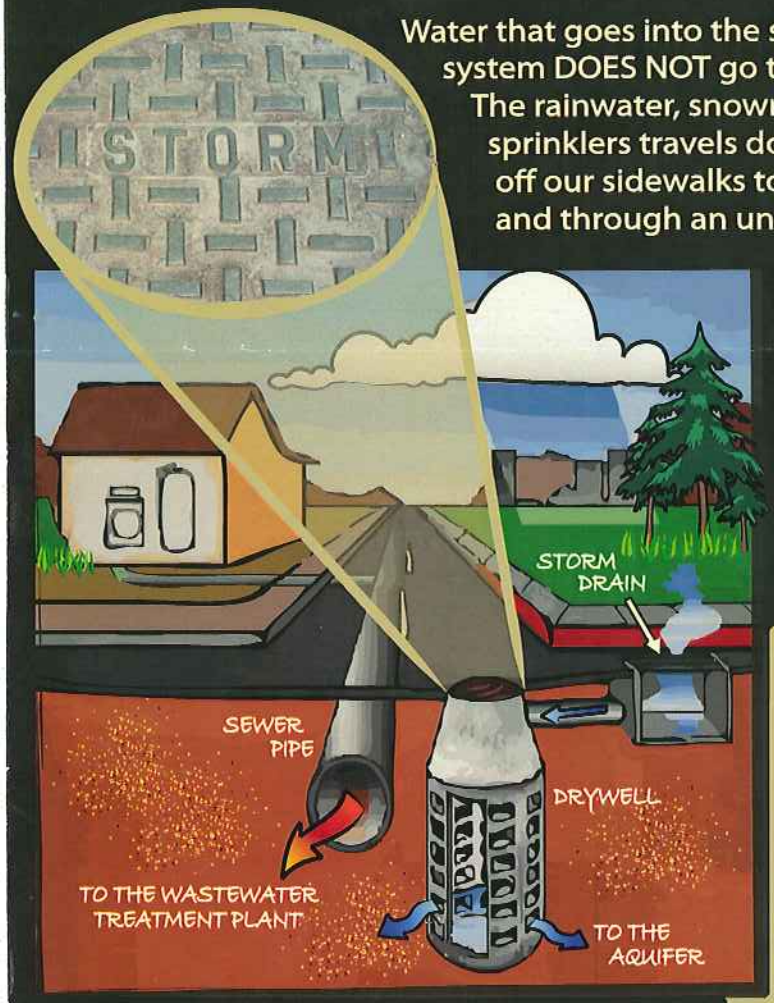
Schedules for Constructing Regional Stormwater Facilities: The Stormwater Management Plans for Glenrose, North Spokane and West Plains identify needed regional stormwater facilities and a 20-year timeline for construction. In 2005, the Stormwater Section is developing a 6 year capital improvement plan that will specify construction projects to occur from 2005 through 2010.

Additional Information:

Spokane County Stormwater Utility
Public Works Building
1026 W. Broadway
Spokane, WA 99260
(509) 477-3604
www.spokanecounty.org/utilities/stormwtr/

STORMWATER VS. WASTEWATER...

In Spokane County, wastewater collection and stormwater systems are separate. Wastewater is the used water that drains from our toilets, sinks, bathtubs, and dishwashers. The wastewater travels through sewer pipes to a wastewater treatment plant where it is treated to strict quality standards before it is released into the Spokane River.



Water that goes into the stormwater system DOES NOT go to a treatment facility. The rainwater, snowmelt, or water from our sprinklers travels down our driveways and off our sidewalks to a storm drain, then to and through an underground pipe system where it empties into a drywell.

The drywell chamber will store stormwater until it infiltrates into the surrounding soil.

SO, WHERE ARE THESE DRYWELLS?

LOOK FOR A METAL LID IN THE ROAD THAT SAYS:

STORM

THERE'S PROBABLY A DRYWELL RIGHT UNDERNEATH!

POLLUTION IN STORMWATER

As stormwater flows over the ground, it picks up and carries natural and human-made pollutants.

These pollutants include:

INSECTICIDES

Fertilizers

Herbicides

Motor oil

GREASE

Soap

PAINT

Yard Waste

Leaves

Grass Clippings

Pool chemicals

PET WASTE

DIRT

Sand

SOIL

PREVENTING STORMWATER POLLUTION

You can help prevent pollution from getting into storm drains! Some DOs and DON'Ts...

DO

- Wash your car on the lawn
- Use a broom to sweep up dirt and debris
- Compost or mulch leaves and grass clippings
- Apply lawn and garden chemicals sparingly

DON'T

- Wash your car on the driveway or in the street
- Place leaves and grass clippings in street gutters or storm drains
- Apply lawn chemicals before a rain event
- Powerwash dirt, spills, or leaks into the street

WHAT IS A STORM DRAIN?

EXAMPLE OF A STORM-DRAIN GRATE

Storm drains are rectangular or round grates that are placed in the street, normally near the edge or curb. Rain, snowmelt, or water from our sprinklers carry pollutants as it flows down our driveways and streets into these grates.

Unlike the water that goes down your sink or bathtub drain to the sewer, water that flows into County storm drains IS NOT treated or filtered for pollutants.

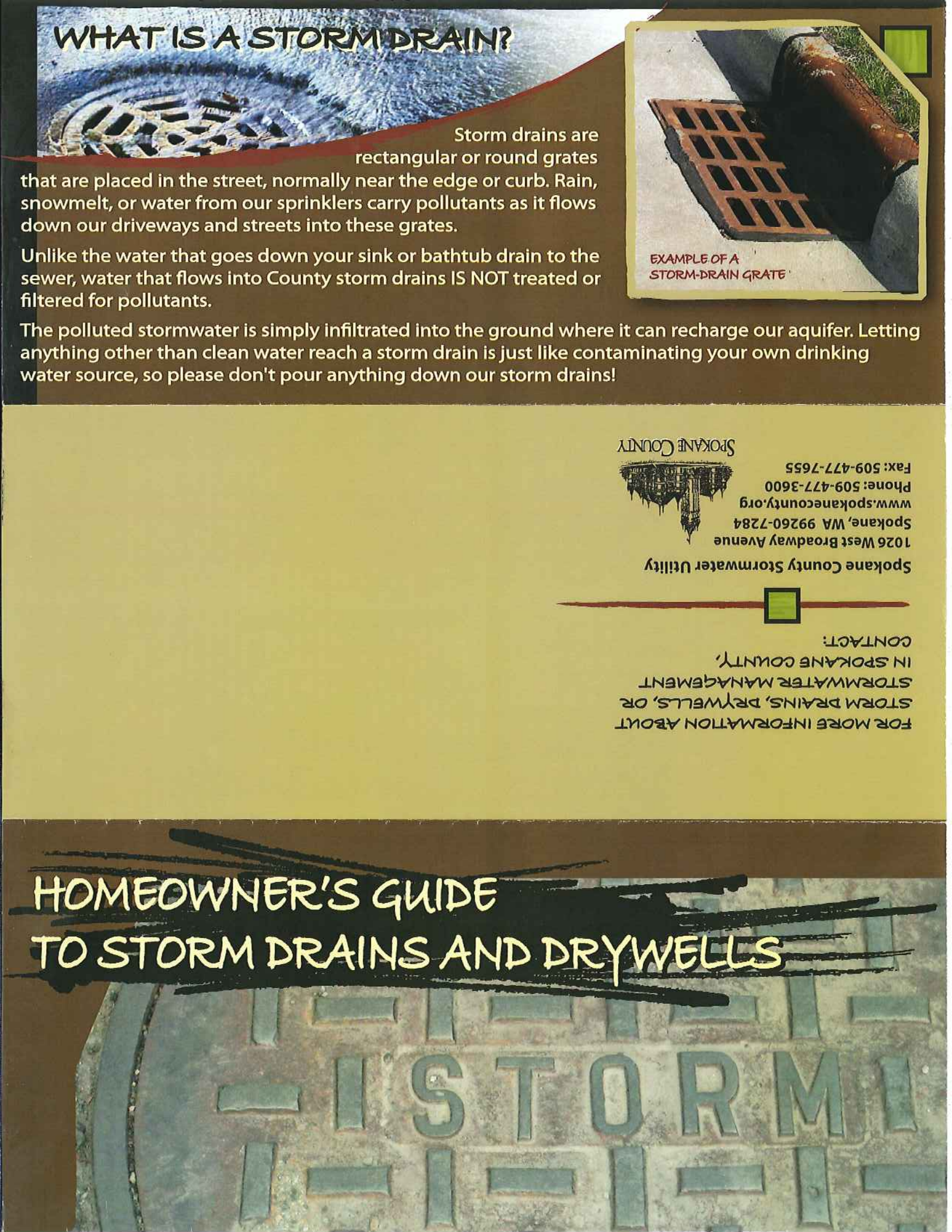
The polluted stormwater is simply infiltrated into the ground where it can recharge our aquifer. Letting anything other than clean water reach a storm drain is just like contaminating your own drinking water source, so please don't pour anything down our storm drains!

FOR MORE INFORMATION ABOUT STORM DRAINS, DRYWELLS, OR STORMWATER MANAGEMENT IN SPOKANE COUNTY, CONTACT:

Spokane County Stormwater Utility
1026 West Broadway Avenue
Spokane, WA 99260-7284
www.spokanecounty.org
Phone: 509-477-3600
Fax: 509-477-7655

SPOKANE COUNTY

HOMEOWNER'S GUIDE TO STORM DRAINS AND DRYWELLS



SPOKANE June 11, 2013 | EASTERN WASHINGTON LID GUIDANCE MANUAL TRAINING

		Name (printed)	Sigature	City ▪ County ▪ Company
X	1	SAMUEL BARHAM	[signature]	CITY OF SPOKANE
X	2	Brad Baugh	[signature]	WSU
X	3	RAY PLUMMER	[signature]	USKH INC
	4	Russ Counde	[signature]	SPOKANE COUNTY
	5	Jake Dial	[signature]	URS
X	6	JACQUI HALVORSON	JDHalmson	URS
staff	7	Erick Fitzpatrick	[signature]	AHBL
	8	Rachel Hodgson	Rachel Hodgson	AHBL
X	9	Terry Wittmeier	[signature]	ECY
X	10	GREG MILLER	Greg Miller	Adams & Clark Inc.
	11	Kevin Kunz	[signature]	Aroura LLC
X	12	Jeff Gilstrap	[signature]	City of Spokane
X	13	ERIK JOHNSON	[signature]	CITY OF SPOKANE
X	14	Tirren Black	Tirren Black	City of Spokane Planning
X	15	Sandy Phillips	[signature]	Spokane Regional Health Dist
X	16	MIKE LASCUOLA	[signature]	Spokane Regional Health
X	17	Tim Coles	[signature]	City of Spokane
X	18	KIM PRISOCK	[signature]	USKH
X	19	Lynn Schmidt	[signature]	City of Spokane
X	20	VINCENT McINTYRE	[signature]	PULLMAN, WA - WSU
X	21	Doug Howie	[signature]	Lacey, WA - Ecology
	22	DAVID DUNCAN	present didn't sign in	ECY

SPOKANE June 11, 2013 | EASTERN WASHINGTON LID GUIDANCE MANUAL TRAINING

		Name (printed)	Sigature	City • County • Company
X	23	Cindy Kinzer		city of Spokane
X	24	Jeanne Finger	Jeanne L Finger	N/A
X	25	Mary O'Hara	Mary K O'Hara	Emkayo Engineering
X	26	Carrie Anderson	Carrie E Anderson	Spokane, WA
X	27	Judy Nilsson	Judy Nilsson	Pullman.
X	28	Bill Peacock	Wm R Peacock	City of Spokane
X	29	Dan Layh		E.I Terra -
X	30	Gene Patterson		WSU Pullman
X	31	Greg Lahti		WSDOT
X	32	Mary E May	Mary E May	Spokane Valley
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		Name (printed)	Sigature	City ▪ County ▪ Company
X	45	Joelie Eliason	J. Eliason	City of Spokane
X	46	Mike Nilsson	[illegible]	City of Spokane
X	47	Cheryl Sonnen	Cheryl Sonnen	Asotin County
X	48	Lindsay Myron	[illegible]	Pullman, Whitman, WSU
X	49	Kyle Tilton	Kyle Tilton	Pullman, Whitman, WSU
X	50	Ted H Hamlin	Ted H Hamlin	WSDOE Spokane
X	51	Mike Yate	[illegible]	SDS.
X	52	Gloria Manto	[illegible]	Spokane Valley
staff	53	TANYALEE ERWIN	[illegible]	WSC
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Tri-Cities June 12, 2013 | EASTERN WASHINGTON LID GUIDANCE MANUAL TRAINING

		Name (printed)	Sigature	City • County • Company
X	1	JACK ARNOLD		COR.
X	2	DAN HOLLRAH		WSDOT
X	3	MIKE ROODIGER		WSDOT
X	4	BILL AUKETT		CITY OF MOSES LAKE
X	5	Fernando Garcia		CITY OF KENNEWICK
X	6	Greg Elder		WSDOT
X	7	Becky Wiegman		WRPS
X	8	Robert Blair		City of Pasco
X	9	KHOA TRUONG		City of Pasco
X	10	Casey Mabley		Mabley + Assoc
X	11	CRAIG JONES		CITY OF ELLENSBURG
X	12	MIKE MESKIMEN		GRAY + OSBORNE
X	13	Joy Bader		Walla Walla County
X	14	Julie Heidman-Searcy		WSDOT
X	15	Carly Winz		WSDOT
X	16	JEREMY HOWARD		WSDOT
X	17	Vincent Wen		WSDOT
X	18	Russell Craven		WSDOT
X	19	Sam Robert		WSDOT
X	20	Rick Door		JUB ENGINEERS
X	21	Jeff Jenson		Harms Engineering
X	22	DAVID TANNER		CITY OF PASCO

		Name (printed)	Sigature	City • County • Company
X	45	Luke Assink		WSDOT
X	46	Ron Burke		WSDOT
X	47	STU SASLOW		PNNL
X	48	Paul Inwards		JUB
X	49	Brad Daly		City of Walla Walla
X	50	BRYAN WOODARD		CITY OF WEST RICHLAND
X	51	JOE MURAT		Murau Engr & Design
X	52	Kate Thompson		City of Pasco
X	53	Jason Reece		Anderson Perry
X	54	Terry Wittmeier		Ecy
X	55	John Deskins		Kennewick
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WENATCHEE June 13, 2013 | EASTERN WASHINGTON LID GUIDANCE MANUAL TRAINING

		Name (printed)	Sigature	City • County • Company
X	1	Bob Culp	Robert A. Culp	Munson Engineers
X	2	Stephanie Ray	Stephanie Ray	Yakima, Yakima Herald-Republic Journal
X	3	GREG PETERSON		DOUGLAS COUNTY TRANSPORTATION
X	4	Brandon Mauseth		City of East Wenatchee
X	5	Erik Howe		RH2
	6	Erick Fitzpatrick		HBC
X	7	Brett Shearer	Brett M Shearer	Bonneville Power
X	8	Nate Rothrock		Crunch Pak
X	9	Cary Bires		City of Leavenworth
X	10	Peter Burgoon		PACE Engineers
X	11	MATIAS RUDBACK		PACIFIC ENGINEERING + DESIGN
X	12	Jennifer Lange	Jennifer Lange	Douglas County
X	13	Jeff Sutton		Erlandsen
X	14	Brian Cochrane		Yakima County
X	15	DOUG HOWIE		ECY
	16			
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WENATCHEE June 13, 2013 | EASTERN WASHINGTON LID GUIDANCE MANUAL TRAINING

		Name (printed)	Sigature	City • County • Company
X	23	Damon Nelson		Douglas County TLS
X	24	Paula Dinnis	Paula Dinnis	WSU Chelan Co.
X	25	Theo Burgoon		Forsgren Assoc.
X	26	JASON DETAMORE		CHELAN COUNTY PW
X	27	Stephanie Flowers		RH2
X	28	Todd Denko		Crunch Pad
X	29	Dave Schettler		City of Leavenworth
X	30	Heather Ostencar		Project Groundwork
X	31	Terry Wittmeier		Ecology
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Public Involvement and Participation
Actions - 2013

Spokane County has a solid history of public involvement and participation in the development and revision of stormwater policies and procedures. Perhaps the most significant recent activities involved the public process efforts before the Spokane County Planning Commission and Spokane County Commissioners on the new Spokane Regional Stormwater Manual. See Spokane County NPDES Phase II Permit and Annual Report for details.

Contents:

1. Spokane Regional Stormwater Manual - Public Involvement and Participation Documentation *Summary Sheet.*

2. The Spokane Regional Stormwater Manual (SRSM) is available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/data/engineers/SRSM_Apr08Final/SRSM_April2008Final.pdf

3. Spokane County Code Revisions for IDDE Ordinance - Public Involvement and Participation Documentation *Summary Sheet.*

4. Spokane County Code Revisions for IDDE Ordinance are available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/loaddoc.aspx?docid=4256

5. Spokane County Stormwater Management Program is available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/loaddoc.aspx?docid=5080

6. Spokane County Eastern Washington Phase II Municipal Stormwater Permit - Annual Report is available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/loaddoc.aspx?docid=4922

7. Spokane County Stormwater Awareness Survey and Summary Report. A survey designed to gage the knowledge of the public regarding stormwater pollution and related topics was distributed to various citizens within the Stormwater Service Area. A copy of the survey is attached as well as a Survey Summary Report.

8. Eastern WA NPDES Coordinator's Forum Meetings. Agenda and Attendance Sheet.

Please Note: Meeting Start Time is 10:00am

E. WA Stormwater Coordinator's Group (EWSCG)
Meeting Agenda

10:00am to 3:00pm
Thursday, September 19, 2013
The Links at Moses Pointe
4524 Westshore Drive, Moses Lake, WA 98837

Agenda Items:

10:00am **Welcome & Introductions** – ***Russ Connole, Spokane County***

10:05 **2013 Municipal Stormwater Grants of Regional or Statewide Significance**

- E. WA LID sizing tool development (Spokane County)
- E. WA monitoring plan development (Spokane County or some other volunteer??)
- E. WA Educational Program (potentially based on Franklin County Conservation District Education Model)??
- Statewide Decant Facility Grant Proposal (King County)
- others??

Noon ***Lunch (Buffet)** ($15/person, provided by *The Steakhouse at Moses Pointe* – ***please rsvp to Russ by Noon on Tuesday, Sept 17th***)

1:15pm **2013 Capacity Grants – Planning and Design Project Discussion**

1. Overview; funding available - $120,000 per jurisdiction
2. Schedule
   - October 1, 2013 Project Summary to Ecology
   - January 31, 2014 Pre-design Report to Ecology
   - August 1, 2014 90 percent design plans to Ecology
3. Design Requirements
   - *2004 Stormwater Management Manual for Eastern Washington* (SWMMEW)
   - *Eastern Washington Low Impact Development Manual*
4. Eligible Projects – Jurisdictional Project Discussion
5. Ineligible Projects – General Discussion, Guidelines Review
6. Project Ideas for E. WA jurisdictions

2:30 **Washington Stormwater Center, Municipal Resource Program** – Municipal Services and Grant Partnerships; Tanyalee Erwin

2:45 **Water Quality Standard Rulemaking Process, Fish Consumption Rate** - Forum #7 (Sept. 12th) Discussion

Please Note: Meeting Start Time is 10:00am

2:55 **Other business, announcements/closing**

3:00 **Adjourn**

Note: No call-in number will be available for this meeting.

*Lunch Buffet: *(Optional for all Attendees)*
Choice of 2 homemade soups. Clam Chowder, Chicken with Rice
Sandwich Bar, including sourdough rolls, sliced turkey, ham, prime rib
Cheddar, Swiss, and provolone cheeses, onion, tomato, lettuce
Garden Salad
Homemade potato salad
Cookies and non-alcoholic drink included
(note: $15 price does not include tax or gratuity)

Please Note: Meeting Start Time is 10:00am in Ellensburg, WA

E. WA Stormwater Coordinator's Group (EWSCG)
Meeting Agenda

10:00am to 3:00pm
Thursday, November 21, 2013
City Hall – City Council Chambers
501 North Anderson Street
Ellensburg, WA 98926

Agenda Items:

10:00am	**Welcome & Introductions – *Russ Connole, Spokane County***
10:05	**2013 Municipal Stormwater Grants of Regional or Statewide Significance Updates** • City of Spokane - PCBs in Municipal Products • Asotin County - Stormwater Education Program • City of Spokane Valley - E. WA Effectiveness Study Development • Washington State Stormwater Conference
11:00	King County Decant Facility Presentation and Question Session – Jake Finlinson, Environmental Scientist, King County Regional Stormwater Decant Program
Noon	**Lunch Break**
1:15pm	Morning Session Follow-Up
1:30	City of Ellensburg Decant Facility Presentation and Field Trip - Jon Morrow, Stormwater Utility Manager
3:00	**Adjourn**

Note: No call-in number will be available for this meeting.

Please Note: Meeting Start Time is 10:00am

E. WA Stormwater Coordinator's Group (EWSCG)
Meeting Agenda

10:00am to 3:00pm
Thursday, April 18, 2013
The Links at Moses Pointe
4524 Westshore Drive, Moses Lake, WA 98837

Agenda Items:

10:00am	Welcome & Introductions – *Russ Connole, Spokane County*
10:05	E. WA LID Guidance Manual, Project Update by AHBL
10:35	New NPDES Permit (Effective August 1, 2014) – Review upcoming compliance dates and actions

- Non-structural preventive actions and source reduction approaches such as LID, by 12-31-17
- IDDE; Field Screening, inspect 40% of MS4 by 12-13-18, Ordinance by 2-2-19
- O&M; Catch basin & inlet inspections, once by 12-31-18, once every 2 years thereafter
- Monitoring; by 6-30-16 submit to Ecology 12-15 ranked effectiveness study ideas and list lead entities and other Permittees that will participate
- TMDL Appendix 2 requirements (specific to various jurisdictions)

Noon	**Lunch Break (on your own)**
1:15pm	Erlandsen Presentation, asset management IDDE tracking software
2:00	Water Quality Standard Rulemaking Process, Fish Consumption Rate discussion/question development in preparation of April 25, 2013 video conference with Ecology
2:45	EWSCG goals and objectives 2013
2:55	Other business, announcements/closing
3:00	Adjourn

Note: No call-in number will be available for this meeting.

Please Note:* *Meeting Start Time is 9:00am

Eastern Washington LID-SAG
and E. WA Stormwater Coordinator's Group (EWSCG)
Meeting Agenda

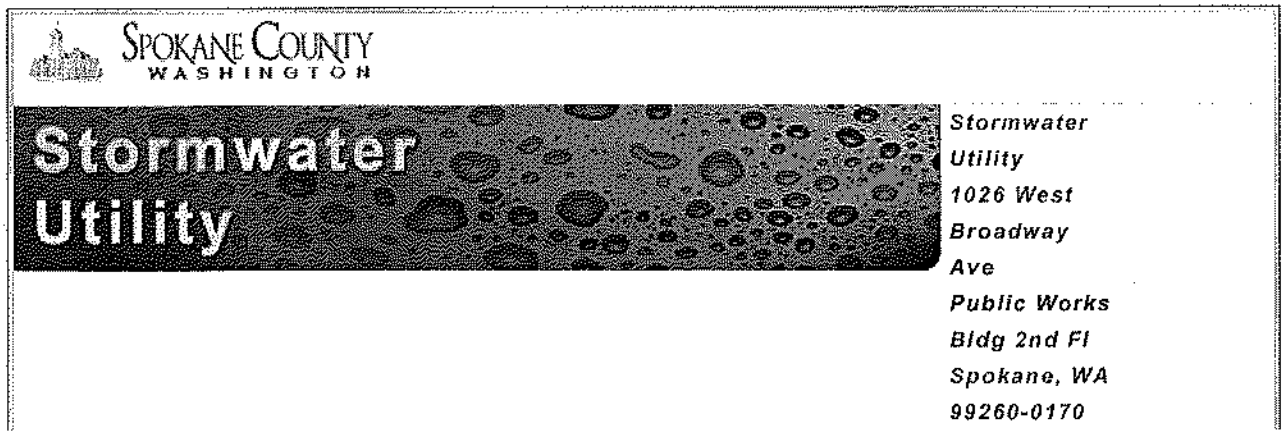
9:00am to 3:00pm
Thursday, March 21, 2013
The Links at Moses Pointe
4524 Westshore Drive, Moses Lake, WA 98837

Agenda Items:

9:00am	Welcome & Introductions – *Russ Connole, Spokane County*
9:05	LID-Stakeholder Advisory Group meeting with AHBL on the Eastern WA LID Guidance Manual
*Noon	**Working Lunch (Buffet)** ($15/person, provided by *The Steakhouse at Moses Pointe* – ***please rsvp to Russ by Noon on Tuesday, March 19th***)
	Update on the Illicit Discharge Detection and Elimination (IDDE) Field Screening Manual for the State of Washington; Rebecca Dugopolski, P.E. Herrera
1:15pm	Washington Stormwater Center, Municipal Resource Program presentation; Tanyalee Erwin and Craig Doberstein
2:30	Franklin Conservation District Education and Outreach Program
2:45	Water Quality Standard Rulemaking Process, Fish Consumption Rate discussion/question development in preparation of April 25, 2013 video conference with Ecology
2:55	Other business, announcements/closing
3:00	Adjourn

Note: No call-in number will be available for this meeting.

*Lunch Buffet: *(Open to all Attendees)*	Choice of 2 homemade soups, Clam Chowder, Chicken with Rice Sandwich Bar, including sourdough rolls, sliced turkey, ham, prime rib Cheddar, Swiss, and provolone cheeses, onion, tomato, lettuce Garden Salad Homemade potato salad Cookies and non-alcoholic drink included (note: $15 price does not include tax or gratuity)



Permits and Regulations

NPDES Phase II Stormwater Permit

Under a directive from the EPA, the Washington State Department of Ecology issued Spokane County a National Pollutan Discharge Elimination System (NPDES), Eastern Washington Phase II Municipal Stormwater Permit (NPDES Permit) in February 2007. The guiding law behind the NPDES Permit is the Federal "Clean Water Act," which regulates the discharge of pollutants to waters of the United States.

If you are interested in reviewing the Eastern Washington Phase II Municipal Stormwater Permit (NPDES Stormwater Permit), it is available on Ecology's website at:: www.ecy.wa.gov/programs/wq/stormwater/municipal/phaseiiEwa/MODIFIEDpermitDOCS/EWpermitMODsigned.pdf

NPDES - Pollution Prevention Ordinance

On July 21, 2009 the Spokane County Board of of County Commissioners approved amendments to *Spokane County Code, Chapter 9.14, Roads, Approach and Drainage in New Construction*, to meet the state mandated pollution preventior requirements of the Eastern Washington Phase II Municipal Stormwater Permit (NPDES Permit). This ordinance is designed to prevent water pollution and protect water quality within our rivers, lakes, streams, and aquifer. View Spokane County Code, Title 9, Chapter 9.14.

Stormwater Management Program

Between 2007 and 2012, Spokane County is required to accomplish tasks associated with six (6)minimum control measures: education and outreach; public involvement and participation; illicit discharge detection and elimination; construction site runoff and post construction management; and pollution prevention and good housekeeping for municipal operations. To learn more about the NPDES Permit and minimum control measures visit: http://cfpub.epa.gov/npdes/index.cfm .

In accordance with the NPDES Permit, Annual Reports have been completed annually and submitted to the Department o Ecology. Each Annual Report includes an updated draft copy of the Spokane County Stormwater Management Program (SWMP). The SWMP is currently a public working document until formal adoption procedures are completed prior to the end of the five year permit cycle in 2012. The Annual Report is too large to be linked for public access. The link below wil take you to the Spokane County Draft Stormwater Management Program. Both documents are available for public review and comment. Contact Russ Connole, Project Manager, at (509) 477-7245 or email rconnole@spokanecounty.org.

2011 Stormwater Management Program

Stormwater Operations and Maintenance Plan

In 2010, the NPDES Permit required the development of a Stormwater Operations and Maintenance Plan (O&M Plan) for municipal operations. The O & M Plan includes all Spokane County departments' facilities, properties and related activities that have the potential to impact surface water quality.

The NPDES Permit requires implementation of all activities described within the O&M Plan by August 15, 2011. The plan's requirements are described within the NPDES Permit under "Pollution Prevention and Good Housekeeping for Municipal Operations" (S5.B6.). Click the link provided to view the O & M Plan:
Spokane County Stormwater O&M Plan

Who Needs Construction Stormwater Permit Coverage?

Please answer the following questions:

1. Does your construction project disturb one or more acres of land through clearing, grading, excavating, or stockpiling of fill material? Remember to count the cumulative acreage of the entire project whether in a single or in a multiphase project. This applies even if you are responsible for only a small portion [less than one acre] of the larger project planned over time.
2. Is there any possibility that stormwater could run off your site during construction and into surface waters or conveyance systems leading to surface waters of the state? In almost every case, the answer to this question is yes.

   However, if the topography and location of your site is such that there is no possibility that rainfall or snowmelt could leave the site or enter a waterway, it is likely that you will not need permit coverage. If you answered "yes" to both of these questions, contact the Dept. of Ecology to determine if you will need a permit. Construction site operators must apply for a permit 60 days prior to discharging stormwater.

   For more information visit: http://www.ecy.wa.gov/programs/wq/stormwater/construction/ .

   If a Construction General Permit is required by The Dept. of Ecology, you will need a Certified Erosion and Sediment Control Lead (CESCL) to monitor stormwater controls on your construction site. To access the CESCL training calendar, click here: CESCL Calendar

Underground Injection Control (UIC)

Underground Injection Control are also known as "dry wells".

The Underground Injection Control program was created by Congress to protect underground sources of drinking water from discharges of fluids to the ground. The UIC program in the state of Washington is administered by the Department of Ecology. In Washington State all ground water is protected equally under RCW 90.48 and Chapter 173-200 WAC Water Quality Standards for Ground Waters of the State of Washington.

The two basic requirements of the UIC Program are:

1. Register UIC wells with the Washington State Department of Ecology unless the wells are located on tribal land. Well on tribal land should be registered with the Environmental Protection Agency.

2. Make sure that current and future underground sources of ground water are not endangered by pollutants in the discharge non-endangerment standard.

Since stormwater picks up contaminants as it runs over the land surface, it can pollute ground water once infiltration occurs. Pollution of ground water from stormwater discharges can be prevented by careful design of the UIC well, strategic siting and effective operation and maintenance. Pollution can also be prevented by use of treatment before discharge to the sub-surface and by reducing the stormwater contact with potential sources of contamination.

UIC wells must be registered. For more information visit:http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html .

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SPOKANE COUNTY

DIVISION OF ENGINEERING AND ROADS

A DIVISION OF THE PUBLIC WORKS DEPARTMENT

Date

Name
OR CURRENT RESIDENT
Street
City, State, Zip Code

Re: Spokane County Stormwater Awareness Survey

Dear Resident:

The Spokane County Stormwater Utility is required by the State of Washington to implement a public education plan focused on raising awareness of the impacts of stormwater pollution. In order to make sure that the program meets the needs of our community, we would appreciate your help in completing the enclosed survey.

We realize that filling out a questionnaire is time-consuming, and we thank you in advance for your participation. Your ideas form an important part of our planning efforts. Information collected through this survey will be used to structure future outreach efforts and education campaigns to manage stormwater pollution in Spokane County.

Along with this letter and survey, you will also find enclosed a self-addressed, stamped envelope to assist in sending the survey back to us. Note that the envelope does not display your return address. As such, rest assured that your answers will be completely anonymous.

If you have any questions about the survey, or the Spokane County Stormwater Utility in general, please feel free to contact us at (509) 477-7284.

Thank you again for your assistance!

Sincerely,

Amanda Hess

Amanda Hess

Education/Outreach Coordinator
Spokane County Stormwater Utility

• 1026 WEST BROADWAY AVENUE • SPOKANE, WA 99206-0170
PHONE: (509) 477-3600 • FAX: (509) 477-7655 • TDD: (509) 477-7133

Your Perceptions of Local Water Resources...

1. In general, how would you rate the water quality of the lakes, rivers, and streams located in and around your community and/or neighborhood?

☐ Very good ☐ Good ☐ Okay ☐ Poor ☐ Very poor | ☐ Don't know

2. To what extent do you believe each of the following items contributes to water quality problems for the aquifer, and lakes, rivers, and streams in your community?

	Major contributor	Moderate contributor	Minor contributor	Does not contribute	Don't know/ Not sure
a. Stormwater runoff from streets	☐	☐	☐	☐	☐
b. Stormwater runoff from residential rooftops and driveways	☐	☐	☐	☐	☐
c. Lawn fertilizers and pesticides	☐	☐	☐	☐	☐
d. Grass clippings and leaves	☐	☐	☐	☐	☐
e. Pet waste	☐	☐	☐	☐	☐
f. Street sand, dirt, and rocks	☐	☐	☐	☐	☐
g. Soil erosion from construction sites	☐	☐	☐	☐	☐
h. Discharges from industry	☐	☐	☐	☐	☐
i. Discharges from sewage treatment plants	☐	☐	☐	☐	☐
j. Improper disposal of motor oil and antifreeze	☐	☐	☐	☐	☐
k. Improper disposal of hazardous household wastes	☐	☐	☐	☐	☐

3. From the above list, enter the letters of the three items you feel contribute the most to water quality problems.

Greatest Contributor _____ 2nd Greatest Contributor _____ 3rd Greatest Contributor _____

4. To the best of your knowledge, after it rains or when snow melts, to what extent does the resulting stormwater runoff contribute to the following problems in your community?

	Major contributor	Moderate contributor	Minor contributor	Does not contribute	Don't know/ Not sure
a. Negative impacts on drinking water	☐	☐	☐	☐	☐
b. Increased sedimentation of lakes, rivers, and streams	☐	☐	☐	☐	☐
c. Increased temperatures in lakes, rivers, and streams	☐	☐	☐	☐	☐
d. Weed and algae growth in lakes	☐	☐	☐	☐	☐
e. Flooding	☐	☐	☐	☐	☐
f. Negative impacts on fish habitat	☐	☐	☐	☐	☐
g. Negative impacts on habitat for wildlife	☐	☐	☐	☐	☐
h. Negative impacts on local swimming and beach areas	☐	☐	☐	☐	☐

5. After it rains or when snow melts, where do you think the resulting stormwater runoff ends up after it leaves your property? *Please select all that apply.*

- ☐ To a sewage treatment facility
- ☐ To a stream, river, or lake (without treatment)
- ☐ To an infiltration facility
- ☐ I don't know where it goes
- ☐ To a detention pond
- ☐ Other _____

6. In Spokane County, storm drain systems and sewer systems are the same (in other words, stormwater that enters storm drains goes to a sewage treatment facility).

- ☐ True
- ☐ False

Your Activities...

7. When you mow your lawn, what do you do with the grass clippings?

- ☐ Mulch or compost them
- ☐ Leave them where they land (i.e. the lawn, driveway, sidewalk, and street)
- ☐ Sweep or blow them into the street
- ☐ Collect them and throw them in the trash
- ☐ Don't know/Not sure
- ☐ Other _____

8. To your best knowledge, how often would you say you fertilize your lawn and/or apply weed killers?

- ☐ Monthly
- ☐ 2-3 times per year
- ☐ Yearly or less frequently
- ☐ Don't know

9. Where do you most often wash your vehicle(s)?

- ☐ At home - on the driveway
- ☐ At a car wash
- ☐ At home - on a grassed or dirt area
- ☐ Other _____

10. How do you dispose of products such as paints, varnishes, household cleaners, used motor oil, fertilizers, and/or pesticides? *Please select all that apply.*

- ☐ Pour them down the sink
- ☐ Pour them on the ground
- ☐ Throw them in the trash
- ☐ Pour them in the street or into a storm drain
- ☐ Use them until finished
- ☐ Take them to a recycling center/toxic waste drop-off
- ☐ Don't know
- ☐ Other _____

11. How often do you pick up after your pet at home or while out walking?

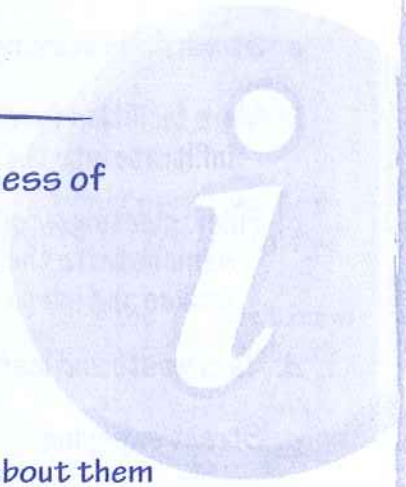
- ☐ Always
- ☐ Often
- ☐ Sometimes
- ☐ Rarely
- ☐ Never
- ☐ N/A - Don't have a pet

12. Which of the following practices would you do (or have done for you) on a regular basis if you knew that the action would help reduce water pollution?

	Already do this	Willing to do	Need more information	Not willing to do	Don't know/ Not sure
a. Take used auto oil to a recycling center	☐	☐	☐	☐	☐
b. Have your oil changed at a service center	☐	☐	☐	☐	☐
c. Conduct soil tests to determine fertilizer application rates for your lawn	☐	☐	☐	☐	☐
d. Apply chemical fertilizers and/or weed killers only once or twice per year	☐	☐	☐	☐	☐
e. Stop using chemical fertilizers and weed killers completely	☐	☐	☐	☐	☐
f. Use a fertilizer with little or no parts phosphorus	☐	☐	☐	☐	☐
g. Compost grass clippings and leaves in your yard	☐	☐	☐	☐	☐
h. Use a mulching lawnmower	☐	☐	☐	☐	☐
i. Direct rainspouts to your lawn rather than your driveway	☐	☐	☐	☐	☐
j. Install a rain barrel to collect rain from your downspouts	☐	☐	☐	☐	☐
k. Install a "rain garden" or grassed swale to intercept rain from your downspouts	☐	☐	☐	☐	☐
l. Keep street gutters and storm drains in front of your residence clear of dirt, grass clippings, and leaves	☐	☐	☐	☐	☐
m. Wash your car on the lawn	☐	☐	☐	☐	☐
n. Wash your car at a car wash	☐	☐	☐	☐	☐
o. Pick up and trash your pet's waste	☐	☐	☐	☐	☐

13. If you have any concerns related to any of the practices mentioned on Page 4, please briefly describe them here:

Your Information Preferences...



14. Which of the following statements describes your awareness of efforts to improve water quality in your community?

- ☐ I am very knowledgeable about existing efforts
- ☐ I am generally familiar with efforts to improve water quality
- ☐ I think activities are taking place, but I don't know very much about them
- ☐ I am not aware of any efforts to improve water quality in my community

15. Which of the following sources would you most likely turn to for information about the practices listed on Page 4? *Please select all that apply.*

- ☐ Spokane County
- ☐ Washington State University - Extension
- ☐ Your local library
- ☐ An environmental/conservation organization
- ☐ The Internet
- ☐ Educational displays in local businesses
- ☐ Other _____

16. How would you prefer to receive information about activities that you can do to improve water quality in your community? *Please select all that apply.*

- ☐ Television
- ☐ Local Newspaper
- ☐ Radio
- ☐ Internet or e-mail
- ☐ Billboard
- ☐ Community newsletter
- ☐ Educational workshops
- ☐ Child's school
- ☐ Advertisements before the previews at movie theaters
- ☐ Other _____

17. If implemented, how effective do you think the following types of efforts for addressing stormwater problems in your community would be?

	Very effective	Effective	Somewhat effective	Not effective	Don't know/ Not sure
a. Storm drain marking	☐	☐	☐	☐	☐
b. More facilities for stormwater to infiltrate into the ground	☐	☐	☐	☐	☐
c. Public meetings/courses to demonstrate the proper care of swales and inlets	☐	☐	☐	☐	☐
d. Yard waste and leaf collection	☐	☐	☐	☐	☐
e. Street sweeping	☐	☐	☐	☐	☐
f. Reducing use of sand on icy roads in the winter	☐	☐	☐	☐	☐
g. Enforcing County erosion control and stormwater ordinances	☐	☐	☐	☐	☐
h. Other _____	☐	☐	☐	☐	☐

18. In your opinion, which would be the most appropriate entity to contact if you became aware of a stormwater problem in your community (for example, you see mud flowing into a storm drain)? *Please select ONLY ONE.*

- ☐ Your water utility
- ☐ An environmental/conservation organization
- ☐ Spokane County
- ☐ Washington Department of Natural Resources
- ☐ I'm not sure who I should contact about a stormwater problem
- ☐ Other _____

SPOKANE COUNTY THANKS YOU FOR COMPLETING THIS SURVEY!

transform Stormwater
one drop at a time.

Spokane County
Stormwater Awareness Survey

August 2011

SPOKANE COUNTY

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Appendices

A - The Survey Questionnaire

B - Focus on Pesticide & Fertilizer Use

C - Focus on Motor Oil & Antifreeze

D - Focus on Pet Waste

E - Focus on Car Washing

Introduction

The Washington State Department of Ecology issued the NPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) for Eastern Washington in 2007. Municipalities regulated under this permit are required to meet six minimum control measures, one of which is to provide opportunities for the public to play an active role in the development and implementation of their respective stormwater management program. According to the Environmental Protection Agency (EPA), conducting an Attitude Survey is one of many ways MS4s can involve the public in their stormwater program. See: http://cfpub.epa.gov/npdes/stormwater/menuofbmps.

The Spokane County Stormwater Utility (SWU) initiated this survey to gather public input and background knowledge of stormwater issues within the Spokane County Stormwater Service Area (SWSA). The survey will aid in developing appropriate education and outreach activities that help protect water resources within the unincorporated urban areas of Spokane County. Additionally, the information gathered can provide a baseline for evaluating program effectiveness.

The survey addressed questions of water quality, causes for water pollution, knowledge of storm water runoff, sources of information on stormwater issues, and willingness of participants to take specific actions to reduce water pollution.

The Survey

The survey was mailed to a random selection of 809 residences within Spokane County's SWSA. The survey was conducted between October and December 2010. All 809 members of the sample group were sent advanced letters; the advance letters included information about the purpose of the survey and the importance of their participation.

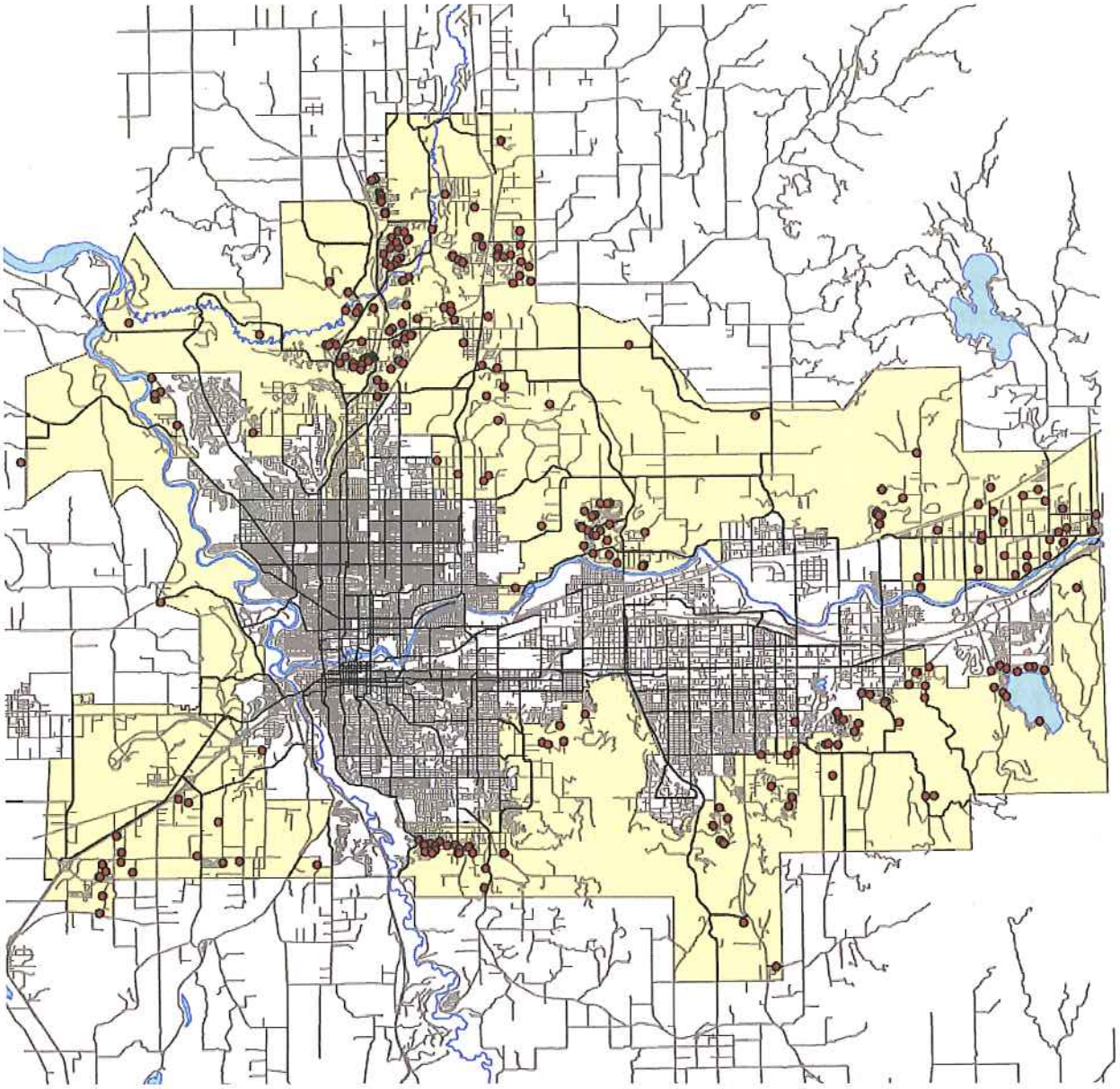
Within one week after the advance letters, all 809 households received the survey packet, including a copy of the questionnaire, a pre-addressed postage-paid envelope, a *You Are the Solution to Stormwater Pollution* refrigerator magnet, and a cover letter describing the questionnaire and restating how the information would be used. All respondents were assured of confidentiality.

Out of 809 surveys sent, 275 households returned surveys; only 2 of those were largely incomplete. The response rate was 34% (275/809). The sample size of 275 yields data that has a statistical reliability of ± 4.8 percentage points at the 95% confidence level. This means that 95 out of 100 times, the results of this survey should differ by no more than 4.8 percent, in either direction, from what would have been obtained by interviewing all households within Spokane County's Stormwater Service Area (SWSA).

The Report

A summary of the findings immediately follow this section, beginning on page 6. The tabulations and associated charts are reported in the *Detailed Responses* section, beginning on page 9. Refer to the *Table of Contents* on page 3 for a detailed breakdown of the entire report.

Geographic Distribution of Respondents Households within the SWSA



Each dot on the map corresponds to the location of a survey respondent

Results

The public shows varying degrees of knowledge regarding key issues for controlling stormwater pollution including being uninformed about basic information, ultimately substantiating the need for continued public education.

Based on overall survey results, education and outreach programs should focus on promoting greater awareness of *nonpoint* source pollution and processes. Spokane County should highlight the connection between everyday actions and activities and their unseen impacts on water quality.

Your Perceptions of Local Water Resources

The first set of questions in the survey was designed to gauge respondents' perception and understanding of water quality. When asked to rate the overall quality of local lakes, rivers, and streams in their community, 55% of respondents responded positively with a *good* or *very good*, while only 8.0% of respondents rated water quality as *poor* or *very poor*.

Respondents were also asked to rate the significance of eleven separate sources of pollution. *Discharges from industry* (78%) ranked the highest in terms of perceived water quality threats despite significant reductions in point source water pollution resulting from Clean Water legislation enacted since the 1970s. *Lawn fertilizers and pesticides* also ranked as a significant source of pollution (70%), as did the *improper disposal of household hazardous wastes* (67%) and *motor oil and antifreeze* (66%). In a follow up question, these items were identified in the same order as the *greatest contributors* to water quality problems in and around the community.

Survey respondents demonstrated a wide degree of variation in their understanding of what happens to stormwater after it leaves their property. Only twenty percent (20%) of respondents recognize that stormwater in Spokane County is infiltrated into the ground. Of particular note for educational program development, 24% stated that they are *not sure* where stormwater goes when it leaves their neighborhood. Nearly one-fifth (18%) of those surveyed incorrectly stated that stormwater goes *to a sewage treatment facility*, while two-fifths (43%) believe it goes *to a stream, river, or lake*.

Your Activities

Respondents were asked to supply information about personal habits that may impact water quality. Cumulatively, individual habits and actions have the potential to significantly impact local water quality both positively and negatively. If specific actions or habits having potentially negative impacts can be identified, public education and outreach programs targeting those actions can be effective tools for improving local water quality.

One significant way in which households can affect the quantity and quality of stormwater runoff is through their lawn care practices. Nearly 85% of survey respondents' grass-clipping disposal habits have a low negative impact on water quality, as they either *mulch or compost them*, or *throw them in the trash or in the yard waste bin.*

The same can not be said for their use of fertilizers. Less than 4% of respondents *conduct a soil test to determine proper fertilizer application rates* for their lawn. Over 90% of respondents fertilize their lawns. A handful of respondents admit to applying fertilizers monthly (2.2%). Sixty-three percent (63%) fertilize two-to-three times a year. The practice that respondents are most "willing to do" to reduce water pollution, however, is *use a fertilizer with little or no parts phosphorus* (40%), while the practice that respondents are least willing to do, or "not willing to do," is *stop using chemical fertilizers and weed-killers completely* (40%).

Respondents, for the most part, have vehicle maintenance practices that would be classified as environmentally sensitive. Nearly two-thirds *wash their cars at a commercial car washing facility*, while 77% *have their oil changed at a service center* on a regular basis. Respondents were also asked whether they would *wash their vehicles on the lawn* instead of the driveway if they knew it would help reduce water pollution. While 20% are *willing to do this*, 60% state having *already done this* before.

The results regarding household hazardous waste disposal are very positive. Nearly 88% of respondents claim to take their paints, varnishes, household cleaners, and used motor oil to *a recycling center or toxic waste drop-off.* Only 1% percent of all respondents admit to improperly disposing of these items by either *pouring them down the sink* or *on the ground.* Notably, no one pours household hazardous wastes *in the street or down a storm drain.*

The survey also assesses how respondents handle pet waste. It is encouraging that most pick up their dog's waste (39% *always*; 11% *often*; 4% *sometimes*, 2% *rarely*; 3% *never*). It is worth pointing out that over 40% of respondents do not own a pet. The survey does not ask how pet owners dispose of pet waste, and it is unknown if the method of disposal has as much impact on water quality as whether or not it gets picked up.

Finally, respondents were asked about their willingness to perform "green" practices if they knew those actions would help reduce water pollution. As was briefly mentioned above, practices that most respondents *already do* to help reduce water pollution are *have your oil changed at an automobile service center* and *wash your car at a car wash.* While these practices may have positive results for water quality, it is uncertain if respondents were aware of that aspect or simply undertake these activities for convenience or other reasons.

Other practices that respondents are *willing to do* to reduce water pollution are *conduct soil tests to determine fertilizer application rates for your lawn* (31%), and *install a "rain garden" or grassed swale* (31%) or *rain barrel* (30%) *to collect/intercept rain from downspouts.* One respondent would like to see the County procure grant money to help defray the cost for homeowners to install rain gardens.

Practices that respondents have the greatest resistance to doing (or *not willing to do*) are *keeping street gutters and storm drains in front of your residence clear of dirt, grass clippings, and leaves* (21%), and *install a rain barrel or cistern to collect rainwater from your downspouts* (23%). Additionally, several survey respondents believe that living in a rural environment deems water pollution prevention practices unnecessary.

Your Information Preferences

Respondents are also largely unaware of efforts by local governments to improve water quality. Over half of the households (55%) either *don't know much* about water pollution prevention activities taking place in and around their community or are completely *unaware of any efforts to improve water quality.*

Based on survey responses, Spokane County will reach the greatest general audience by utilizing local newspapers, newsletters, and television. The breakdown of preferred methods of information distribution identified by respondents is: *newspapers* (46%); *community newsletters* (46%); *television* (44%). Less than 10% of respondents favor getting information through their *child's school, educational workshops,* and *billboards.*

When it comes to implementing measures which address stormwater problems in their community, respondents believe that providing more *street sweeping* (66%) and *yard waste and leaf collection* (62%) are the most effective means to do so. *Constructing more infiltration facilities* (57%) and *enforcing County erosion control and stormwater ordinances* (56%) followed closely behind. Respondents may have chosen street sweeping and yard waste and leaf collection as an effective way to address stormwater problems because they believe these things will help alleviate flooding problems which, according to them, was selected as the biggest problem resulting from stormwater runoff.

Interestingly, nearly one-fourth (24%) of all respondents do not know who to contact when a stormwater problem arises in their area, while 55% correctly stated they should contact Spokane County.

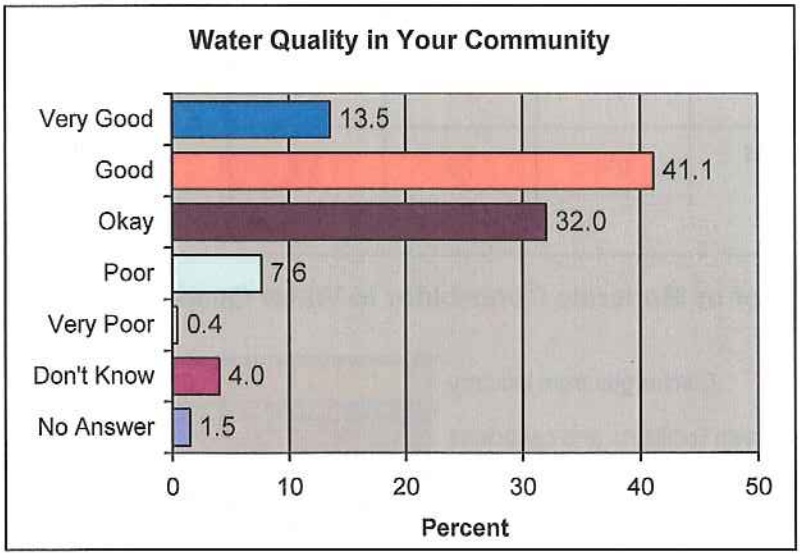
Detailed Responses

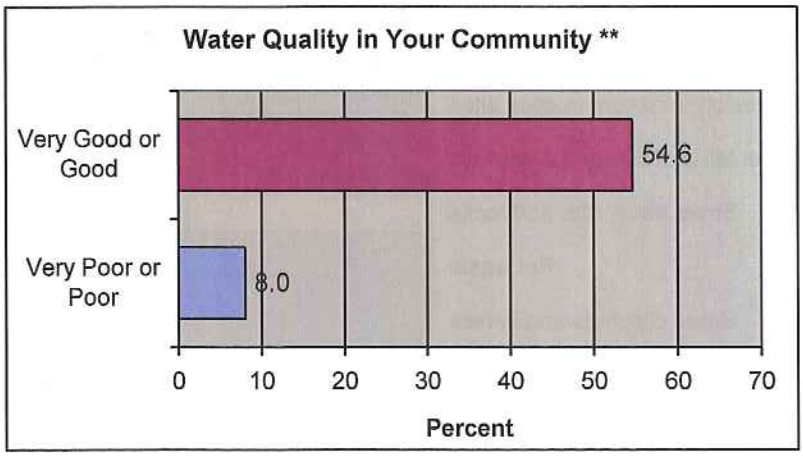
The following pages contain the detailed responses to the questionnaire. A complete copy of the survey questionnaire is included in Appendix A. The total number of respondents for each question is indicated by "n". The breakdown of the responses are depicted as a percentage in the following graphs.

Your Perceptions of Local Water Resources

1. In general, how would you rate the water quality of the lakes, rivers, and streams located in and around your community and/or neighborhood?

Very Good	Good	Okay	Poor	Very poor	Don't know	No Answer	TOTAL
37	113	88	21	1	11	4	n = 275

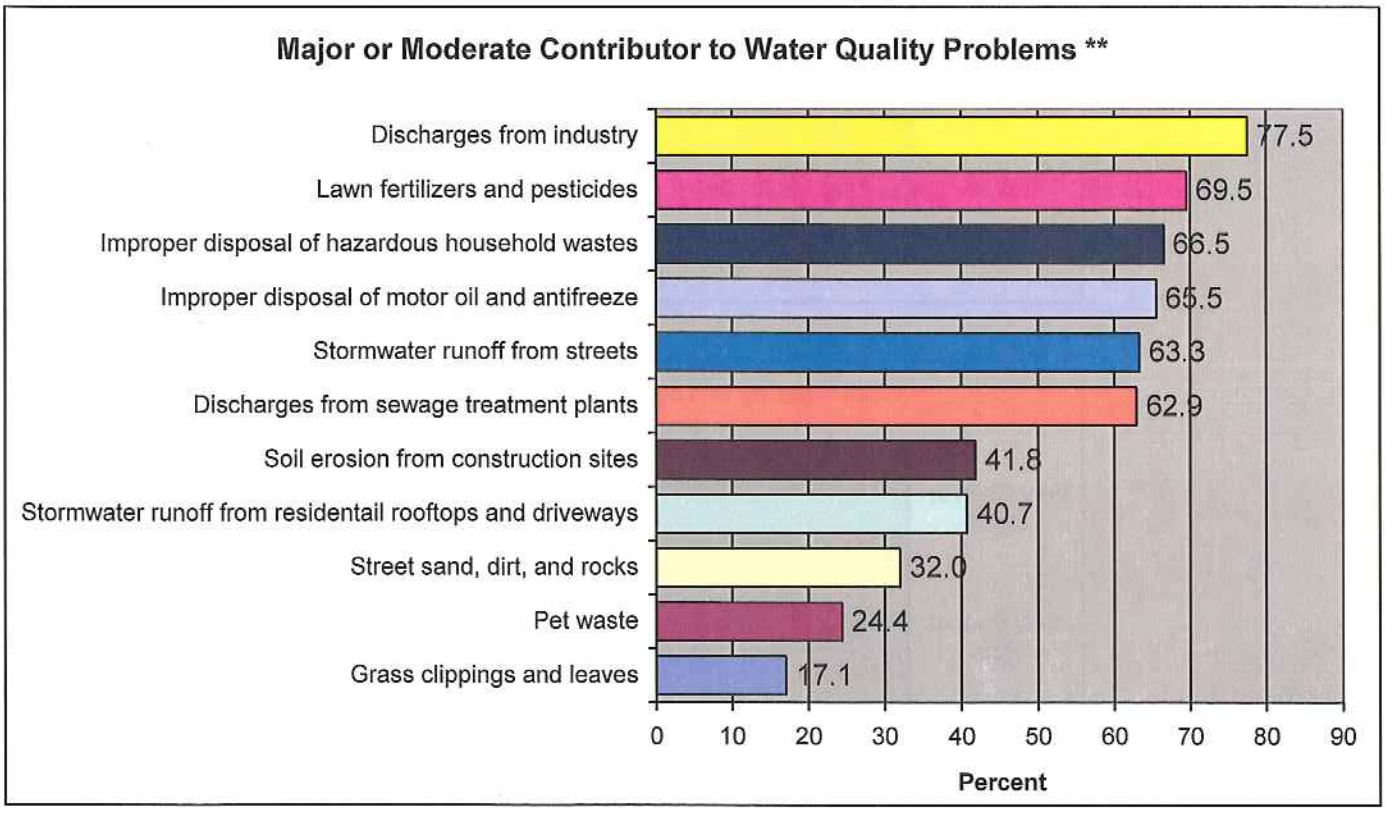




** This graph created by combining responses of "Very Good" and "Good" or "Very Poor" and "Poor"

2. To what extent do you believe each of the following items contributes to water quality problems for the aquifer; and lakes, rivers, and streams in community?

	Major Contributor	Moderate Contributor	Minor Contributor	Does Not Contribute	Don't Know/ Not Sure	No Answer	TOTAL
Stormwater runoff from streets	75	99	70	9	19	3	n = 275
Stormwater runoff from residential rooftops and driveways	24	88	113	21	23	6	n = 275
Lawn fertilizers and pesticides	102	89	63	7	9	5	n = 275
Grass clippings and leaves	11	36	121	87	14	6	n = 275
Pet waste	24	43	135	46	23	4	n = 275
Street sand, dirt, and rocks	22	66	130	37	16	4	n = 275
Soil erosion from construction sites	27	88	114	24	19	3	n = 275
Discharges from industry	134	79	29	5	26	2	n = 275
Discharges from sewage treatment plants	83	90	50	18	28	6	n = 275
Improper disposal of motor oil and antifreeze	97	83	65	10	18	2	n = 275
Improper disposal of hazardous household wastes	104	79	58	13	19	2	n = 275



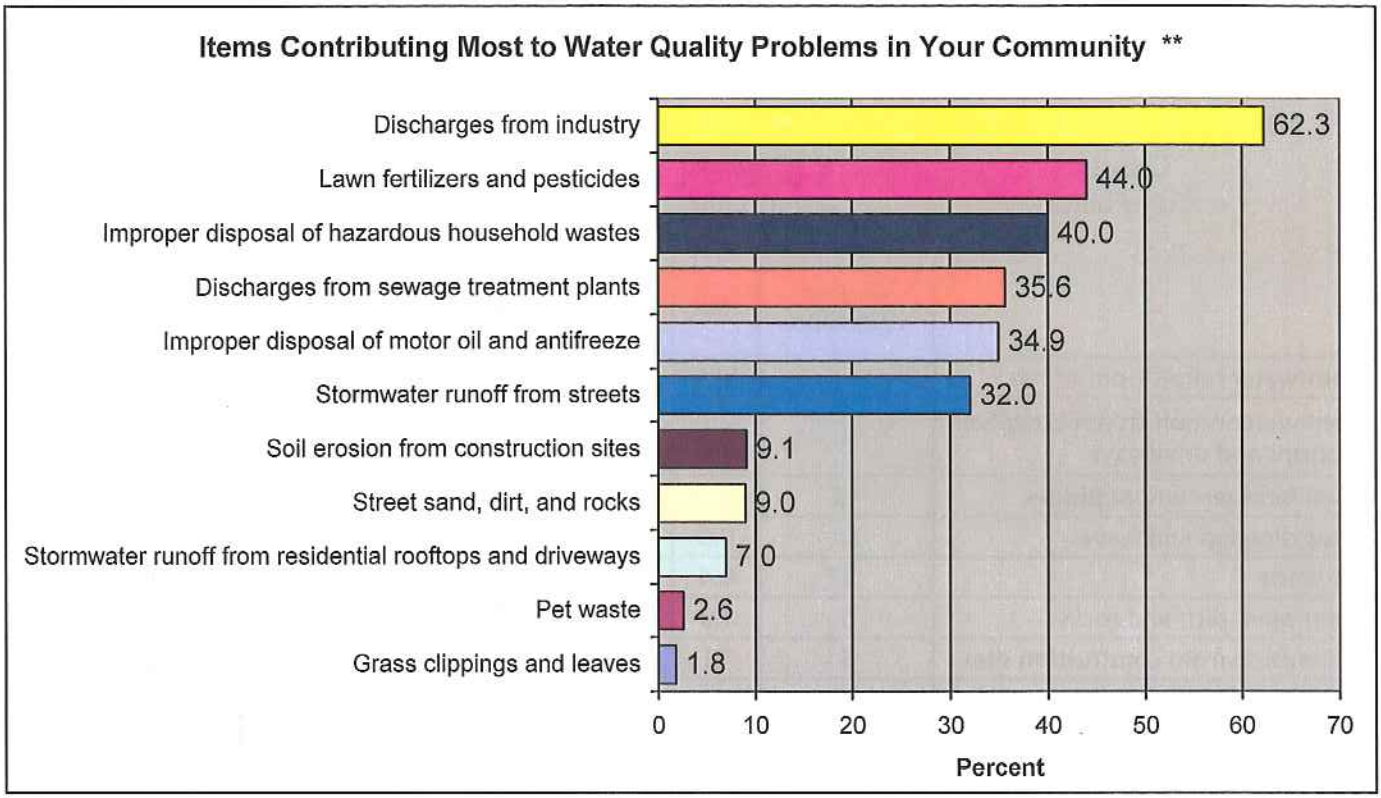
** This graph reflects the combined percentages of respondents identifying the issue as either a "Major contributor" or "Moderate contributor" to water quality problems

3. From the list of items in Question 2, enter the letters of the three items you feel contribute the most to water quality problems in and around your community. (n = 275)

Greatest Contributor _____ 2nd Greatest Contributor _____ 3rd Greatest Contributor _____

	Greatest Contributor	%	2nd Greatest Contributor	%	3rd Greatest Contributor	%	Combined TOTAL % **
Stormwater runoff from streets	41	14.9	28	10.2	19	6.9	32.0
Stormwater runoff from residential rooftops and driveways	1	0.4	4	1.5	14	5.1	7.0
Lawn fertilizers and pesticides	48	17.5	35	12.7	38	13.8	44.0
Grass clippings and leaves	0	0.0	3	1.1	2	0.7	1.8
Pet waste	1	0.4	4	1.5	2	0.7	2.6
Street sand, dirt, and rocks	5	1.8	10	3.6	10	3.6	9.0
Soil erosion from construction sites	3	1.1	12	4.4	10	3.6	9.1
Discharges from industry	89	32.4	45	16.4	37	13.5	62.3
Discharges from sewage treatment plants	32	11.6	39	14.2	27	9.8	35.6
Improper disposal of motor oil and antifreeze	18	6.5	42	15.3	36	13.1	34.9
Improper disposal of hazardous household wastes	22	8.0	33	12.0	55	20.0	40.0
No Answer	15	5.5	20	7.3	25	9.1	21.9
TOTAL	n = 275	100	n = 275	100	n = 275	100	-

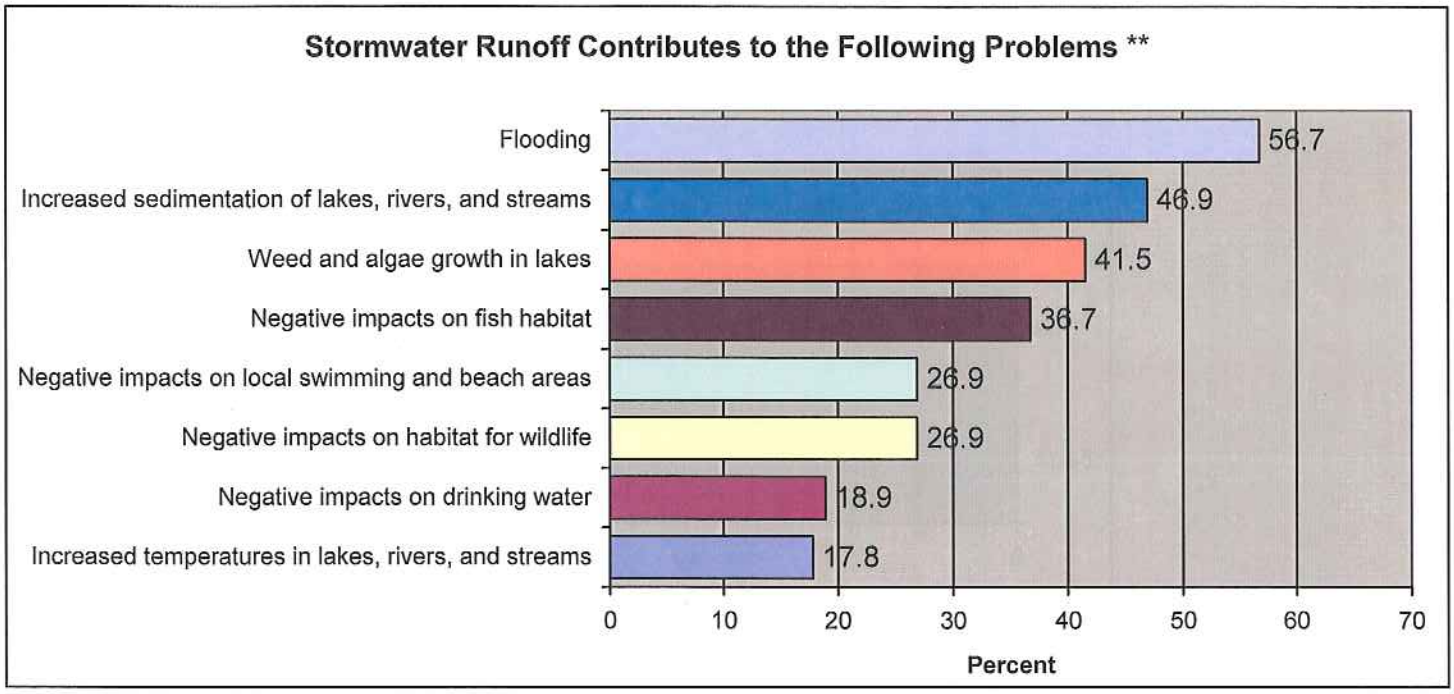
** Graphic results on following page



** Graph created by combining percentage responses to "Greatest," "2nd Greatest," and "3rd Greatest" categories

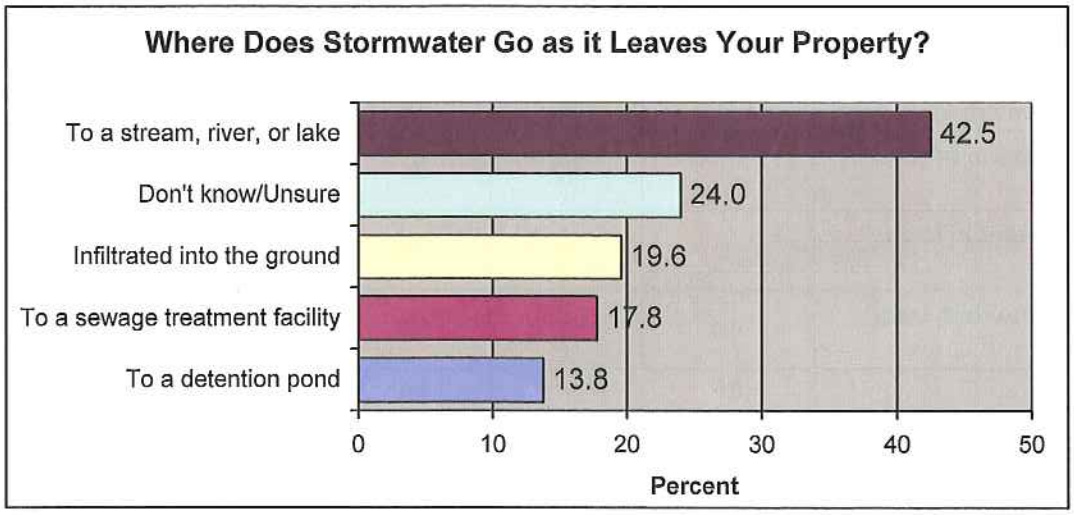
4. To the best of your knowledge, after it rains or when snow melts, to what extent does the resulting runoff contribute to the following problems in your community?

	Major Contributor	Moderate Contributor	Minor Contributor	Does Not Contribute	Don't Know/ Not Sure	No Answer	TOTAL
Negative impacts on drinking water	7	45	105	66	46	6	n = 275
Increased sedimentation of lakes, rivers, and streams	37	92	86	24	31	5	n = 275
Increased temperatures in lakes, rivers, and streams	10	39	95	63	62	6	n = 275
Weed and algae growth in lakes and rivers	40	74	74	34	46	7	n = 275
Flooding	65	91	66	26	22	5	n = 275
Negative impacts on fish habitat	27	74	94	36	39	5	n = 275
Negative impacts on habitat for wildlife	16	58	100	56	39	6	n = 275
Negative impacts on local swimming and beach areas	18	56	104	51	40	6	n = 275



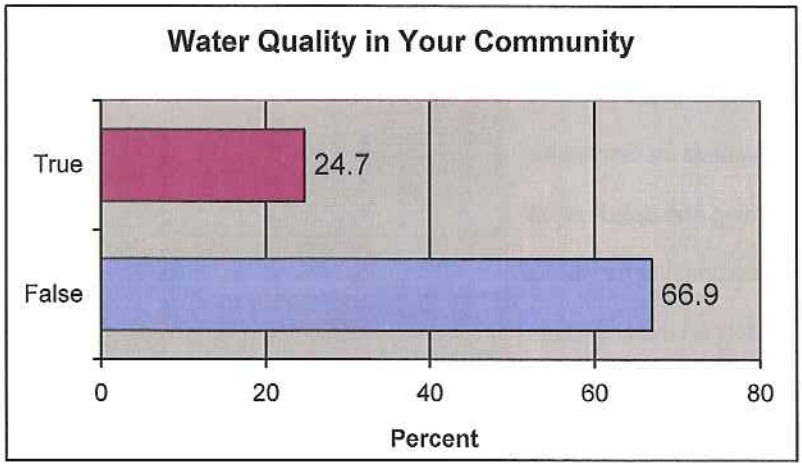
** Graph represents combined percentages of "Major contributor" and "Moderate contributor" responses

5. After it rains or when snow melts, where do you think the resulting stormwater runoff ends up after it leaves your property? (n = 275)



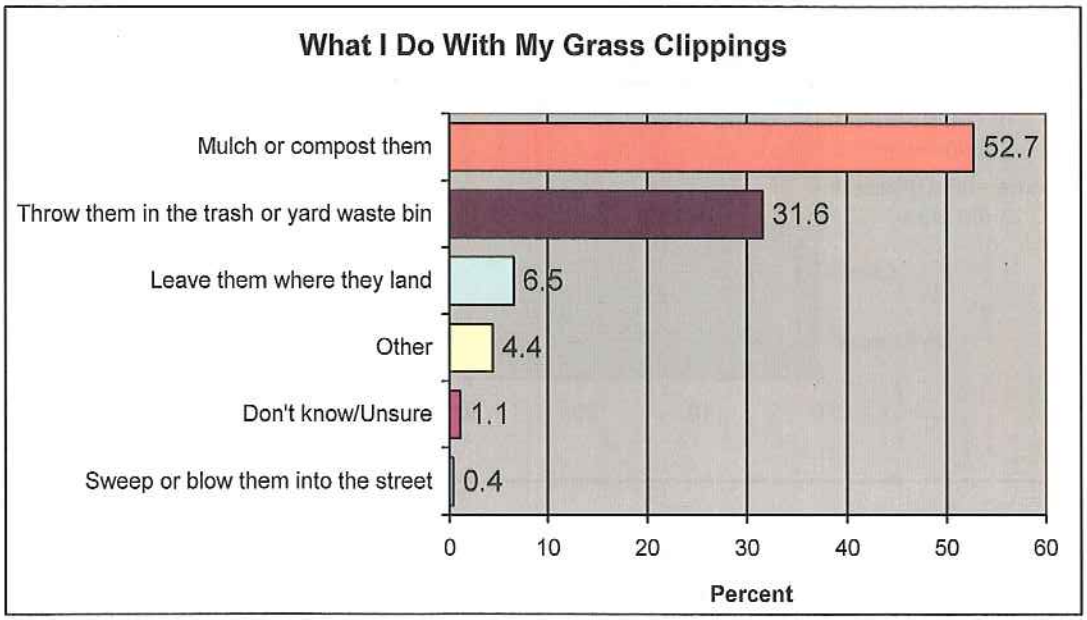
6. In Spokane County, storm drain systems and sewer systems are the same (in other words, stormwater that enters storm drains goes to a sewage treatment facility)?

True	False	No Answer	Total
68	184	23	n = 275

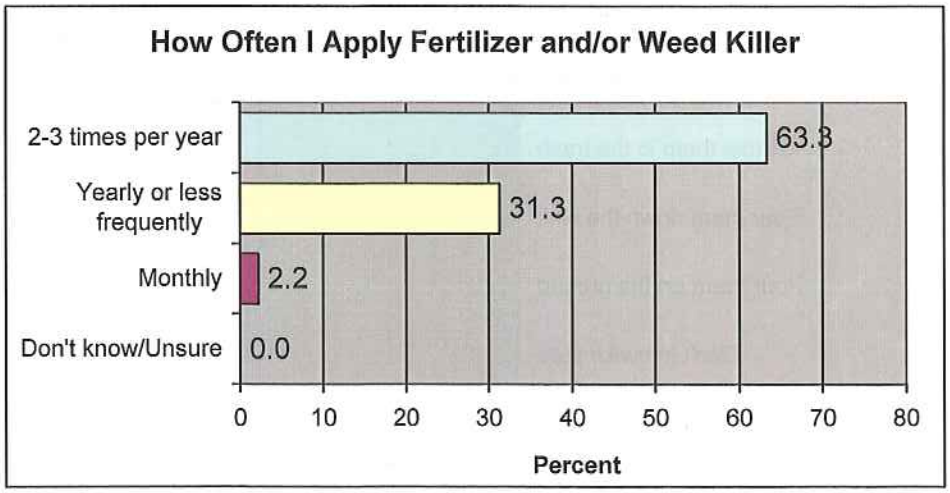


Your Activities

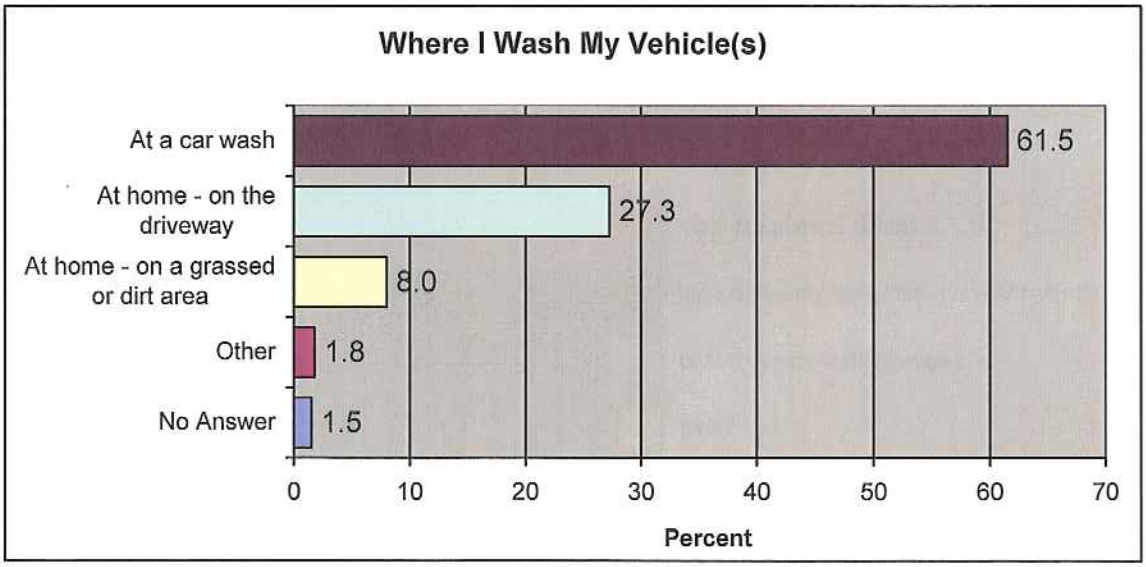
7. When you mow your lawn, what do you do with the grass clippings? (n = 275)



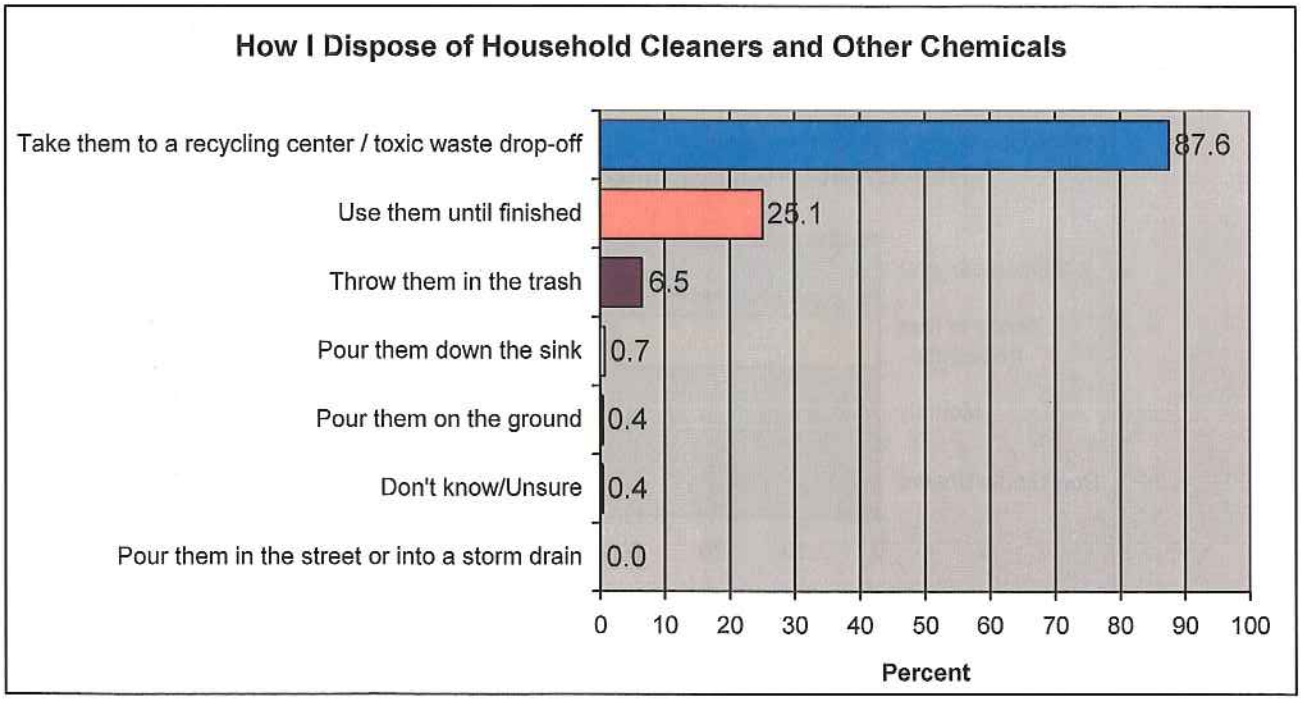
8. To your best knowledge, how often would you say you fertilize your lawn and/or apply week killers? (n = 275)



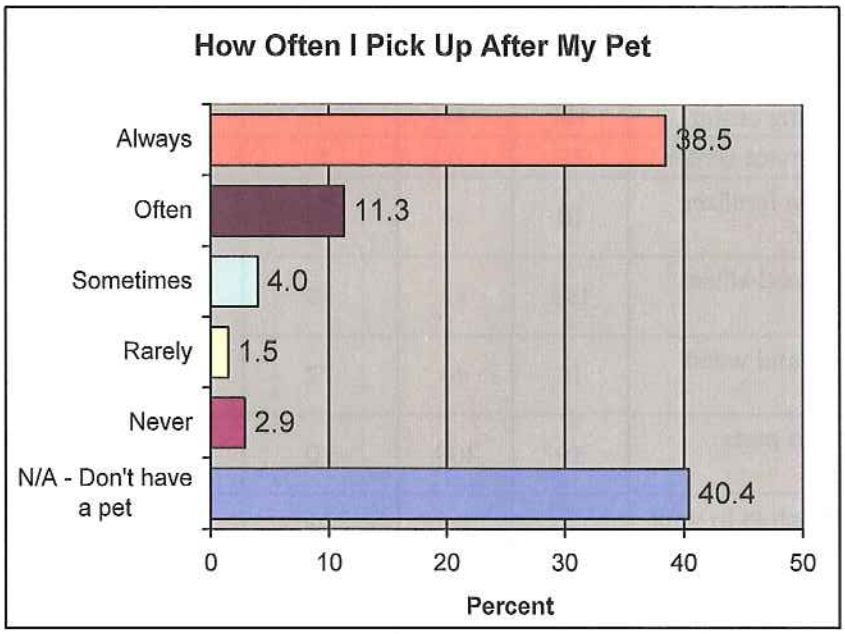
9. Where do you most often wash your vehicle(s)? (n = 275)



10. How do you dispose of products such as paints, varnishes, household cleaners, used motor oil, fertilizers, and/or pesticides? *Please select all that apply.* (n = 275)



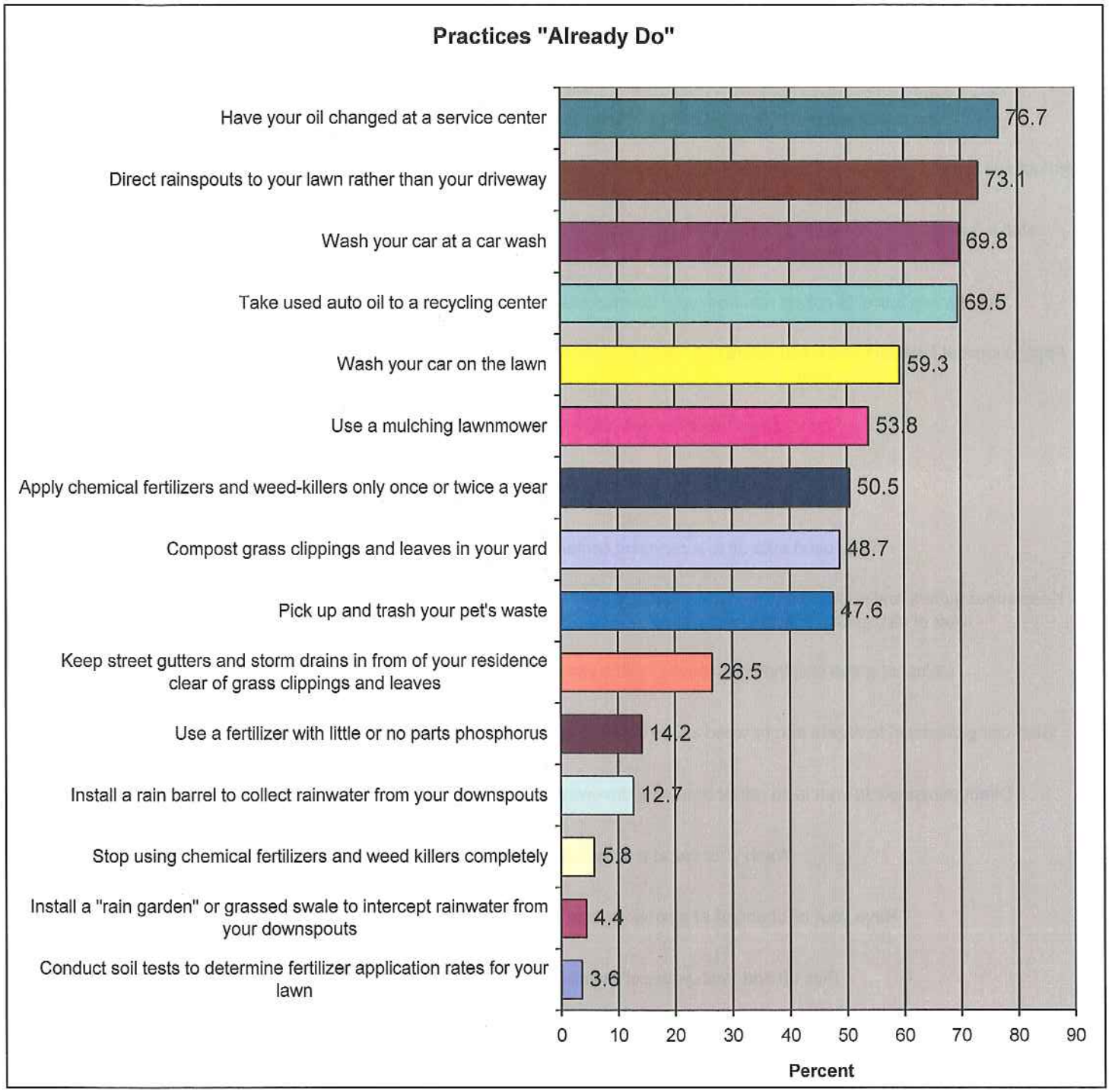
11. How often do you pick up after your pet at home or while out walking? (n = 275)

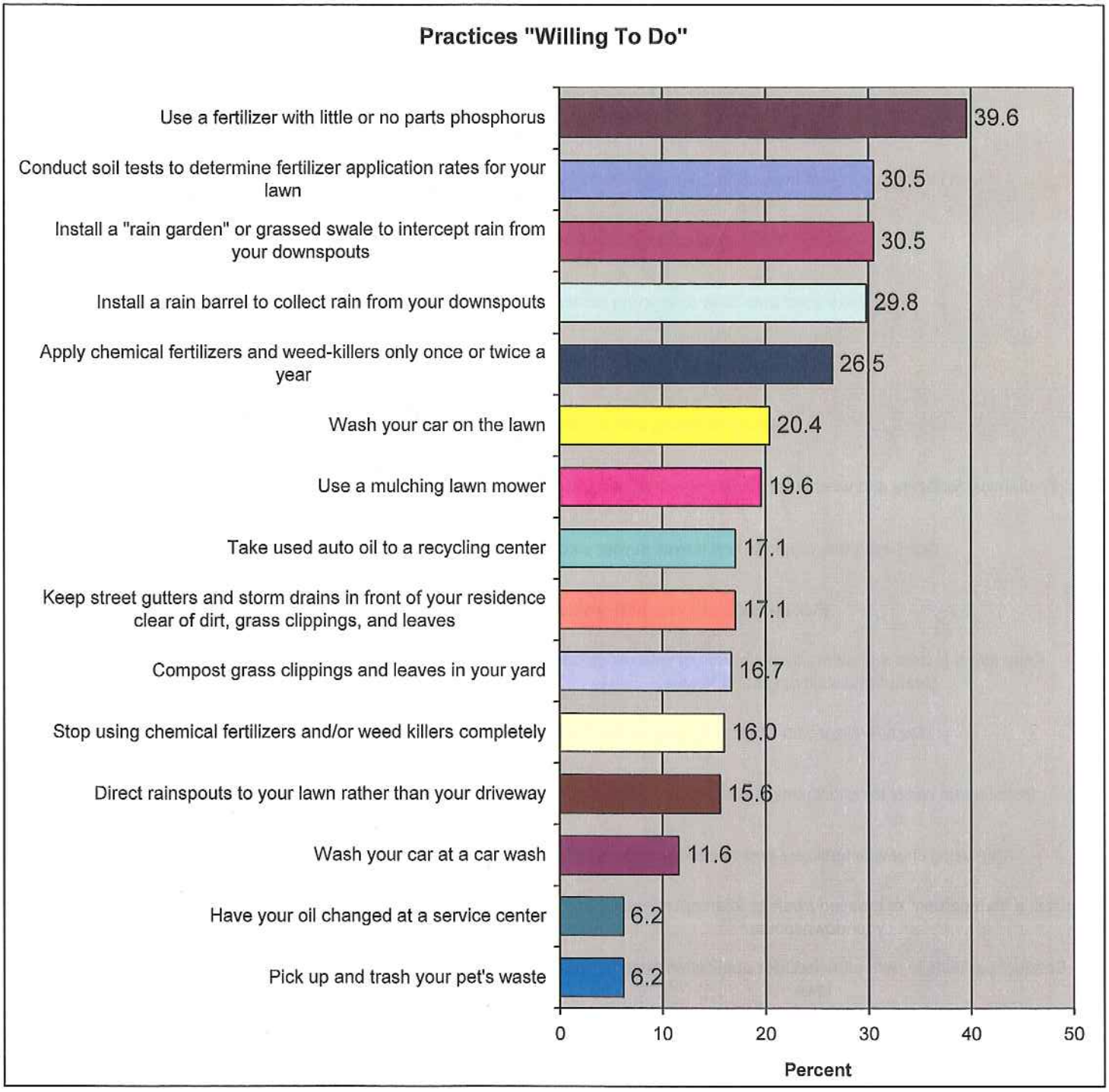


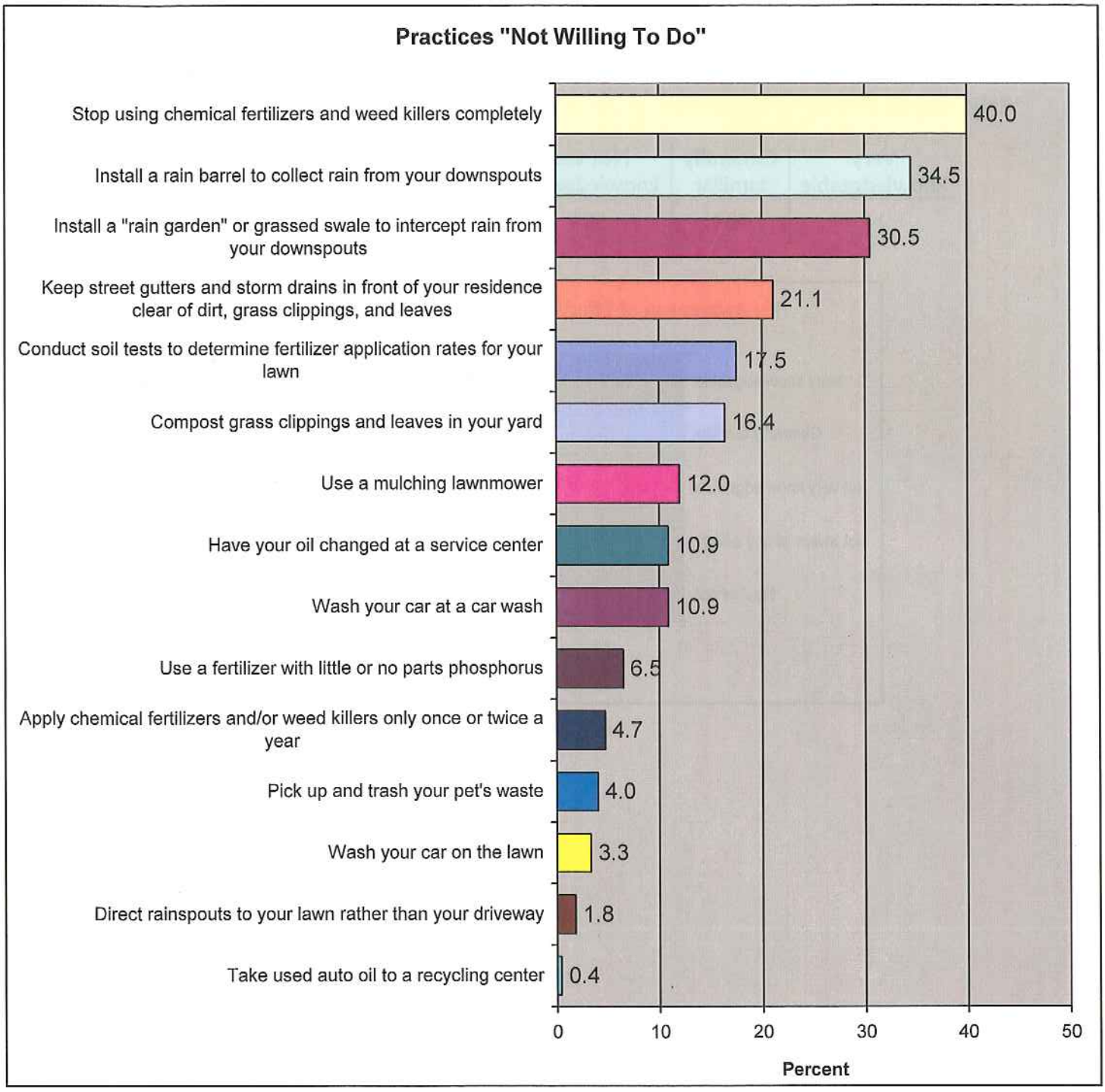
12. Which of the following practices would you do (or have done for you) on a regular basis if you knew that the action would help reduce water pollution?

	Already do this	Willing to do	Need more information	Not willing to do	Don't Know/ Not Sure	No Answer	TOTAL
Take used auto oil to a recycling center	191	47	1	1	10	25	n = 275
Have your oil changed at a service center	211	17	5	30	2	10	n = 275
Conduct soil tests to determine fertilizer application rates for your lawn	10	84	93	48	22	18	n = 275
Apply chemical fertilizers & weed-killers only once or twice per year	139	73	30	13	7	13	n = 275
Stop using chemical fertilizers and weed killers completely	16	44	77	110	11	17	n = 275
Use a fertilizer with little or no parts phosphorus	39	109	70	18	23	16	n = 275
Compost leaves and grass clippings in your yard	134	46	26	45	7	17	n = 275
Use a mulching lawnmower	148	54	17	33	8	15	n = 275
Direct rainspouts to your lawn rather than your driveway	201	43	8	5	7	11	n = 275
Install a rain barrel to collect rainwater from your downspouts	35	82	15	95	15	33	n = 275
Install a "rain garden" or grassed swale to intercept rainwater from your downspouts	12	84	65	84	11	19	n = 275
Keep street gutters in front of your residence clear of grass clippings and leaves	73	47	61	58	19	17	n = 275
Wash your car on your lawn	163	56	9	9	10	28	n = 275
Wash your car at a car wash	192	32	7	30	4	10	n = 275
Pick up and trash your pet's waste **	131	17	3	11	4	10	n = 176

** Ninety-nine (99) respondents wrote in N/A or that they don't have a pet


Practices "Already Do"
Have your oil changed at a service center
76.7
Direct rainspouts to your lawn rather than your driveway
73.1
Wash your car at a car wash
69.8
Take used auto oil to a recycling center
69.5
Wash your car on the lawn
59.3
Use a mulching lawnmower
53.8
Apply chemical fertilizers and weed-killers only once or twice a year
50.5
Compost grass clippings and leaves in your yard
48.7
Pick up and trash your pet's waste
47.6
Keep street gutters and storm drains in from of your residence clear of grass clippings and leaves
26.5
Use a fertilizer with little or no parts phosphorus
14.2
Install a rain barrel to collect rainwater from your downspouts
12.7
Stop using chemical fertilizers and weed killers completely
5.8
Install a "rain garden" or grassed swale to intercept rainwater from your downspouts
4.4
Conduct soil tests to determine fertilizer application rates for your lawn
3.6
0
10
20
30
40
50
60
70
80
90
Percent

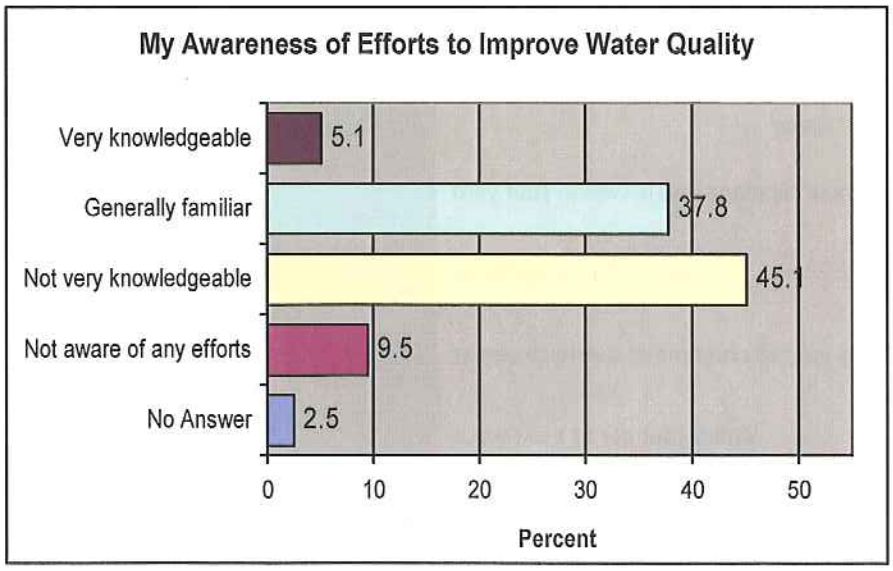

Practices "Willing To Do"
Use a fertilizer with little or no parts phosphorus
39.6
Conduct soil tests to determine fertilizer application rates for your lawn
30.5
Install a "rain garden" or grassed swale to intercept rain from your downspouts
30.5
Install a rain barrel to collect rain from your downspouts
29.8
Apply chemical fertilizers and weed-killers only once or twice a year
26.5
Wash your car on the lawn
20.4
Use a mulching lawn mower
19.6
Take used auto oil to a recycling center
17.1
Keep street gutters and storm drains in front of your residence clear of dirt, grass clippings, and leaves
17.1
Compost grass clippings and leaves in your yard
16.7
Stop using chemical fertilizers and/or weed killers completely
16.0
Direct rainspouts to your lawn rather than your driveway
15.6
Wash your car at a car wash
11.6
Have your oil changed at a service center
6.2
Pick up and trash your pet's waste
6.2
0
10
20
30
40
50
Percent


Practices "Not Willing To Do"
Stop using chemical fertilizers and weed killers completely
40.0
Install a rain barrel to collect rain from your downspouts
34.5
Install a "rain garden" or grassed swale to intercept rain from your downspouts
30.5
Keep street gutters and storm drains in front of your residence clear of dirt, grass clippings, and leaves
21.1
Conduct soil tests to determine fertilizer application rates for your lawn
17.5
Compost grass clippings and leaves in your yard
16.4
Use a mulching lawnmower
12.0
Have your oil changed at a service center
10.9
Wash your car at a car wash
10.9
Use a fertilizer with little or no parts phosphorus
6.5
Apply chemical fertilizers and/or weed killers only once or twice a year
4.7
Pick up and trash your pet's waste
4.0
Wash your car on the lawn
3.3
Direct rainspouts to your lawn rather than your driveway
1.8
Take used auto oil to a recycling center
0.4
0
10
20
30
40
50
Percent

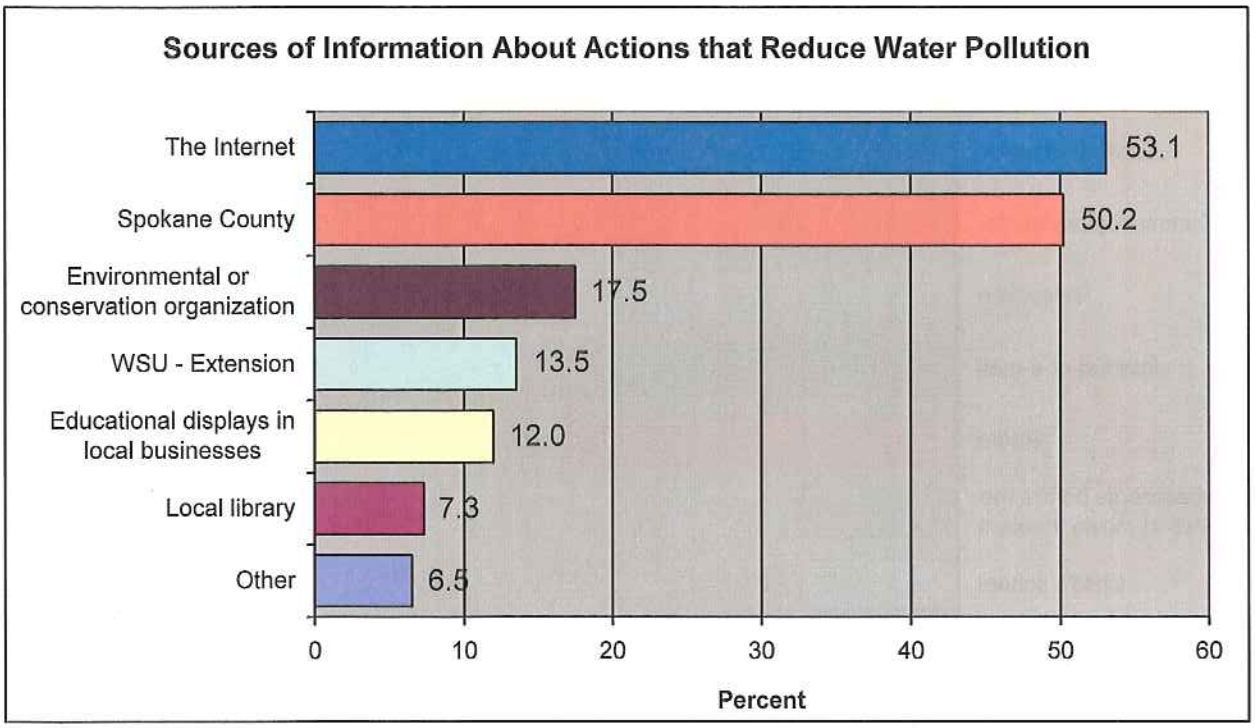
Your Information Preferences

14. Which of the following statements describes your awareness of efforts to improve water quality in your community?

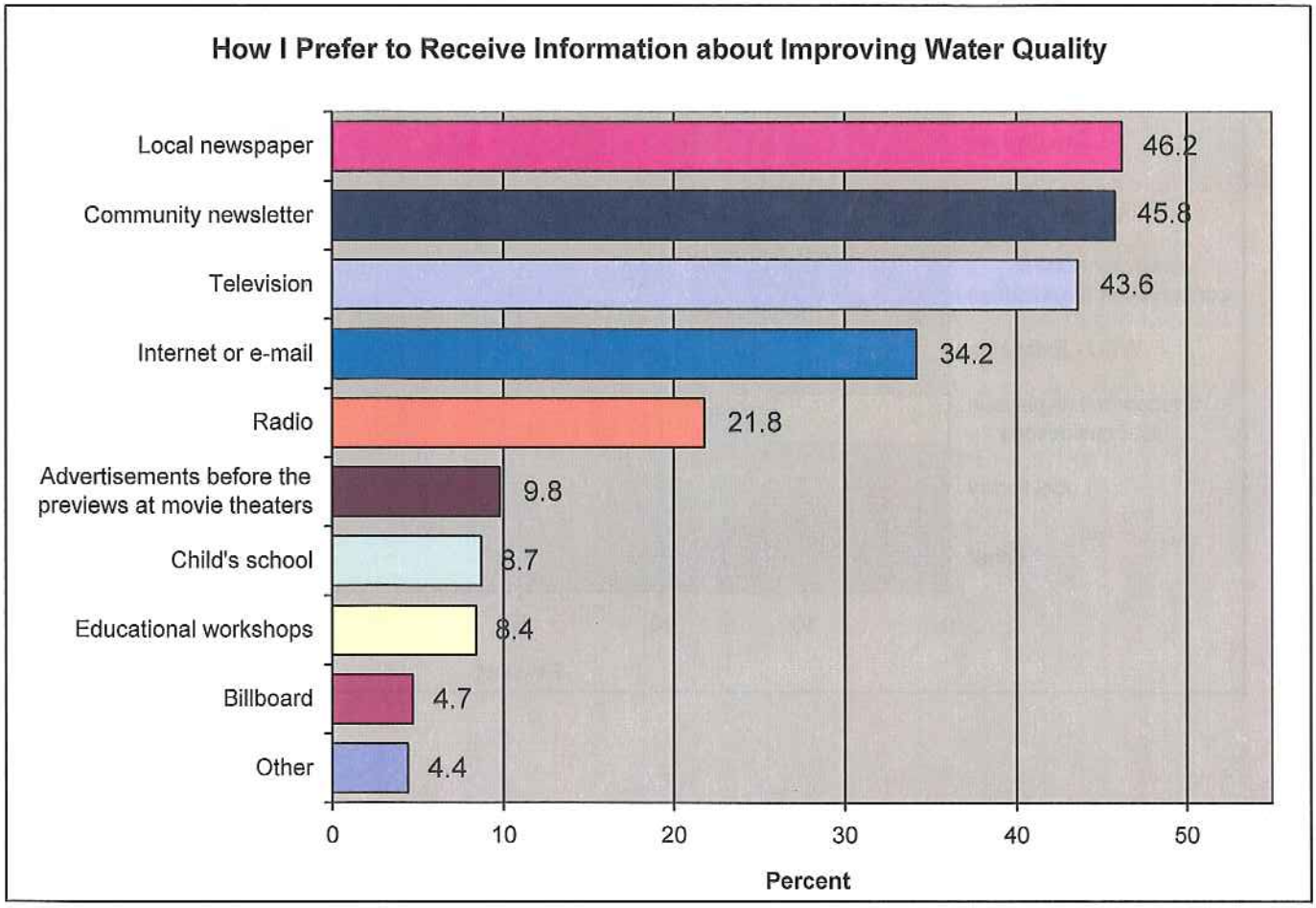
Very knowledgeable	Generally familiar	Not very knowledgeable	Not aware of any efforts	No Answer	TOTAL
14	104	124	26	7	n = 275



15. Which of the following sources would you most likely turn to for information about the practices listed on Page 4? *Please select all that apply.*

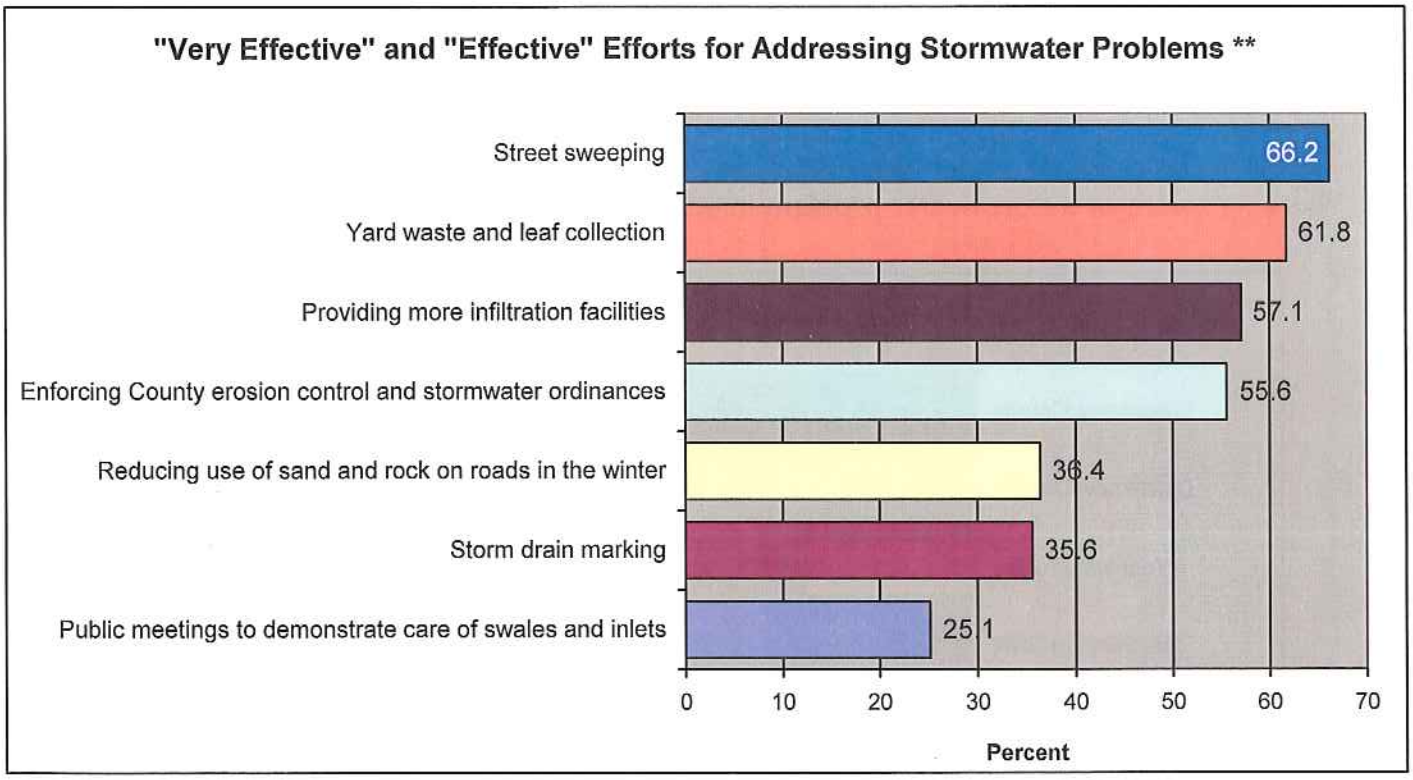


16. How would you prefer to receive information about activities that you can do to improve water quality in your community? *Please select all that apply.*

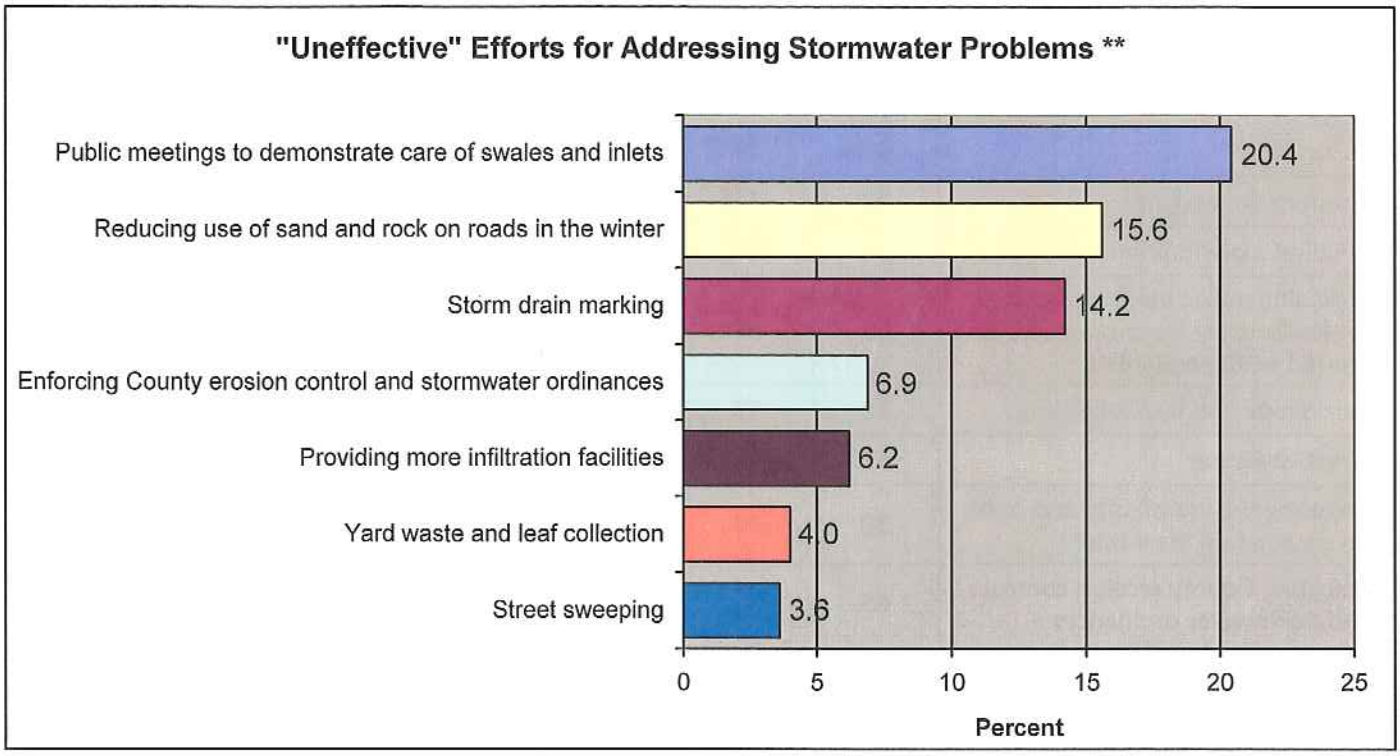


17. If implemented, how effective do you think the following types of efforts for addressing stormwater problems in your community would be?

	Very effective	Effective	Somewhat effective	Not effective	Don't know/ Not sure	No Answer	TOTAL
Storm drain marking	23	75	78	39	43	17	n = 275
Building more infiltration facilities	53	104	38	17	47	16	n = 275
Providing public meetings/courses to demonstrate the proper care of grassed swales and inlets	18	51	102	56	32	16	n = 275
Yard waste and leaf collection	78	92	58	11	19	17	n = 275
Street sweeping	62	120	50	10	20	13	n = 275
Reducing the use of sand and rocks on icy roads in the winter	30	70	67	43	48	17	n = 275
Enforcing County erosion control and stormwater ordinances	65	88	48	19	35	20	n = 275

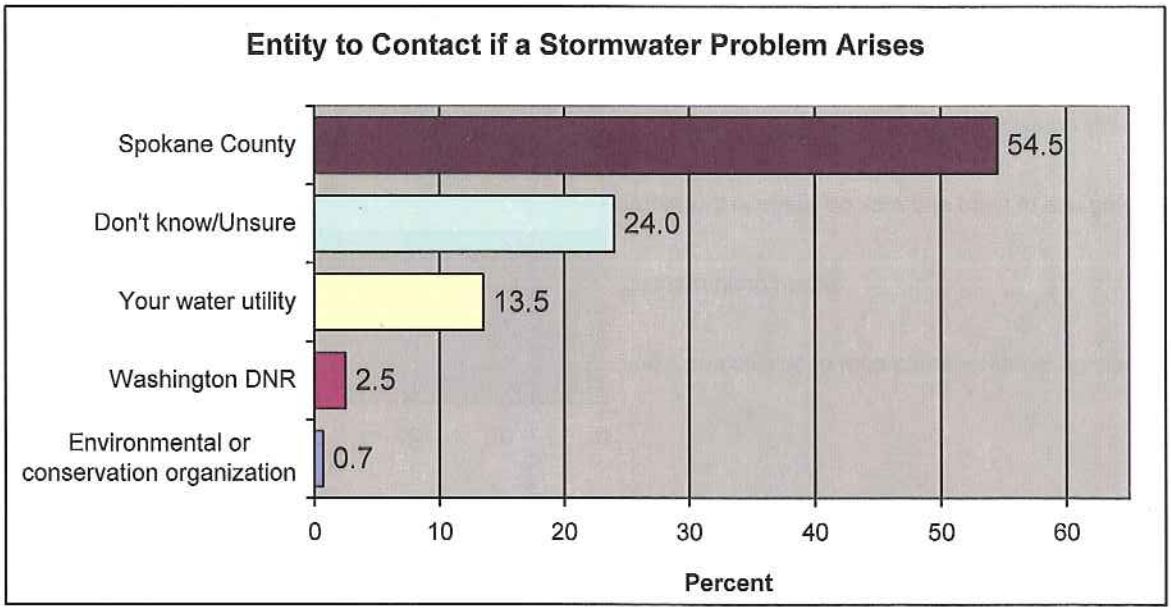


** Graph represents combined percentages of "Very Effective" and "Effective" responses



** Graph represents percentages of "Not effective" responses

18. In your opinion, which would be the most appropriate entity to contact if you became aware of a stormwater problem in your community?



Hand Written Responses and Additional Comments

5. After it rains or when snow melts, where do you think the resulting stormwater runoff ends up after it leaves your property? *Please select all that apply.* "Other" responses:

- Aquifer
- I'm not over the aquifer; I'm over a clay layer where groundwater moves very slowly
- In the aquifer through the soil
- My swale
- Most does not leave my property
- Perks into the ground
- Drywell in the street
- Grassland
- Catch basin
- Deep into the ground
- Settling pond
- Absorbed in the ground
- Stays on my land
- Doesn't leave my property until evaporation
- In the ground
- Goes to a ditch, is absorbed into the soil, and is likely filtered before getting to a stream or river
- Soaks into the soil
- Swales

7. When you mow your lawn, what do you do with the grass clippings? "Other" responses:

- Throw them into the woods out back
- Haul them to waste/energy
- Feed them to the neighbors cows
- Take to Waste Management
- Hauled off by lawn service
- Recycled
- Taken away by lawn crew
- Dump site at transfer station
- Distribute over my land
- Put them in the yard waste container
- Waste Management yard container
- Dump in pasture for horses to eat
- Garden recycling bin
- City green trash recycling program
- Mulching lawn mower
- Do not mow lawn – no lawn to mow

- Dump in undeveloped lot
- Deposit in yard waste bin
- Feed to horses
- Leave them on the lawn

9. Where do you most often wash your vehicle(s)? "Other" responses:
    - Do not wash my car
    - At the dealer when I get an oil change
    - At work
    - At the dealership
    - Don't have a vehicle

10. How do you dispose of products such as paints, varnishes, household cleaners, used motor oil, fertilizers, and/or pesticides? *Please select all that apply.* "Other" responses:
    - It's what the aquifer is for
    - Have a professional change my motor oil; never at home
    - Take oil to a retail store to be recycled

13. If you have any concerns related to the practices listed on Page 4, please briefly describe them here:
    - I would love to see more public awareness of safe alternatives for fertilizers, herbicides, and pesticides. Also, local merchants, especially large home improvement stores, need to promote and have affordable environmentally-friendly products. My bigger concern regards large agricultural areas (farms, ranches) and the products and practices they use.
    - Our storm drains end up in Spokane River, not treatment plant – Northwood Valley resident
    - How about some grant money to help a homeowner install a rain garden?
    - We live in a rural area without paved roads, sidewalks, etc., so if we leave pet waste or clean grass clippings on our lawn, that's not going to run into the river, right?
    - Please separate chemical fertilizer from weed killers in your questions. They are two distinctly different products (although sometimes combined in one bag).
    - I have a small farm in the countryside, so some of these practices are impractical
    - None of these practices prevent runoff from streets and parking lots
    - While water pollution is a concern to me, I'm leery of government solutions to the problem, since they usually go overboard just as they have done on the burning ban in Spokane County

15. Which of the following sources would you most likely turn to for information about the practices listed on Page 4? *Please select all that apply.* "Other" responses:
    - Work. I'm a pesticide consultant.

- Newspaper
- Liberty Lake Sewer and Water – Bijay Adams
- Mail
- Liberty Lake Sewer and Water District
- Newspaper
- Local businesses like Trugreen
- None. Eggheads don't know anything.
- Put on TV and advertise time and station
- Common sense
- Consolidated Irrigation District
- Ask friends/family and our lawn service company

16. How would you prefer to receive information about activities that you can do to improve water quality in your community? *Please select all that apply.* "Other" responses:

- Mail
- Letters in water bills
- Mall display
- Library
- Direct mailing
- On the TV news
- Don't care
- Enclosed in H_2O bill
- Workshop
- Don't use paper and get rid of ugly billboards

17h. If implemented, how effective do you think the following types of efforts for addressing stormwater problems in your community would be? "Other" responses:

- Reduce industrial waste
- Lots of K-12 education, including field trips and opportunities for home school families
- Pretty, arty storm drain markings – save the river with pictures of fish
- Developing stormwater planters and swales along the streets
- Encourage the use of non-polluting items to increase traction on icy roads
- Send overflow into detention ponds, rather than to rivers
- Enforce laws to control pet waste
- Use green ideas, not government ideas
- Investigate complaints from homeowners
- Reduction of sand trades one problem for another
- What about the use of de-icer?
- Public awareness of cause/effect behaviors
- TV to teach/demonstrate, offer to help our older population, and teach kindergartners

- Lay off all government employees
- Educating the community – people who know better do better
- Quicker removal of sand and dirt after winter
- Sand is better than de-icer
- Spokane needs the use of sand on icy roads
- More infiltration facilities are not needed
- None. Where I live, we don't need these things.

18. In your opinion, which would be the most appropriate entity to contact if you became aware of a stormwater problem in your community (for example, you see mud flowing into a storm drain)? *Please select ONLY ONE.* "Other" responses:

- An organization that can direct the complaint to the proper organization. I think there are several agencies with stormwater drains in my area, and I would not know which one to contact.
- Unless it's that enclosed magnet – Phone: 477-7525
- I have no faith in government at all
- I would contact my neighbors
- I have filed many complaints, but no one ever responds other than thanking me by e-mail
- I probably should contact Spokane County, but I doubt anything would actually get done
- I'd fix it myself because waiting for government is a waste of time
- I'm guessing Spokane County, since you sent the letter
- If I had a phone number, I would contact them

Additional Comments *(NOTE: Extra carriage return indicates next respondent's comments.)*

Question 6: That would be good to know (if storm drain and sewer systems are the same)
Question 17c: The people who take time to go to a meeting are unlikely to be the problem

Question 12o: I'm willing to pick up my pet's waste sometimes

Don't tell us what to do. I hope this is <u>not</u> the beginning of plans to put a new bunch of regulations in place.

Question 3: Idaho's old mines

FYI – This survey is way too long, I use organic fertilizer, and I don't change my own oil.

Question 3: Instead of guessing, I'd like to know from you what the biggest polluters are. I personally have concerns about the BNSF Fueling Depot in Hauser and the potential for a major disaster. Is this a valid fear?

Question 3: There is no real water quality problem at all
Question 4a: Poor drainages results in overflow to our wellhead
Question 12o: The deer shits where it wants to
Question 14: I don't give a damn

Stop wasting the taxpayers' money, stupid!

Question 11: My dog waste gets sucked up in the lawn mower – small dog
Question 12l: N/A
Question 12m: It's 140 feet to the street

Question 12n: I *sometimes* wash my car at a car wash

Question 11: I'm in the country

Question 14: We recently relocated to the area

Question 2a: Mining
Question 12a: I change my own oil and then take it to a recycling center
Question 6: In our area, it goes to a retention pond

Question 3: Highway construction is the greatest contributor to water quality problems
Question 6: Don't know if storm drain systems and sewer systems are the same

The survey is way too long. My glasses and silverware look terrible now that there is no phosphorus/phosphate in dishwasher detergent. I'm concerned that you and the County Commissioners will recommend a lot of changes which will be very expensive and raise our taxes so we will not be able to afford living in our house. Our soil is poor – without fertilizer, our grass would be thin and not green. I am against busybody government employees and elected officials endlessly pursuing the nanny state, in which you tell us how we must live our lives down to the smallest detail.

Question 6: Storm drain systems and sewer systems <u>should be the same</u>

It's a good idea to have advertisements before the movies. Mud flowing into a storm drain is bad?! There's a lot of education that we need about this!

Question 4c: The sun increases temperatures in lakes, rivers, and streams
Question 6: Most storm drain systems and sewer systems are the same

Question 3: I have no idea what people do. I know run-off is a problem but, for individuals like me, guessing what the extent is seems irresponsible. Why guess? Test the water and know.
Question 6: False is a guess
Question 8: I fertilize every 6 weeks and I use an organic program

Appendix B

Focus on Fertilizers & Pesticides

We compared how respondents believed lawn fertilizers and pesticides impacted local water quality versus their willingness to change their lawn fertilizer and pesticide application practices.

A number of highlights appeared:

1) Of those who believe lawn fertilizers and pesticides are *major contributors* to water quality problems:

   - 55% *already* limit applications of chemical inputs to 1-2 times per year, and 31% are *willing to do* so.

   - 12% *already* use no chemical inputs, and 28% are *willing to do* so. Notably, 23% are *not willing to do* so.

   - 19% *already* use fertilizer with no or limited amounts of phosphorus, and 52% are *willing to do* so.

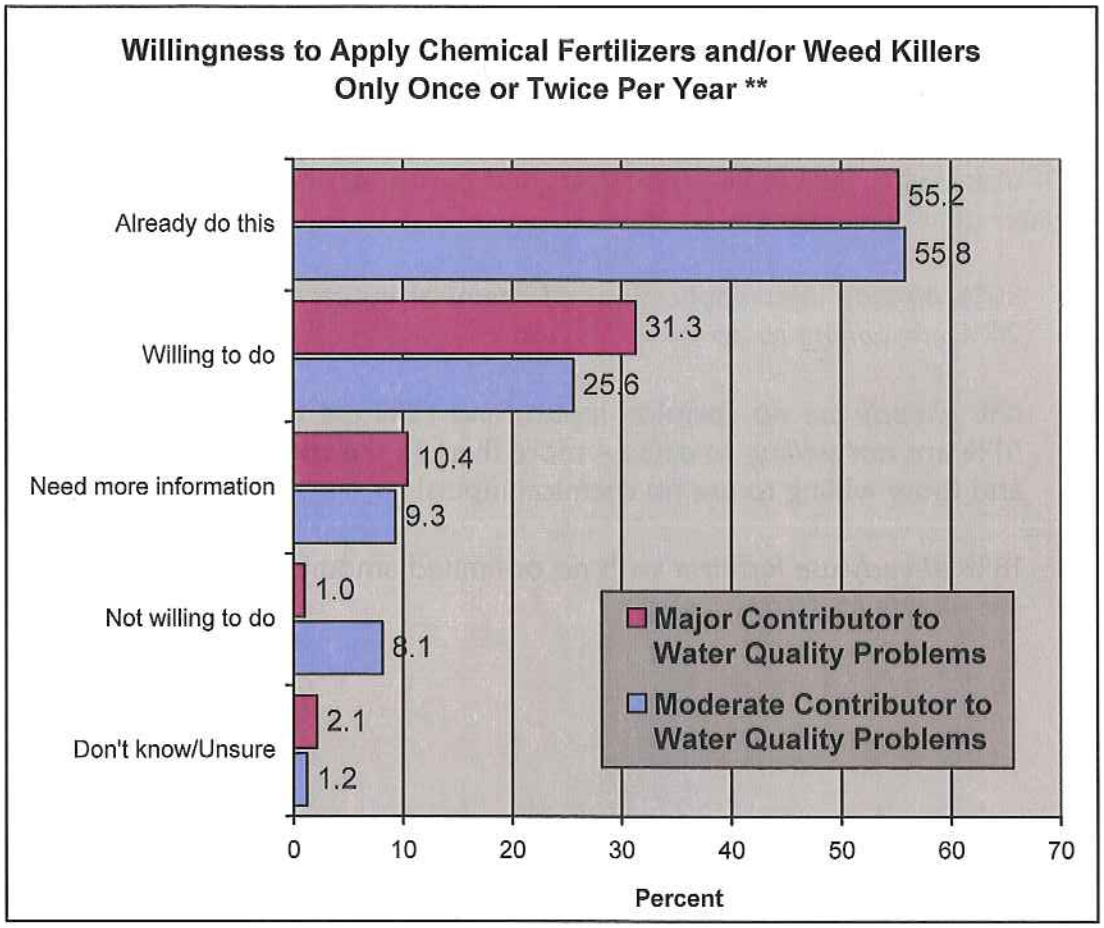
2) Of those who believe lawn fertilizers and pesticides are *moderate contributors* to water quality problems:

   - 56% *already* limit applications of chemical inputs to 1-2 times per year, and 26% are *willing to do* so.

   - 4% *already* use no chemical inputs, and 12% are *willing to do* so. Notably, 51% are *not willing to do* so – more than 3x the combination of those already and those willing to use no chemical inputs!

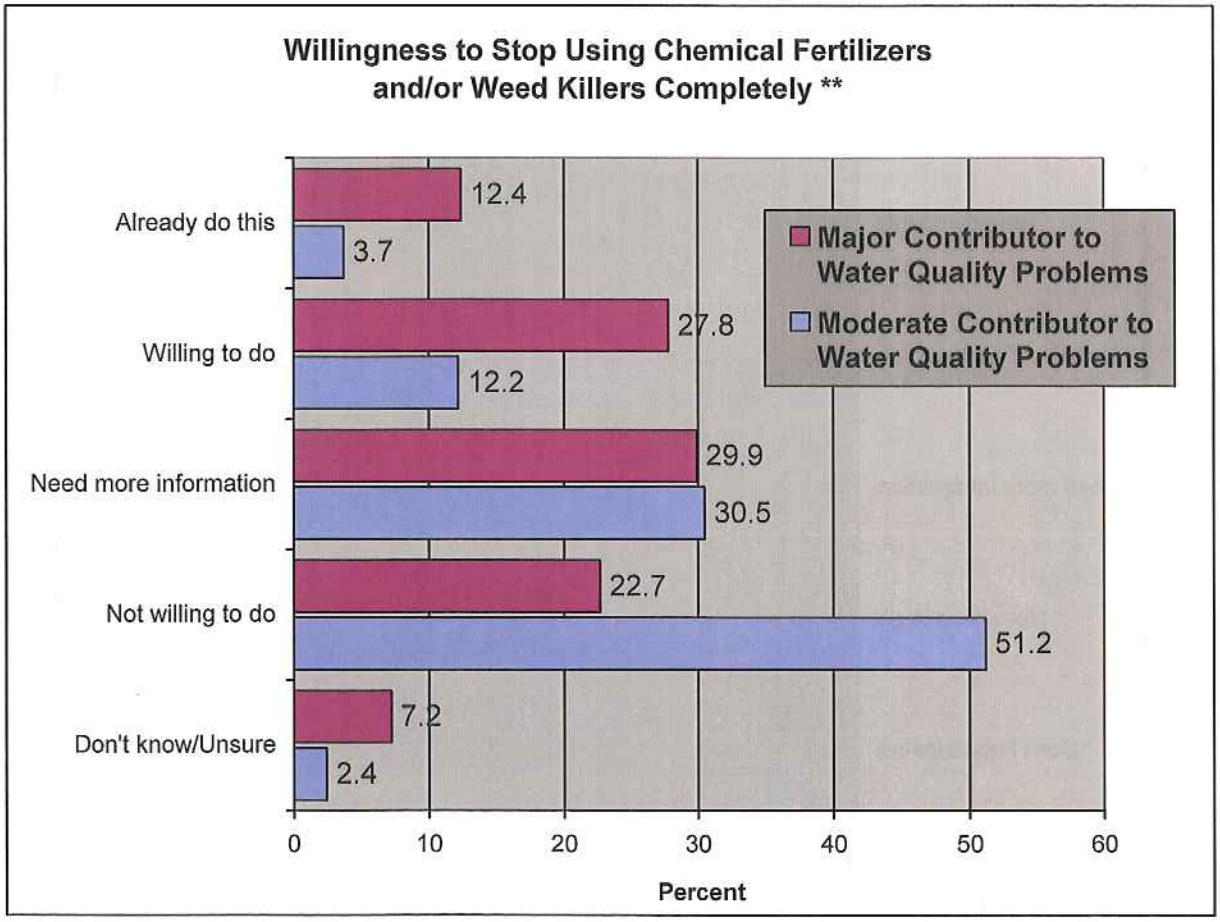
   - 16% *already* use fertilizer with no or limited amounts of phosphorus, and 42% are *willing to do* so.

		Willingness to apply chemical fertilizers and/or weed killers only once or twice per year (Q12.d)					
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that lawn fertilizers and pesticides contribute to water quality problems (Q2.c)	Major contributor	53	30	10	1	2	n = 96
	Moderate contributor	48	22	8	7	1	n = 86
	Minor contributor	26	18	11	5	1	n = 61
	Does not contribute	5	0	1	0	1	n = 7
	Don't know / Not sure	5	2	0	0	2	n = 9
						Total	n = 259



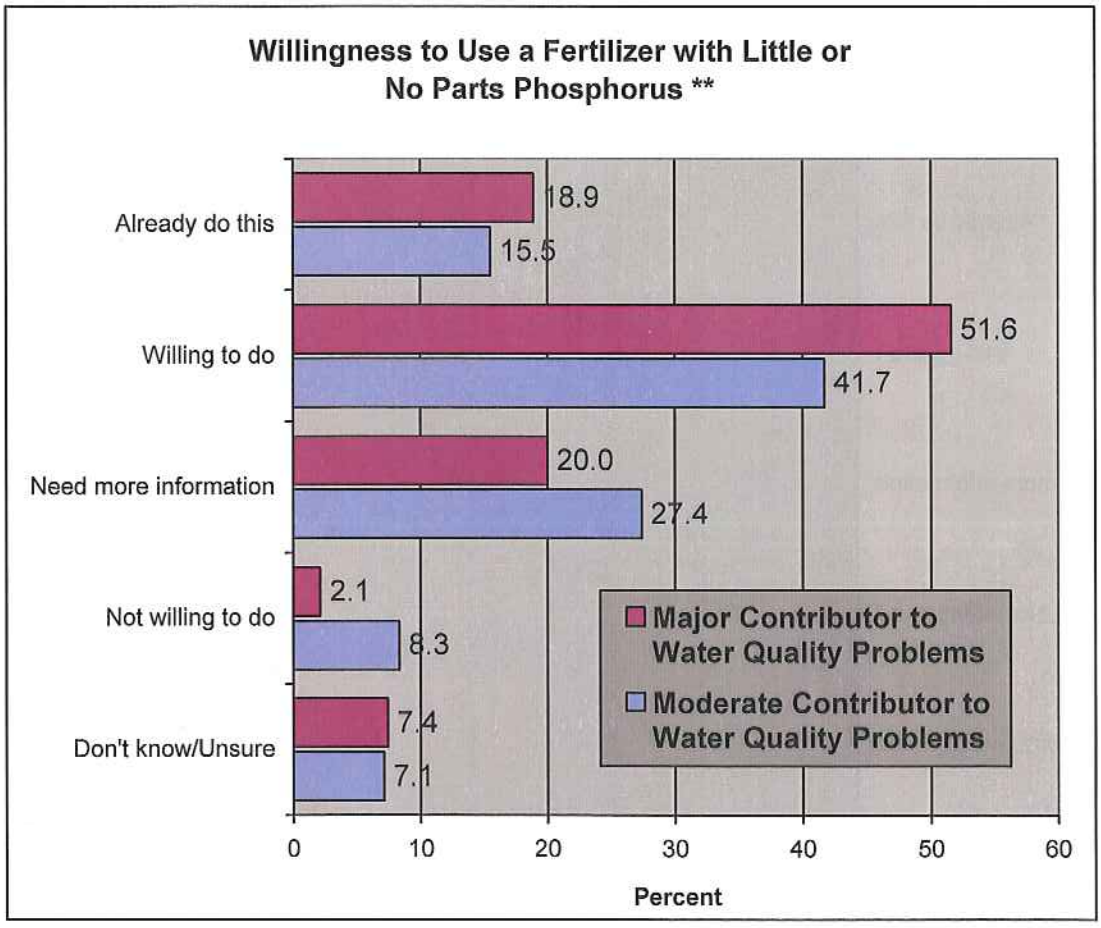
** Chart is a crosstabulation of respondents' belief that fertilizers and pesticides are major or moderate contributors to water quality problems and their willingness to limit fertilizer and pesticide applications to only once or twice per year

		Willingness to stop using chemical fertilizers and/or weed killers completely (Q12.e)					
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that lawn fertilizers and pesticides contribute to water quality problems (Q2.c)	Major contributor	12	27	29	22	7	n = 97
	Moderate contributor	3	10	25	42	2	n = 82
	Minor contributor	1	5	18	34	2	n = 60
	Does not contribute	0	0	1	6	0	n = 7
	Don't know / Not sure	0	1	4	4	0	n = 9
						Total	n = 255



** Chart is a crosstabulation of respondents' belief that fertilizers and pesticides are major or moderate contributors to water quality problems and their willingness to stop using chemical fertilizers and pesticides completely

	Willingness to use a fertilizer with little or no parts phosphorus (Q12.f)						
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that lawn fertilizers and pesticides contribute to water quality problems (Q2.c)	Major contributor	18	49	19	2	7	n = 95
	Moderate contributor	13	35	23	7	6	n = 84
	Minor contributor	7	20	22	7	5	n = 61
	Does not contribute	1	0	1	2	3	n = 7
	Don't know / Not sure	0	3	4	0	2	n = 9
						Total	n = 256



** Chart is a crosstabulation of respondents' belief that fertilizers and pesticides are major or moderate contributors to water quality problems and their willingness to use a fertilizer with little or no parts phosphorus

Appendix C

Focus on Motor Oil and Antifreeze

We compared how respondents believed the improper disposal of used motor oil impacted local water quality versus their willingness to change their motor oil and antifreeze disposal practices.

A number of highlights appeared:

1) Of those who believe the improper disposal of motor oil and antifreeze is a *major contributor* to water quality problems:

   - 75% *already* take their used auto oil to a recycling center, and 22% are *willing to do* so.

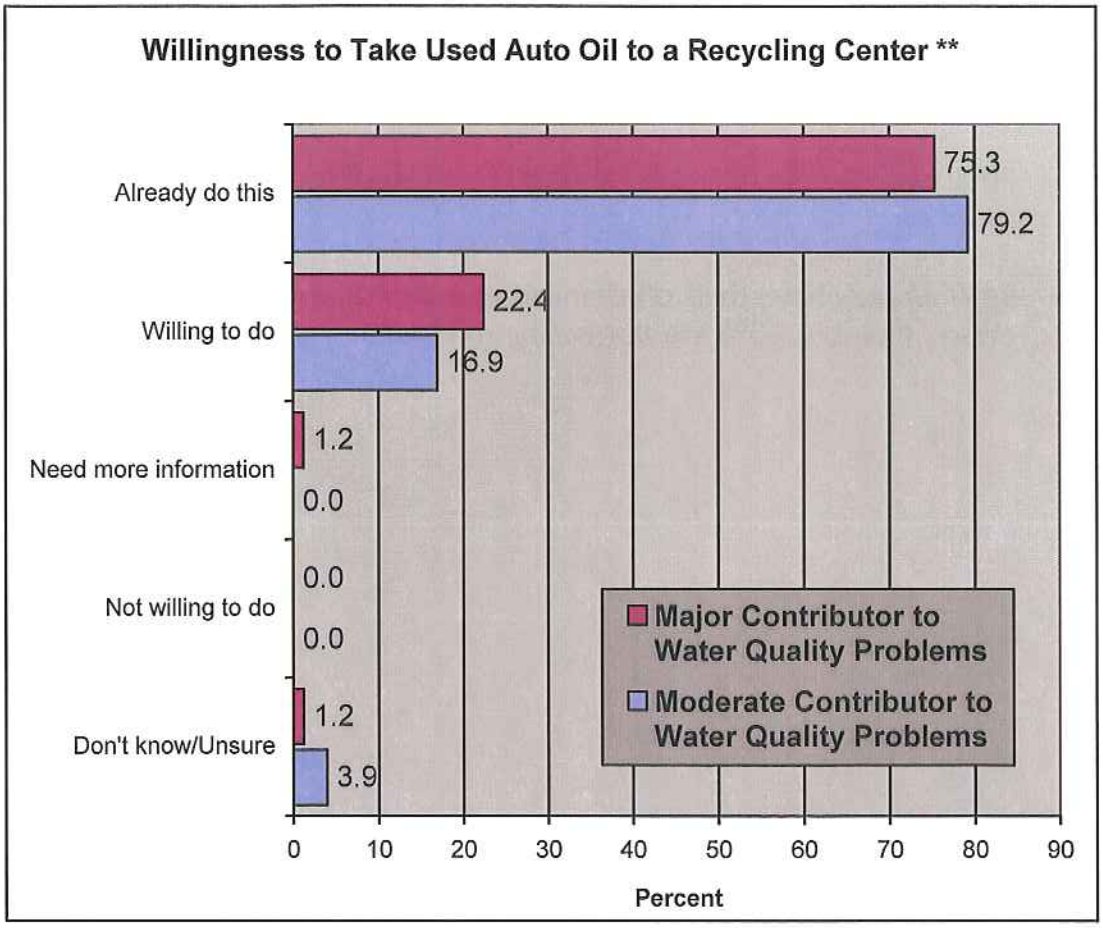
   - 81% *already* have their oil changed at a service center, and 11% are *willing to do* so.

2) Of those who believe the improper disposal of motor oil and antifreeze is a *moderate contributor* to water quality problems:

   - 79% *already* take their used auto oil to a recycling center, and 17% are *willing to do* so.

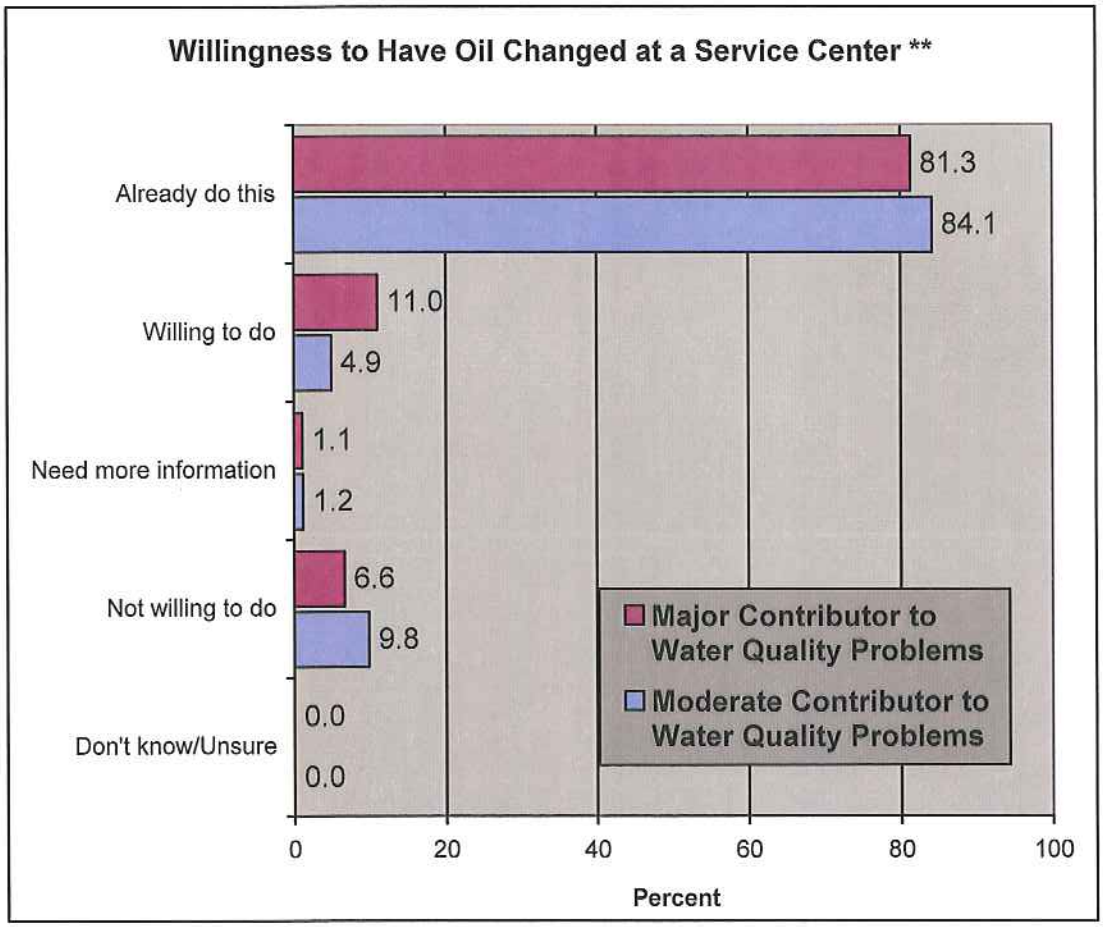
   - 84% *already* have their oil changed at a service center, and 5% are *willing to do* so. Notably, 10% are *not willing to do* so.

	Willingness to take used auto oil to a recycling center (Q12.a)						
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that the improper disposal of motor oil and antifreeze contribute to water quality problems (Q2.j)	Major contributor	64	19	1	0	1	n = 85
	Moderate contributor	61	13	0	0	3	n = 77
	Minor contributor	47	11	0	0	3	n = 61
	Does not contribute	8	0	0	1	1	n = 10
	Don't know / Not sure	11	4	0	0	2	n = 17
						TOTAL	n = 250



** Chart is a crosstabulation of respondents' belief that the improper disposal of motor oil and antifreeze is a major or moderate contributor to water quality problems and their willingness to take their used auto oil to a recycling center

		Willingness to have oil changed at a service center (Q12.b)					
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that the improper disposal of motor oil and antifreeze contribute to water quality problems (Q2.j)	Major contributor	74	10	1	6	0	n = 91
	Moderate contributor	69	4	1	8	0	n = 82
	Minor contributor	46	3	2	12	1	n = 64
	Does not contribute	7	0	0	2	1	n = 10
	Don't know / Not sure	15	0	1	2	0	n = 18
						TOTAL	n = 265



** Chart is a crosstabulation of respondents' belief that the improper disposal of motor oil and antifreeze is a major or moderate contributor to water quality problems and their willingness to have their oil changed at a service station

Appendix D

Focus on Pet Waste

We compared what pet owners believe about the impact pet waste has on local water quality versus their willingness to pick up after their pet.

A number of highlights appeared:

1) Of those who believe pet waste is a *major contributor* to water quality problems:

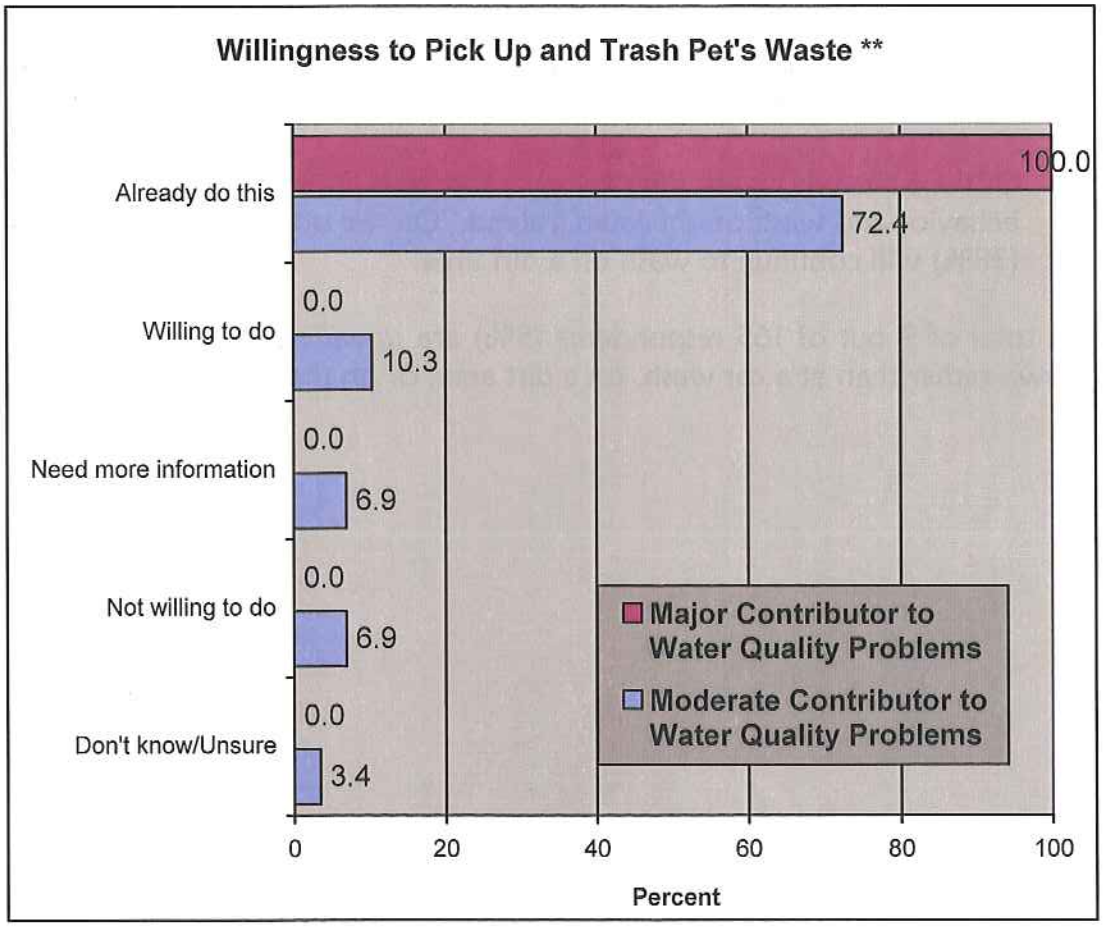
   - 100% *already* pick up and trash their pet's waste!

2) Of those who believe pet waste is a *moderate contributor* to water quality problems:

   - 72% *already* pick up and trash their pet's waste, and 10% are *willing to do* so.

3) Only 11 out of 165 respondents (7%) stated that they are unwilling to pick up after their pet at home or while out walking.

		Willingness to pick up and trash pet's waste (Q12.o) NOTE: 98 respondents indicated they do not have a pet					
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Belief that pet waste contributes to water quality problems (Q2.e)	Major contributor	15	0	0	0	0	n = 15
	Moderate contributor	21	3	2	2	1	n = 29
	Minor contributor	57	12	1	8	1	n = 79
	Does not contribute	25	1	0	1	2	n = 29
	Don't know / Not sure	12	1	0	0	0	n = 13
						TOTAL	n = 165



** Chart is a crosstabulation of respondents' belief that pet waste is a major or moderate contributor to water quality problems and their willingness to pick up and trash their pet's waste

Appendix E

Focus on Car Washing

We compared information about where respondents most often wash their car and, for those times they wash at home, their willingness to wash their car on the lawn.

A number of highlights appeared:

1) Of those who most often *wash their car on the driveway*:

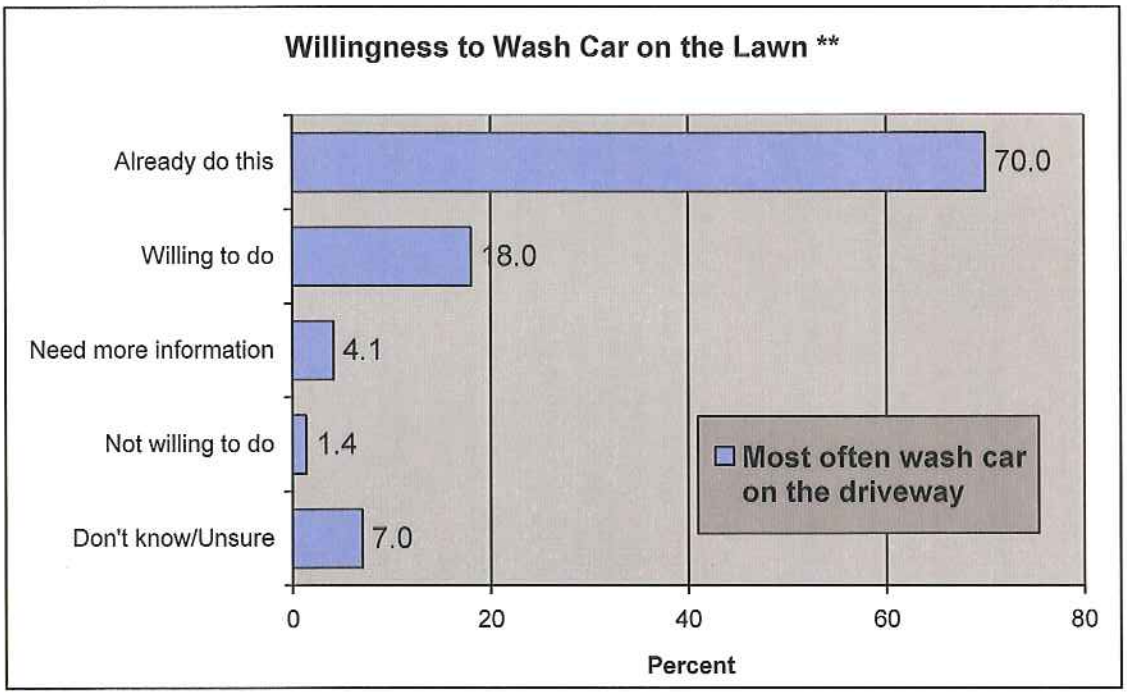
   - 70% say they also wash their car on the lawn
   - 18% say they are *willing to* wash their car on the lawn
   - Only 1% are *unwilling to* wash their car on the lawn

2) Of those who most often *wash their car on a grassed or dirt area*:

   - It can be reasonably concluded that at least 47% of these respondents wash their car on the lawn, while approximately 53% wash their car on a dirt area
   - Of the 53% who wash their car on a dirt area, 38% are *willing to* change that behavior and wash on the lawn instead. On the other hand, the same amount (38%) will continue to wash on a dirt area.

3) A total of 9 out of 165 respondents (5%) are *unwilling to* wash their car on the lawn rather than at a car wash, on a dirt area, or on the driveway.

		Willingness to wash your car on the lawn (Q12.m)					
		Already do this	Willing to do	Need more information	Not willing to do	Don't know / Not sure	TOTAL
Where vehicle is washed most often (Q9)	At home – on the driveway	51	13	3	1	5	n = 73
	At home – on a grassed or dirt area	7	3	0	3	2	n = 15
	At a car wash	102	38	6	5	3	n = 154
	Other	2	2	0	0	0	n = 4
						TOTAL	n = 246



** Chart is a crosstabulation of those respondents who most often wash their vehicle on the lawn and their willingness to wash their car on the lawn

Public Involvement and Participation Documentation on the Spokane Regional Stormwater Manual (SRSM)

Summary Sheet

Public Participation:

- 6 public workshops at various locations around the Spokane area
- Posting on the Spokane County website
- Newspaper notices in the Spokesman Review
- Library postings at Spokane County libraries
- Email distribution to the neighborhood representatives, engineers, developers, etc.
- Media releases
- Articles in the Spokesman Review and Journal of Business
- Review and approval by Washington State CTED
- SEPA determination and public comment period
- Planning Commission Public Hearing
- Spokane County Commission Review

Public Involvement and Participation Documentation on the Spokane County Code IDDE Ordinance Revisions

Summary Sheet

Public Participation:

- Public workshops at Spokane County Public Works Building
- Posting on the Spokane County website
- Newspaper notices in the Spokesman Review
- Library postings at Spokane County libraries
- Media releases
- Article in the Spokesman Review
- Review and approval by Washington State CTED
- SEPA determination and public comment period
- Planning Commission Public Hearing
- Spokane County Commission Review

Eastern Washington
Phase II Municipal Stormwater Permit
Coordinator's Forum

Meeting Agenda

10:00 a.m. to 3:00 p.m., January 12, 2012
Moses Lake Fire Station #1
Multi-Purpose Room
701 E. Third Avenue, Moses Lake, WA

Agenda Items:

10:00 a.m. Welcome & Introductions – *Russ Connole, Spokane County*
Michelle Shields, City of Moses Lake

10:10 Proposed Revisions to the E. WA Phase II Permit

- Summary of Proposed Permit Modifications (**Please bring a copy of the Ecology's Draft Permit Revisions and your jurisdictions draft comments, if available**)
  - Each jurisdiction will have time to summarize their comments.
  - How to comment discussion; as a group, individually or both?
    - E. WA Coordinator Group "High Points" letter?

11:15 Draft Permit – Comment and Coordination Topics

12:00 Lunch

1:15 Summary of Jurisdictional Comments on Proposed Permit Revisions

1:45 Update on the FY 2012 Statewide Stormwater Grant Program Application Funding – State Budget Issues

1:50 New Grant Program – FY 2012 Municipal Stormwater Grants of Regional or Statewide Significance – Due January 19th, 2012

- Discussion of jurisdictional/statewide grant projects
  - Low Impact Development Guidance Manual
  - IDDE Guidance Manual (statewide - King County Project)
  - Others…
- Discussion of jurisdictional coordination and partnership opportunities
  - *Letters of Support/Participation*

2:45 Other Business, Announcements and Closing

3:00 Adjourn

SIGN IN SHEET - Eastern Washington NPDES Stormwater Coordinator's Forum

Location: Moses Lake Fire Station #1, Multi-Purpose Room
Date: January 12, 2012

Name	Organization	Email address	Phone
Doyle Heath	City Of Pasco	heathd@pasco-wa.gov	509-545-3444
Lynn Schmidt	City of Spokane	lschmidt@spokanecity.org	625-7908
Raegene Gennett	" " "	rgennett@spokanecity.org	625-7946
John Bykonen	" " Richland	———	(509) 539-4989
Nancy Aldrich	City of Richland	naldrich@ci.richland.wa.us	509 942 7508
Russ Connolo	Spokane County	rconnolo@spokanecounty.org	509-477-7245
Jay Baden	Walla Walla Co	jbaden@wwcountyroads.com	509 524-2727
Cheryl Sonnen	Asotin Co	CSonnen@co.asotin.wa.us	509-243-2071
Rob Buchert	City of Pullman	rob.buchert@pullman-wa.gov	509-338-3314
Don Gatchalian	Yakima County	donald.gatchalian@co.yakima.wa.us	509-574-2300

Name	Organization	Email address	Phone
Brian Cochrane	Yakima County		(509) 574-2300
Tony Garcia	City of Walla Walla	TGarcia@ci.walla-walla.wa.us	509)524 4669
Gene Patterson	WSU Pullman	gpatters@wsu.edu	509-335-5510
Matt Zarecor	Spokane County	mzarecor@spokanecounty.org	
Bryan Woodard	City of West Richland	bwoodard@westrichland.org	(509) 967-5439
Ted Pooler	City of Selah Huibregtse, Louman Assoc.	tpooler@hlacivil.com	509-966-7000
Martin Nelson	City of Kennewick WA	martinn@ci.kennewick.ws.us	509 585 4306
Shilo Sprouse	City of Pullman	shilo.sprouse@pullman-wa.gov	509-432-9052
Brandon Mausath	City of East Wenatchee	bmausath@east-wenatchee.com	(509) 884-1829
Jessica Shaw	City of Wenatchee	jshaw@wenatcheewa.gov	(509) 888-3225
Art Jenkins			

Spokane Regional Solid Waste System

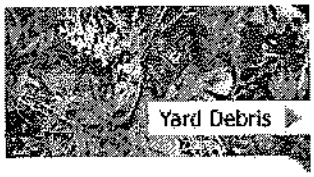
about us | contact us | sitemap | facebook

HOTLINE 625-6800

Home
Regional Disposal Sites
Recycling
Waste to Energy
SRSWS Composting
Hazardous Waste
Construction & Demolition
Public Outreach
Info Library
About Us

Just for KIDS!

Spokane Regional Solid Waste System
[illegible]
Spokane, WA 99201



Household Hazardous Waste

Many products used in our homes contain hazardous chemicals. The average family has more than 60 hazardous products at home, including such common items as disinfectants, pesticides, toilet cleaners, oil-based paints, and motor oil. You can identify hazardous products by reading the labels. Products labeled Danger, Warning, or Caution warn of potential hazards if the chemical product is misused, spilled, or disposed of improperly. It is important to handle these products with care to prevent harm to yourself, other living things, and our environment.

At the time of disposal, these products are called Household Hazardous Waste (HHW).When hazardous waste products are thrown into the garbage, onto the ground, or down storm drains, they can contaminate our air and water and pose a threat to human health and wildlife.

Waste oil, antifreeze, vehicle batteries, pesticides, paints, gasoline, cleaners and other household hazardous wastes are accepted at the following disposal sites in the household hazardous waste area, no charge:

- Valley Transfer Station - 3941 North Sullivan
- North County Transfer Station - 22123 Elk-Chattaroy Road
- Waste-to-Energy Facility - 2900 South Geiger Blvd.

Materials should be in leak-proof containers with the contents labeled on the outside. No containers greater than 5 gallons. If you would like your gasoline, waste oil or antifreeze container returned, just ask the attendant. Sorry, other waste containers cannot be emptied and returned.

Hours of operation at all three sites are:
7:00 a.m. till 5:00 p.m., Seven days a week except major holidays

Reuse: Each site has a re-use table were you may take items for FREE. Just sign a waste exchange form.

Paint: Paints may be taken to the household hazardous

News & Updates

2013 Spring Compost Fair

2013 Spring Compost Fair Handout

2010 Spokane County Recycling Rate
Residential Food Scraps and Food-soiled Paper Collection
2009 Spokane County Comprehensive Solid Waste Management Plan approved by the Dept of Ecology April 15, 2011
2011 Annual Report
What You Should Know About Illegal Dumping.
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waste areas OR just thrown in with your regular solid waste. Check with your solid waste collector to see if full cans of paint are acceptable.

What happens to the household hazardous waste? Those items that cannot be re-used are either recycled, like antifreeze and vehicle batteries, or disposed of at a licensed hazardous waste disposal facility.

Household Hazardous Waste Areas at Waste To Energy Stations:

The Waste to Energy plant and the two transfer stations each have a recycling/household hazardous waste (HHW) facility which is open to the public during the same hours as the disposal sites. These recycling/HHW facilities are accessed without crossing the scales and materials are accepted without charge.

Household Hazardous Waste Handling:

The adjacent household hazardous waste area in the Recycling Centers at the Transfer Stations and the Waste to Energy plant accepts household batteries, automotive batteries, motor oil, paints and solvents, and other household hazardous waste. Items are placed in a designated drop-off area for the public and transferred to a secure storage building by a trained employee.

Specially trained personnel sort and package the material for shipment to a hazardous waste landfill or incinerator. In some cases, the materials (such as oil, vehicle batteries, button-cell batteries, etc.) may be prepared for recycling

Refrigerant Recovery Program:

Refrigerant containing appliances, such as refrigerators, freezers and air conditioners, are accepted at both transfer stations and the waste to energy plant. Disposal fees are based on the weight of the appliance and the current disposal rate. Once the units are dropped off, the refrigerants are recovered and reclaimed while the remaining carcass is sent to a local metals recycler.

EnviroKids' Club

THE GREEN ZONE

"ONE MAN'S TRASH"

Recycling Hotline
625-6800

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Spokane Regional Solid Waste System

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HOTLINE 625-6800

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Recycling
Waste to Energy
SRSWS Composting
Hazardous Waste
Construction & Demolition
Public Outreach
Info Library
About Us

Hazardous Waste from Businesses

Business waste CANNOT be accepted at the household hazardous waste facilities. Disposal options for hazardous waste generated from businesses depends on the amount the business generates:

Small Quantity Generator:

Businesses that generate less than 220 pounds of dangerous waste or 2.3 pounds of acute hazardous waste may make an appointment for convenient, once-a-month disposal on the last Tuesday of every month, via a licensed contractor at the Valley Transfer Station, 3941 North Sullivan Road. Register with PSC, 509-922-6417, and bring your materials at the appointed time. You will need to pay all disposal charges at the time you leave your waste. Businesses will receive a disposal record to show that they are properly managing their hazardous waste.

Large Quantity Generator:

For businesses that generate more than the above amounts, disposal is regulated by the Washington Department of Ecology. These businesses must contract for services. Call the Recycling Hotline, 509-625-6800 for an Ecology-approved listing of contractors.

Technical Assistance/Education:

You can receive a FREE assistance visit. Learn how to reduce and manage your hazardous waste and save money through pollution prevention. Call (509) 625-7898

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→ Just for KIDS!

Spokane Regional Solid Waste System
808 W. Spokane Falls Blvd.
Spokane, WA 99201

Recycling Hotline
625-6800

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YOU ARE THE SOLUTION TO STORMWATER POLLUTION

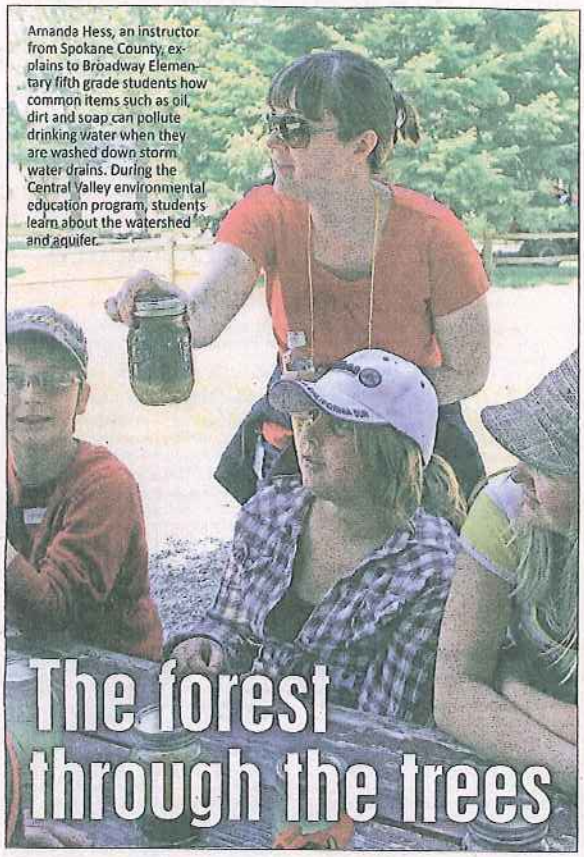
STORM DRAIN DAN

SPOKANE COUNTY

Stormwater Hotline

477-7525

COMMUNITY



Amanda Hess, an instructor from Spokane County, explains to Broadway Elementary fifth grade students how common items such as oil, dirt and soap can pollute drinking water when they are washed down storm water drains. During the Central Valley environmental education program, students learn about the watershed and aquifer.

A special section just for kids

The Wave

Brought to you by

kiDDS dental

The forest through the trees

CURRENT PHOTOS BY TAMMY KIMBERLEY

Fifth grade students from Ponderosa Elementary School try to figure out how to use a bucket and items in their possession to retrieve a rope to swing to the other side. Many students said that the team-building activities were their favorite part of the outdoor experience at Liberty Lake Regional Park.

Fifth graders explore environment, water and teamwork

By Tammy Kimberley
WAVE EDITOR

LIBERTY LAKE — While it may have appeared to be a break from studying to many students, the elementary kids who traveled to Liberty Lake Regional Park on a recent school day did just as much — if not more — learning than they do on a typical school day.

Kids received an up-close look at local forestry and wildlife, hearing how fires can benefit the forest and learning the difference between carnivores and herbivores. Broadway Elementary School student Calvin Crawford, 11, said he was fascinated by the black bear skull found in the woods.

"I never knew that black bears' heads were so small," he said.

Each spring, fifth grade students who attend school in the Central Valley School District take a day away from the classroom to participate in the environmental education program at the park. Nearly 1,100 students look forward to the trip each year, thanks to contributions from the Spokane Public Utility Division as well as funds from local school budgets.

The students rotate through various stations that also deal with the local watershed, beaver ecology and teamwork. Teachers from the district as well as instructors from Spokane County and Liberty Lake Sewer and Water District take part to connect kids to nature, science and one another.

Volunteers from Spokane County provided students with a visual lesson by showing jars with different items that can pollute the aquifer, the source of this area's drinking water. They led a discussion of how to prevent various types of pollution, such as trash, chemicals and even dirt, from entering storm drains.

"I didn't know that drains don't go to the sewer. They actually go to the aquifer," said Broadway Elementary student Bellamie Sy, 11.

The history of the area as well as recent work done by beavers along trails in the park was a point of discussion as kids walked to the various stations.

"This place (the park) used to be wetlands," Broadway student Kaleb Sabota, 11, said.

Several kids said their favorite activities were the wall and ropes course where students worked together to solve a problem. Brady Magruder, an 11-year-old from Ponderosa Elementary School, said he most enjoyed working together with his group to hoist everyone over the 10-foot wall.

"I learned that teamwork can solve just about anything," Brady said.

COMMUNITY

Park provides glimpse at local ecosystem

Liberty Lake Regional Park, 3707 S. Zephyr Road in Liberty Lake, includes many trails and opportunities to have a unique experience in the environment. Some local agencies hold special events at this park where you can learn more about how the local ecosystem operates. For more information on hours and admission fees, go to www.spokanecounty.org/parks.

This six-question quiz includes topics discussed with students during an environmental program at the county park. Some are true and some are false. Guess if the statement is accurate, and then check answers below.

Take this quiz to learn fun facts about our environment

By Tammy Kimberley
WAVE EDITOR

An old melody, often sung by Scouts or around campfires says, "Make new friends, but keep the old. One is silver and the other gold." The same can be said for parks in the Spokane Valley area. While newer parks provide features such as climbing walls, splash pads and other areas for play, older parks provide some valuable history about the area and can give visitors a better appreciation of Mother Nature.

WAVE PHOTO BY TAMMY KIMBERLEY

Everyday items, such as antifreeze and dirt, serve a purpose but can become pollutants when they mix with water and are washed down storm water drains into the aquifer.

T F 1) Liberty Lake Regional Park is the smallest county-owned park in the state of Washington.

T F 2) Beavers wander around this green space during the day.

T F 3) Cat litter is helpful in cleaning up antifreeze to prevent it from entering our water source.

T F 4) The best place to wash a car is the driveway.

T F 5) Forest fires can be good for the environment.

T F 6) Black bears have been sighted at Liberty Lake Regional Park.

ANSWERS
1) False. Liberty Lake Regional Park is 300 acres of the 3,000 acres of parks that the county parks department maintains. 2) True. Beavers are usually active during daylight hours. 3) False. Cat litter or baking soda can help clean up oil spills, but it does not work to clean antifreeze. 4) False. Washing your car on the grass is the best option. The grass acts as a filter for pollutants — plus you're watering the lawn at the same time! 5) True. Forest fires are a natural part of the ecosystem in balance. 6) True. Black bears have been sighted at the park.

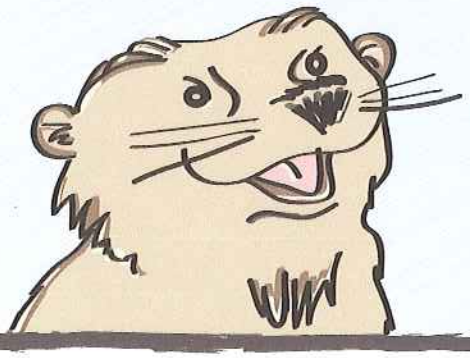
Spokane County Interstate Fair

Storm Drain Stenciling

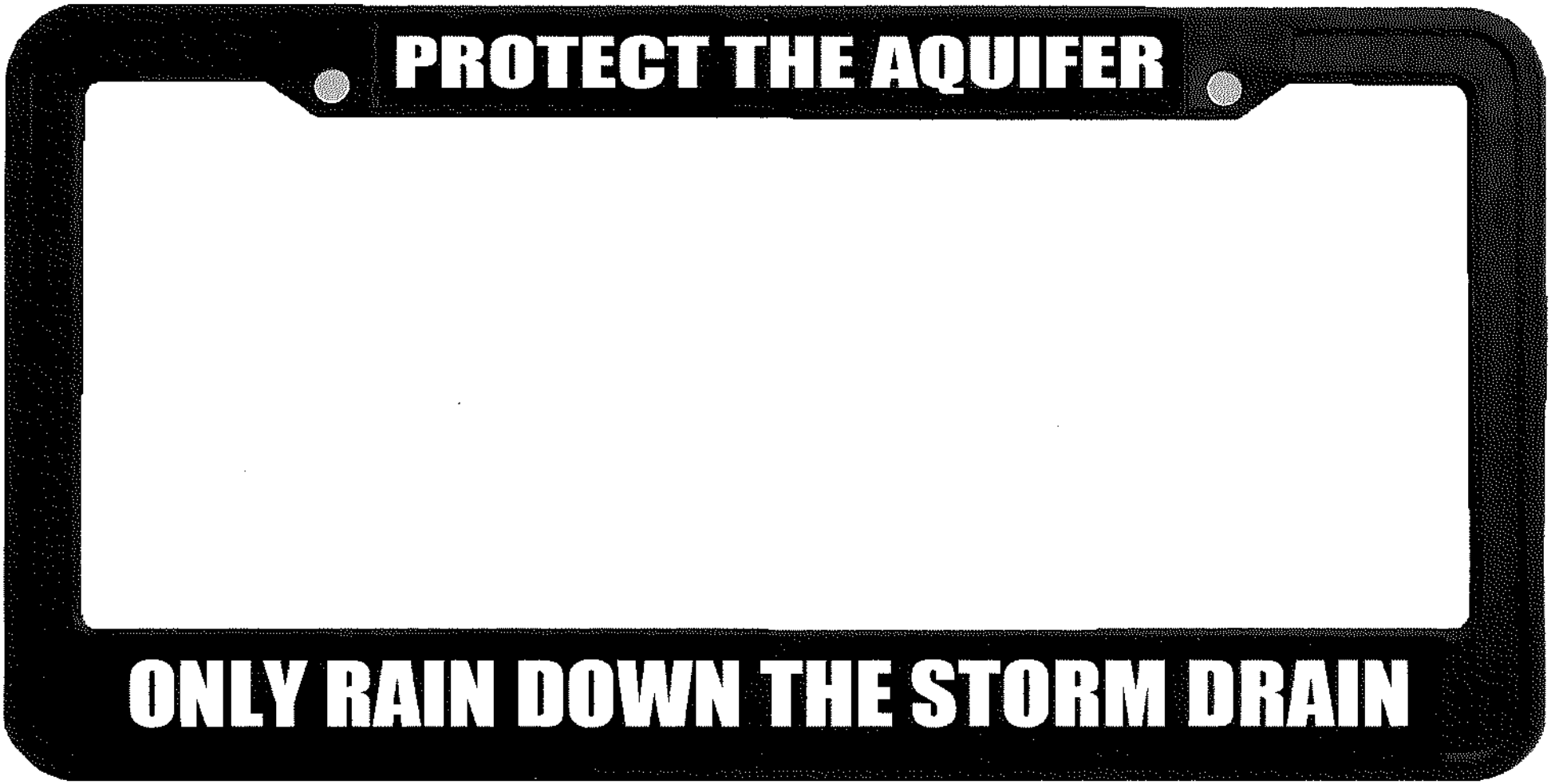
WALLY'S WORD SEARCH

R I E T R A W T E P E S T I C I D E S E
G R E A S E D F E R T I L I Z E R M W A
J E U I D G F H X E S N T S C A A T O S
O E R T S O P M O C D F E S I C W P Z N
S Z L O N G O B W I L I T N X B N W Z O
M E I U Q T G Y W P O L L U T I O N R W
P E R E O F Z E I I L T J A Q U I F E R
N R B R W E X R J T W R S E R R T V T M
S F O L I T T E R A J A Q W E L A J S R
M I Y U E S P S G T A T T L V M R R A D
L T U Q D A W P S I E I Z E I N O U W O
N N Y S I W B R I O M O N C R E P A D L
P A W N Z T Y U R N T N K D W L A R R V
T A T U R E T A W H S A W R A C V L A S
H R I X N P S P S T O R M W A T E R Y A

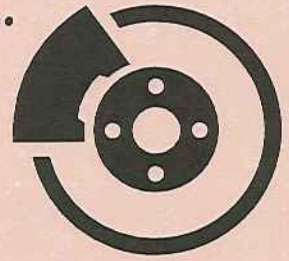
STORMWATER
AQUIFER
SNOW
RAIN
RIVER
PRECIPITATION
INFILTRATION
EVAPORATION
RUNOFF
POLLUTION
PET WASTE
PESTICIDES
FERTILIZER
PAINT
CAR WASH WATER
YARD WASTE
LITTER
MOTOR OIL
GREASE
ANTIFREEZE



Hidden in the puzzle above are words having to do with water plus common types of water pollutants. Remember to look up, down, across, backwards, and diagonally!


PROTECT THE AQUIFER
ONLY RAIN DOWN THE STORM DRAIN

put the brakes on waste...



recycle your used motor oil!

Waste engine oil, oil filters, antifreeze, vehicle batteries, and other hazardous materials are accepted at these disposal sites in the household hazardous materials area FOR FREE:

Valley Transfer Station —
3941 North Sullivan Road

North County Transfer Station —
22123 Elk-Chattaroy Road

Waste-to-Energy Facility —
2900 South Geiger Boulevard

- Materials must be placed in leakproof containers with the contents labeled on the outside.
- Containers are limited to less than five (5) gallons.
- If you would like your waste oil, antifreeze, or gasoline container returned, ask the attendant.

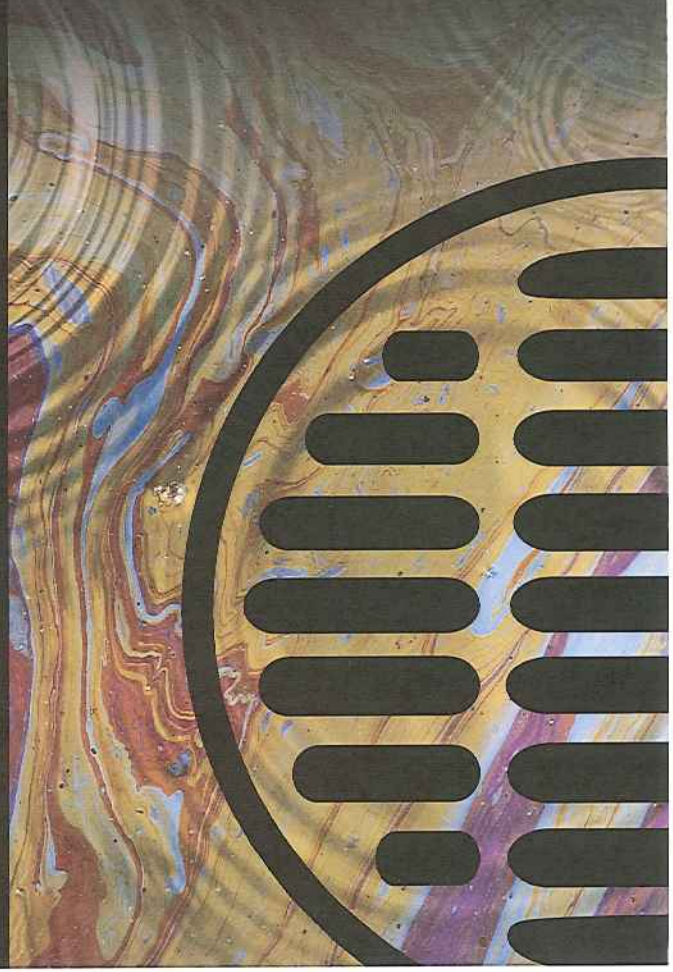
FOR MORE INFORMATION ABOUT STORMWATER POLLUTION AND STORMWATER MANAGEMENT IN SPOKANE COUNTY, CONTACT:

Spokane County Stormwater Utility
1026 West Broadway Avenue
Spokane, WA 99260-7284
www.spokanecounty.org
Phone: 509-477-3600
Fax: 509-477-7655

SPOKANE COUNTY

YOU DUMP IT, YOU DRINK IT.

a guide to automotive care and fluids disposal



Where do storm drains lead?

We all know the purpose of a storm drain is to carry rainwater away from streets and parking lots to prevent flooding.

However, it's a little-known fact that most storm drains are NOT connected to sanitary sewer systems and treatment plants. The untreated stormwater and the pollutants it carries are simply infiltrated into the ground.

The threat... and the solution!

According to the American Petroleum Institute, 60% of all DIY oil changers improperly dispose of used motor oil. Every year, *millions of gallons* of used motor oil are dripped, spilled, and poured on the ground or down storm drains.

Waste oil dumped illegally into storm drains is a serious problem in Spokane County because it can contaminate our drinking water supply, the Spokane Valley-Rathdrum Prairie Aquifer.

If you think a little bit of spilled oil won't do any harm, think again! It only takes a single gallon of used oil to contaminate over one million gallons of water!

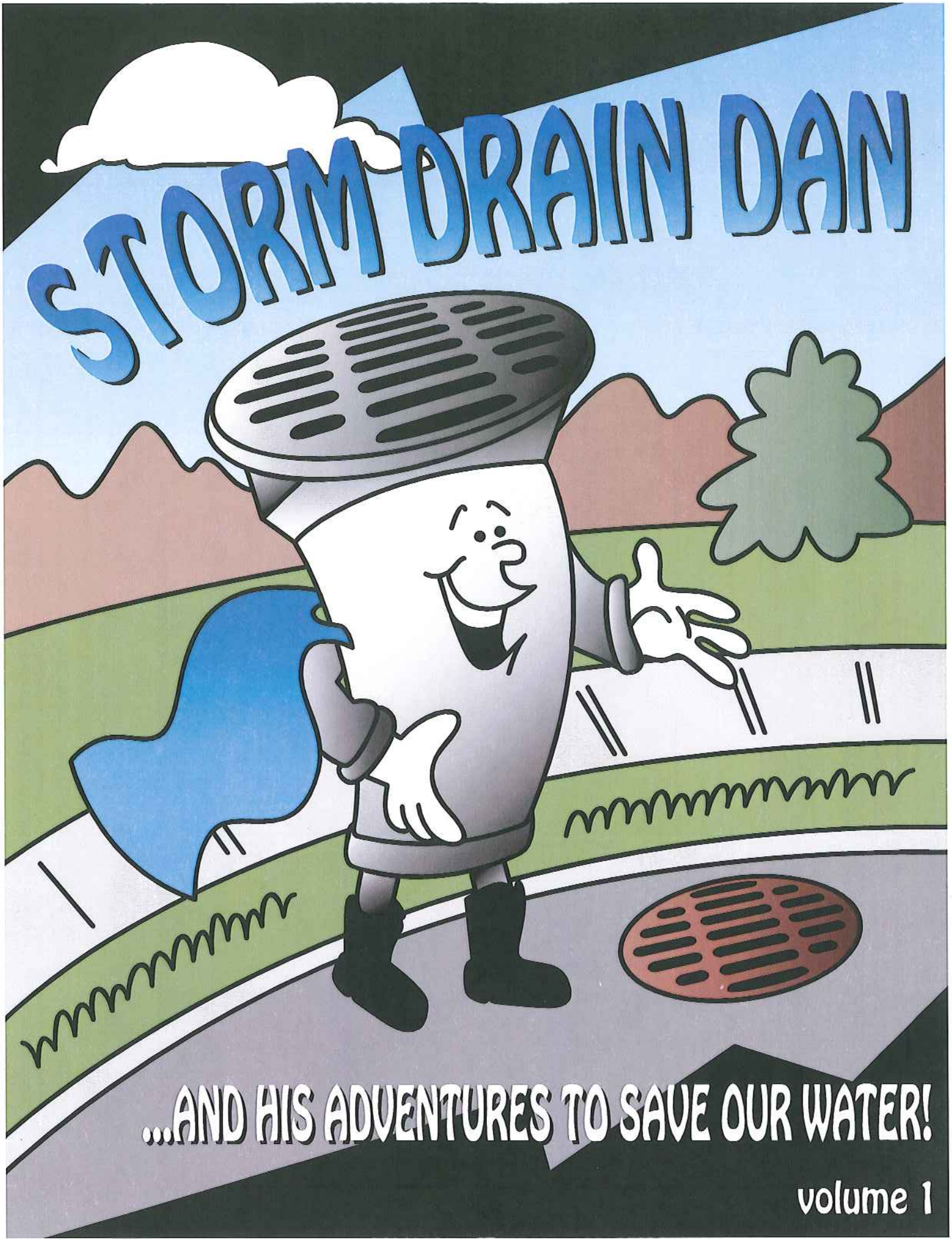
Instead, consider recycling your used oil. Waste motor oil can be reprocessed an unlimited number of times! Typically, it's fuel-blended and burned for energy, but can also be re-refined as motor oil.

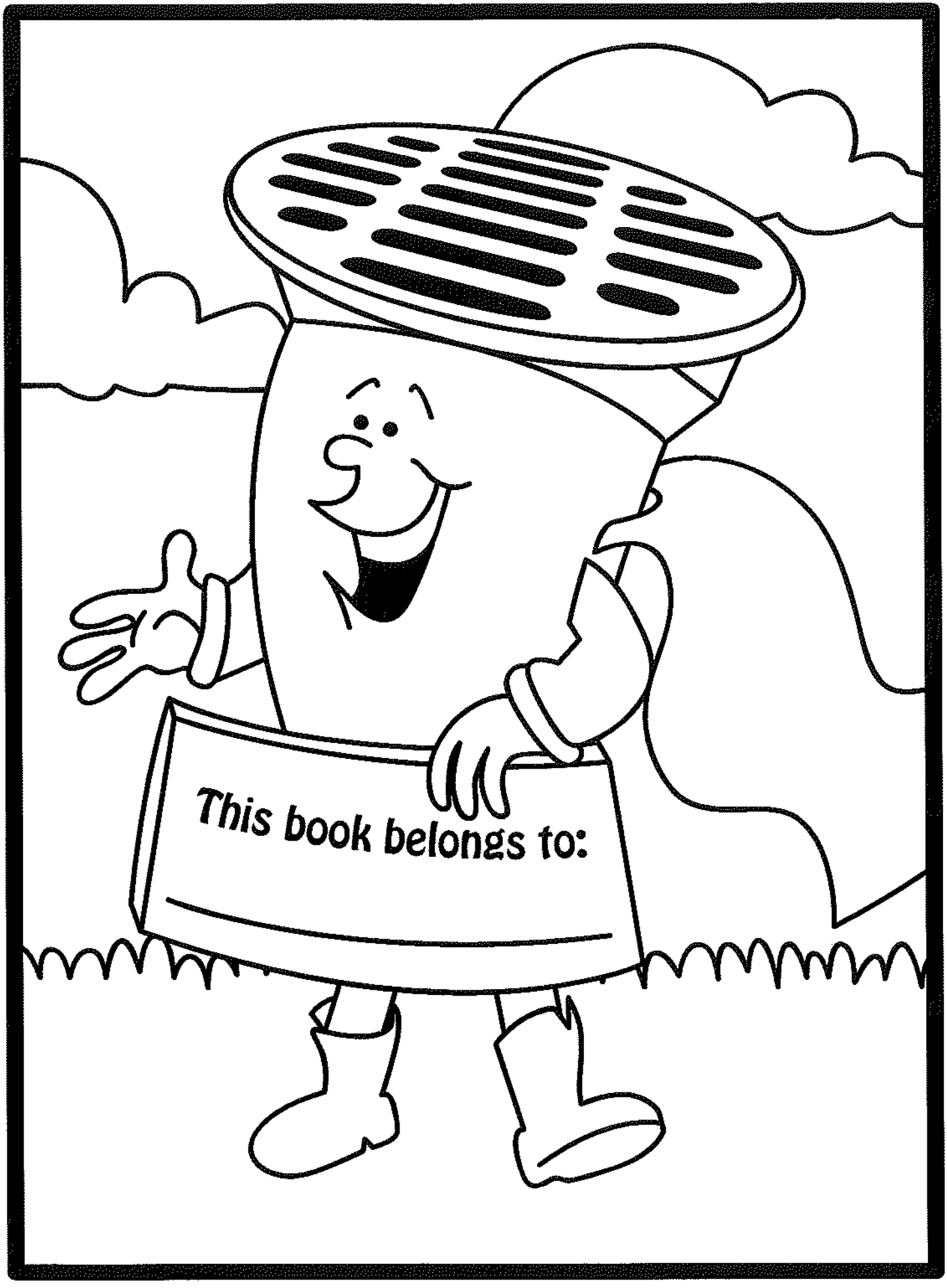
DID YOU KNOW?

Re-refined oils now carry the American Petroleum Institute seal of certification and are guaranteed to be of equal quality or better than oil derived from crude!

Follow these tips when changing your oil or other vehicle fluids:

- Choose to work on a flat concrete surface; however, *never work on a vehicle in the street or near a storm drain!*
- Collect used motor oil, antifreeze, and transmission fluid in separate containers. *Do not mix vehicle fluids!*
- When selecting a container to hold waste oil, avoid ones previously used for bleach, cleaners, paint, or other vehicle fluids. These containers contain residues that will contaminate the used oil.
- Drain oil from your engine into a pan that is large enough to hold the entire contents of the crankcase. Most passenger cars hold about 5 quarts of oil.
- Using a funnel, pour the waste oil from the oil pan into your clean, leak-proof container that has a tight-fitting lid.
- If spills occur, use an absorbent pad to clean the spill. Place the used pad in a plastic bag and throw it in the trash. You can also use kitty litter, sawdust, or oil absorbent to clean spills. Apply it to the spill, sweep it up, and dispose of the waste in the trash.
- Consider using re-refined (recycled) oil. Test after test has shown there is absolutely no compromise in the quality of re-refined lubricants.


STORM DRAIN DAN
...AND HIS ADVENTURES TO SAVE OUR WATER!
volume 1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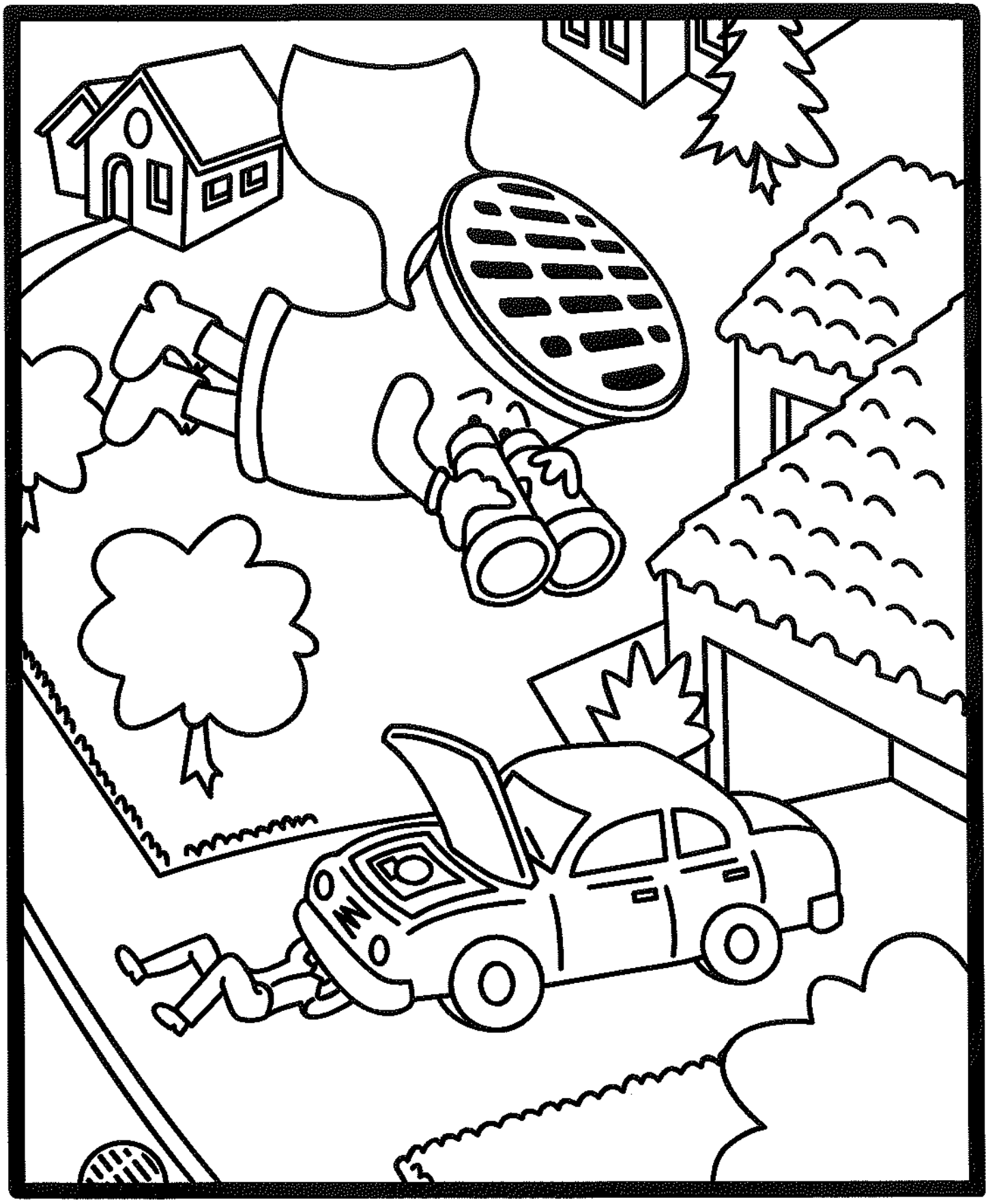
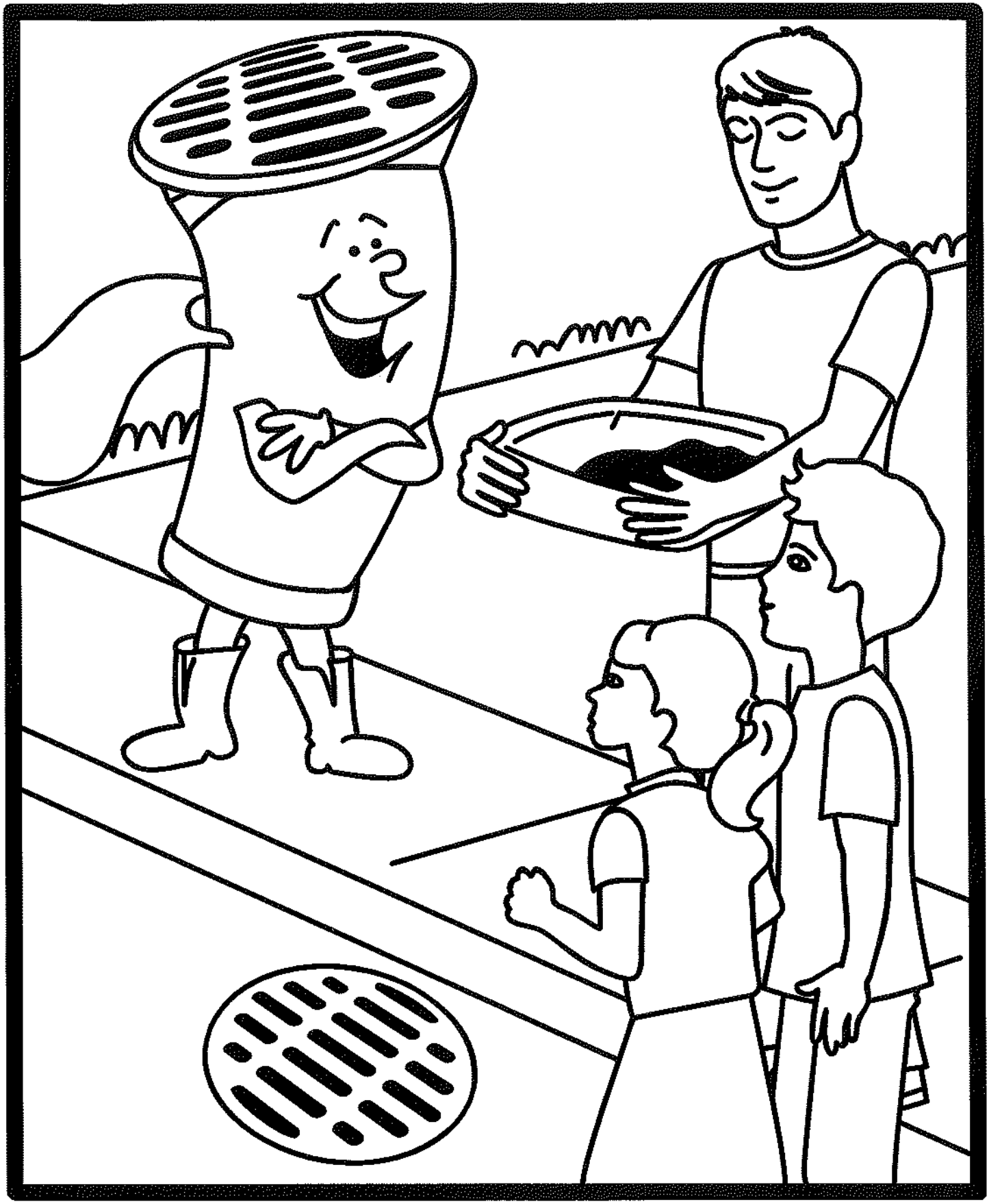


As Storm Drain Dan flies over a neighborhood, he spots a man chaging the oil in his car.

"Boy, I sure hope he knows what to do with the used oil," says Dan.

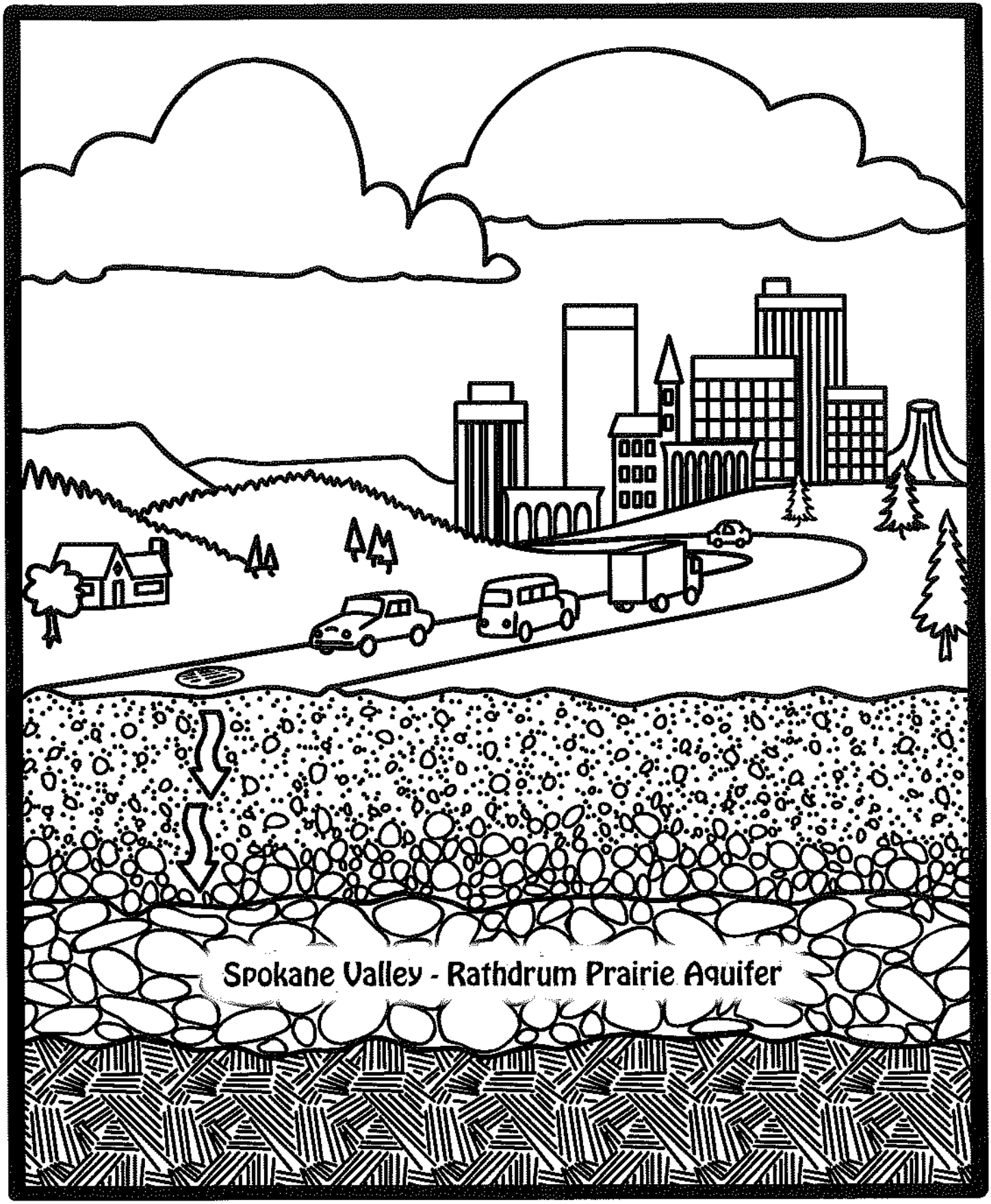
Cruising in for a landing, Storm Drain Dan says,

"Excuse me, Sir. Please don't pour that used oil into the storm drain."



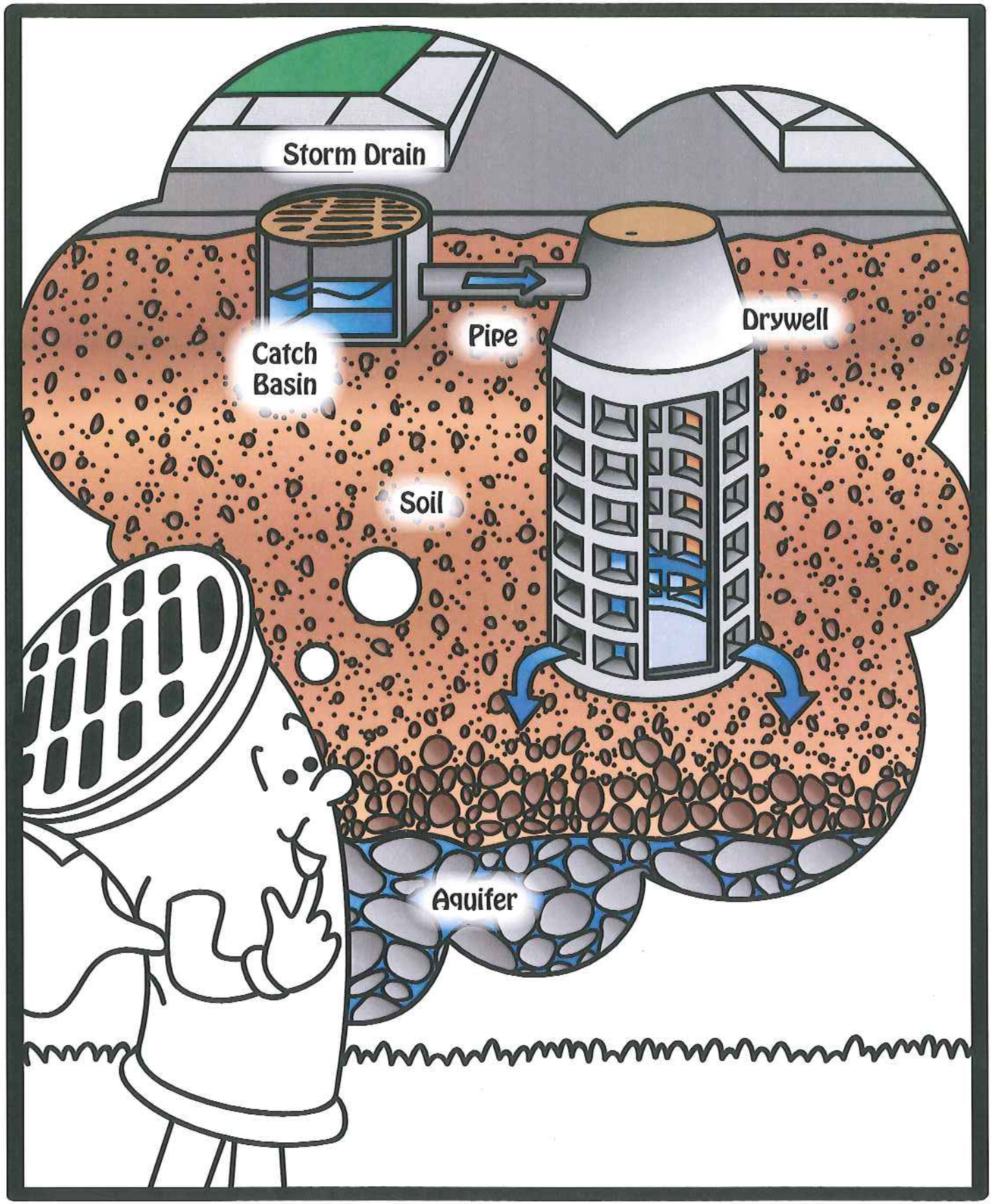
"Hi, Jody and Johnny!" says Dan.

"I was just going to tell your Dad about recycling that motor oil. Do either of you know what happens when things like used oil are dumped into a storm drain?"



"Sure," says Jody.

"Most storm drains infiltrate stormwater right into the ground to reacharge the aquifer."

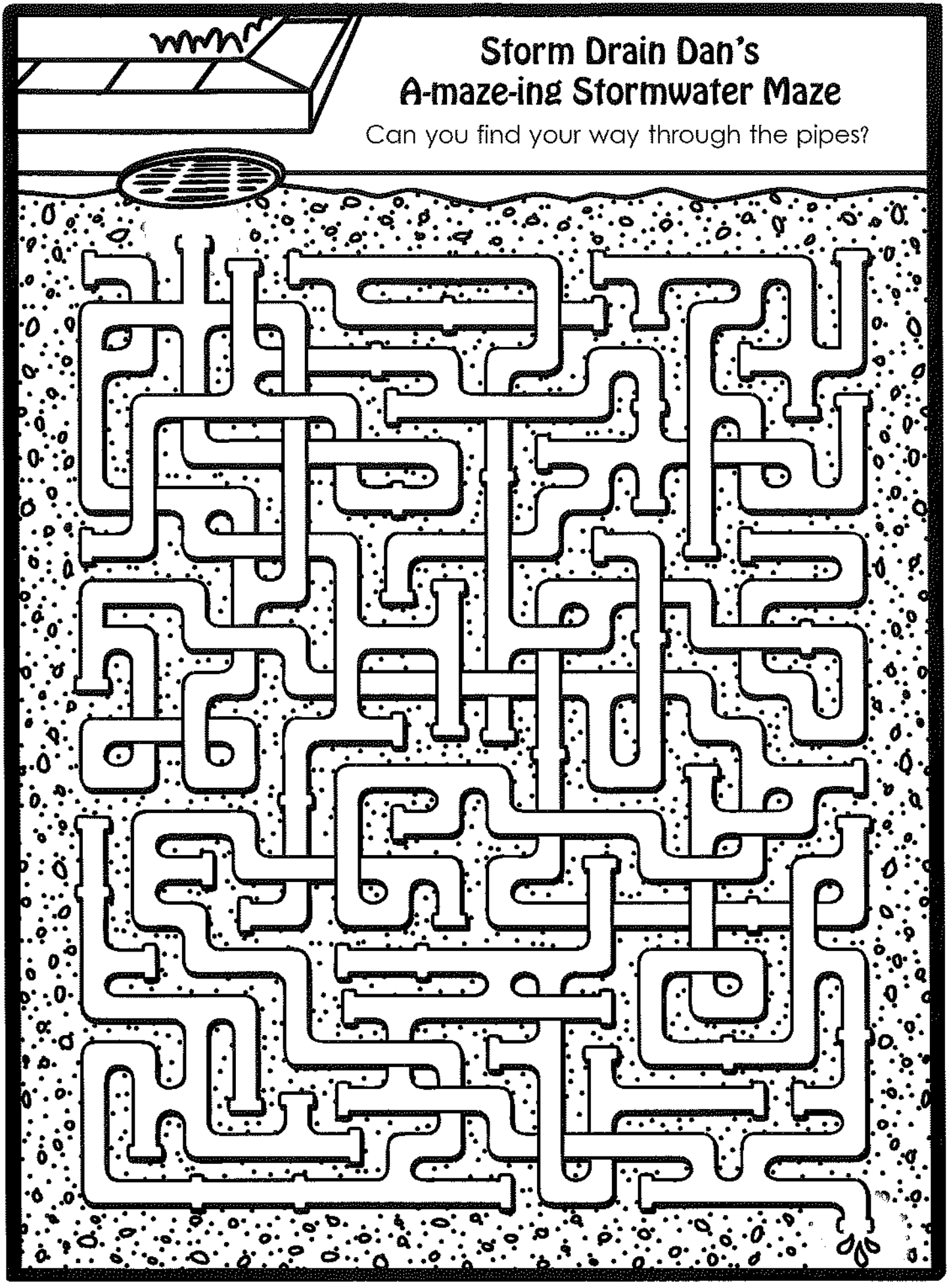


"Jody, you are absolutely right, says Storm Drain Dan.

"This storm drain definitely isn't connected to the sewer. Instead, the stormwater travels through pipes, drywells, and the soil before reaching the aquifer."

Storm Drain Dan's A-maze-ing Stormwater Maze

Can you find your way through the pipes?



The pollution can infiltrate with stormwater to the aquifer and contaminate our drinking water," Dan adds.

"Did you know it only take 4 quarts of motor oil to pollute 1 MILLION gallons of water?"

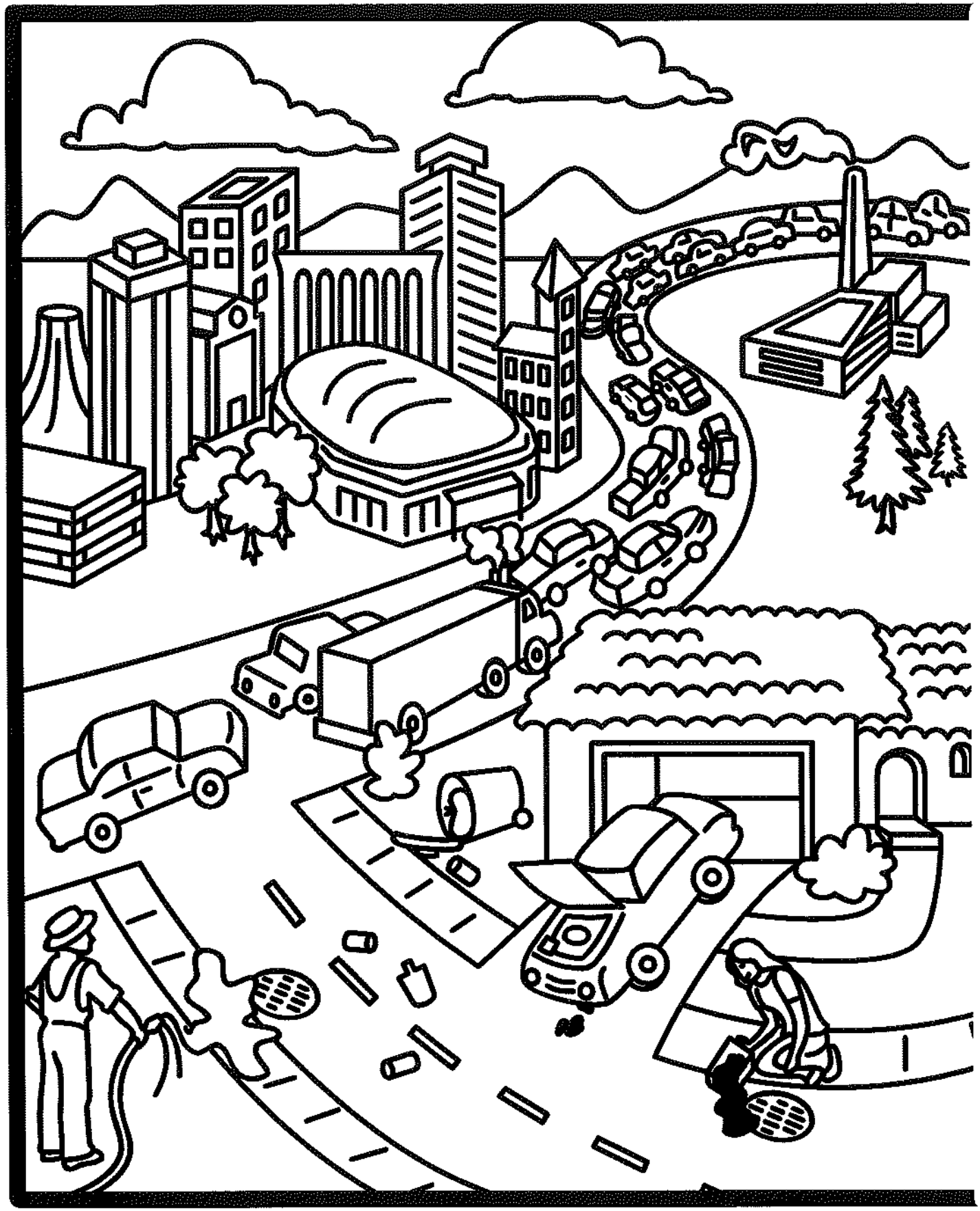
Storm Drains are for Rainwater Only - Pure and Simple.

Hidden in the puzzle below are words having to do with water or common types of water pollution, including motor oil! Remember to look up, down, across, backwards, and diagonally.

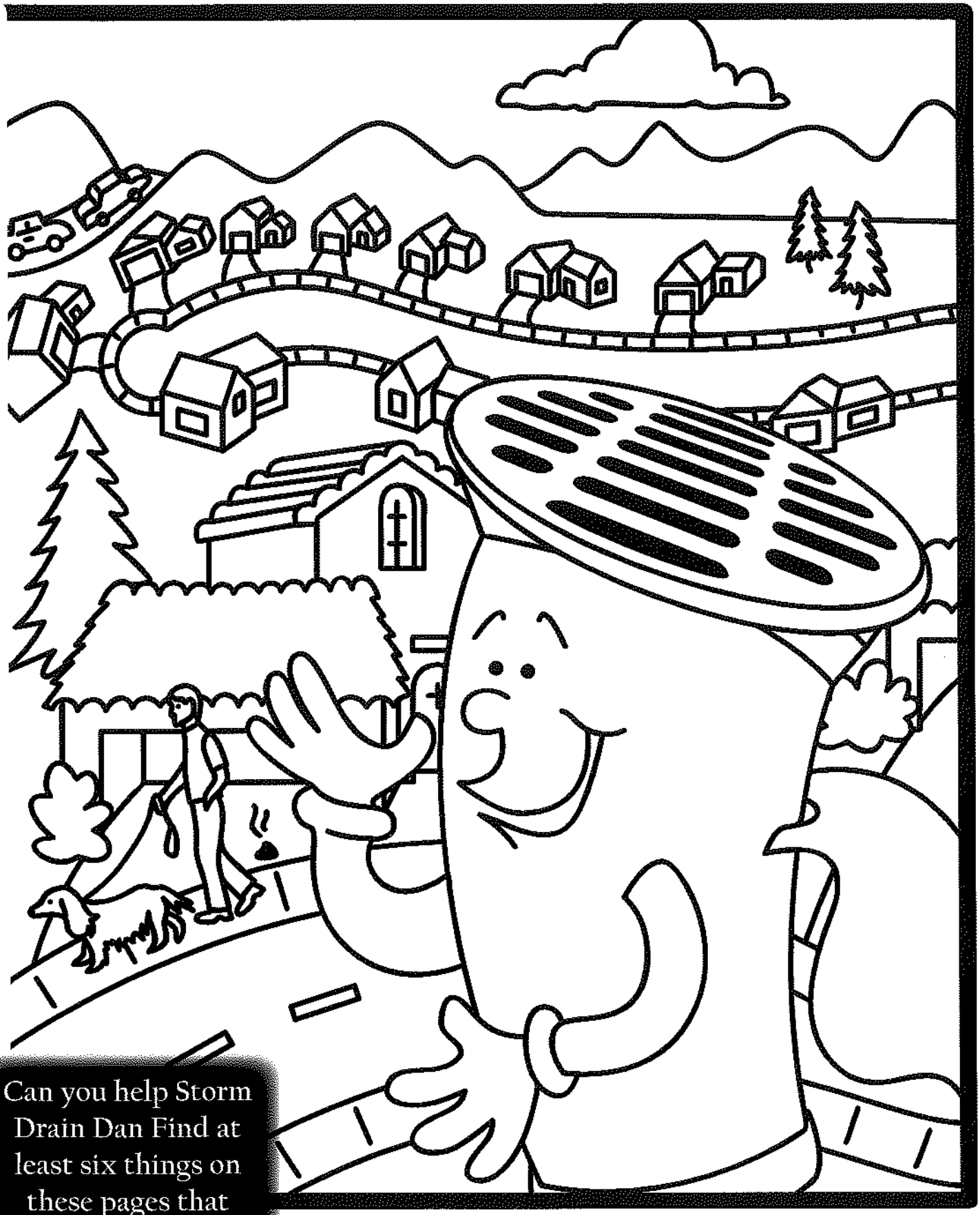
H S A R T S I B I M S E U P J
T S T O R M W A T E R L A E V
M U N O I T U L L O P P V T T
E Z E E R F I T N A U M L W C
H T U W E M O T O R O I L A F
Y H N F U O D N E P L S E S F
R E Z I L I T R E F G P W T O
C A R W A S H W A T E R Y E N
S E C Y P P A Q U I F E R C U
T Q N V A G R U N F D Q R

WORD LIST

Storm Drain	Pollution	Pet Waste
Drywell	Motor Oil	Paint
Aquifer	Antifreeze	Fertilizer
Stormwater	Car Wash Water	Pure
Runoff	Trash	Simple



"It's important that we remember to keep our city clean!" says Johnny.



Can you help Storm Drain Dan Find at least six things on these pages that might pollute our water or air?

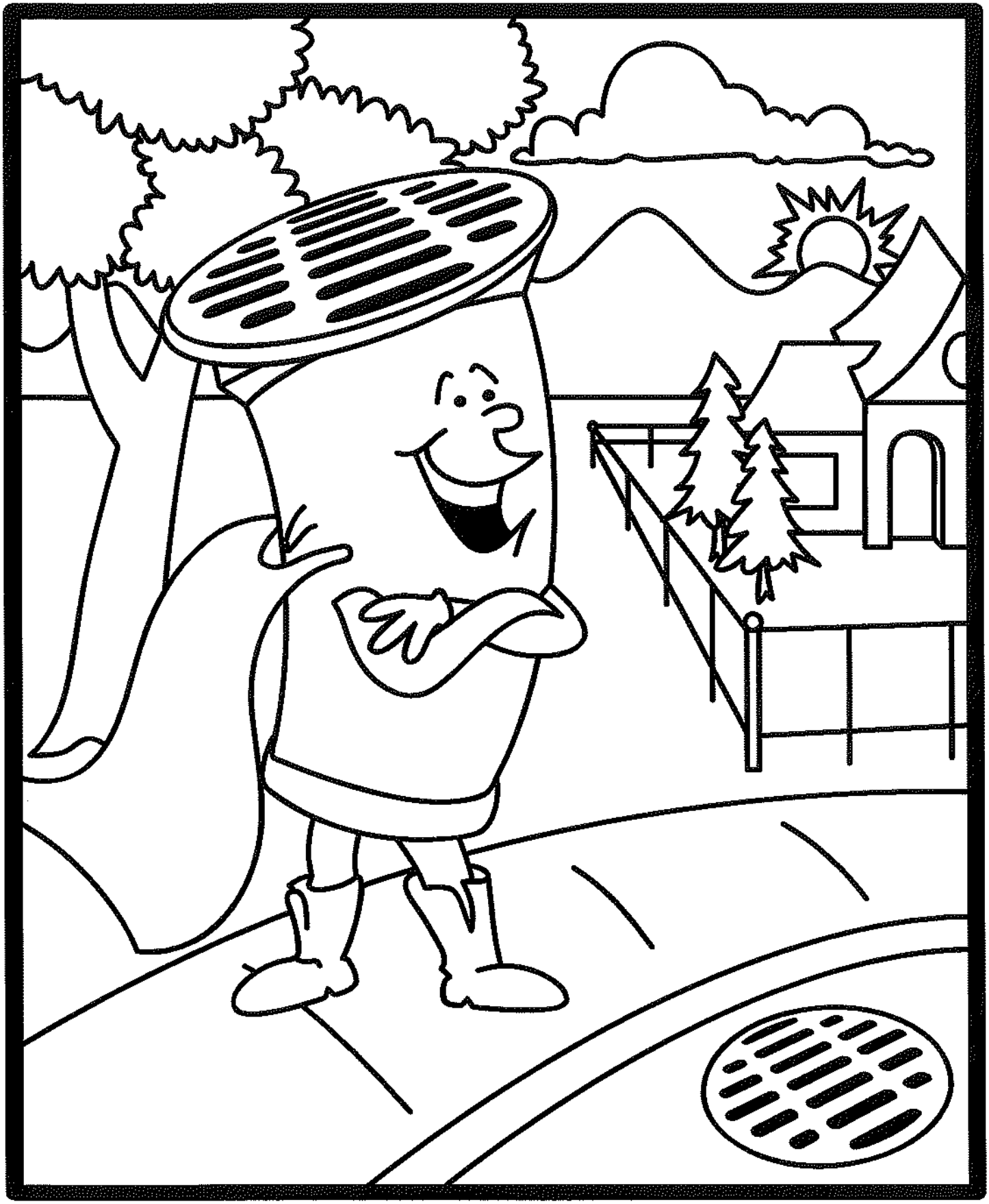
1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

Now I know that recycling our used motor oil, antifreeze, and other chemicals will help keep them from polluting the environment and our aquifer," says Dad.

"Hey, kids, let's take the used oil to the auto parts store to be recycled. After that, I'll treat you both to some ice cream. Storm Drain Dan is right, we can make a difference just by changing behaviors at our own home!" says Dad.

"Thanks for the ice cream, Dad!" says Johnny.

"Storm Drain Dan is the protector of our storm drain system, and he sure is great!"



"Even one person can make a difference," says Storm Drain Dan.

"Remember, every living thing needs clean water. So, let's all work together to keep the environment clean, especially stormwater and our aquifer!

Storm Drain Dan's WORD JUMBLE

1. A substance that contaminates water is called a _____.

2. Instead of hosing down the driveway when it gets dirty, we should _____ instead.

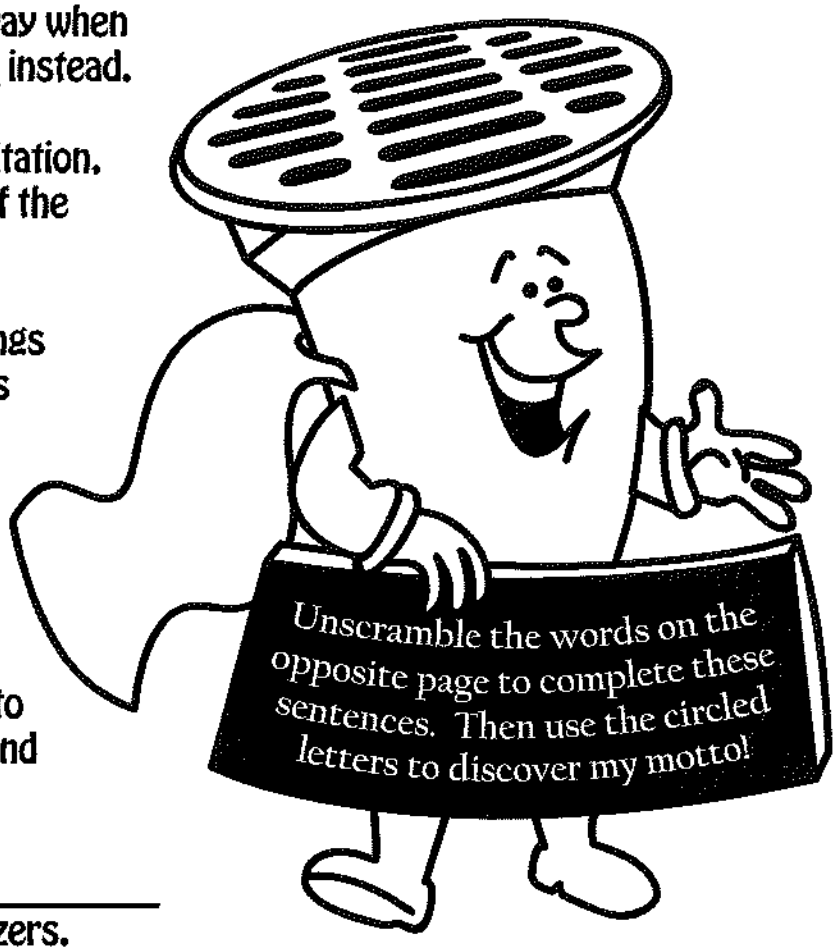
3. Evaporation, condensation, precipitation, runoff, and infiltration are all parts of the water _____.

4. It's important to _____ things like motor oil, paint, and car batteries rather than throwing them away.

5. A natural fertilizer made up of decaying leaves, grass, and food scraps is called _____.

6. Stormwater that does not soak into the ground, but instead flows over land and roads is called _____.

7. Leaving grass clippings on the _____ reduces the need for chemical fertilizers.



8. An underground layer of rock, sand, or gravel that holds water.

9. Only rain should go down the storm _____.

10. Rainwater, snowmelt, or runoff from sprinklers that flows to a storm drain system.

11. "Even one person can make a _____."

12. Water that falls to the earth is called _____.

13. Drinking water is pumped up from our aquifer through one of these.

1. ANUTTLLOP

2. EPSEW

3. LCEYC

4. CCELERY

5. MTCOOSP

6. NFFUOR

7. WNLA

8. QFIUARE

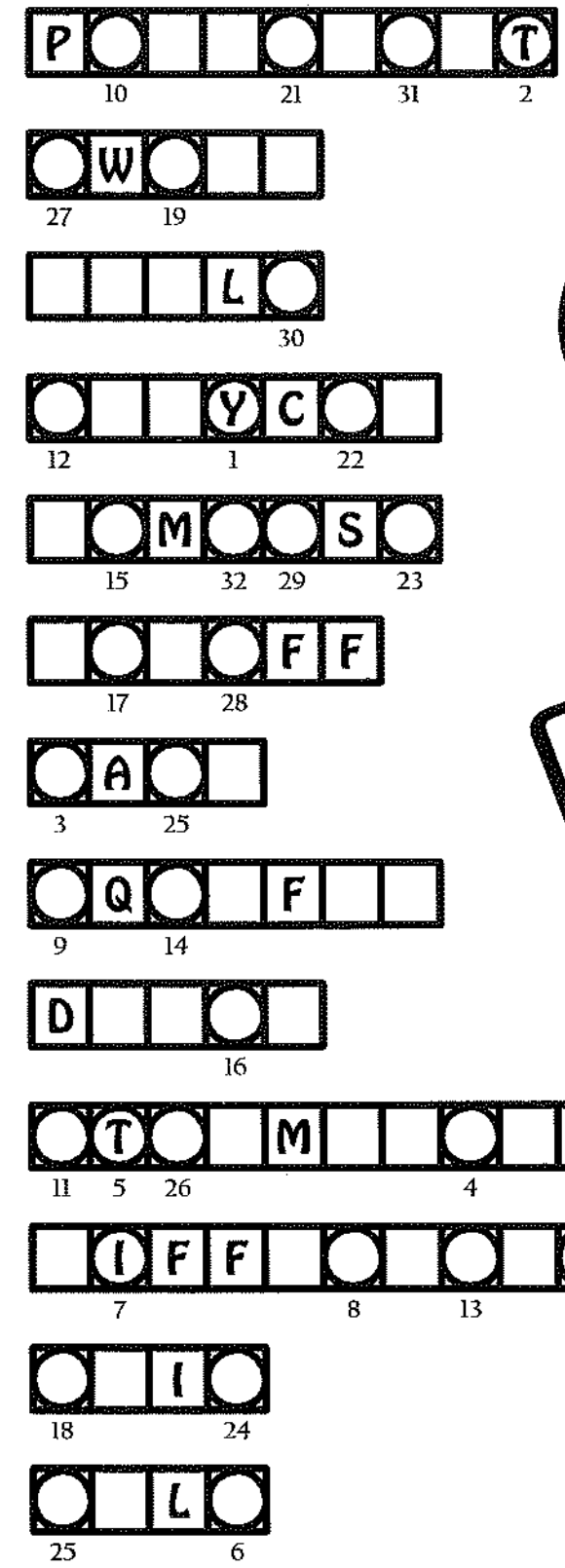
9. INRAD

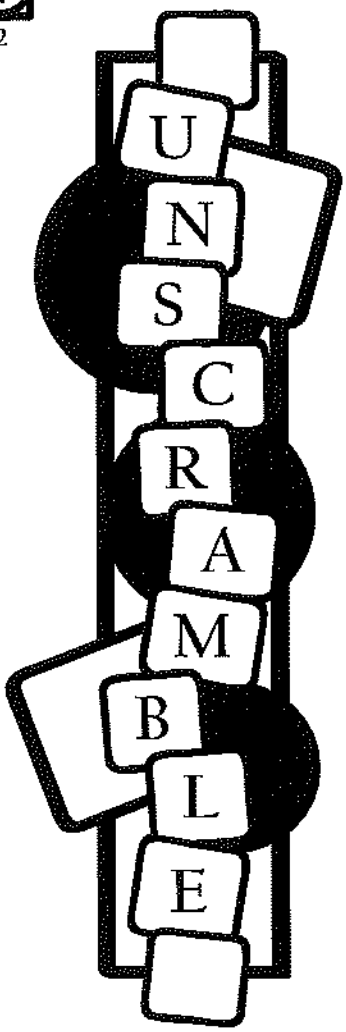
10. TOSRWTREMA

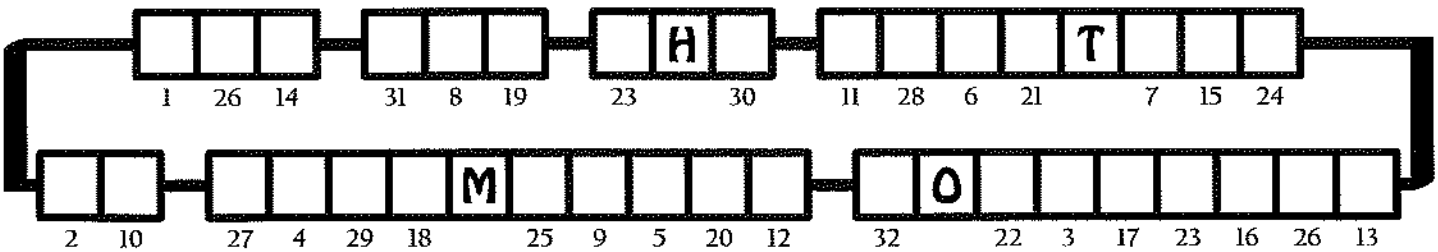
11. DEFEENRFIC

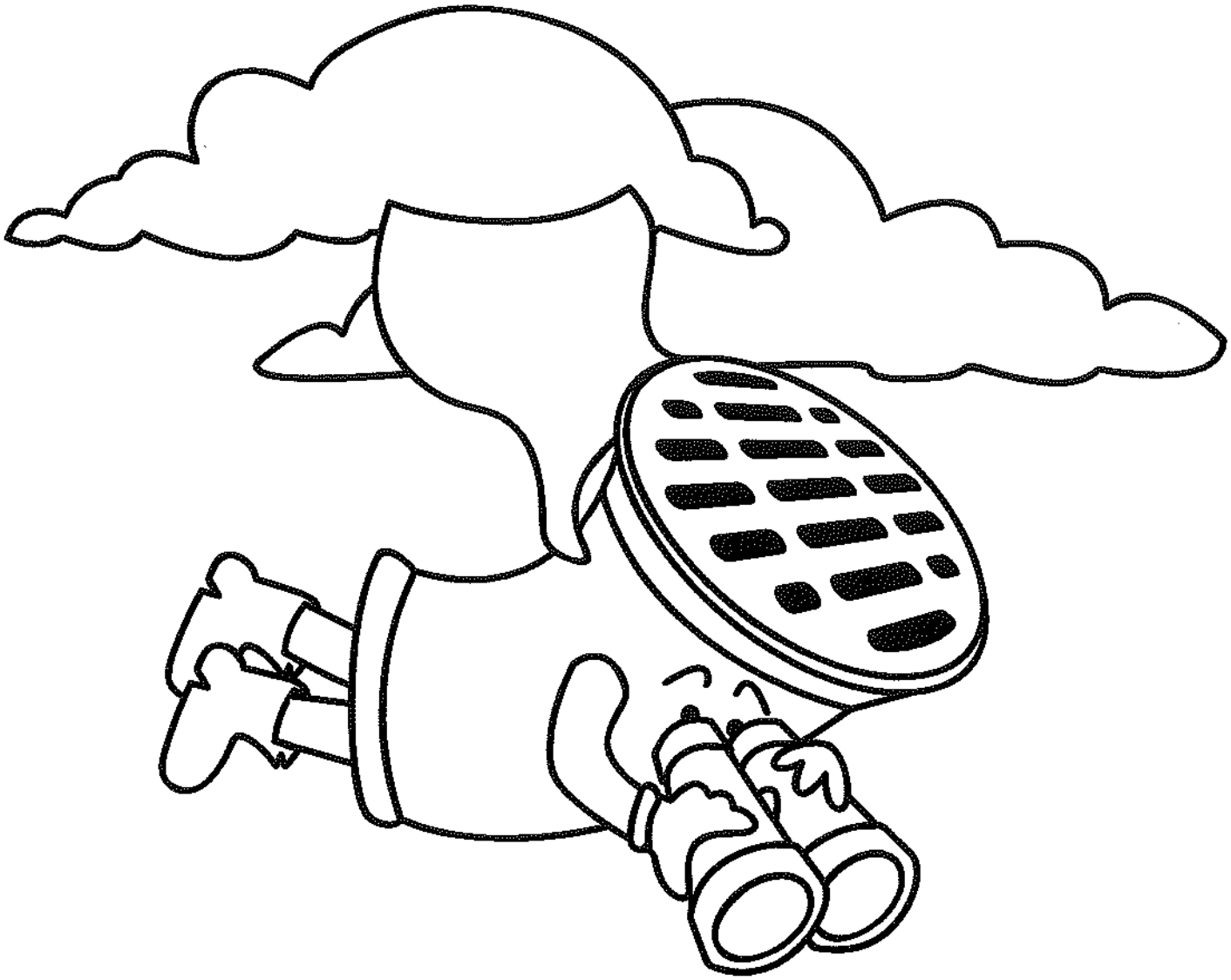
12. ARNI

13. LELW









Storm Drain Dan is a concrete storm drain pipe who magically came to life one day. He wants to help everyone in Spokane County understand how important it is to keep our storm drains, aquifer, and environment clean.

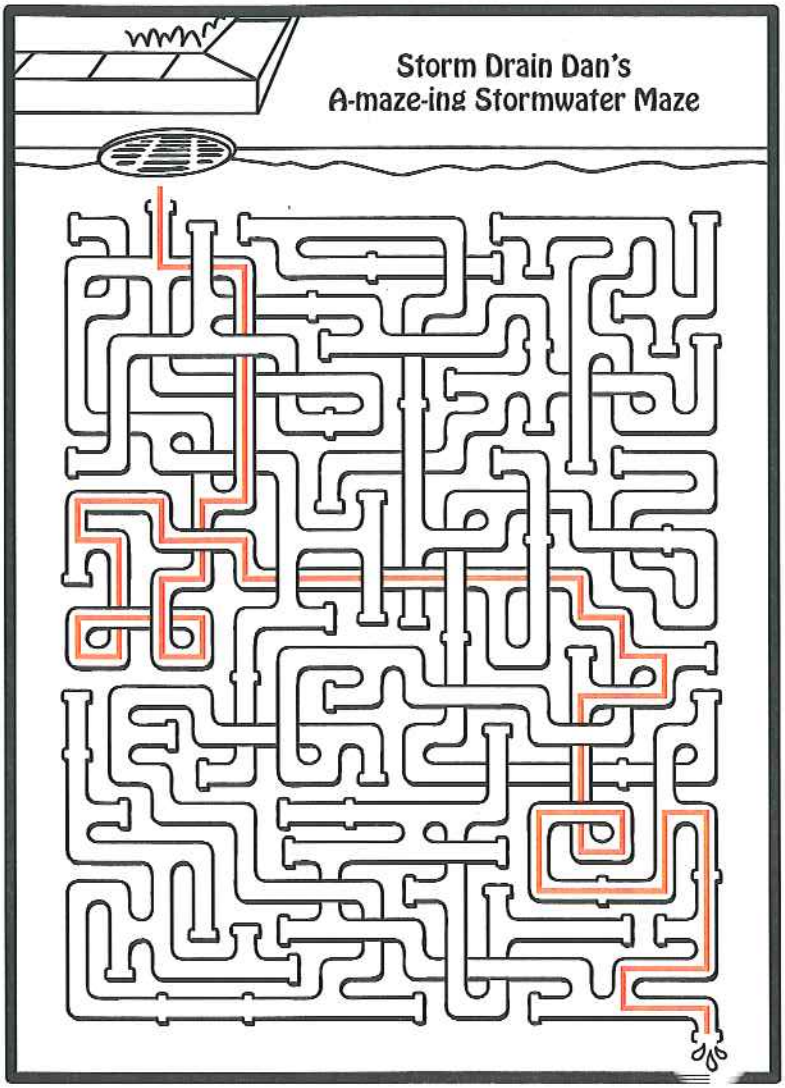
As Storm Drain Dan flies overhead, his telescopic vision (binoculars) allows him to keep an eye on the things you and I do every day. He looks for people who dump trash or oil into the street, don't clean up after their pets, don't use fertilizer or weed killers the proper way, and lots more!

Please help Storm Drain Dan plug up polluters by doing your part to keep trash and chemicals out of streets and storm drains.

Remember, Storm Drain Dan says...

"You are the solution to stormwater pollution!"

Answer Key:



Word Jumble

1. A substance that contaminates water is called a pollutant.

2. Instead of hosing down the driveway when it gets dirty, we should sweep instead.

3. Evaporation, condensation, precipitation, runoff, and infiltration are all parts of the water cycle.

4. It's important to recycle things like motor oil, paint, and car batteries rather than throwing them away.

5. A natural fertilizer made up of decaying leaves, grass, and food scraps is called compost.

6. Stormwater that does not soak into the ground, but instead flows over land and road roads is called runoff.

7. Leaving grass clippings on the lawn reduces the need for chemical fertilizers.

8. An underground layer of rock, sand or gravel that holds water. Aquifer

9. Only rain should go down the storm drain.

10. Rainwater, snowmelt, or runoff from sprinklers that flows to a storm drain system. Stormwater

11. "Even one person can make a difference."

12. Water that falls to the earth is called rain.

13. Drinking water is pumped up from our aquifer through one of these. Well

Storm Drain Dan's Motto

YOU ARE THE SOLUTION
TO STORMWATER POLLUTION!

Storm Drain Dan's Word Search

H	S	A	R	T	S	I	B	I	M	S	E	U	P	J
T	S	T	O	R	M	W	A	T	E	R	L	A	E	V
M	U	N	O	I	T	U	L	L	O	P	P	V	T	T
E	Z	E	E	R	F	I	T	N	A	U	M	L	W	C
H	T	U	W	E	M	O	T	O	R	O	I	L	A	F
Y	H	N	F	U	O	D	N	E	P	L	S	E	S	F
R	E	Z	I	L	I	T	R	E	F	G	P	W	T	O
C	A	R	W	A	S	H	W	A	T	E	R	Y	E	N
S	E	C	Y	P	P	A	Q	U	I	F	E	R	C	U
L	R	T	Q	N	V	A	G	R	U	N	F	D	Q	R

Find the Pollution

1. Man washing the sidewalk instead of sweeping it;

2. Lady dumping container of liquid into the storm drain;

3. Car leaking oil or antifreeze into the street;

4. Trash in the street;

5. Garbage can tipped over with trash spilling out (garbage should always be tied up in a bag!);

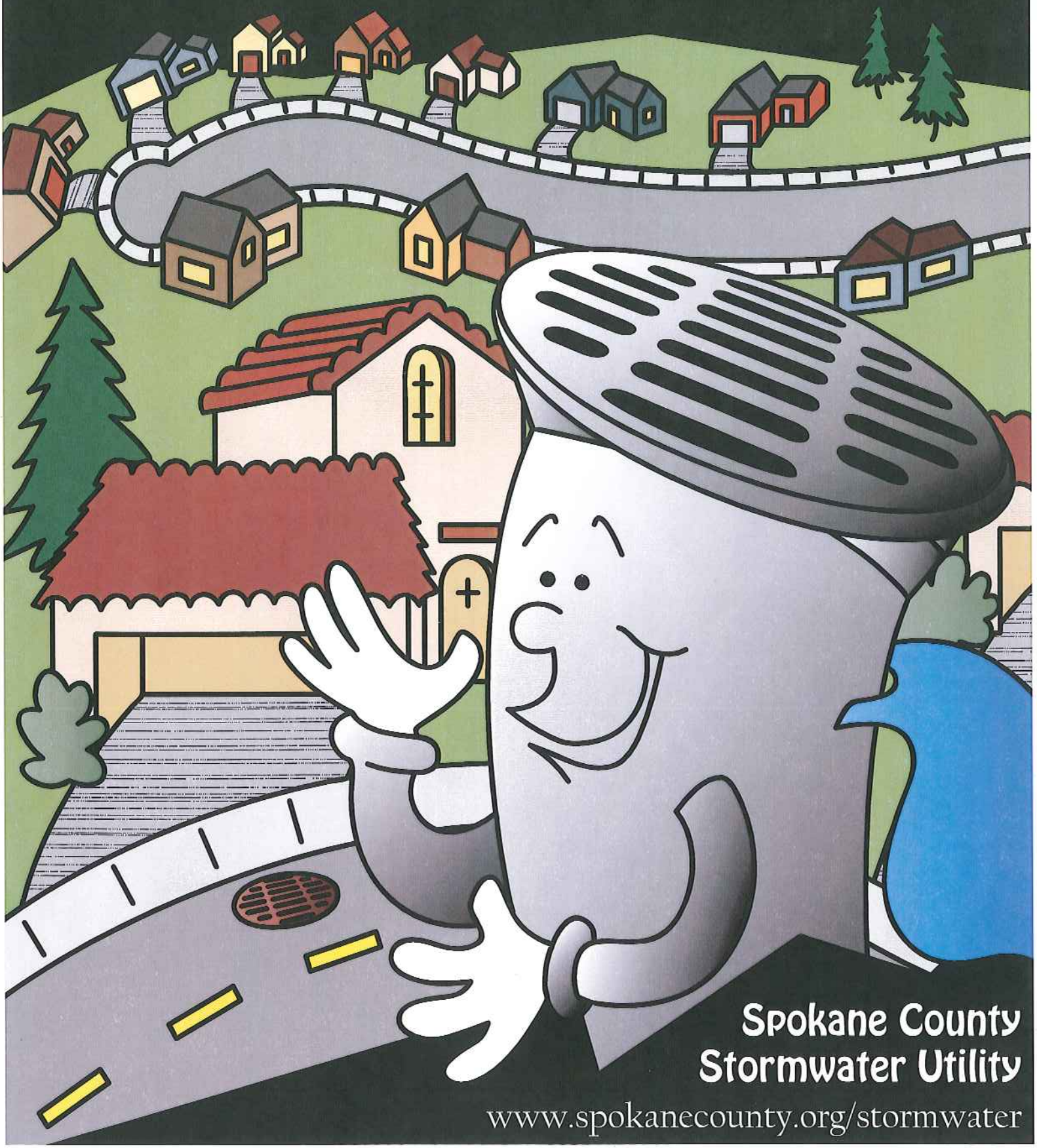
6. Factory smokestack polluting the air;

7. Too much traffic/car exhaust; and

8. Man not carrying a pooper-scooper and bag to pick up after his dog.

For more information about storm drains and stormwater pollution prevention, please visit our website. If you would like to report someone dumping trash or chemicals into a storm drain, street, swale, or other stormwater facility, please contact your local municipality immediately:

Spokane County - 477-7525 City of Spokane Valley - 688-0321



Spokane County Stormwater Utility

www.spokanecounty.org/stormwater

Illicit Discharge Elimination and Detection
Actions - 2013

Spokane County has an online process for citizens to make inquires or file complaints regarding illicit discharge related stormwater issues. An example of the "on-line" form and an example of the response received by the Spokane County, Stormwater Section is shown in the Illicit Discharge Detection and Elimination attachment.

In 2009, Spokane County established a stormwater hotline and provides notification of the hotline on the webpage.

In 2009, Spokane County Commissioners approved amendments to the County Code, Chapter 9.14, Approach and Drainage in New Construction (Resolution No. 09-0672). The new illicit discharge regulations bring the County into compliance with the requirements of the Permit.

In 2010, Spokane County conducted field inspections of the MS4 and developed an IDDE Guidance Manual.

In 2011, Spokane County worked in coordination with the City of Spokane to remove five (5) culverts that were a potential source of road runoff and related urban pollution to the Spokane River. The culverts were removed from Upriver Drive during a City of Spokane sanitary sewer project that called for the reconstruction of approximately three quarters of the road. For that reason, approximately three quarters of the culverts were completely removed on the inlet side (north) of the road and the outfall end (south) of the culverts were filled with grout. See the IDDE Actions Tab for details.

In 2011, Spokane County purchased a piece of property near the Ella Road outfall that will in the future allow for the development and construction of a bio-infiltration facility. The future facility will provide stormwater quality treatment and help to protect the Spokane River.

In 2012 and 2013, Spokane County conducted outfall inspections at Liberty Lake. See IDDE Priority Water Body Inspections, 2010-2013 Compliance Actions for details.

Contents:

1. Various online processes for inquires or complaints regarding stormwater and illicit discharges;

2. IDDE Hotline phone number is 509-477-7525. The hotline phone message script, see Public Education and Outreach Section for hotline mail insert;

3. IDDE Ordinance (Resolution No. 09-0672);

4. Request for Investigation (RFI) database within the NPDES boundary, 2010 - see Annual Report file for full RFI details. An example RFI is attached;

5. IDDE staff training PowerPoint presentation;

6. Other Information:
   a. Hazmat Spill Contractor List, available on Ecology web-page,
   b. Pollution Prevention Brochures, available on EPA-NPDES web-page;

7. IDDE Priority Water Body Inspections - Summary 2010-2012; and

8. IDDE Guidance Manual (pages 1-4 shown), full document available upon request.

9. Five culvert outfalls were removed along Upriver Drive in 2011 in coordination with the City of Spokane. The outfalls drained to the Spokane River. Three of the outfalls (east of the Avista Sub-Station) primarily drained stormwater from the right-of-way and residential areas. The remaining two outfalls drained stormwater from the right-of-way as well as from the Avista Sub-Station property.

10. Pollution prevention and IDDE training took place on March 15, 2012. See attached materials.

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Contact Us - Stormwater Utility

Use the form below to enter your question/comment to Spokane County. You must select a department and contact from the lists in the form. Select *Webmaster* for department if you are unsure of the department and we will route it for you.

Department: Stormwater Utility

Contact: Stormwater Utility Section

Request Type: Comment

Your name:

Your email:

Your phone:

Contact Me:
- ☐ Yes (Name and email or phone are required)
- ☑ No Thanks

Request: Enter your request here...

Review and Submit Request | Cancel Request

Spokane County Public Works
Division of Engineering and Roads
1026 West Broadway Avenue | Spokane, WA 99260-0170
509/477-3600 Main | 509/477-7655 Fax

Service Request Form

This form should not be used for situations involving private roads, state highways, or within Spokane's city limits. Please call our office at 509/477-3600 to report health or safety emergencies. Our office hours are Monday - Friday, 8:30 am - 5:00 pm. To report emergencies after hours, please link to the Crime Check or call (509)456-2233. For issues involving state highways, you may reach the Washington State Department of Transportation's local office at (509)324-6000. For roads within Spokane city limits, please call City Hall at (509)625-6250.

Instructions

Please answer the questions below. Answers are required for the **bolded** sections below. This request cannot be submitted unless all of sections are completed. When completed, click the SUBMIT button to send this form to our office or the RESET button to cancel.

Location

Please enter the appropriate information regarding the present situation.

House Number: **Street Name:**

Cross Road/Location Description:

Description

Select a category below that best describes the nature of this issue.

Stormwater

Use the space below to give further details regarding the current situation.

Contact Information

We may need additional information from you in order to process this request. Please provide the following information so we can contact you if necessary.

The information that you enter below will not be provided to anyone outside our office, and will be used solely in connection with this particular request.

Contact Name:

Phone Number:

Email Address:

Clicking **Submit** will send the information entered into this form to our office, where it will be distributed to the proper internal departments. To inquire about the status of a request, please contact us at 509/477-3600 or by Request for Information.

Submit Reset

Comments to Engineering & Roads Webmaster

Page Last Updated on 9/23/2011

Google Search

Search Spokane County WWW

SPOKANE COUNTY

NPDES Phase II
Public Involvement/Education
STORMWATER POLLUTION PREVENTION HOTLINE

REPORT

Date:

Spoke with Caller Directly? ☐

Message from Hotline? ☐

Caller's Name:

Caller's Address:

Caller's Phone #:

Location of issue being reported:

Description of Dumping or other activity of concern:

Additional Notes:

Report Completed By:

Follow Up Assigned To:

RFI Number:

Follow Up Date:

Follow Up Notes:

Complete Date:

NPDES PHASE 2 HOTLINE MAPPING

Calls initially ring at Melissa's desk	477-7486 to the SW Direct-Dial Line
Calls hunt to Russ next	477-7245
Calls hunt to Brenda next	477-7258

Calls go directly to Voice Mail for the Hotline

Added as of 2/20/09: When callers get to our message, later in the message, they are prompted to dial 625-6800 to contact Regional Solid Waste Management

A second prompt refers the caller to dial 625-7999, the City of Spokane's hotline.

PROCEDURE FOR HANDLING CALLS

Call received.

Staff opens hotline form from their desktop

Information is typed into the form

Form is saved using naming convention: *Report_012309_Burchell*
...in folder located *NPDES\Phase II\Spokane County Program\Hotline\Hotline Reports 2009*

saved report is emailed to Melissa for assignment of RFI number

report is resaved, then emailed to whoever is assigned to follow up

form is saved each time it's updated until the issue can be marked "complete,"

upon completion, the form is emailed to melissa for updating of the RFI database and is then to be stored so that no additional editing can take place

Spokane County
IDDE Hotline (509-477-7525)
2-23-09(revised)

Thank you for calling the Spokane County Stormwater Pollution Prevention Hotline. This hotline is for reporting stormwater pollution within Spokane County, in areas that are outside of any incorporated city. Our regular business hours are 8:00 a.m. to 5:00 p.m., Monday-Friday.

To report an emergency hazardous material spill please hang up and dial 911.

Dumping contaminating materials such as household products, automotive fluids, pesticides, fertilizers, paint, etc. into any stormwater drainage system such as a street, gutter, roadside ditch, storm drain or drainage swale can contaminate our rivers, as well as the aquifer that supplies our drinking water.

For questions about legal disposal options, call Regional Solid Waste Management at 625-6800.

To report stormwater pollution within the City of Spokane call 625-7999.

Please leave your name, address, phone number, a brief description and the location of the complaint.

Thank you for your interest in keeping our water clean.

Remember, you are the solution to stormwater pollution.

9-0672

BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF SPOKANE COUNTY, WASHINGTON

IN THE MATTER OF AMENDING THE SPOKANE COUNTY CODE SECTION 9.14 ROADS, APPROACH AND DRAINAGE IN NEW CONSTRUCTION TO MEET THE REQUIREMENTS OF EASTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT	)	FINDINGS OF FACT AND DECISION

WHEREAS, pursuant to the provisions of RCW Chapter 36.70, the Board of County Commissioners of Spokane County, Washington, hereinafter referred to as the "Board," has created a Planning Commission, hereinafter referred to as the "Commission"; and

WHEREAS, pursuant to the provisions of RCW Chapter 36.70, the Commission may make recommendations concerning the adoption of controls that implement comprehensive plans; and

WHEREAS, pursuant to the provisions of Chapter 36.70A RCW, the Board adopted a Comprehensive Plan and Capital Facilities Plan for Spokane County on January 15, 2002 (BCC Resolution 2-0037); and

WHEREAS, the adopted Comprehensive Plan, Chapter 7, Capital Facilities and Utilities Goal CF.8 recognized the necessity of providing stormwater facilities to prevent chronic flooding from stormwater; and

WHEREAS, the adopted Comprehensive Plan, Chapter 10, Natural Environment guiding principles recognizes that surface and groundwater should maintain adequate quantity and shall maintain adequate quality; and

WHEREAS, On January 17, 2007, the Washington State Department of Ecology issued the Eastern Washington Phase II Municipal Stormwater Permit (Permit) that authorizes the discharge of stormwater to surface waters and to the ground waters of the state from Spokane County's municipal separate storm sewer system (MS4); and

WHEREAS, the Permit covering urbanized areas as well as Urban Growth Areas within Spokane County became effective on February 16, 2007; and

WHEREAS, the Illicit Discharge Detection and Elimination component of the Permit requires local adoption of a regulation to prohibit non-stormwater discharges into

the municipal separate stormwater system (MS4) by August 16, 2009; and

WHEREAS, the attached code revisions will meet the mandated requirement of the Permit related to non-stormwater discharges to the MS4; and

WHEREAS, Notice of the proposed changes to Spokane County Code Section 9.14 was provided to the Washington Department of Community, Trade and Economic Development on March 26, 2009; and

WHEREAS, pursuant to the State Environmental Policy Act (SEPA) and WAC Chapter 197-11, a Determination of Nonsignificance was issued for the proposed changes to Spokane County Code Chapter 9.14 on April 13, 2009; and

WHEREAS, after public notice on April 19, 2009, Stormwater Utility staff held a public open house to discuss the proposed amendments on April 22, 2009; and

WHEREAS, on April 30, 2009, the Commission held a public workshop on the proposed Code amendments; and

WHEREAS, a notice of the Public Hearing was published in the Spokesman Review on April 26, 2009 and more than fifteen (15) days later, on May 14, 2009, a public hearing was held before the Planning Commission; and

WHEREAS, no public testimony or written correspondence was received at the public hearing; and

WHEREAS, after considering the requirement for the County to comply with the County's Permit to prohibit non-stormwater discharges into the MS4 and the continuing need to protect local water quality, the Commission finds that the best interests of the public as well as its health, safety and welfare, will be met by the adoption of the proposed amendments to Spokane County Code Section 9.14, as set forth in Attachment 'Exhibit 1', attached hereto and incorporated herein by reference; and

WHEREAS, the Commission adopted the following additional Findings of Fact and Recommendations:

1. Pursuant to the provisions of RCW Chapter 36.70, the Commission has the legal authority to recommend the Adoption of the Proposed Changes to Spokane County Code Section 9.14, Roads, Approach and Drainage in New Construction.

2. The proposed Code amendments are consistent with and implement the Spokane County Comprehensive Plan.

3. The Code amendments are necessary to comply with requirements of the Eastern Washington Phase II Municipal Stormwater Permit and furthermore the proposed amendments are in the best interest of the public health, safety and general welfare of Spokane County.

4. Spokane County has provided for timely and continuous public participation in the adoption process consistent with RCW 36.70A.140, WAC 365-195-600 and the adopted *Public Participation Program Guidelines* (BoCC resolution 98-0144 and 98-0788). Public participation included:

    a. Notice of Open House in Spokesman Review, April 19, 2009;
    b. Public notice of public hearing as required by Washington State law, including a legal notice published in the Spokesman Review;
    c. Notice within an interactive website dedicated to Public Works in Spokane County, including information and direction on how to provide public comment;

5. After the required public notice, the Commission held a public hearing on May 14, 2009 to consider adoption of the proposed revisions to Spokane County Code.

6. No public testimony was received at the May 14, 2009 public hearing.

7. The Commission concurs with the Determination of Nonsignificance that was issued for the proposed revisions to Spokane County Code Section 9.14 on April 13, 2009.

8. On May 14, 2009, the Commission voted to recommend approval of the proposed Code amendments, as set forth in Attachment 'Exhibit 1'. Commission members Doug Kelley, Dave Jones, William Moore, Mike Schmitz, Peter Ice, Joyce McNamee, voted in favor of the recommendation. Commission member Randall Gillingham was absent at the time of the vote.

NOW THERFORE BE IT RESOLVED, that the Board does hereby adopt the recommendation of the Spokane County Planning Commission with respect to amendments to Spokane County Code Section 9.14 to prohibit non-stormwater discharges to the municipal stormwater system, included as Attachment "A" in the Commission's Recommendation as attached hereto and incorporated herein.

BE IT FURTHER RESOLVED, that the Clerk of the Board is directed to publish a notice of adoption pursuant to RCW 36.70A.290(2)(b).

BE IT FURTHER RESOLVED, that the Clerk of the Board is directed to send a copy of the revision to the Spokane County Code as contained herein to the Washington State Office of Community Trade and Economic Development pursuant to RCW 36.70A.106 within 10 days of adoption.

BE IT FURTHER RESOLVED, that the Board makes part of these findings and decision all files in the Spokane County Public Works Department - Department of the Engineering and Roads, Planning Commission, and the Board of County Commissioners along with the tapes, documents and files of all public hearings related to these matter and further adopts all recitals herein as findings of fact.

ADOPTED by the Board of County Commissioners of Spokane County, Washington this 21st day of July, 2009.

BOARD OF COMMISSIONERS SPOKANE COUNTY SEAL SPOKANE COUNTY, WA

Todd Mielke, Chair

Mark Richard, Vice-Chair

Bonnie Mager, Commissioner

ATTEST:

Daniela Erickson, Clerk of the Board 9-0672

Spokane County Code, Title 9, Chapter 9.14 - Roads, Approach and Drainage in New Construction

Revised Section 9.14.215 (see below)

9.14.215 Discharge of unauthorized waters and non-stormwater prohibited--Penalty.

(1) It shall be unlawful for any person to throw, drain, run or otherwise discharge or connect unauthorized water and/or non-stormwater discharges (illicit discharges) to the municipal separate storm sewer system (MS4), surface waters or ground waters of the state without written permission of the director of utilities, county engineer or authorized designee.

(A) For purposes of this chapter, unauthorized waters include, but are not limited to:

(a) Groundwater from springs or other natural or artificial sources, foundation drains, sump pumps, and other means of discharging groundwater to the surface;

(b) Stormwater runoff containing sediment;

(c) Discharges from swimming pools, hot tubs, detention or evaporation ponds;

(d) Other water and non-stormwater discharges (illicit discharges) posing a public health or safety hazard or that could reduce the effectiveness of stormwater control and treatment facilities, or negatively impact the MS4, surface or ground water. Illicit discharges include but are not limited to the following:

(i) Trash and debris;

(ii) Construction Materials;

(iii) Petroleum products including but not limited to oil, gasoline, grease, fuel oil and heating oil;

(iv) Antifreeze and other automotive products;

(v) Metals, in either particulate or dissolved form;

(vi) Flammable or explosive materials;

(vii) Radioactive materials;

(viii) Batteries;

(ix) Acids, alkalis or bases;

(x) Paints, stains, resins, lacquers or varnishes;

(xi) Degreasers and/or solvents;

(xii) Drain cleaners;

(xiii) Pesticides, herbicides or fertilizers;

(xiv) Steam cleaning wastes;

(xv) Soaps, detergents or ammonia;

(xvi) Swimming pool or spa filter backwash;

(xvii) Chlorine, bromine or other disinfectants;

(xviii) Heated water;

(xix) Domestic animal waste;

(xx) Sewage;
(xxi) Recreational vehicle waste;
(xxii) Animal carcasses;
(xxiii) Food wastes;
(xxiv) Bark and other fibrous materials;
(xxv) Lawn clippings, leaves or branches;
(xxvi) Silt sediment, concrete or gravel;
(xxvii) Dyes;
(xxviii) Chemicals not normally found in uncontaminated water;
(xxix) Any other associated process discharges, except as allowed by permit or law;
(xxx) Any hazardous material or waste not listed above;
(xxxi) Water discharged from the cleaning of containers or equipment used in laying, cutting, or processing concrete and mortar and the water used in such processes; and
(xxxii) Water discharged from the cleaning of equipment or containers holding paint solvents or similar contaminants;

(2) Discharges -- Conditionally Allowed.

The following types of discharges shall not be considered to be illegal discharges if the stated condition(s) is met:

(A) Minimal discharges from lawn watering and other irrigation run-off are allowed;

(B) Minimal discharges from street and sidewalk wash water, water used to control dust, and routine external building wash down that does not use detergents are allowed;

(C) Discharges from potable water sources, including water line flushing, hyperchlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water, as long as discharges are de-chlorinated to a concentration of 0.1 ppm or less, pH-adjusted if necessary, and volumetrically and velocity controlled to prevent re-suspension of sediments; and

(D) Other non-stormwater discharges may be allowed when in compliance with the requirements of a stormwater pollution prevention plan approved by the county engineer or director of utilities.

(3) Discharges -- exemption.

The following discharges are exempt from the provisions of 9.14.215:

(A) Non-stormwater discharges covered by a National Pollution Discharge Elimination System (NPDES) Permit and/or State Waste Discharge General Permit;

(B) Discharges from emergency fire fighting activities;

(C) Diverted stream flows not containing sediment;

(D) Uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20));

(E) Air conditioning condensation;

(F) Flows from riparian habitats and wetlands; and

(G) Irrigation water from agricultural sources.

(H) Dust control materials that are applied in compliance with local and state policy and/or law.

(4) Definitions.

"*CWA*" means the Federal Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended in Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, and Pub. L. 97-117, 33 U.S.C. 1251 *et. seq*;

"*Ground water*" means water in a saturated zone or stratum beneath the surface of the land or below a surface water body;

"*Hazardous materials*" means any material, including any substance, waste or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause or contribute to a substantial present or potential hazard to human health, safety and property or the environment when improperly treated, transported, or disposed of, or otherwise managed; and

"*Hyperchlorinated*" means water that contains more than 10mg/liter chlorine;

"*Minimal Discharges*" means minor infrequent discharges that occur during the normal course of lawn watering, street or sidewalk washing, exterior building washing, dust control, or irrigating that do not cause structural damage, negatively impede the function of the MS4 and are not defined as an illicit discharge. Discharges from publicly conducted or contracted street cleaning, dust control and maintenance activities that require water are classified as minimal discharges;

"*Municipal Separate Storm Sewer System or 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): (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 water 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 CFT 122.2.

"*National Pollutant Discharge Elimination System (NPDES)*" means 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;

"*Non-stormwater Connection or Illicit Connection*" means any man-made conveyance that is connected to a municipal separate storm sewer system without a permit, excluding roof drains and other similar type connections. Examples of illicit connections include, but are not limited to; sanitary sewer line connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the municipal separate storm sewer system;

"*Non-stormwater Discharge or Illicit Discharge*" means any discharge to a municipal separate storm sewer system that is not composed entirely of stormwater except discharges pursuant to a NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from emergency fire fighting activities;

"Waters of the State" includes 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.

(5) Authority to Inspect.

(A) The county engineer and/or director of utilities, or authorized designee(s) shall have the authority to inspect county property and/or the municipal separate storm sewer system, surface water or ground water to discover and locate illegal discharges.

(6) Authority to Investigate.

(A) The county engineer and/or director of utilities, or authorized designee(s) shall have the authority to investigate public or private property to determine the source of illegal discharges to public property, the municipal separate storm sewer system, surface water or ground water.

(7) Enforcement.

(A) The county engineer and/or director of utilities, or authorized designee(s), may give oral or written notice to any property owner or person who is discharging unauthorized waters or non-stormwater to county property, municipal separate storm sewer system or public rights-of-way;

(B) The county engineer and/or director of utilities or authorized designee(s), may give oral or written notice to any property owner or person who has connected or is illegally connecting a pipe, culvert, ditch, swale, stormwater pond, detention or retention facility, or other unauthorized connection to county property, municipal separate storm sewer system, public rights-of-way, surface water or ground water for the purpose of discharging unauthorized waters or non-stormwater;

(a) The illegal discharge or connection must cease and desist as soon as notice is given to the person. If oral notice is given, the county within twenty-four hours will send written notice to the person.

(i) If the violation does not cease and desist immediately upon oral and/or written notice, the county engineer or director of utilities or

authorized designee, may authorize the immediate removal of the illegal discharge and/or connection;

(8) Penalty.

(A) If the illegal discharge or connection does not cease and desist immediately upon notice, the person shall be guilty of a misdemeanor, and shall be subject to a fine not to exceed two hundred fifty dollars or imprisonment in the county jail not exceeding ninety days or both. Each day that a violation exists shall constitute a separate offense;

(B) The county may seek legal remedy and/or financial reimbursement for enforcement and, when applicable, soil and/or water contamination clean-up expenses resulting from illegal discharges and connections from the responsible party, as per the provisions of local, state and federal law. (Res. 01-1093, Exhibit A (part), 2001) (Res.09-0672, Exhibit A (part), 2009)

2013 RFIs With Locations Inside The NPDES Boundary

The data contained in this report should not be construed as representing all requests received by Engineering and roads or Stormwater Utility Staff. Due to a variety of factors, including a complete remodel of the database, some requests are not logged in and/or follow-up information is not entered into the record. There are 61 records represented in this report.

Request Type	Location	Request Description	Parcel #	Action Taken	Action Taken Details	Action Taken Log Details	Stormwater Staff Notes	Received Date
CLEAN SW FACILITY	wall & wedgewood	he said the catch basins on wall & wedgewood weren't taking water yesterday. he tried to make sure the grates were clear but thinks county needs to clean structures	36303.0301	Cleaned	NULL	NULL	NULL	6/3/2013 9:27
	Country Homes Blvd Channel	Vegetation and material in the channel is unsightly and is so overgrown and taking up space that the huge thunderstorms this weekend nearly breeched the channel. When will the vegetation be removed?	36302.1701	Completed	NULL	NULL	NULL	6/3/2013 13:53
	3rd & Della	Needs cleaning	55232.1408	Completed	Clean out the drywells ditch to the drywell,so the water could get to them.	MAKI, Rodney R.	NULL	6/20/2013 10:04
	ardmore off five mile	she said the catch basin at the end of ardmore is overflowing - it's the 1500 block of ardmore	26131.0208	Completed	NULL	NULL	NULL	6/25/2013 12:45
	1414 w cliffwood	she said the grate is right next to her driveway & the recent rains washed a large amount of dirt & yard waste onto the grate. she did her best to clean the grate but, she knows without it being monitored & kept clean that a heavy rain will overfill it and it floods her driveway almost to the door. you don't need to call her but she's	36072.0402	Cleaned	NULL	Request Read	NULL	6/28/2013 9:35
	904 W Westmont Way	there are 2 storm drains plugged in front of residence when it rains water puddles	36302.0316	Cleaned	NULL	he called again today because nothing has been done	NULL	7/19/2013 11:08
	Lee & Overlook	The drain is not draining after hard rains	55231.0814	Completed	NULL	Wendy was going to check it out. It looks like something the home ower install.	NULL	7/26/2013 15:14
	wall & wedgewood	he called in drainage structures not working. i told him i showed it as completed on 7/2/13. he said he can tell the grate has never been moved and he can see all the dirt in bottom. i asked him which corner and he said it's on the southwest corner. previous RFI # 131446 (2nd one with this number)	36303.0301	Completed	NULL	NULL	NULL	7/29/2013 11:27

	Howard & Wedgewood	drains plugged	36304.0901	Completed	NULL	NULL	NULL	8/2/2013 10:39
	columbia & northwood	southwest corner catch basin has a lot of dirt in it & when it rains it gets full & pushes grate up	46313.0602	NULL	NULL	NULL	NULL	8/27/2013 9:01
	57th & Ben Burr	Drain is plugged and causing runoff	34034.0305	NULL	NULL	Request Read	NULL	8/28/2013 13:28
	triple butte cl	per email-catch basin on north side at triple butte ct is completely non-functional & filled with dirt & debris	37261.0120	Cleaned	NULL	GREESON, Gregory A.	NULL	9/9/2013 9:28
	calispell ct	off rainier way - catch basins need cleaned. 2 @ rainier and one at end of cul-de-sac. and pipe that drains into drain field needs cleaned out as well	36194.0501	Cleaned	NULL	GREESON, Gregory A.	NULL	10/2/2013 9:47
EROSION	9212 E Wellesley Av east of argonne rd on north side	he said the shoulder of wellesley is eroding and washing mud and rock into his field. About 200 ft down the road on the south side of wellesley the shoulder is eroding into the asphalt roadway. Please repair. Thank you!	45052.0821	EROSION	NULL	RFI Completed	SHOULDER ERODING, MUD/ROCK WASHING TO FIELD AND ROADWAY	3/25/2013 10:02
	5225 S Cree Dr	She said the area near their mail box is eroding away.	44032.1225	Completed	NULL	ZIEL, Doug E.	NULL	4/9/2013 14:51
	14711 E Belle Terre Av	he said there's an area of bad erosion in front of his house. I asked him if it was into the asphalt and he said not yet. He's very worried it will get much worse with spring rains. He's concerned it could undermine the road. Please check it out. Thank you!	45354.9079	Completed	put in shot rock.	MAKI, Rodney R.	NULL	4/12/2013 9:22
	Liberty Dr and Clark	Water runs off the hill and is damaging the asphalt in this area	55224.0803	Completed	NULL	Request Read	NULL	5/20/2013 11:45
	12016 n vistawood	he said it's about a foot across. he thinks the asphalt gave way in the heat. when he looked into hole it appears the ground under the asphalt was eroded away. he didn't mention a depth.	36072.0501	Repaired	Patched	brenard (inspector) called to report bad sinkhole. I told him I'd had a call on it. he said it's pretty bad so he's putting some gravel in it for now.	NULL	6/5/2013 15:24

	1419 W Toni Rae Dr	The sinkhole is located in the middle of the road in front of this address. The caller said the hole is very large.ks	26131.0701	Repaired	Patched	she called today & says it is much worse	NULL	6/10/2013 12:21
	just east of apache pass/mohawk	fax states "fire hydrant cause some erosion to roadside ditch, should be looked at."	44032.0210	Completed	Filled in	Doug Scott	NULL	6/11/2013 8:35
	5201 s mohawk	there's been ongoing work to minimize erosion. he said with all the rains we've had the gravel from the shoulder is running into his yard and heading for his sprinkler system controls. he thinks it's due to recent shoulder work by County	44032.0302	NULL	NULL	Request Read	NULL	6/25/2013 13:11
	Spur St and Glenrose	Spur St from Glenrose to Sumac the road is starting to sink and has alot of pooling water. The road is sinking around the storm drains and there is cracking all the way across the road. The homeowners said this has been going on for a while and needs to be looked. Sounds like there is a serious water issue in the area.z	34022.4308	Completed	stormdrain system was installed and asphalt repaired	stormdrain system was installed and asphalt repaired	NULL	7/2/2013 9:02
	glencrest & woodcrest	she said there is a hole in the asphalt. it's approximately 8" in diameter. she looked into the hole and said there's nothing under the hole for about 6" then she saw the ground. she said it appears to be a sinkhole.	37321.1028	Repaired	NULL	NULL	NULL	7/15/2013 13:33
	2nd & molter	his email says basically that some water from sprague and water on east side of molter from sprague to 2nd is cutting a ditch next to asphalt & then water & dirt run across 2nd leaving a mess	55232.1213	NULL	NULL	Request Read	NULL	8/15/2013 12:47
	8925 E Parkside Lane	The caller said that we have a storm water facility next to his property and after the storm last night there are about 10 dump truck loads of dirt that have sloughed off of the hillside and are filling up the bottom pool. The dirt has covered two dry wells too. The caller said he wanted to give us a heads up before it gets too bad. He	46311.1209	NULL	NULL	Request Read	NULL	9/16/2013 10:52
	forker	his message yesterday said on the west side between bigelow gulch & progress there's a large erosion area that is starting to undermine the edge of the asphalt	46351.9129	NULL	NULL	Request Read	NULL	11/12/2013 8:41
FAILING DRAINAGE FACILITY	eva st & olympic av	it's looking like the drywell on the corner is having problems. he said it looks as if it might be caving in or something. there's a lot of little kids in the area.	56343.0701	Cleaned	NULL	NULL	NULL	5/6/2013 13:25
	holyoke & wall	she said on the corner by the wheelchair ramp is a sinkhole. she said it's not like a pothole. there's a hole through the ashpalt and you can see into the drainage structure. she's also worried someone could step into the hole.	36303.2012	Repaired	Darly z put gravel then put cold mix in.	Darly z put gravel then put cold mix in.	NULL	6/10/2013 16:16

	413 e timberwood	he said there's a sinkhole across the street from address. it's at a drainage structure and there's a small hole through the asphalt. he's sure it's going to get bigger.	37322.0801	Repaired	NULL	NULL	NULL	7/15/2013 8:45
	17901 NE 11th - corner of culdesac, E of Crescent Dr	Storm drain washout (Info rcvd fm Sewer Maintenance staff - no name, phone, etc.)	55194.1909	NULL	NULL	Handed to Wendy to look at.	NULL	7/16/2013 9:16
	Hughes & Carolina	Drywell at this location has been cleaned at least a few times but still does not take water during storms. The facility is being undermind and property owner is concerned about a sinkhole forming. Caller says neighbors (lived there since the 60s) say the facility worked until sewer was put in, but hasn't worked since.	36193.0484	Cleaned	NULL	NULL	NULL	7/18/2013 10:07
	5209 s bates	he said the catch basin north of his house has a problem and he thinks the asphalt is being undermined	44042.2731	Completed	NULL	homeowners association sent in email	NULL	7/26/2013 9:00
	5209 s bates	he said the catch basin north of his house has a problem and he thinks the asphalt is being undermined	44042.2731	Completed	NULL	homeowner's association emailed again	NULL	7/26/2013 9:00
	115 S Overlook	He has called before with the same drainage problem from his culvert	55231.0814	Completed	NULL	NULL	NULL	8/12/2013 10:40
	4805 e jaremko	she called and told me about a previous sinkhole in her yard & in street in front of her house. i found the completed RFI explaining what was done before in system and sent as emails to Bud. they were from 2010. she says now the sinkhole is back and much worse. she believes it's just beside the previous	37353.0810	Repaired	Excavated out 5.5foot by 9.5foot area and put farbic down and filled in with gravel.	Excavated out 5.5foot by 9.5foot area and put farbic down and filled in with gravel.	NULL	8/13/2013 11:43
	Ashton Ct	The pavement near the drain is eroding away	34031.4118	Repaired	NULL	NULL	NULL	10/4/2013 10:20
FLOODING	8422 N Mountain View Ln off carolina way	county maintained - he says there's water bubbling up through the asphalt. It's a pretty good flow of water. I called john seaver.	36193.0901	WATER OVER ROADWAY	NULL	RFI Completed	SPRING	1/28/2013 9:23
	4423 E 56th Av between morrill st and lloyd st	water is jumping the curb going onto driveway. Basement flooded recently.	34022.0713	FLOODING	NULL	RFI Completed	WATER JUMPING CURB, GOING INTO DRIVEWAY, FLOODED BASEMENT	1/31/2013 12:41
	Ardmore Dr North end of W Ardmore Dr	Water seepage on street	26131.0208	NULL	NULL	NULL	SPRING IN ROADWAY	3/14/2013 9:35

5512 S Mohawk Dr near apache pass rd	he said there's a new house been built. The culvert for that place is draining water across Mohawk Dr and washing gravel onto the road. Please take a look at the situation and see if County can't prevent the water running across Mohawk.	44032.0113	Completed	NULL	NULL	WATER FROM CULVERT DRAINING ACROSS ROADWAY	3/20/2013 16:51
Country Homes Bv at cedar st	he said the intersection of country homes and cedar is flooded. I called Bud. He already was aware of the situation.	26254.9043	WATER OVER ROADWAY	NULL	RFI Completed	WATER OVER ROADWAY	3/21/2013 11:31
1305 S Liberty Dr and Lilac	her email says "Water over the roadway. Drywells overwhelmed."	55224.1506	Completed	NULL	NULL	NULL	4/22/2013 9:04
5107 s mohawk	water over roadway washed mud & gravel into his sprinkler control box. he's hoping County will use a vactor truck to clean it out. he said you will need a 4" hose due to the sprinkler line running through the middle of the box. he would like to go over with county what he's done so county can help him control run off. he	44032.9047	Completed	NULL	Request Read	NULL	5/2/2013 12:50
Wall & Wedgewood	The drains in this area are plugged	36303.0301	Completed	NULL	he called again today but this time said plugged structures are on howard	NULL	6/18/2013 9:42
country homes west of division	he said they're getting reports of a lake on country homes	36191.9142	Completed	Vactored	Request Read	NULL	6/20/2013 8:37
Ardmore to Kensington	The only storm drain on Ardmore is clogged resulting in a flood on Kensington. (Am trying to clarify with Mr. Rice, whether water is travelling across land to Kensington as we suspect it is.)	26131.0301	Completed	NULL	NULL	NULL	6/25/2013 13:10
country homes	about 300 ft from division and 1/4 mile away water across road from curb to drainage ditch. i called John Seaver.	36191.9142	NULL	NULL	Request Read	NULL	8/2/2013 11:43
market	she said deputy reported water over road on market south of lincoln. i called John Seaver	36272.0140	NULL	NULL	Request Read	NULL	8/2/2013 11:44
5518 N. Northwood Dr	County built up their driveway so water would not flood garage. With the rain we just had his garage did flood, can County build up the asphalt again.	46313.0402	NULL	NULL	Re-routed from Maintenance Engineer (Wendy Iris) to District 4 (Randy Moran)	NULL	9/6/2013 10:49

	6821 n smith st	he said he frequently has a puddle in front of his property and at times it covers both lanes of smith st	36284.0213	NULL	NULL	Request Read	NULL	10/18/2013 10:53
	between 8409 and 8319 N Co. Homes Blvd	south bound lane water almost across the width of roadway	36193.0746	Completed	Colleen Little notified.	Put up water over roadway and vactored up some 11/7/2013.	NULL	11/7/2013 14:43
	Hawthorne Rd & Whitworth Dr	Water puddles on south side or road right in ADA ramp of the RRFB crossing. See attached email. Contact requested, but flag in database not working for me.	36184.2430	Completed	Cleaned to day with vactor today and drywells in area full to half way full.And pine needls on top of grates.	Request Read	NULL	11/13/2013 14:21
GROUNDWATER ISSUES	14405 N Shady Slope Rd	Natural Springs come off this property and drain in to the road right of way. If there is a lot of water is washes across the road to the east side of Shady Slope. The caller believes that there should be better provisions for this water run off instead of directing it into the county right of way due to the improperty grade of the property. PLease contact the caller.	37336.9134	NULL	NULL	Request Read	NULL	8/6/2013 16:38
	1314 W Five Mile Rd	Caller said that water is coming up through the asphalt and is pooling in her circular driveway and her driveway to her house. She is afraid that if we have another large rain storm her house will get flooded. She would like for a supervisor to come out and take a look at this issue and contact her as soon as possible. She has contacted Whitworth Water and they have been out 3 different times and said that their line does not have an issue and that she needed to contact Spokane County.	36182.1510	Site Visited	Sent toWendy Irse to look at	Matt Zarecor is going to contact caller.	NULL	11/18/2013 9:21
	14405 N Shady Slope Rd	The caller said that there is a spring on the west side of this road at the above property and the way that the property is graded, the water drains onto the road way and freezes. This is causing a very hazardous situation in two places. One near the mailbox and one near the 1st driveway near the pond. The caller said the two	37336.9134	NULL	NULL	Request Read	NULL	11/25/2013 15:09
MISCELLANEOUS	Price Av Wall	He said there was some damage to the drainage area at that intersectiion.	NULL	NULL	CL made site visit 3/20/13 and found no damage at regional facility.	RFI Completed	NOTATION RE DAMAGE AT REGIONAL FACILITY - NONE FOUND	3/12/2013 13:17
	Five Mile Rd several locations	(1) he said he owns the house at 9216 N Five Mile. South of this address there's a hole in the asphalt pathway he believes it's going to collapse it appears undermined. He's placed a cone upside down in the hole. (2) at Johannsen there's erosion areas in the shoulders and he's placed cones to mark the location &	26242.9029	Completed	NULL	NULL	MULTIPLE ISSUES - EROSION - HOSE DRAINING TO ROADWAY	3/13/2013 10:59
	8622/24 N Mountain View	he says County owns property adjacent to his place. there's a large tree that is starting to interfere with his house. he said it may be difficult to remove the tree. he gave his cell number & his wife's cell number. SCIMap shows County property is "stormwater".	36193.0728	NULL	Tree has been removed per Penny Flowers.	MB called and talked with Mr. Watson. Told him PF is working on getting the tree taken down. Will send Mr. Watson PF's contact info so that he	NULL	6/19/2013 13:49

	8622/24 N Mountain View	he says County owns property adjacent to his place. there's a large tree that is starting to interfere with his house. he said it may be difficult to remove the tree. he gave his cell number & his wife's cell number. SCIMap shows County property is "stormwater".	36193.0728	NULL	Tree has been removed per Penny Flowers.	Bids are being taken and tree removal will be accomplished when possible.	NULL	6/19/2013 13:49
	16301 Whirlaway Lane	Runoff from property/development above is compromising (running behind) a 20' retaining wall on caller's property. RC took the call and told him it may be private property issue. Caller would like someone to take a look and let him know.	45253.9113	NULL	MZ made site visit. Possibility of a problem is remote and would be a private property issue if it did happen. RFI can close.	MZ made site visit. Possibility of a problem is remote and would be a private property issue if it did happen. RFI can close.	NULL	7/30/2013 11:53
Potential Illicit Discharge	Conklin & Sonora	Trucks tracking dirt and debris along roadway. Improper BMP's with adjacent natural spring.	45253.5402	NULL	Penny made site visit, spoke with contractor (Eller?) and they agreed to clean things up. Follow-up visit was made and the mess had been taken	Request Read	NULL	8/13/2013 7:38
Swale Issue	13202 N Whitehouse	Swales in Arrowhead Point, at this location and others (505 W Center) are not functioning as intended. Water going down roadway, standing for long periods of time, etc.	36064.0601	NULL	see site visit notes	PF visited area and took photos. Caller has been contacted. RFI can close.	NULL	9/11/2013 11:52

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Illicit Discharge Hotline - Storm Drain Dan Program

Hi! My name is Storm Drain Dan. I'm new to the area, and am the mascot for a cooperative effort between Spokane County, the City of Spokane, and the City of Spokane Valley. My purpose is to encourage everyone to take responsibility for ensuring that nothing other than stormwater gets into our storm drains. Remember, You Are The Solution to Stormwater Pollution!

Click here for additional information after you've read through this page: Hotline Info

You can also help prevent roadside flooding and assist the folks who maintain area roads and streets, so that property and homes stay as dry as possible during rain and snow-melt events.

Throughout the year county road crews work to prevent roadside flooding by keeping storm drains open. During and after thunderstorms and snow-melting events, they may not be able to get to storm drains near your home immediately. They have a lot of area to cover.

If you can work without danger to your health and safety, you can help prevent roadside flooding by adopting a storm drain near your home.

- Check the storm drain grate or inlet frequently to make sure it is free of snow, ice, leaves, pine needles and other debris.
- Rake snow, ice and other debris away from the storm drain.
- Leave the storm grate securely in place. If it is cracked or damaged, report it at the number below.
- Dispose of the snow, ice or debris in a safe place that won't cause a traffic hazard.

If you are unable to safely clear a storm grate or inlet and you think a flooding problem is imminent, call the County at 477-3600 to report the situation.

Storm Drain Dan says:

Be safe and smart when working near the roadway.

Thanks for helping to prevent roadside flooding,

Remember,

YOU ARE THE SOLUTION TO STORMWATER POLLUTION!

This page was last edited 1/11/2012 10:27:51 AM .

2010-2013 Compliance Actions
IDDE Priority Water Body Inspections
Phase II Municipal Stormwater Permit
Report Last Updated - March 2013

2010 Primary Water Bodies Inspected:

1) Spokane River

Trent Avenue to Boulder Beach

Office investigation throughout August/September 2010 looking at property ownership, developing GIS maps of the sections of the Spokane River that are within the NPDES boundary, historic land use research through old aerial photos and maps.

An existing known outfall (approx. 36" CMP) was observed that connects to Ella Road (no gps readings were taken at this time). There was no visible water exiting the pipe.

On October 21, 2010, the primary access points at State Line, Sullivan Road, Mission Avenue (off Flora), Barker Road,

A water (canoe) inspection was conducted on the Spokane River on October 22, 2010 by Russ Connole (Stormwater Utility) and Matt Zarecor (Development Services) from Trent Avenue to Boulder Beach on Upriver Drive. No illicit discharges were observed in this section of the river. However, documentation was made of the outfall from Inland Paper that is permitted under an Industrial NPDES. See file for maps and information.

Plese Flats to Nine Mile Dam

Office investigation throughout August 2010 looking at property ownership, developing GIS maps of the sections of the Spokane River that are within the NPDES boundary, historic land use research through old aerial photos and maps.

Field reconnaissance inspection September 1, 2010, Russ Connole and Melissa Burchell of the Stormwater Utility. Locations on the Spokane River and Little Spokane River were inspected for river access points.

Ground field inspection on September 2, 2010, by Russ Connole of the Stormwater Utility, from Nine Mile Dam to Plese Flats looking for stormwater outfalls (illicit discharges). At the time of the inspection, work was being done on the Nine Mile Dam so the water level was very low and the river banks, as well as any inlet flows, were readily visible. The ground field inspection revealed no visible illicit discharges to this section of the Spokane River. However, the width of the dammed river is wide through this stretch and an additional water based inspection should be conducted.

Harvard to Buckeye

Field inspection conducted on October 27, 2010. This inspection revealed 4 culverts in this stretch along Upriver Drive. Two culverts across from the Avista property (near Havana) collect stormwater from the road right-of-way as well as, potentially collecting sheet flow from the Avista property. The Avista property contains a large sub-station and storage area for transformers. Stormwater drainage from the Avista property onto the right-of-way and subsequently to the river is of concern.

A third culvert drains stormwater from the Upriver Drive right-of-way and also has potential sheet flow from the Beau Rivage apartment complex. The apartment complex area contains a large lawn area and a grassy ditch prior to the culvert inlet. The culvert outlets to a native grass and treed area prior to reaching the river.

The fourth culvert drains stormwater from the Upriver Drive right-of-way. The inlet is from a roadside ditch that is largely unvegetated. The culvert outlets to a native grass area prior to reaching the river.

2) Liberty Lake

A detailed field inspection was conducted on 9-15-10 by Russ Connole and Matt Zarecor, of the Stormwater Utility. The lake shore perimeter was canoed and visually inspected. Two known outfalls were observed off of Shoreline Drive. Three unknown outfalls were observed along the west shore and GPS readings were taken documenting their location. Water was running from all three outfalls at the time of inspection. It was not raining the day of the inspection and there had been no precipitation within the last 48 hours or more.

A subsequent field inspection on land was conducted on 10-15-10 by Russ Connole and Bill Galle, of the Stormwater Utility. All three outfalls were found and additional information was gathered and entered into the GPS system for subsequent upload to the County GIS system. At the time of inspection, water was running from all three outfalls. A preliminary investigation was conducted in an effort to discover the source of the running water but no above ground sources were determined. Further investigation is required.

Discussion with BiJay Adams of the Liberty Lake Water and Sewer District about three outfalls. Two of the three culverts are believed to drain streams or spring water from the developed areas and their sources have been discovered. However, the source of the water in the culvert/pipe in-line with Clark Street is unknown. Their district does water quality monitoring on the outfalls in question every two weeks in the summer months.

Field inspection of Liberty Lake outfalls on October 21, 2010 by Russ Connole, Stormwater Utility and BiJay Adams, Liberty Lake Sewer and Water District (LLSWD). The outfalls have been previously named by the LLSWD as Kamiakin, Stokke and Clarke. Kamiakin contains an

approximately 30" CMP at the outfall to the lake and approximately a 30" ductile iron pipe at the inlet, Stokke contains a 12" CMP at both the outfall and inlet locations, and Clarke contains an approximately 8" ductile iron pipe at the outfall. Both the Kamiakin and the Stokke piping systems appeared to be located primarily within the public right-of-way of Kamiakin Ave. and Shadey Lane, respectively, **although further investigation is required for confirmation**. The inlet of the Clarke pipe was not found. The Clarke piping system appears to be located primarily within the right-of-way of Clarke Street, **although further investigation is required for confirmation**.

On this day, all three outfalls were running water. The water from all three outfalls appeared clear and there was no noticeable odor. It was not raining the day of the inspection and there had been no precipitation within the last 48 hours or more.

Prior to the field inspection, background research was conducted on these outfalls by evaluating historic plats, DNR streams and lake development sequences. Historic plat information was taken along during the field investigation. The background investigation revealed that the Kamiakin and Stokke outfalls were classified as "running brooks" on the 1906 Wicomico Beach survey plat. The source investigation for the Kamiakin and Stokke outfalls confirmed that the source of the running water for these two outfalls was spring water surfacing up gradient of the outfalls. It is unknown whether there are any illicit connections to the underground piping systems feeding these outfalls from the adjacent residential development. **Further investigation of the underground piping systems is necessary to determine if underground illicit connections exist.** See file for maps and aerial photos.

3) Silver Lake

Office investigation throughout August and September 2010 looking at property ownership, developing GIS maps of the sections of Silver Lake that are within the NPDES boundary, historic land use research through old aerial photos and maps.

Field reconnaissance inspection September 7, 2010, Russ Connole of the Stormwater Utility. Publically accessible locations on Silver Lake were inspected for lake access points.

A water (canoe) inspection of the entire perimeter of the lake (south of Medical Lake - Four Lakes Road) was conducted on the Spokane River on September 15, 2010 by Russ Connole (Stormwater Utility) and Matt Zarecor (Development Services) from the public State of Washington Fish and Wildlife access point off of Freeman Road. Silver Lake north of Medical Lake - Four Lakes Road is outside of the NPDES boundary. One potential illicit discharge was observed along the west bank of the lake. A GPS point was created and photos were taken documenting the location. We also observed a public right-of-way (Silver Lake Road) adjacent to the east shore of the lake that was heavily brushed and had a potential for culvert outfalls to the Lake. No culvert outfalls were observed during this inspection, however, it was determined that a follow-up inspection would be necessary on Silver Lake Road to determine if any outfalls (or illicit discharges) were present.

September 17-20, 2010, in-office investigation and analysis, including reviewing GIS maps and plat maps associated with west shore of Silver Lake.

A follow-up inspection was conducted on September 28, 2010 by Russ Connole, Stormwater Utility along Silver Lake Road. Two culverts that were collecting stormwater from a drainage ditch adjacent to the road were observed. One of which had the potential to outfall to the lake and another that appeared to discharge to a natural vegetated area (although there was a wetland/pond area near the vegetated buffer area that connected to the lake. It was unclear at this time, if stormwater from the second culvert would have the potential to reach the wetland/pond area. Further investigation may be required at this location.

A second follow-up inspection was conducted on September 29, 2010, by Russ Connole and Bill Galle of the Stormwater Utility. The outfall located on the west side of the lake was gps'd on land and additional photos were taken. This outfall was traced back to a culvert running under the Freeman Road. Due to the grading and slope of the road, there was no observed potential for roadway stormwater runoff to enter the culvert that connects to the outfall. It was determined that the culvert is located on a natural drainage area connecting to a pond approximately 1,600 feet west of the lake.

2011 Primary Water Bodies Inspected:

1) Spokane River

State Line to Barker Avenue, Inspection by Russ Connole

Office investigation throughout August 2011 looking at property ownership, developing GIS maps of the sections of the Spokane River that are within the NPDES boundary, historic land use research through old aerial photos (1950, 1974, 1980, 1986, 2010) and maps. The 1950 maps show that the historic use of area was primarily for agricultural purposes (orchards and farming). By 1976, the primary land use began to change to residential. From that time on there has been a gradual transformation to low density residential. In 2010, residential use of the area north of the Spokane River is the substantial dominating land use. There is no photo evidence of industrial facilities within this stretch between 1950 and 2010.

A car and on foot field inspection along the north side of the Spokane River, along the south side of River Road and Euclid Avenue 8-18-11 revealed no outfalls from the rights-of-way to the Spokane River. There is very little, if any, defined drainage ditches along side of the paved portions of the road. A drywell was observed at the intersection of River Road and Murray Road.

It was difficult to inspect the river on-foot from the bank due to vegetation, water, geologic, and property limitations. In order to fully inspect this section of the Spokane River for illicit discharges an on-the-river floating inspection is necessary.

2) Liberty Lake

Inspection by Russ Connole

Site inspection on 5-13-11, by Russ Connole. Inspected three outfalls, Kamiakin, Stokke and Clarke. The lake water level as high, due to spring runoff, and recent rains. The Kamiakin outfall was flowing heavily into the lake. The outlet of the Stokke outfall was under the water level of the lake, therefore, an estimation of the amount of water flow from the pipe could not be made.

These outfalls should be video inspected to determine if there are any unknown illicit discharges to the underground sections of the pipes.

3) Little Spokane River

Colbert Road to Saint George School River Access

Office investigation throughout August 2011 looking at property ownership, developing GIS maps of the sections of the Spokane River that are within the NPDES boundary, historic land use research through old aerial photos (1935, 1950, 1974, 1980, 1986, 2010) and maps. Land uses have changed from 1935, when a majority of the adjoining property utilized for agricultural purposes.

Colbert Road to Pine River Park – Field Investigation

Inspection by Russ Connole and Bill Galle

Float investigation 8-25-11. This inspection revealed one (1) outfall (4" pipe) that appeared to be sourcing from a nearby residence. The outlet of the pipe was under the surface of the water so it could not be determined if the pipe was actually flowing. Further investigation is required to determine the source of the pipe.

Pine River Park to Fish and Wildlife River Access near St. George School – Field Investigation

Inspection by Russ Connole and Bill Galle

Float investigation on 9-22-11. This inspection revealed six (6) outfalls; two (2) 4" steel pipes (same location); two (2) 8"-10" concrete pipes (same location); one (1) 8"-10" concrete pipe; and one (1) 12" CMP. GPS coordinates were taken at each pipe location.

The two (2) 4" pipes were found below a private bridge crossing on the south/west bank. These pipes my have had something to do with drainage from the old road crossing,

The two (2) 8"-10" concrete pipes (same location) where found protruding from the south bank of the river below the water level. Two separate pipes were observed very close to each other. Broken sections of the pipe were visible moving out into the river. It is unknown what the source of this pipe is. And is it unknown whether this pipe discharged into the river or crossed

the river at some point in the past. Due to three quarters of the pipe being below the surface of the water and the river was flowing past, we were unable to determine if water was flowing from the pipe into the river or if river water was flowing back up the pipe. The bank of the river was too high, approximately 5'-7' above the surface of the water – so we were able to visually inspect the land above the pipes. A historic photo investigation has revealed that the City of Spokane operated sewage lagoons in the general area on the north side of the river. Further investigation is required to determine the source and status of these pipes.

One (1) 8"-10" concrete pipe was observed approximately 75'-100' west of the two pipes mentioned in the previous paragraph. This pipe also protruded from the south bank under the water level and broken sections of the pipe were visible under the surface of the water. And is it unknown whether this pipe discharged into the river or crossed the river at some point in the past. Because the pipe was ¾ below the surface of the water and the river was flowing pass, we were unable to determine if water was flowing from the pipe into the river or if river water was flowing back up the pipe. The bank of the river was too high, approximately 3'-4' above the surface of the water and the native grass was 5'- 6' above the bank – so we were able to visually inspect the land above the pipes. A historic photo investigation has revealed that the City of Spokane operated sewage lagoons in the general area on the north side of the river. Further investigation is required to determine the source and status of this pipe.

One (1) 12" CMP was observed on the south bank of the river with a discharge point completely below the water line. The source of this pipe is currently unknown. During the initial discovery, we were unable to determine if water was discharging from the pipe or entering the pipe. Further investigation is required to determine the source and status. (may be part of an irrigation system return, a drain pipe for a wetland area, part of the historic sewage lagoon system, other....??)

2012 Primary Water Body Inspected:

Liberty Lake Inspection by Russ Connole, 8-22-12

An inspection of the Shoreline Drive outfalls to Liberty Lake was conducted on 8-22-12. The findings of this inspection revealed results consistent with 2010 inspection and previous discussions list above. Spokane County is evaluating the opportunity to install a water quality treatment solution that addresses the two (2) outfalls off of Shoreline Drive. This project is being considered for a future grant application project.

Hazmat Spill Contractor List

Ecology does not verify or endorse any of the contractors or information on this list . Information on this list is subject to change.

http://www.ecy.wa.gov/programs/spills/response/hazmatspillcontractlist.pdf

COMPANY LOCATION	COMPANY NAME	SPILL NUMBER	OIL SPILL		Haz		Reactives	Vac	Vessel/	STATE COVERAGE	
			Small*	Large	Mat	Organic**	Cylinders	Truck	Water	Eastern	Western
Aberdeen	Apex Environmental	(360) 532-3590	X	X				X			X
Aberdeen	Evergreen Environmental Inc.	(360) 533-6141	X	X							X
Battleground/Waitsburg	3 Kings Environmental	(360) 666-5464	X	X	X		X		X	X	X
Bellingham	Matrix Service	(360) 676-4905	X	Xw							X
Bellingham	Western Refinery Service	(360) 366-3303						X			X
Camas	West Coast Marine Cleaning	(360) 696-3362	X	X		X		X		X	X
Astoria/Corvallis, OR	NWFF Environmental	(800) 942-4614	Xw	Xw	X	X	X	X	X	X	X
Everett/Orting	Aspen Environmental, Ltd	(800) 716-3377	X	X	X			X		X	X
Graham, WA	Drakkar Industries	(253) 302-0014	X	X	X	X					X
Kent	Rivers Edge Services	(206) 941-1645	X	X	X			X			X
Longview/Portland/Seattle	Accord	(877) 251-8557	X	X	X	X	X	X			X
Longview	All Out Industrial & Env. Serv.	(360) 414-8655	X	Xw	X			X			X
Longview/Astoria/Portland/Aberdeen	Cowlitz Clean Sweep	(888) 423-6316	X	Xw	X	X		X	X	X	X
Lynnwood	Environmental Quality Mngmt	(425) 673-2900	X		X	X					X
Olympia	Focus Environmental Mgt Group	(815) 621-2398					X			X	X
Portland/Eugene/Vancouver	First Strike Environmental	(800) 447-3558	X	X	X	X		X	X	X	X
Portland/Kennewick	Oil Re-Refining Company	(800) 367-8894	X					X		X	X
Portland/Kennewick/Spokane	Harbor Oil	(503) 285-4648	X							X	X
Puyallup	Pro-Vac	(253) 435-4328	X	X				X		X	X
Renton	Aqua Clean Jet-N-Vac, Inc.	(800) 842-5326	X	X		X		X		X	X
Tacoma	Northwest Cascade	(253) 848-2371				X		X	X		X
Tacoma	Certified Cleaning Service	(253) 536-5500	X	Xw	X			X		X	X
Tacoma	Guardian Industrial Services	(253) 536-0455	X	w				X		X	X
Tacoma	Emerald Services	(253) 627-4822		X	X					X	X
Tacoma	PRS Group, Inc.	(253) 383-4175	X		X			X			X
Seattle	Baker Tanks	(425) 487-6503		X	X					X	X
Seattle	Ballard Diving & Salvage	(206) 782-6750		X					X		X
Seattle/Tacoma/Vancouver	Emerald Services Inc.	(206) 832-3000	X	X	X			X		X	X
Seattle	Clean Harbors	(800) 444-4244			X					X	X
Seattle/Tacoma/Spokane/Astoria	NRC Environmental Services, Inc	(800) 337-7455	X	Xw	X		X	X	X	X	X
Seattle	Global Environmental	(206) 623-0621	X	Xw					X	X	X
Seattle	Marine Vacuum Service	(206) 762-0240	X	X				X		X	X
Seattle	ONYX Enviro. Services	(206) 241-3900			X		X			X	X
Seattle/Spokane	Pacific Industrial Resources	(206) 767-3957	X	X	X		X	X		X	X
Seattle/Tacoma/Washougal	Philip Services Corporation	(800) 547-2436		X	X			X		X	X
Seattle/Portland	Belfor Environmental	(800) 930-0011	X	X	X	X				X	X
Snohomish	Whiteside Inc	(360) 668-8282	X	X				X			X
Spokane	Able Clean-up Technologies	(509) 466-5255	Xw	Xw	X	X	X		X	X	
Spokane	Big Sky Industrial	(509) 624-4949	X	X				X		X	
Vancouver/Pasco	Tidewater Environmental	(360) 695-8088		X	X					X	X
Woodinville	CADRE	(425) 883-8007					X			X	X

w = PRC: WAC 173-181 Approved Primary Response Contractor (oil) for facilities.

** Organic=sewage, blood, animal waste, etc.

Revised July 2009

* Small=roadside, home tank, saddle tank, storm drains, 1 drum, etc.

Home Heating Oil Tanks - state of Washington - Pollution Liability Insurance Agency 1-800-822-3905 - Insurance Verification (M-F, 8-5)

The Following is a List of Regional Treatment Centers for Petroleum Contaminated Soil:

CRO	Roosevelt	Roosevelt Regional Landfill	1-800-275-5641	Disposal Only
ERO	Spokane	Remtech, Inc.	(509) 624-0210	Thermal Desorption
NWRO	Everett	Rinker Materials	(425) 355-2111	Soil Remediation
NWRO	Seattle	Leforge Cement	(206) 937-8025	Cement Incorporation
SWRO	Tacoma	Petroleum Reclaiming Services	(253)383-4175	Stabilization/Disposal
SWRO	Port Angeles	Fields Shotwell Corp.	(360) 457-1417	Thermal Treatment/Recycling
SWRO	Portland OR	Waste Management	(800) 685-8001	Disposal Only
SWRO	Fife	Fife Sand & Gravel	(253) 922-7710	Bio-Remediation

KEY: CRO: Central Region ERO: Eastern Region NWRO: Northwest Region SWRO: Southwest Region

Washington State Department of Ecology Regional Office 24-Hour Oil Spill/Release Reporting Numbers

WHAT WE NEED TO KNOW

- Reporting Party
- Contact Phone(s)
- Responsible Party
- Material Released
- Resource Damages (e.g. dead fish)
- Quantity
- Concentration
- Location
- Cleanup Status

Or call the **Department of Emergency Management 24-hour Number: 1-800-258-5990**

For EPA and US Coast Guard reporting, call the National Response Center: 1-800-424-8802

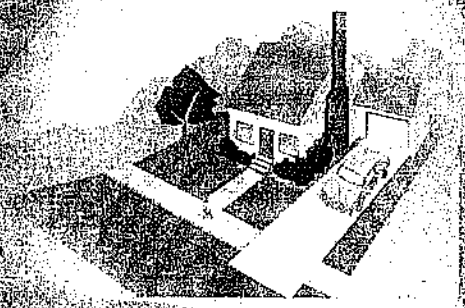
Idaho: Communications Center (208) 327-7442 ***Oregon***: Emergency Management (503) 378-6377

BC: Provincial Emergency Program (800) 663-3456 ***EPA Region X, Seattle***: (206) 553-1263

January 2010
(revised)

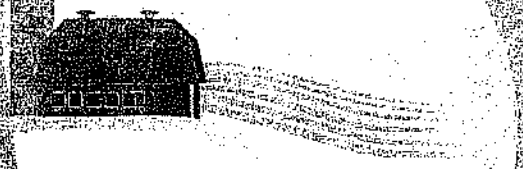
Preventing Polluted Runoff

Everybody's Business



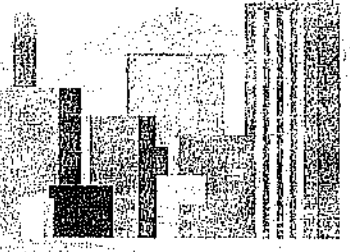
pet waste, fertilizer, chemicals, auto fluids

Homeowners can prevent polluted runoff by using fertilizers and chemicals sparingly, maintaining septic systems and picking up pet waste.



nutrients, pesticides, sediment

Farmers can prevent polluted runoff by managing soil and animal feeding operations and buffering streams with native trees and plants.



oil, heat, road salts, sediment, chemicals

Developers and planners can prevent polluted runoff by using low impact development and providing structural and nonstructural controls.

EPA United States Environmental Protection Agency

EPA 841-H-03-001

Printed with soy based inks on recycled paper.

For more information, visit www.epa.gov/nps

NO ROOM FOR MONSTERS IN OUR WATERWAYS!!

Thanks to the fourth-grade gifted class at Melbourne's Gemini Elementary School for their ideas and help in designing this brochure.

The Monsters of the Waterways

Can you think of other ways to keep the "Monsters" out of our water systems? Let us know!

For local information, contact:

Printed on recycled paper

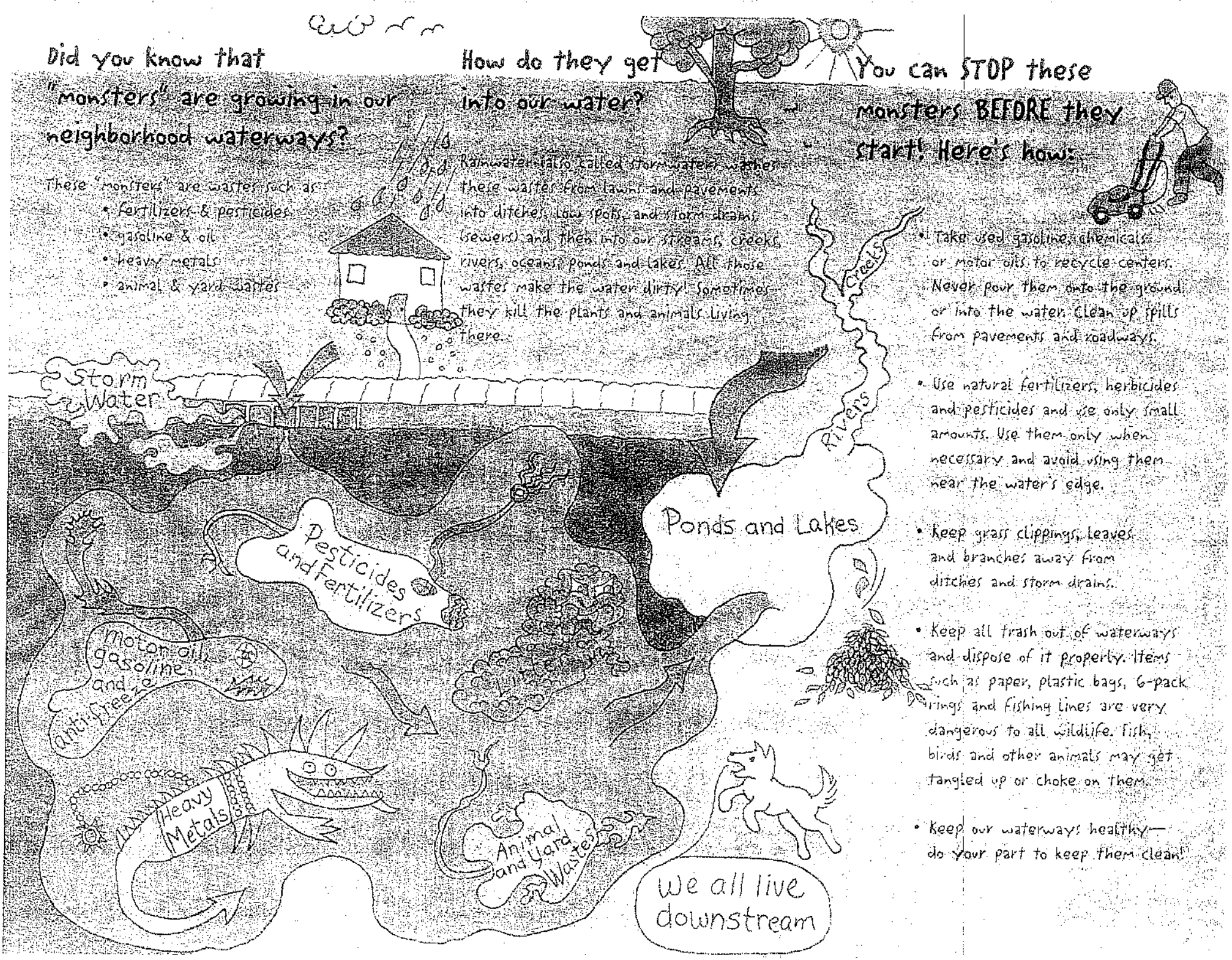
Did you know that "monsters" are growing in our neighborhood waterways?

These "monsters" are wastes such as:

- fertilizers & pesticides
- gasoline & oil
- heavy metals
- animal & yard wastes

How do they get into our water?

Rainwater (also called "stormwater") washes these wastes from lawns and pavements into ditches, low spots, and storm drains (sewers) and then into our streams, creeks, rivers, oceans, ponds and lakes. All those wastes make the water dirty! Sometimes they kill the plants and animals living there.



You can STOP these monsters BEFORE they start! Here's how:

- Take used gasoline, chemicals or motor oils to recycle centers. Never pour them onto the ground or into the water. Clean up spills from pavements and roadways.
- Use natural fertilizers, herbicides and pesticides and use only small amounts. Use them only when necessary and avoid using them near the water's edge.
- Keep grass clippings, leaves and branches away from ditches and storm drains.
- Keep all trash out of waterways and dispose of it properly. Items such as paper, plastic bags, 6-pack rings and fishing lines are very dangerous to all wildlife. Fish, birds and other animals may get tangled up or choke on them.
- Keep our waterways healthy— do your part to keep them clean!

Construction Site Stormwater Runoff Control
Actions - 2013

Information is made available on the Spokane County web-page and/or available at the Spokane County Public Works Department. Information includes, NPDES Construction Permit information, brochures, other general information, publications, as well as, information within the Spokane County - Stormwater Management Program.

In 2007, language was added to the Spokane County "Building Permit" to notify applicants that their projects may require a "NPDES Construction Permit" from Ecology. In 2008, the Spokane Regional Stormwater Manual was approved by the Spokane County Commissioners. In 2009, an ordinance that addresses illicit discharges was approved.

The primary design/engineering document addressing construction site stormwater runoff control is the Spokane Regional Stormwater Manual.

Spokane County conducts inspections on all new construction and redevelopment sites that exceed the one acre criteria, or are part of an overall development plan when combined exceeds the one acre criteria.

See attachments for various details.

Contents:

1. Spokane County provides various handouts to landowners developing their property and to building permit applicants to assist them through the planning application process. Handouts relevant to construction site stormwater runoff control include:
   a. Working Near Surface Waters and Wetlands in Spokane County, PW-2
   b. Critical Areas, BP-44
   c. Commercial Site Plans and Construction Drawings, BP-33
   d. Erosion and Sediment Control Techniques, BP-19A
   e. Erosion and Sediment Control Plan Requirements, BP-19b
   f. Slopes and Setbacks, B-45
   g. Contractor's Guide to Grassed Swale Construction
   h. Residential Building Permits, BP-6
   i. Floodplain Development Permit, E-10
   j. Grading and Parking Lot Permits, BP-46
   k. Typical Grading Permits, BP-46a
   l. Spokane County Contractor's Swale Field Guide
   m. Attention Contractor's and Developers (handout)

2. Construction Stormwater Permit, Application by Spokane County 2008; Liberty Lake Golf Course, WAR011095.

   Construction Stormwater Permit, Application by Spokane County 2008; RPWRF Construction Program, WAR008973A.

   Construction Stormwater Permit, Application by Spokane County 2008; Appleway (Old I-90) Bridge Replacement, WAR011946A.

   Spokane County Raceway, Application by Spokane County 2010; WAR124681

   Construction Stormwater Permit, Application by Spokane County on 2/9/12 for a bridge replacement.

3. Language added to Spokane County Building Permits notifying applicants of potential need for NPDES Construction Permit.

4. Spokane County conducted design professional and government official training on the Spokane Regional Stormwater Manual on February 20, 2008. A copy of the agenda and a detailed summary is attached.

5. Spokane County conducted in-house design professional training on April 28, 2009. See attached PowerPoint presentation for details.

6. Spokane County reviews Stormwater Pollution Prevention Plans for all projects greater than one acre, or are part of an overall development plan when combined exceeds the one acre criteria. See attached *Projects, Submittal Log – Work in Progress Report.*

7. Spokane County conducts construction site inspections for projects greater than one acre, or are part of an overall development plan when combined exceeds the one acre criteria. See "Submittal Log – Work in Progress Report".

8. Spokane County SmartGov, Building Permit Statistical Details Report 2013.

SPOKANE COUNTY

Working Near Surface Waters and Wetlands in Spokane County

PW-2

Public Works Department

Fresh waters are one of the most regulated places in our environment. Several federal, state, and local agencies administer regulations and permits to ensure a project will not negatively impact **lakes, streams, ponds, wetlands, water quality, shoreline vegetation, and floodplains.**

A Joint Aquatic Resource Permit Application (JARPA) is the generic application form which may be used to apply for most of the permits needed for work in or near surface waters and wetlands in Spokane County.

Hydraulic Project Approval (HPA) from the WA Department of Fish and Wildlife under 77.55 RCW is required if your project includes construction or other work that will use, divert, obstruct, or change the natural flow or bed of any fresh water of the state. This includes all construction or other work waterward and over the ordinary high water line, including dry channels, and may include projects landward of the ordinary high water line (e.g., activities outside the ordinary high water line that will directly or indirectly impact fish life and habitat, falling trees into streams and lakes, discharge, grading, etc.).

Shoreline Substantial Development, Conditional Use, Variance Permit, or Exemption from the Spokane County Department of Building and Planning (under the Shoreline Management Act, 90.58 RCW) is required for work or activity within 200 feet of the ordinary high water mark of Shorelines of the State. This includes any one of the following; making any physical changes in the water or a 200 ft. shoreline area, including but not limited to: moving native vegetation, grading, filling, dredging, drilling, installation or repair of any existing or man-made structures

Floodplain Development Permit from the Spokane County Engineer's Office is required for development on property all or a portion of which is in a regulated floodplain. Development includes, but is not limited to commercial buildings, homes, manufactured and mobile homes, other structures, bridges, culverts, dredging, filling, grading, paving, excavation, seawalls, bulkheads, etc.

Section 401 Water Quality Certification from the WA Department of Ecology, Headquarters Central Programs Environmental Review Section, (under 33 USC and 1341) is required of any applicant for a federal license or permit to conduct any activity that may result in any discharge into surface waters. This includes discharge of dredge and fill material into water or wetlands. Many excavation activities that occur in streams, wetlands, or other waters of the state also require a 401 certification.

Section 404 Permit from the Corps of Engineer (under 33 USC and 1344) may be required prior to discharging dredged or fill material in waters of the United States, including wetlands.

An Erosion and Sediment Control (ESC) Plan is to be submitted with applications for all major land disturbing activities. These applications may include subdivisions, building and grading permits. Minor land disturbing activities are required to meet the prescriptive requirements for ESC. See Spokane County Building and Planning bulletin, BP-19.

Critical Areas Ordinance review is conducted by all divisions within Spokane County Public Works in conjunction with their individual permit applications. This review is to identify those proposals that may have an impact on wetlands, streams and rivers, wildlife habitats, riparian areas, geologically unstable areas, Aquifer recharge areas, etc. The Spokane County Department of Building and Planning, Washington state and federal agencies, may require additional review and approval. See Spokane County Department of Building and Planning bulletin, BP-44.

Aquatic Resources Use Authorization Notification from the Washington Department of Natural Resources is required if your project is on, crosses, or impacts the bedlands or shorelands of navigable water.

Environmental Review

See Spokane County Building and Code Enforcement bulletin, BP-49

Obtaining Permits

In many instances a phone call will clarify the need, if any, for a permit or other review and approval.

The County, state, and Federal offices are located at the addresses below.

WA STATE DEPARTMENT OF ECOLOGY
4601 N. Monroe, Spokane, WA 99205
(509) 329-3400
www.wa.gov/ecology/permit.html

WA STATE DEPT. OF FISH AND WILDLIFE
EASTERN REGIONAL OFFICE
8702 N. Division, Spokane, WA 99218
(509) 456-4082
www.wa.gov/wdfw/

SPOKANE COUNTY
PUBLIC WORKS DEPARTMENT
1026 W. Broadway, Spokane, WA 99260
www.spokanecounty.org
BUILDING & PLANNING: (509) 477-3675
ENGINEERING AND ROADS: (509) 477-3600

US ARMY CORPS OF ENGINEERS
EASTERN WASHINGTON REGIONAL OFFICE
P.O. Box 273, Chattaroy, WA 99003
(509) 238.4570

WA STATE DEPT. NATURAL RESOURCES
AQUATIC LANDS
P.O. Box 190, Colville, WA 99114
(509) 684-7474

Washington State Dept. of Ecology

Washington State Dept. of Fish and Wildlife

Spokane County Public Works Department

United States Army Corps of Engineers

Washington State Dept. of Ecology

SPOKANE COUNTY

Critical Areas

BP-44

Department of Building and Planning

PROTECTION OF CRITICAL AREAS was mandated by Washington State's Growth Management law. Spokane County adopted critical area policies in the Comprehensive Plan, and in August 1996, adopted the Critical Areas Ordinance (CAO). This ordinance limits land uses or development and establishes review procedures for four critical areas: *Wetlands, Fish and Wildlife Habitat, Geological Hazards*, and *Critical Aquifer RechargeAreas.*

WETLANDS – involve a combination of water, soil type, and wetland vegetation. Wetlands have a variety of appearances ranging from open water to a field with wetland vegetation. There are four different types of wetlands that can only be determined by the vegetation, soil and hydrology. A wetlands specialist can conduct a site analysis to determine the wetland category. Wetlands also have an associated buffer depending on the wetland category as follows:

- Category 1 wetland - 200-foot buffer
- Category 2 wetland - 150-foot buffer
- Category 3 wetland - 75-foot buffer
- Category 4 wetland - 25-foot buffer

Wetland buffers are not to be disturbed and must remain in native vegetation. If wetlands are disturbed or damaged, a wetland mitigation plan developed by a qualified wetland specialist is necessary and requires restoration and/or creation of new wetlands at greater than a 1:1 ratio, along with a 5-year financial performance bond to guarantee that the new wetland improvements become established.

FISH AND WILDLIFE HABITAT – involves priority wildlife species and habitats and includes Riparian Habitats along flowing rivers and streams. Development in these areas may require a Habitat Management Plan prepared by a qualified biologist that identifies how development impacts to wildlife or habitat are going to be mitigated. This Plan is reviewed by the Washington State Department of Fish and Wildlife who advises Spokane County as to its adequacy. Riparian Habitat adjacent to the flowing water of rivers, streams and creeks has the following associated buffers:

- Type 1 stream- 250-foot buffer
- Type 2 stream- 100-foot buffer
- Type 3 stream- 100-foot buffer
- Type 4 stream- 75-foot buffer
- Type 5 stream- 25-foot buffer

These habitat buffers are to remain in native vegetative, and are allowed very limited uses.

GEOLOGICAL HAZARDS – typically involve property with 30% or greater slopes or property with soil characteristics that have severe potential for erosion or landslides. Development and land uses can be limited in these areas and may require a Geo-Hazard Mitigation Plan prepared by a qualified landslide or erosion specialist (typically a civil engineer).

CRITICAL AQUIFER RECHARGE AREAS – are designated and protected to maintain recharge and quality of potable ground water. Aquifers including the Spokane Rathdrum Aquifer, Little Spokane River Aquifer and many others are the primary source of domestic water throughout Spokane County. Critical aquifer recharge areas are designated according to their susceptibility to contamination as high, medium and low susceptibility. Uses and activities that have a potential to pollute or interfere with recharge of aquifers are regulated or in some cases prohibited in critical aquifer recharge areas. Uses and activities that are regulated to protect critical aquifer recharge areas include but are not limited to dairy farming, chemical handling and storage, wastewater disposal, landfills and mining.

"HOW WAS I SUPPOSED TO KNOW?"– is a common reaction to notification of critical area problems or violations. Because of the technical nature of identifying these critical areas many property owners may not realize they have one or more type of critical areas on or adjacent to their property. Additionally, many may not be aware of these regulations, which need to be considered before making changes to their property.

Spokane County can assist in identifying and understanding these regulations. During permit review, projects are evaluated for compliance with the standards for critical areas. Anyone who is thinking about developing or changing the physical aspects of their property should CALL FIRST, before it becomes necessary to correct a problem. Contact Spokane County Department of Building and Planning at (509) 477-3675 for assistance before starting design work, developing, grading, or changing your property within the unincorporated portion of Spokane County. This includes any development in the water, next to water/marshes/wet areas, in areas covered by native vegetation, steep slopes, and areas that show land movement (landslides) or erosion.

The Spokane County Critical Areas Ordinance can be purchased at the Spokane County Department of Building and Planning in the Public Works Building at 1026 West Broadway Avenue, next to the Spokane County Courthouse.

For more information or an appointment contact:
Spokane County
Department of Building and Planning
1026 W. Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675 bp@spokanecounty.org
www.spokanecounty.org/bp

Please note that while every effort is made to assure the accuracy of the information contained in this brochure it is not warranted for accuracy. This document is not intended to address all aspects or regulatory requirements for a project and should serve as a starting point for your investigation. For detailed information on a particular project, permit, or code requirement refer directly to applicable file and/or code/regulatory documents or contact the appropriate division or staff.

BP-44 REVISED 6/04

SPOKANE COUNTY

Commercial Site Plans and Construction Drawings

B-33

Department of Building and Planning

The following items are necessary *in order to provide for a timely review* of your project. Submit the required application and project plans, with the information indicated, to the Division of Building and Code Enforcement for identification of and distribution to applicable reviewing agencies. Agencies may not respond to incomplete submittals. Based on initial review, additional information may be required. Please note that depending on the nature of the project, some items may not be applicable. For information regarding the components of a complete application, see Bulletin B-51, "*Application Submittal Requirements for Building Permits*".

APPLICATION AND PLANS

Items necessary unless otherwise noted. Refer to following pages for plan details. All drawings should be drawn to scale, with the scale indicated on the drawings.

- Completed application form, including an overall project description (in either the plans or the application).
- Site Development Plans - Seven (7) sets of site development plans, including architectural/civil, landscape, stormwater/drainage and sanitary sewer plans as applicable to your project. These may be incorporated into an overall site development plan if practical. (See Section I)

  Note: Site plans are usually not necessary for projects such as minor interior remodels where exterior site work is not involved. They are necessary for interior remodels exceeding 50% of a building's valuation, changes in use of a building or tenant changes where parking may be impacted, and are required for all new buildings and additions where increased lot coverage is contemplated.
- Construction Drawings - Two (2) complete sets of construction drawings (architectural/structural, mechanical, energy, electrical & plumbing). (See Section II)
- Fire Sprinkler and alarm systems - Three (3) sets of fire sprinkler and alarm system drawings. (See Section III)

OTHER DOCUMENTS

Some of these items may be incorporated into the plans, or provided as a separate document as applicable.

- Environmental checklist and appropriate fees where required
- One (1) set project specifications
- One (1) set structural calculations
- One (1) set occupant load calculations by room
- Special Inspection Agencies Agreements where required
- Hazardous/critical material lists where applicable
- One (1) set NREC performance data/plans
- NREC plan review/inspection contracts
- One (1) set mechanical equipment schedule data
- Certificate of water availability is required for new buildings
- One set of soil and geological technical reports is required where there is any question as to the bearing capacity or adequacy of the soils, for expansive soils, fill areas or where critical areas are involved. Soils/geological technical reports may also be required for certain stormwater drainage systems.

NOTES

- If your project has been reviewed through a preapplication conference, please review agency comments and incorporate applicable requirements into your drawings. If your project has not been reviewed through a preapplication conference, see Bulletin B-26, "*Commercial Conference Information and Guidelines*" and B-1, "*Commercial Permits*".
- For projects subject to a land use action such as a Zone Change, Variance, Conditional Use Permit, etc., please review any conditions of approval to assure they have been incorporated into the proposal's design.
- Separate County permits are required for sewage disposal systems, road approaches, all plumbing and mechanical work, fire sprinkler/alarm systems, storage rack systems and signage. Additional plans and review may be required in conjunction with these permits.
- Other local and state agencies may also require permits or approvals. Items listed above may not address their requirements.
- Projects in identified High Risk Drainage Areas and in or near identified Flood Zones or Critical Areas may have special requirements that should be considered prior to and during project design.

Include these items in all submittals unless not applicable to your project.

SECTION I. *SITE DEVELOPMENT PLANS*

ARCHITECTURAL/CIVIL SITE PLANS

- ☐ Vicinity map
- ☐ North arrow
- ☐ Adjoining street location & names and points of project vehicular ingress/egress
- ☐ Property boundaries & dimensions
- ☐ Location of existing & proposed buildings, parking, drainage, landscape areas or other planned site improvements (*see below*).
- ☐ Buildings scheduled for demolition
- ☐ Setbacks from buildings to property lines & center line of rights of way
- ☐ Public & private easements
- ☐ Accessible/barrier free route of travel to the public way
- ☐ Existing and proposed contour lines
- ☐ Clearing limits and scope of grading
- ☐ Quantities of gross cut and fill
- ☐ Temporary erosion control measures
- ☐ Topographic & drainage flow data
- ☐ Location of water bodies/wetlands
- ☐ Critical areas buffers & protection
- ☐ Location of any floodplains
- ☐ Location of any natural drainage ways
- ☐ On-site utility/sanitary sewer location *(see next page)*
- ☐ Sidewalks, curbing, stairs, ramps, walls, etc.
- ☐ Loading areas
- ☐ Refuse container enclosure
- ☐ Outdoor storage locations
- ☐ Fencing
- ☐ Outdoor lighting
- ☐ Hydrant locations – existing & proposed
- ☐ Fire department connection location for buildings with fire sprinkler systems

OFF-SITE IMPROVEMENTS INFORMATION

- ☐ Existing improvements & utilities
- ☐ Extension of water, power & gas
- ☐ Extension of sanitary & storm sewer

PARKING AND ACCESS

- ☐ Parking entry location from the street
- ☐ Entry/access construction details
- ☐ Delineate & dimension stalls
- ☐ Location of accessible parking
- ☐ Parking calculation information including the square footage for each use.

SPECIAL VEHICLE ACCESS

- ☐ Fire and emergency vehicle access

LANDSCAPE PLANS

- ☐ Site landscaping
- ☐ Landscaped perimeter, parking lot & screening

Plant Material Information:

- ☐ List plant common & botanical names
- ☐ Quantities and sizes of plantings
- ☐ Planting spacing/density

Sprinkler Irrigation Information:

- ☐ Water connection, location & size
- ☐ Back-flow prevention equipment data

Additional information:

- ☐ Nursery estimate
- ☐ Letter from owner regarding intent to install

STORMWATER/DRAINAGE PLANS

Conventional systems:

- ☐ Swale layouts and drywell locations
- ☐ Drainage structure types and specs
- ☐ Pipe sizes and materials
- ☐ Drainage basin or subbasin boundaries
- ☐ Pavement, gutter, pipe, and ditch grades
- ☐ Pavement spot elevations and high and low points
- ☐ Drainage structure and pipe invert/lid elevations
- ☐ Stormwater treatment (208) swales
- ☐ Storm water calculations for both on site and off site facilities.
- ☐ Swale disposal calculations (Bowstring)
- ☐ Ditch and pipe capacity calculations

Non-conventional systems require a concept plan and/or design deviation approval

Include these items in all submittals unless not applicable to your project.

ELECTRICAL

Electrical Lighting Allowance Data:
- ☐ Lighting fixture types & installed watts
- ☐ Exterior lighting
- ☐ Lighting controls compliance information

Emergency Lighting & Exit Signage

PLUMBING

Water System Data:
- ☐ Fixture layouts & water use calculations
- ☐ Hot & cold water supply piping layout

Water Utility Sizing Information:
- ☐ Fixtures counts and supply calculations

Special Piping Data:
- ☐ Medical gas location & piping sizes

Waste Collection Data:
- ☐ Waste and vent riser diagram
- ☐ Size of sewer service

SECTION III. *FIRE SPRINKLER & ALARM SYSTEMS*

Alarm Data:
- ☐ Smoke/heat detector locations
- ☐ Smoke detection points in HVAC ducts
- ☐ Battery calculations
- ☐ Specification sheets

Fire Sprinkler:
- ☐ Three (3) sets of fire sprinkler drawings and hydraulic calculations stamped by a licensed designer
- ☐ Fire vault design and water plan
- ☐ Specification sheets

COMMENTS AND SPECIAL CONDITIONS

Other Brochures that may be helpful

B-1 *Commercial Permits*
B-8 *Sign Permits*
B-19 *Erosion and Sediment Control*
B-26 *Commercial Conference Information and Guidelines*
B-27 *Critical & Hazardous Materials*
B-29 *Public Assemblies*
B-41 *Espresso Stands*
B-45 *Slopes and Setbacks*
B-46 *Grading and Parking Lot Permits*
B-46a *Typical Grading Permits*
B-47 *Speculative Buildings*
B-48 *Non-Residential Energy Code*
SW-1 *Basements Within Hight Risk Drainage Areas*
SW-2 *Grassy Drainage Swales in Residentail Developments*

For more information or an appointment contact:
Spokane County Division of Building and Code Enforcement
Mail Stop PWK1-BACE
Spokane, WA 99260-0050
(509) 477-3675 BACE@spokanecounty.org
http://www.spokanecounty.org/building
Or visit us at: 1026 West Broadway Avenue

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Include these items in all submittals unless not applicable to your project.

SANITARY SEWER DESIGN

Sanitary Sewer Information:

- ☐ Inverts, flows, sizes & materials
- ☐ Details of connections to sewer system provided directly to the Division of Utilities, or
- ☐ Details of septic system provided directly to the Spokane County Regional Health District

Waste Water Source Control Data:

- ☐ Pre-treatment of process waste (oil/sand interceptors)
- ☐ *Pre-treatment of kitchen waste (grease interceptor)*

SECTION II. *CONSTRUCTION DRAWINGS*

ARCHITECTURAL/STRUCTURAL

ARCHITECTURAL PLANS

- ☐ Signed professional "wet" stamp on coversheet when required (RCW 18.08 & 18.43)
- ☐ Building code occupancy classification information and construction type
- ☐ Land use zoning classification & information
- ☐ Soils classification and design bearing capacity should be indicated on all projects and is required for those structures not using Uniform Building Code Table 18-I-C for stud bearing walls.
- ☐ Building key plan
- ☐ Floor plans & schedules
- ☐ Seating & furniture layouts
- ☐ Roof plans & details
- ☐ Building elevations and heights
- ☐ Established and final grades
- ☐ Building sections
- ☐ Wall sections & details
- ☐ Openings & finish schedules
- ☐ Fire resistive assembly construction
- ☐ Materials specifications including flame spread classifications
- ☐ Height and details of storage rack systems

ACCESSIBILITY INFORMATION

- ☐ Ramps, doors, passages & clearances
- ☐ Accessible route of travel to all portions of the building, to accessible building entrances, and connecting the building and the public way.

Dimensions to Show Compliance:

- ☐ Accessible toilets, lav's, baths, etc.
- ☐ Accessible public amenities plus signage

STRUCTURAL INFORMATION

- ☐ Snow load & drifting conditions
- ☐ Wind load
- ☐ Seismic importance factors
- ☐ Foundation plan & details
- ☐ Wall framing & bracing details
- ☐ Roof framing & diaphragm data
- ☐ Structural building sections
- ☐ Structural specifications
- ☐ Connection/nailing details, schedules & notes
- ☐ Special inspection requirements/information

MECHANICAL

Mechanical System Information:

- ☐ Equipment capacity & performance data
- ☐ List fuel types & BTU/H output
- ☐ Any HVAC energy saving components
- ☐ Duct layouts for supply with CFM levels
- ☐ Piping layout
- ☐ Return air vents and transfer methods
- ☐ Supply of required ventilation levels
- ☐ Piping & duct insulation requirements

Special Venting & Damper Data:

- ☐ Fire & smoke damper locations
- ☐ Commercial laundry appliance venting
- ☐ Commercial kitchen hoods, ducting & shafts

ENERGY

Building Envelope & Opening Data:

- ☐ All building insulation to be installed & R values
- ☐ List "U" factors for glazing & doors

Other Brochures that may be helpful

B-1 *Commercial Permits*
B-8 *Sign Permits*
B-19 *Erosion and Sediment Control*
B-26 *Commercial Conference Information and Guidelines*
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SPOKANE COUNTY

Erosion and Sediment Control Techniques

BP-19A

Department of Building and Planning

Provisions for erosion and sediment control are often necessary on construction projects to prevent runoff of soils onto other properties or the county right-of-way. Following are suggestions on ways minor land disturbing activities can meet Erosion and Sediment Control Ordinance performance standards:

- Access for construction vehicles should be limited to one route whenever possible. The access route must be stabilized to minimize the tracking of sediment onto public roads.
  - Gravel access and parking areas
  - Restrict access to approved road approaches
  - Install culverts as required by the Division of Engineering & Roads

- All exposed soils should be stabilized to prevent soils from eroding and depositing sediment on the public way or downstream.
  - Only remove vegetation as needed
  - Place plastic sheets on stockpiled soils
  - Re-seed or vegetate as soon as possible

- Adjacent properties, water bodies and public/private roads need to be protected from erosion and sediment deposits. The intent is to keep sediment on the project site and not allow it to reach adjacent properties, water bodies, or public/private roads.
  - Place straw bales, mulch and/or netting to minimize water flow from denuded areas
  - Care should be taken to maintain existing drainage courses

- Downstream inlets to drywells, catch basins, drainage swales and other stormwater management facilities need to be protected.
  - Create temporary dikes to mitigate runoff into inlets during construction and until the site is stabilized
  - Straw bales may be used to aid in damming

- Designate the location of a slurry pit where concrete trucks and equipment can be washed out. Slurry pits shall not be located in a swale, drainage area, stormwater facility or water body, nor in an area where a stormwater facility is proposed.

- Identify a location for storage/stockpile areas for any soil, earthen and landscape material which will minimize potential erosion problems.

- Delineation of all clearing limits, sensitive/critical areas, buffers, trees to be preserved and drainage courses as well as design, construction and installation of sediment ponds and traps, perimeter dikes, hay bales, gravel, sediment barriers and other on-site sediment trapping devices should be completed as necessary prior to the start of land disturbing activities.

- Design and construct cut and fill slopes in a manner that will minimize erosion.

- Design, construct, and stabilize all temporary on-site conveyance channels to prevent erosion from the velocity of runoff from storms under developed conditions. Design, construct, and stabilize all temporary conveyance system outlets to prevent erosion of stormwater facilities, adjacent stream banks, slopes and down stream reaches.

A final note. . .

Remember, Spokane County does not enforce the provisions of this Ordinance for violations that effect private properties. Therefore, no performance standards have been established with respect to the deposit of soil, dirt, mud or debris from a project site onto adjacent private property. Private property owners, however, may have the ability to seek judicial relief for such actions.

Consideration and mitigation of the effects and impacts of increased and concentrated runoff from land disturbing activities on downstream properties as well as water bodies, and public and private roads, as discussed above needs to be considered.

Regular inspection and maintenance of all erosion and sediment control devices is necessary to ensure successful performance.

All temporary sediment control facilities should be removed within 30 days after final site stabilization or after the temporary control facilities are no longer needed. Trapped sediment needs to be removed from the project site or stabilized on-site. Also, disturbed soil areas resulting from removal of the temporary control facilities needs to be stabilized.

For more information or an appointment contact:
Spokane County Public Works
Department of Building and Planning
1026 W. Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675
e-mail: BP@spokanecounty.org
www.spokanecounty.org/bp

SEDIMENT CONTROL TECHNIQUES (VEGETATIVE STABILIZATION)

BMP*	PURPOSE	RESTRICTIONS	P/ T
Mulching	• Comprised of straw or mixture of straw/ wood • Prevents raindrop erosion • Stabilizes bare and disturbed soils • Protects seeds from predators	• Slopes >3:1 needs anchoring: punch-in, tackify, or incorporate • Deterioration	Temporary
Hydro-seeding	• Establish vegetation on steep/ critical slopes with low runoff • Easy application of seed, mulch, fertilizer and tackifier • Uniform coverage • Quick germination • Good for all areas with good soil	• Needs to be kept moist for proper germination • Steep slopes may be problematic – should sod instead	Either
Blankets and Mats	• Protects critical areas with high erosion potential • Steep slopes with high runoff • Used where planting would be slow	• Need to seed before blanket installation	Temporary
Vegetated Buffer Strip	• Dense areas of vegetation • Ideal for stream banks, steep/ unstable slopes, next to wetlands and flood plains • Use at perimeter of site disturbance	• Avoid areas of concentrated flow	Permanent

SEDIMENT CONTROL TECHNIQUES (STORMWATER MANAGEMENT) continued			
BMP*	**PURPOSE**	**RESTRICTIONS**	**P/ T**
Inlet Protection	• Prevents sediments from entering a storm drain • Dissipates the energy of the concentrated stormwater flow • 5 basic types: silt fence barriers, straw bale inlet barriers, block and gravel drop inlet filters, block and gravel curb inlet filters, various excavated drop inlet protection measures	• Drainage area of <1 acre • Avoid slopes >5%	Temporary
Outlet Protection	• Prevents erosion and scour at inlet pipes • Dissipates the energy of the concentrated stormwater flow • Generally consist of apron linings made of concrete, riprap, grouted riprap, or other structural materials	• None	Permanent
Subsurface Drain	• Perforated conduits installed below the surface to intercept and transport water • Used to remove excess water from soils	• Avoid installation under heavy vehicle crossings	Either
Pipe Slope Drain	• Discharges runoff to stabilized areas • Carries surface runoff from the tip to the bottom of a slope that has already been damaged by, or is at high risk of erosion • Used to drain saturated slopes with the potential for soil slides	• God for slopes >3% • Drainage area <5 acres	Either
Reinforced Soil Retaining Systems	• Holds soil firmly in place or to confine as much soil as possible within the site boundary • Most are structural, can be vegetative, may be used to protect the safety of workers • Typically used to assist in the stabilization of a cut or fill slope	• None	Permanent
Temporary Stream Crossing	• Structures such as a bridge, pipe, or series of pipes constructed over a stream for use by construction equipment • Protects streams from damage and erosion caused by streambed disturbance	• Avoid use of this practice if other alternatives exist	Temporary
Temporary Rock Construction Entrance	• Stone pad located at the points where vehicles leave a construction site • Designed to allow tires to sink in slightly, which enhances the structures ability to remove mud	• Uneconomical for small sites • Impractical for linear projects	Temporary
Porous Pavement	• Specially mixed asphalt that allows water to infiltrate the underlying ground • A layer of sand below the asphalt filters the pollutants	• Avoid sites with steep slopes	Permanent (same as conventional pavement)

SEDIMENT CONTROL TECHNIQUES (STORMWATER MANAGEMENT) continued			
BMP*	**PURPOSE**	**RESTRICTIONS**	**P/ T**
Silt Fence	• Filter fabric entrenched into soil • Designed to intercept and detain sediment • Good around temporary soil stockpiles	• Maximum slope is 2:1 • Drainage area <.25 acre per 100' of fence • Slope length above fence <100'	Temporary
Straw Bale Dike	• Filter out course sediments • Detain storm water flow	• Maximum slope is 10%- placement area not a slope • Not for concentrated flows or live streams • Place 6' from toe of slope to allow for sediment storage	Temporary
Sediment Trap	• Detain runoff from small drainage areas (<5acres), long enough to allow setting • Increased detention time = higher sediment trapping efficiencies	• Avoid areas with fine soil	Temporary
Sediment Basin	• Detain runoff from disturbed areas (5-100 acres), long enough to allow settling • Intended for use only during construction	• Avoid installation in streams	Temporary
Earth Dikes and Diversions	• Ridge of soil channeling water to a desired location • Can be constructed using materials and equipment present on site • Should be stabilized with vegetation	• Minimum grade of 1%	Either
Storm Water Conveyance Channel	• Permanent water way such as a road ditch • Outlet can be to a sediment trap • Typically paved or lined with stone or appropriate vegetation	• Avoid areas with little grade	Permanent
Straw Bale Dikes	• Straw bales entrenched and anchored to detain stormwater • Course sediments are filtered out • Normally used in perimeter control	• Drainage area <.25 acre per 100' of barrier • Slope length is <150' • Avoid areas of concentrated flow	Temporary
Check Dams	• Barrier or dam construction across a drainage channel or swale to reduce the velocity of the flow • Erosion potential is reduced, detention times are lengthened • Constructed of stone, gabions, treated lumber or logs	• Drainage area should not exceed 10 acres • Avoid use in streams	Temporary

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SPOKANE COUNTY

Erosion and Sediment Control Plan Requirements

BP-19b

Department of Building and Planning

ESC Plan Requirements for Major Land-Disturbing Activities

All ESC plans for major land-disturbing activities shall be prepared and have a seal affixed by either a licensed professional engineer (PE) or a licensed landscape architect (LA). Both the professional engineer and landscape architect must be licensed in the State of Washington and be knowledgeable in both hydrology and ESC practices.

The following fifteen (15) items shall be addressed in ESC plans for major land-disturbing activities. As site conditions dictate, additional measures relating to ESC, as determined by the licensed professional engineer (PE) or licensed landscape architect (LA) preparing the plan, shall be addressed in order to meet the intent and purpose of the County Code and to comply with the performance standards contained in Spokane County Code section 9.14.185 (5) (b). Special site conditions may include, but are not limited to, steep slopes, slope length, soil type,

- **Construction Access Route**
  Access for construction vehicles should be limited to one route whenever possible. The access route must be stabilized to minimize the tracking of sediment onto public roads.

- **Stabilization of Denuded Areas**
  Stabilization of all exposed soils to prevent soils from eroding and depositing sediment downstream.

- **Protection of Adjacent Properties/Water Bodies/Public and Private Roads**
  Protection of adjacent properties, water bodies, public and private roads from erosion and sediment deposition. The intent is to keep sediment on the project site and not allow it to reach adjacent properties, water bodies, and public and private roads.

- **Protection of Inlets**
  Protection of downstream inlets to drywells, catch basins and other stormwater management facilities.

- **Increased Runoff from Construction Sites**
  Consideration and mitigation of the effects and impacts of increased and concentrated runoff from land disturbing activities of downstream properties, water bodies, and public and private roads.

- **Washout Site for Concrete Trucks and Equipment**
  Designate the location of a slurry pit where concrete trucks and equipment can be washed out. Slurry pits shall not be located in swale, drainage area, stormwater facility, or water body nor in an area where a stormwater facility is proposed.

- **Material Storage/Stockpile**
  Identify location for storage/stockpile areas, within the proposed ESC plan boundaries, for any soil, earthen and landscape material, which is used or will be used on-site.

- **Maintenance and Permanent BMPs**
  Maintenance of all erosion and sediment control BMPs is required during the land-disturbing activity. Regular inspection and maintenance of all erosion and sediment control BMPs is required to ensure successful performance of the BMPs. Permanent BMPs shall be included in the plan to ensure that

successful transition from temporary BMPs occurs.

- **Clearing Limits Delineation**
  Field identification and delineation of all clearing limits, sensitive/critical areas, buffers, trees to be preserved, and drainage courses.

- **Sediment Trapping Measures**
  Design and construction of sediment ponds and traps, perimeter dikes, sediment barriers, and other onsite sediment trapping BMPs as necessary prior to the start of other land disturbing activities.

- **Cut and Fill Slopes**
  Design and construction of cut and fill slopes in a manner that will minimize erosion.

- **Stabilization of Temporary Conveyance Channels and Outlets**
  Design, construction, and stabilization of all temporary on-site conveyance channels to prevent erosion from the velocity of runoff from storms under developed conditions. Design, construction, and stabilization of all temporary conveyance system outlets to prevent erosion of stormwater facilities, adjacent stream banks, slopes and downstream reaches.

- **Removal of Temporary BMPs**
  Removal of temporary sediment control BMP within 30 days after final site stabilization or after the temporary BMPs are no longer needed. Trapped sediment shall be removed from the project site or stabilized on-site. Stabilization of disturbed soil areas resulting from removal of the temporary BMPs.

- **Dewatering Construction Site**
  Discharge of dewatering devices to appropriately designed sediment traps or sediment ponds.

- **Control of Pollutants Other than Sediment on Construction Sites**
  Control of all on-site pollutants other than sediment in a manner that does not cause contamination of stormwater.

For more information or an appointment contact:
Spokane County Public Works
Department of Building and Planning
1026 West Broadway Avenue
Spokane, WA 99260
(509) 477-3675 bp@spokanecounty.org
www.spokanecounty.org/bp

SPOKANE COUNTY

Slopes and Setbacks

B-45

Department of Building and Planning

The Spokane County Critical Areas Ordinance and the International Building Code regulate construction or other activities on or adjacent to slopes. Areas containing soils prone to erosion or other geological hazards can be identified on maps available at the Department of Building and Planning.

This handout generally details the proper placement of building foundations in relation to adjacent slopes. If you are considering building on or near a slope of (1 vertical):(3 horizontal)-(33%)-or greater, the following information may be helpful. All material presented is in compliance with the International Building Code or International Residential Code as appropriate.

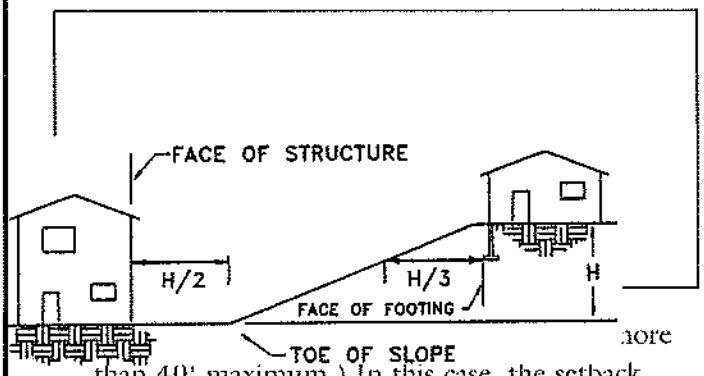
For the purpose of this brochure, a building's clearance (horizontal distance from an ascending or descending slope) is known as its' "setback." Certain setbacks are required in most situations where a structure is built near a slope. This requirement is a safety measure to protect the public—and more specifically, the property owner—from the dangers of landslide, slope erosion, and foundation displacement. (The building official may approve alternate setbacks; however, an investigation of materials, slope, load intensity and erosion potential along with recommendations prepared by a qualified engineer may be required.)

Note: The "setbacks" identified in this brochure do not supercede the minimum setbacks required by the Building Code, Zoning Code or Critical Areas Ordinance.

1) For a structure at the **base** of a slope, the setback must be a distance no less than ½ the height of the slope. (However, this distance need not exceed 15'.) The setback should be measured from the face of the building to the toe of the slope. See *Figure 1.*

2) For a structure at the **top** of a slope, the setback must be a distance of at least 1/3 the value of the

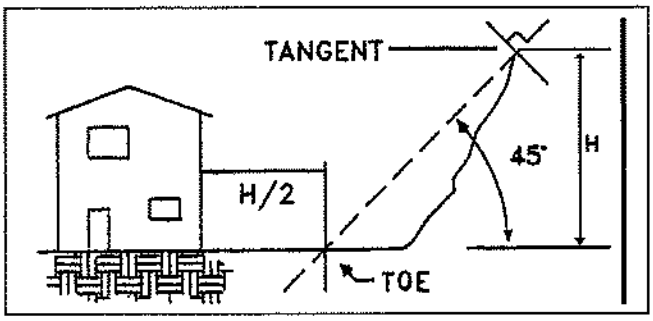
Figure 1.



more than 40' maximum.) In this case, the setback should be measured from the face of the footing to the face of the slope. See *Figure 1.*

NOTE: If the slope exceeds 1H:1V, either a special toe or an imaginary slope must be used, depending on the structure's location. The new positions are calculated and can be figured in the following manner:

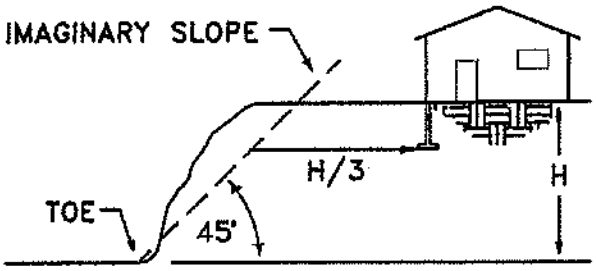
Figure 2.



TOE — Draw a plane tangent to the slope at an angel of 45° to the horizontal. The point at which the plane intersects the ground surface is considered the toe. See *Figure 2.*

TOP — Draw a plane from the toe of the slope at an angle of 45° to the horizontal. The required setback should be measured from this imaginary slope. See *Figure 3.*

Figure 3.



Other brochures that may be helpful

BP-19b *Erosion and Sediment Control Requirements*
BP-33 *Site Plans & Construction Drawings*
BP-51 *Application Submittal Requirements for Building Permits*
BP-52 *Permit Processing Time Savers*

For more information or an appointment contact:
Spokane County
Department of Building and Planning
1026 W. Broadway Avenue
Spokane, WA 99260-0050
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Erosion Protection

- Protect cleared land and graded slopes from the erosive forces of rainfall and runoff. Failure to protect infiltration swales from sediment-laden runoff can result in a fine layer of silt that clogs the floor of the swale preventing infiltration.

- Protect graded slopes, and soil materials excavated from adjoining construction sites by applying erosion control methods such as mulch matting, netting, straw bales, or sediment fencing.

- Protect inlets from runoff from adjacent construction sites, carrying silt and sediment, by placing sand bags along the front edge of the curb inlets. Sand bags should be removed once the threat of sedimentation no longer exists.

- Protect drywells in the swale, and catch basins with culverts leading to the swale, from receiving sedimentation by placing filter fabric under the drywell grate until the threat of sedimentation from construction site erosion is gone. Filter fabric needs to be removed when the threat of sedimentation no longer exists.

Planting in Swales

- Sod is not the only option for establishing grass in swales. Hydro seeding is also acceptable as long as side slopes are protected from erosion before the grass is established. Options to protect swale side slopes include the application of fiber blankets, netting, or soil stabilizing mulch materials.

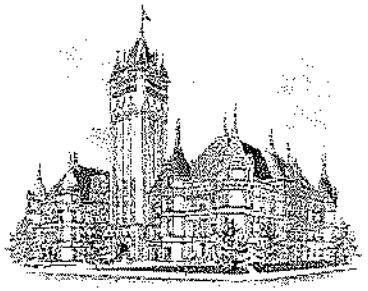
- Drought-tolerant seed species can be used in areas that do not require turf for aesthetics. Consider grass seed mixes that are able to establish in poor soils and have high drought tolerance.

- Careful consideration should be given to the placement of trees and shrubs on lots with swales. Trees and shrubs should not be planted in the floor area of the swale. Deciduous trees and shrubs planted near the swale may contribute excess debris that can eventually clog the floor area preventing infiltration.

For questions or comments, contact the Stormwater Utility at 477-7244

April 2005

Contractor's Guide to Grassed Swale Construction



SPOKANE COUNTY

Public Works

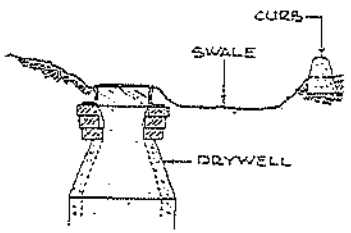
Stormwater Management

What are Grassed Infiltration Swales?

Grassed infiltration swales are depressions or collection areas in the ground that receive stormwater from streets, driveways, and rooftops following a rain or snow event. Swales are usually found in the front portion of newer lots next to the street and sidewalk. Stormwater enters swales through cuts in the curb or catch basins in the street with culverts leading into the swale. The soil and grass roots in the swale help to clean the stormwater by filtering out contaminants.

Sometimes swales contain a drywell. The drywell is there as a back-up measure to receive overflow from the swale in the event of excessive runoff. The completed floor area of a swale containing a drywell needs to be 6-8" below the top of the drywell cover.

The infiltration process requires the soil to have pore spaces for the water to pass through. Some soils have larger pore spaces than others. For example, gravel is very effective at allowing water to pass through. Clay and compacted soils have very small pore spaces that limit the amount of water that can pass through. It is extremely important for the soil composition of the swale to be loose and well draining.



County Requirements for Construction

- A lot plan is required prior to construction, showing swale placement, area, depth, side-slope ratio, and volume. Swales should be constructed according to accepted plans on file with Spokane County. If you need a copy of the site plan, please contact Stormwater Utility staff at 477-7244 to obtain a copy prior to construction.
- The floor area of a swale should be level to ensure stormwater is evenly distributed for proper treatment.
- The completed floor elevation (after sod is placed) needs to be at least 2" below the curb-cut inlet or culvert to ensure that stormwater has a clear path into the swale. If a drywell is present, the floor needs to be 6" to 8" below the top of the drywell grate.
- Special attention should be paid to the correct path of flow to the swale floor. The closer a drywell is located to the inlet, the more effort will be required to ensure water does not run directly from the inlet into the drywell.
- When a rock or keystone wall is to be installed on side slopes, grass or plant material must extend from the floor area up the side slopes at least 6" before the wall material begins.
- Swales must function to pass inspection. Following a storm event, swales should drain completely within 72 hours.

Techniques to Increase Swale Function

- **Protect the Swale Area**

  Do not drive in the swale during construction; compaction of soils will dramatically reduce infiltration.

  Do not use the swale as a clean-out area for concrete truck chutes, masonry and texture tools, or painting equipment; **or as a disposal area for construction materials.** These materials will create an impermeable layer that prevents infiltration.

- **Evaluate On-site Soils For Drainage**

  Avoid the practice of layering topsoil. Layered topsoil will often create a subsurface which prohibits good infiltration. On-site topsoil should be used in swales when ever possible.

  If off-site topsoil is to be used, it should be a course sandy loam, mixed with 2" of organic matter per 6" of topsoil, then rototilled into the existing surface to a depth of at least a 12-inches. This will greatly increase the infiltration capacity of the swale.

- **Use Proper Irrigation**

  Monitor irrigation after sod establishment and adjust settings to meet the needs of the soil and sod. Over watering often creates erosion, inhibits root growth, and prevents infiltration.

SPOKANE COUNTY

Residential Building Permits

BP-6

Department of Building and Planning

The purpose of this brochure is to provide an overview of what information is necessary to complete your permit application and to answer some common questions related to your residential building permit. Residential construction must conform to standards adopted by Spokane County and the State of Washington, such as the International Residential Code, Uniform Plumbing Code, the Washington State Energy Code, Spokane County Zoning Code and other land use regulations. Building sites must conform to applicable regulations governing the division of land. Other local ordinances could impact your project depending upon its specific nature and location. Remodels, additions or repairs to residential structures requires information similar to that for new construction.

When is a permit necessary?

In general you will need a building permit any time you construct a new structure or enlarge, remodel, relocate or demolish an existing structure. Residential accessory buildings such as tool and storage sheds which are a single story and less than 200 square feet in area are exempt from permit requirements. Permits are required to be obtained prior to construction.

What information will be necessary to complete an application for a permit?

In order to submit an application for your building permit the following information needs to be provided:

- Parcel number of the proposed site.
- Legal description of the proposed site.

Note: This information can be found on your property tax statement or may be obtained from the County Assessor's office.

- Street address. (If your property does not have an address, one will be assigned at the time of permit application.)
- Site plan, on 8-1/2x11inch paper. Please indicate:
  - Scale used and a marker showing the direction of north.
  - Location and dimension of all property lines.
  - Location, dimensions and type of easements (i.e., drainage, access, utilities).
  - Location, dimension and use of all existing buildings and structures on the site, showing distances from property line.
  - Existing buildings scheduled for demolition or removal must be indicated. For all proposed buildings show porches, walks, decks, overhangs, etc.
  - If the project is located within 250 feet of a body of water regulated by the Shoreline Management Act, the ordinary high water mark needs to be indicated. Other waterbodies such as creeks, ponds and wetlands also need to be indicated.
  - Location of proposed or existing sewage disposal system(s), well(s), sewer line(s), and water line(s).
  - Location of slopes over 20%.
- Construction drawings. For residential projects one set of foundation plans, floor plans, elevations, cross sections and structural details is usually sufficient. (See Sample Plan brochure.)

Some unconventional construction not specifically covered by the International Residential Code may require plans stamped by an architect or engineer licensed in the State of Washington. These include log homes, earth sheltered homes, large pole buildings etc.

How long will it take to receive the processed permit?

For a new house, when a septic system is not involved, your application and plans are complete, and the proposal clearly conforms to the codes and ordinances adopted by Spokane County, the permit may be issued within a week. For additions, alterations and outbuildings a permit may often be issued the same day after review by county staff. In the case of new construction involving installation of a septic system, or alterations to a septic system, a minimum time frame of 7 to 10 days is necessary to allow review of the sewage disposal system by the Spokane Regional Health District.

How much will my permit cost?

Fees for building permits are based on valuation using standard market rates for similar types of construction.

The actual fees are adopted by the county fee schedule and are based on the size and use of the structure. Please refer to the County's current fee schedule or consult with department staff.

Will I need other permits in conjunction with my application?

Approvals or permits from other county and state agencies may be required prior to the release of your building permit:

- Many residential projects require plumbing and mechanical permits in conjunction with the building permit. Both are issued by this department. All three may be issued as a single combination permit or obtained separately.
- If you are installing or altering a septic system, or if your project is such that your septic system may need to be enlarged or relocated, permits are required from the Spokane Regional Health District. (324-1560)
- If sewer is available to your site, a side sewer permit will need to be obtained from the Spokane County Division of Building and Planning. (477-3675)
- Curbcuts, driveway approaches and the construction of curbs and sidewalks needs to be reviewed by the Spokane County Division of Engineering & Roads. Permits may be required. (477-3600)
- Electrical permits for work in unincorporated areas of the county can be obtained from the Washington State Department of Labor and Industries, (324-2640). For connection to the power distribution lines, contact the serving utility.
- You will need to contact the appropriate utility for connections to a public water system.
- Work in or around critical areas like wetlands, steep slopes or rivers/streams will require review and approval by the Division of Building and Planning (477-3675) and may require review by the Washington State Department of Fish and Wildlife or other agencies.

What inspections will be required?

At a minimum, the following inspections are required by County Code:

- Footings
- Foundation
- Underground Plumbing
- Sub-Slab/Radon
- Rough-in/Top-off plumbing
- Gas Piping
- HVAC Equipment
- Framing
- Insulation
- Final

It is the responsibility of the permittee to request appropriate inspections and provide access to the work. The work needs to remain accessible and exposed for inspection purposes until approved. Failure to request appropriate inspections or covering work prior to approval may necessitate the removal of certain parts of the construction at the owner's expense. Final approval is required prior to use or occupancy of the permitted structure.

When you are ready for any of the listed inspections, please call 477-3675, and give your name, project address, permit number and type of inspection needed. We can usually schedule an inspection within 24 hours.

Under certain circumstances, parts of your project may require inspections from other agencies:

- Road cuts for utilities or drives, State or County Engineer's office, 477-3600.
- On-site waste disposal system, Spokane Regional

Health District, 324-1560.

- Construction in a flood plain, Spokane County Division of Engineering and Roads, 477-3600.
- Electrical wiring, Washington State Department of Labor and Industries, 324-2640.
- Sewer and hook-up, Spokane County Division of Utilities, 477-3604.

These agencies should be contacted directly for their particular inspection requirements.

Will the permit expire?

Your permit is considered null and void by limitation if the work authorized by the permit is not commenced or is stopped for a period of 180 days, unless a written request for an extension of the permit is received and approved by the building official prior to expiration. At a minimum, an inspection should be requested at least once ever 180 days to assure the validity of the permit.

Other Brochures that may be helpful

BP-7 Sewer Connection Permits
BP-17 Driveways
BP-18 Wildland Urban Interface
BP-19 Erosion and Sediment Control
BP-19a Erosion and Sediment Control Techniques
BP-31 Rules, Regulations, and Red Tape
BP-39 Addressing
BP-40 Information Directory
BP-51 Application Submittal Requirements
BP-52 Permit Processing Time Savers
PW-2 Working Near Surface Water and Wetlands in Spokane County

For more information or an appointment contact:
Spokane County
Department of Building and Planning
1026 West Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675 bp@spokanecounty.org
http://www.spokanecounty.org/bp

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SPOKANE COUNTY

Floodplain Development Permit

E-10

Public Works Department – Division of Engineering and Roads

FACTS:

What is a floodplain?

Land areas adjoining a river, stream, water-course, major drainageway, wetland, low lying area, or lake that is likely to flood.

What is floodplain management?

Methods used for preserving the natural function of floodplains and reducing flood damage through floodplain management regulations.

What is a 100-year flood?

This term is a statistical designation meaning that there is a 1-in-100 or 1% chance that a flood this size will happen during any given year.

Who determines where these floodplains are located?

The floodplains in Spokane County have been identified on maps, which were produced by the **Federal Emergency Management Agency (FEMA)** as part of the **National Flood Insurance Program (NFIP)**. The maps are available for review at the Spokane County Engineer's Office or online at www.fema.gov.

Why does Spokane County have floodplain regulations?

When Spokane County joined the NFIP, we were required to adopt and enforce floodplain management regulations for participation. By participating in the NFIP, property owners in Spokane County are able to insure against flood losses.

Is development allowed in a floodplain?

Yes, but all development is subject to the requirements of the Spokane County Flood Ordinance and the NFIP.

FLOODPLAIN DEVELOPMENT PERMIT:

When is a Floodplain Development Permit required?

Developing property, all or a portion of which is in a regulated floodplain, requires a Floodplain Development Permit. This permit will identify the specific requirements for each proposed project. Prior to Floodplain Permit release, all plans must be reviewed to ensure that they meet the requirements of the Spokane County Flood Ordinance.

What is considered development?

Development includes, but is not limited to buildings, homes, manufactured and mobile homes, other structures, bridges, culverts, dredging, filling, grading, paving, excavation, docks, boat lifts, seawalls, bulkheads, etc.

FLOODPLAIN REQUIREMENTS "A" ZONES:

"A" Zone is an area that has been determined to be in the 100-year flood which may or may not have base flood elevations and flood hazard factors determined. A more complete description of "A" Zone is located on each Flood Insurance Rate Map (FIRM) key.

What are the floodplain requirements for my residential/commercial structure?

In areas where flood elevations are known, the lowest floor including basement must be a least one (1) foot above the base flood elevation. **Base flood elevation, also known as the BFE or 100-year flood, is the term used for a flood having a one (1) percent chance of being equaled or exceeded in any given year and the elevation at which it may occur.**

If flood elevations are not known in the area you are developing, a site inspection by the Spokane County Floodplain Management staff is required. If it is not clear that the proposed home will be outside of the floodplain, the applicant is asked if they could relocate to a safer (clearly out of the floodplain) area upon the property. The applicant may also hire an engineer to more precisely delineate the floodplain and establish a BFE for the property. Construction of the lowest floor including basement must be one (1) foot above the newly established BFE.

Residential homes must elevate above the BFE and commercial structures have the option to flood proof above the BFE.

What are the floodplain requirements for dock projects?

Dock projects do not require a Floodplain Development Permit unless fill is being imported to the site or docks are fixed (not floating). Fill includes, but is not limited to gravel, sand, rock, concrete pads, bulkheads, seawalls, rip rap, etc.

What are the floodplain requirements for fill, grading, excavation and crossing structures?

Applicant discusses the project with the Floodplain Coordinator and the requirements for the permit are given.

In areas where flood elevations are unknown (unnumbered "A" Zones), the applicant's engineer must show that the fill, bridge or culvert will not increase the BFE by more than one (1) foot at any point.

In areas where the flood elevation is known (numbered "A" and "AE" Zones) but floodway is not designated, the applicant's engineer must show that the fill, bridge or culvert will not increase the BFE by more than one-tenth ($1/10^{th}$) of a foot at any point.

In both cases above, adjacent properties must not be impacted without the owner's permission.

For areas where flood elevations are known (numbered "A" and "AE" Zones) and a floodway is designated, filling in a floodplain requires the applicant's engineer to show that the fill will not increase the BFE. For crossing structures, bridges must span the floodplain or the applicant's engineer must show that it is stable during 100-year flood flows/velocities and does not increase the BFE. Culverts need to be designed by an engineer to pass the 100-year flood flows without increasing the BFE.

A bond is taken to ensure the structure or grading/fill/excavation is built according to the plans.

If excavation is planned, the requirement is generally to remove the spoil (excavated) material from the floodplain to an upland location.

"B" ZONES:

"B" Zone is the area that lies between the 100-year flood and 500-year flood. Flooding depth and contributing drainage area is also addressed in the "B" Zone. A more complete description of "B" Zone is located on each FIRM key.

My property is associated with a "B" Zone floodplain.

"B" Zone floodplains are treated the same as unnumbered "A" Zone floodplains. For "B" Zones, generally, no flood insurance is required.

"C" ZONES:

"C" Zone are areas of minimal flooding.

My property is associated with a "C" Zone.

If your property is located in a "C" Zone no Floodplain Development Permit is required.

ADDITIONS TO STRUCTURES:

Any repair, reconstruction or improvement to a structure, the cost of which equals or exceeds fifty (50) percent of the fair market value of the structure requires a Floodplain Development Permit. All above conditions apply.

FLOOD PROOFING:

Residential homes must elevate above the BFE and commercial structures have the option to flood proof above the BFE. A licensed engineer or landscape architect must design the flood proofing.

FEES:

For Floodplain Development Permits issued with a known elevation, a fee of $31.00 and a bond of $500.00 will be charged. The bond will be refunded upon presentation, to Spokane County, of a completed Elevation Certificate.

Floodplain Development Permits issued with an unknown elevation are $52.00 and will require a site visit.

ELEVATION CERTIFICATION:

What is an Elevation Certificate?

The Elevation Certificate is a form used by FEMA that records the elevation of the lowest floor for structures built on property all or a portion of which is in a regulated floodplain.

Why is an Elevation Certificate required?

(1) Our Flood Ordinance requires it to document compliance with permit conditions. (2) Elevation Certificates are the only official document used by FEMA to determine whether a structure is inside or outside a floodplain. (3) Elevation Certificates are used to determine the proper rate when purchasing flood insurance.

When is an Elevation Certificate required?

If the floodplain associated with your structure has flood elevations, then an Elevation Certificate is required upon completion of construction.

Why is an Elevation Certification bond taken?

The bond ensures that the applicant will complete and return an Elevation Certificate to the County once the structure is built. The bond is taken during issuance of a Floodplain Development Permit and will be returned to the applicant after we receive the completed Elevation Certificate.

Who can fill out an Elevation Certificate?

Elevation Certificates must be completed and stamped by a surveyor licensed in the State of Washington.

ENVIRONMENTAL REVIEW:

Prior to issuing a Floodplain Development Permit a State Environmental Policy Act Checklist (SEPA) process may need to be completed.

See Spokane County Building and Code Enforcement Bulletin, B-49, "Environmental Review."

MISCELLANEOUS:

Please note that other permits may be required from any one or more of these agencies:

WA Department of Fish and Wildlife
(509) 892-1000
www.wdfw.wa.gov

Spokane County
Division of Building and Planning
(509) 477-3675
www.spokanecounty.org/bp/

Spokane County
Division of Engineering and Roads
(509) 477-3600
www.spokanecounty.org/engineer/

WA Department of Ecology
(509) 329-3400
www.ecy.wa.gov (Permit Assistance)

US Army Corps of Engineers
(206) 764-3750
www.nws.usace.army.mil

WA Department of Natural Resources
(509) 684-7474
www.dnr.wa.gov

For more information or an appointment you can contact:

Spokane County Public Works Department
Division of Engineering and Roads
Environmental Program & Special Projects
1026 W. Broadway Avenue
Spokane, Washington 99260-0170
(509) 477-3600

SPOKANE COUNTY

Grading and Parking Lot Permits

BP-46

Department of Building and Planning

This brochure is intended to provide an overview as to when grading permits are required by County code.

When are grading permits required?

- ❑ For the construction of private roads not within an approved preliminary or final subdivision, binding site plan, etc., provided road and drainage plans have been approved by the Division of Engineering and Roads as appropriate.
- ❑ Grading or road construction within a proposed subdivision prior to preliminary approval, or prior to approval of road and drainage plans.
- ❑ When creating a new, or paving a previously unsurfaced parking lot.
- ❑ Grading, excavation or placement of fill exceeding 50 cubic yards on construction sites prior to issuance of a building permit.
- ❑ Cut, fill or grading of any depth on any lot that obstructs a drainage course.
- ❑ Fill more than 1 foot in depth placed on slopes greater than 1 vertical to 5 horizontal units that exceeds 50 cubic yards on any one lot (20% slope) when not part of a valid building permit.
- ❑ Fill more than 3 feet in depth, that exceeds 50 cubic yards on any one lot, intended to support structures when not in conjunction with a valid building permit.
- ❑ Excavations more than 2 feet in depth when not part of a valid building permit.
- ❑ Excavations where a cut slope is created that is greater than 5 feet in height and steeper than 1 vertical to 1.5 horizontal units (66.7% slope).
- ❑ It is noted that in the above instances, when "grading in an isolated, self contained area and there is no danger to private or public property" the requirement for a grading permit may be waived by the Department of Building and Planning.

Top soil removal or mining is not grading. Separate permits and approvals are required for these activities.

What information is required to obtain a permit?

For parking lots and other grading activities, stormwater and drainage plans prepared by a licensed civil engineer will be necessary when required by the Spokane County Code.

Plans for parking lots need to include details for accessible parking spaces, typical parking space dimensions, travel-ways, road approaches and landscaping as well as stormwater retention areas. The use of existing buildings on the site is also necessary to calculate parking requirements.

Any fill or excavation of more than 500 cubic yards requires environmental review, with an environmental checklist submitted as required by the State Environmental Policy Act (SEPA (Brochure BP-49)). Additionally, any parking lot providing a cumulative number of spaces over 40, or construction of a private road serving more than 8 lots, also requires compliance with SEPA.

The environmental checklist is circulated to a number of local and state agencies for review. This process can take from 14 to 30 days and possibly longer depending on the impacts of the project.

Projects involving less than 5,000 cubic yards of grading require the following:

- ❑ General vicinity of the site.
- ❑ Topography and/or elevations before and after.
- ❑ Location of buildings or structures.
- ❑ Location of drainage courses/easements.
- ❑ Erosion and sediment control measures (see ESC Ordinance and Brochure #BP-19).
- ❑ Drainage plans (when impacting drainage courses).
- ❑ Soils/geotechnical reports (steep slopes and/or erodible soils).
- ❑ Critical areas delineation when grading adjacent to a critical area such as a wetland, steep slope or riparian area or shoreline of a lake or stream.
- ❑ Identification of where any soil removed from the site is going to be located.

Projects involving more than 5,000 cubic yards of grading require the following:

- ❑ Generally, the same information as above and in addition, these projects require plans prepared by a licensed civil engineer. See requirements for engineered grading in Spokane County Code chapter 3.10.
- ❑ Erosion and sediment control measures (see ESC Ordinance and Brochure #BP-19).
- ❑ Identification of where any soil removed from the site is going to be located.

What is the cost?

Fees are charged based on the number of cubic yards placed, moved, cut or removed in conjunction with the permit. For parking lots the total of yardage materials to be placed on the site will be used to determine the permit cost (fill, gravel and asphalt).

What other departments are involved?

- ❑ Division of Engineering & Roads - Roads and Drainage
- ❑ Division of Engineering & Roads - Flood Control
- ❑ Division of Engineering & Roads - Storm-water Section

The following agencies may also be involved if there is an impact to a shoreline or a critical area such as a wetland or riparian area, or the work is located within 250' of such, or impact to a state highway.

- ❑ Washington State Department of Natural Resources
- ❑ Washington State Department of Fish and Wildlife
- ❑ Washington State Department of Ecology
- ❑ Washington State Department of Transportation

Are inspections required?

Inspections of the grading, drainage, parking lot configuration and landscaping prior to paving are required. Some aspects of the grading and drainage systems may require inspections by a civil engineer or special inspection agency. In all cases final inspection by the Department of Building and Planning is required upon completion.

Miscellaneous

Please note that exceptions from grading permit requirements do not relieve the property owner from compliance with other regulations.

Also note that fill and grading activities within 250' of any body of water, including rivers, lakes, streams, wetlands, flood plains, etc. is highly regulated and often not allowed or very restricted. Before performing any such activity, regardless of whether the extent of the work would require a grading permit, check with the department staff to see if the contemplated activity is allowable and if under what

conditions. Permits other than grading such as a a floodplain permit or shoreline substantial development permit may be required.

Other Brochures that may be helpful

BP-19	Erosion and Sedimentation Control
BP-19a	Erosion and Sedimentation Control Techniques
BP-19b	Erosion and Sedimentation Control Plan Requirements
BP-33	Commercial Site Plans
BP-46a	Typical Grading Permits

For more information or an appointment contact:

Spokane County
Department of Building and Planning
1026 West Broadway Avenue
Spokane, WA 99260-0050

(509) 477-3675 bp@spokanecounty.org
http://www.spokanecounty.org/bp

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SPOKANE COUNTY

Typical Grading Permits

BP-46a

Department of Building and Planning

At times it can be difficult to determine whether grading permits are required or necessary. Where permits are required, plans and inspection are also required, sufficient to determine conformance with County regulations, including the Building Code, Critical Areas Ordinance, Erosion & Sediment Control Regulations, Stormwater Guidelines, etc. The following are examples of instances where grading permits are most commonly required.

Site Grading in Conjunction with Building Construction/Permit Issuance

Where site grading is desired to be accomplished prior to approval of the building permit/ construction drawings, a separate grading permit is necessary. Inspection/final approval can often be completed in conjunction with the balance of the permits associated with the project.

Parking Lots and Other Site Grading - No Buildings

Grading permits are generally required. Grading permit plan review typically would include drainage, landscaping, other site improvements such as parking/accessible parking requirements, parking requirements of the Zoning Code, etc. Inspection/final approval is required.

Preliminary Plats

Grading permits are required if approval of drainage and road plans has not been obtained. Typically these projects would be considered as engineered grading and special inspection/engineer oversight would be required. When a grading permit is issued, follow up inspections and final approval to assure conformance with engineered grading requirements and that adequate controls are exercised by any professional consultants is necessary. If road/drainage plans have been approved, grading permits are not required and site development activity needs to conform to the approved plans as determined by the Division of Engineering and Roads.

Wetland/Critical/Shorline/ Stormwater Control Areas

Permits can be required for any grading or fill activity on or adjacent to sites with wetlands, shorelines, other critical areas or identified drainage ways when the activity could impact either the critical area, its buffer, or the drainage way. Inspections take into consideration not only the actual grading, but the critical areas, their buffers and associated drainage ways as well. Before conducting any grading or fill activities on these sites contact the department to determine what requirements will need to be met.

Driveways/Private Roads

When the construction/installation of driveways or roads involves the movement of substantial quantities (50 yd^3) of earth/fill, where the driveway or road crosses other parcels to reach its terminus or where the driveway or road crosses drainage ways, grading permits may be required. Depending upon the extent of the activity, these projects may be either 'regular' or 'engineered' grading. Inspections will be conducted accordingly.

Timber Harvest Activities

Construction of roads and driveways, landing areas, etc., may require grading permits where the property is being converted to uses other than

forestry or where the roads will eventually be used for vehicular traffic other than that involved with the timber harvest operations.

Often times grading permits are issued as a direct result of complaints received, e.g., intruding into critical areas/buffers, blocking or modifying drainage ways, construction activity which is inconsistent with preliminary plat conditions, etc. Inspections for consistency with various codes and approved plans and final approval on all permits is required.

Other Brochures that may be helpful

BP-19 *Erosion and Sedimentation Control*
BP-19a *Erosion and Sedimentation Control Techniques*
BP-19b *Erosion and Sedimentation Control Plan Requirements*
BP-46 *Grading and Parking Lot Permits*

For more information or an appointment contact:
Spokane County Public Works
Department of Building and Planning
1026 W. Broadway Avenue
Spokane, WA 99260-0050
(509) 477-3675 bp@spokanecounty.org
http://www.spokanecounty.org/bp

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Spokane County Contractors Swale FIELD GUIDE

County Residential Swale Requirements

PRE-CONSTRUCTION

- For lot site plan showing required placement, dimensions, and area of the swale and drainage easement, contact County Stormwater Technician.

CONSTRUCTION

- Swale bottom should be level (i.e. not sloping) to ensure stormwater is evenly distributed for proper treatment.
- Side slopes should be 3:1 unless otherwise specified.
- Sod or grass seed only in floor area—no rock or plants in floor of the swale.
- If rock/keystone wall is placed on side slopes, grass must extend 6" up side slopes before wall begins.
- Completed floor elevation (after sod placement) must be at least 6" below top of the drywell grate.
- Sod must be 2" below end of the concrete curb cut/ apron to allow unobstructed flow into swale.
- Construct swale to ensure water does not flow directly from the inlet into the drywell.

POST-CONSTRUCTION INSPECTION

- Once sod is established, swale must pass a flood test and completely drain preferably within 24 to 48 hours, or within 72 hours maximum.
- Swale must be constructed and pass inspection within approximately 6 months of final building inspection.

Engineering & Roads, Stormwater Utility
1026 W. Broadway Avenue
Spokane, WA 99260

Phone: 509.477.3600
FAX: 509.477.7655
E-mail: kkruger@spokanecounty.org
www.spokanecounty.org/Stormwater

Techniques to Increase Swale Function

DURING CONSTRUCTION

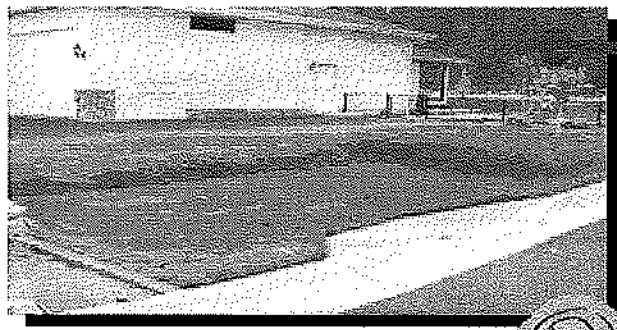
- Protect the swale area from receiving sediment-laden runoff during construction by placing barriers such as sand bags or straw waddles at the inlets.
- Protect drywells and catch basins from sediment by installing filter fabric under the grates.
- Do not drive in swales or compact the floor area.
- Do not use the swale as a clean-out area for any construction materials such as concrete, masonry, plaster, paint, or texture.

SOILS

- Evaluate on-site soils for drainage. Avoid layering top soil to prevent a subsurface that prohibits infiltration.
- Top soil should consist of course sandy loam mixed with 2" of organic matter for every 6" of top soil.
- Top soil should be tilled into existing base soil to a depth of at least 4" to prevent layering and increase infiltration capacity.

IRRIGATION

- Use proper irrigation installation for the site: For optimum efficiency, connect the swale area irrigation to its own control device, separate from the lawn sprinkler system.



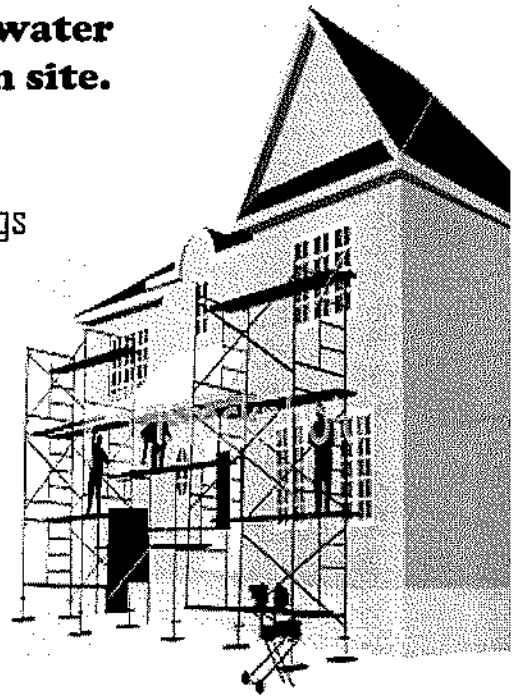
Questions

Call the Spokane County Stormwater Technician
509.477.3600

ATTENTION CONTRACTORS AND DEVELOPERS!!!

Do you need a CONSTRUCTION GENERAL PERMIT *from the Department of Ecology?*

If so, you are *REQUIRED BY LAW* to have a Certified Erosion & Sediment Control Lead (CESCL) install and inspect stormwater controls, and manage stormwater discharge on your construction site.



REGISTER yourself or your employees for CESCL or other erosion control trainings

OR

for a link to more information, visit the following website:

http://www. spokanecounty.org/StormWater

SPACES ARE LIMITED – REGISTER EARLY!

SPOKANE COUNTY • Provided by the Spokane County Division of Engineering and Roads, Stormwater Utility • (509) 477-3604

Water Quality Permitting and Reporting Information System (PARIS)

Facility Summary

Little Spokane River Bridge 3602 Replacement

More Details... Close Window

Facility Name: **Little Spokane River Bridge 3602 Replacement** Address: **Mill Rd** City: **Spokane** County: **Spokane**

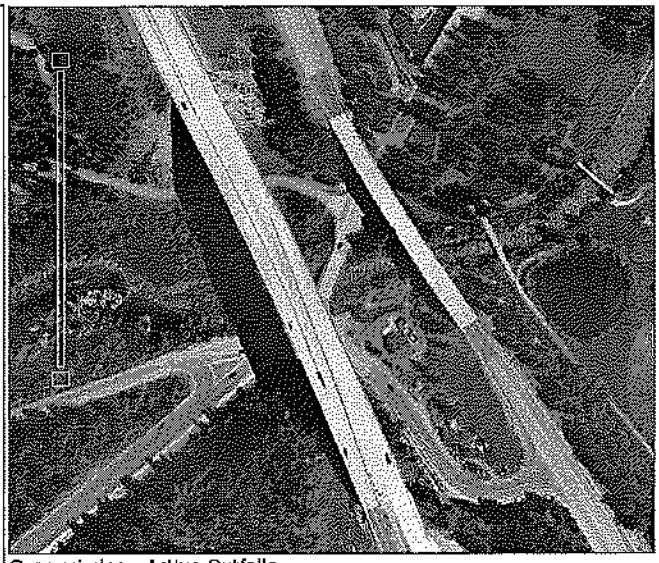
Permits as of 03/25/2013 - **Bold** Records Indicate Active Permits

Click the version number to view the permit documents associated with the permit.

Permit	Type	Version	Effective Date	Expiration Date
WAR125538	**Construction SW GP**	**1**	**02/09/2012**	**12/31/2015**

Permit Number	Violations/Triggers	Inspections	Enforcements
WAR125538	3	2	1

These counts represent "all time". Click to view the details of these values.
Links will show only active permits by default.



Greencircles - Active Outfalls
Redcircles - Inactive Outfalls
Yellowdiamonds - Facility
Click here to view this facility in Google Maps.

Most Recent Interactions (Enforcements, Inspections and Submittals)

Data Type	Action Date	Description
Inspection	11/30/2012	Compliance Inspection-Without Sampling
Inspection	06/12/2012	Compliance Inspection-Without Sampling
Enforcement	03/19/2013	No enforcement action necessary

Query Time: 0.48 Seconds

Documents

Click on the document name to download and open the document.
There are no documents associated with this facility.
Query Time: 0.13 Seconds (0 Records)

Permitting And Reporting Information System Version: 1.7.9 | Data Disclaimer | Privacy Policy
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Water Quality Permitting and Reportin

Information
Use this page to search for facilities issued a permit or coverage under a general permit.

Looking for permit documents?
Click here

Other Permit Searches

- Permit Number/Type
- Water Body
- Permit Application Status
- Permits By SIC/NAICS
- Recently Permitted Facilities
- Impaired Water Body Limits
- Permits by Location
- Document Search
- Map Search
- CNE Applications

Permit Number/Type Search

*Fill in one or more fields and click **Search***

Permit Number	Example: WAR0011379 or 11379
Facility / Project Name	
City	
County	Spokane
Region	Choose a Region — Use Region Map
Address	**Zip Code**
Permit Type	Construction SW GP

Search Cancel

Shareable Link

Ecology implemented a new water quality permit database system called PAI reviewing data that was entered before and after that date, you may see dif be due to the way the legacy system (WPLCS) entered and stored data vs. t you have questions or would like to report inconsistencies, please contact th the Facility Detail Page.

Search Results

Go Reports 1. Primary Report Actions

Permit Status = 'Active'

Facility Name	Permit Number	Permit Status	Permit Type	Address
RPWRF CONSTRUCTION PROGRAM	WAR008973	Active	Construction SW GP	4401 N AL WHITE PARKWAY
Playfair Commerce Park	WAR012596	Active	Construction SW GP	401 N HAVEN ST
MICA VIEW ESTATES	WAR005901	Active	Construction SW GP	W OF UPRR E & S OF PONDEROSA DR
TERRA VISTA	WAR010991	Active	Construction SW GP	-

VALLEY SPRINGS ADDITION	WAR011405	Active	Construction SW GP	W TERMINUS OF COLUMBIA DR & THIERM
AIRWAY HEIGHTS WATER RECLAMATION	WAR011457	Active	Construction SW GP	12405 21st Street
WA DOT SR395 NSC US 2	WAR011881	Active	Construction SW GP	SR395 NSC MP 16 TO 167.6
Windsor Estates	WAR012600	Active	Construction SW GP	17116 N HATCH RD
Crunks Hill Sports Fields	WAR125062	Active	Construction SW GP	Simpson Parkway
Combined Sewer Overflow Basins38, 39, & 40 Control Facilities	WAR125147	Active	Construction SW GP	South Riverton Av
Saltese Meadows Class Change Project	WAR125284	Active	Construction SW GP	2333 S BARKER R
WSU Biomedical Building	WAR125233	Active	Construction SW GP	205 W SPOKANE FALLS BLVD
Caterpillar DC3 Spokane	WAR125333	Active	Construction SW GP	W Hallett Rd
Thomas Mallen TIF	WAR125443	Active	Construction SW GP	Thomas Mallen Rd
Little Spokane River Bridge 3602 Replacement	WAR125538	Active	Construction SW GP	Mill Rd

1 - 15 of 35

Query Time: 0.39 Seconds

Permitting And Reporting Information System Version: 1.7.9 | Data Disclaimer | Privacy Policy
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MID NOV — NEW BUILDING + *

SPOKANE COUNTY
DEPARTMENT OF BUILDING & PLANNING

1026 WEST BROADWAY AVENUE • SPOKANE, WA 99260-0050

SPOKANE COUNTY

Site Information

Site Address: [redacted] RD

Parcel Number: [redacted]

Subdivision: RANGE

Block: **Lot:** E

Zoning: RAC Rural Activity Center

Owner: [redacted]

Address: [redacted]
GREENACRES, WA 99016

Building Inspector: TIM UTLEY

Water Dist: FOUR LAKES WATER #10

Project Information

Project Number: [redacted] **Inv:** 1 **Issue Date:** 11/19/2007

Permit Use: DETACHED SHOP - 24 X 24 X 10 GSL 33#

Applicant: [redacted]
GREENACRES, WA 99016 **Phone:** (509) [redacted]

Contact: [redacted]
GREENACRES, WA 99016 **Phone:** (509) [redacted]

Setbacks - Front: 60 **Left:** 20+ **Right:** 20 **Rear:** 40+

Group Name:

Project Name:

Permits

Building Permit

Contractor: REMBRANT CONSTRUCTION **License #:** REMBRC*939C6

UTIL-GARAG	U	VB	576	RESIDENTIAL PERMIT FEE	$125.50
				STATE SURCHARGE	$4.50
Total Value:			$6,912.00	RESIDENTIAL SURCHARGE	$27.61
				REGIONAL PLNG SURCHARG	$20.08
				Total Permit Fee:	$177.69

* FOR BUILDING INSPECTIONS CALL THE BUILDING & PLANNING DEPT AT (509) 477-3675.

* Contact the Spokane Regional Clean Air Agency at 477-4727 ext 120, and/or visit www.spokanecleanair.org before any renovation or demolition activity begins to ensure compliance with applicable asbestos regulations. An Asbestos Survey may be required.

* If your construction project cumulatively disturbs one or more acres of land through clearing, grading, excavating, or stockpiling of fill material, you may need Construction Stormwater Permit Coverage from the Washington State Department of Ecology.

This applies even if the project is being constructed in phases of less than one acre. Spokane County cannot determine whether Permit Coverage is necessary. It is your responsibility to apply for Coverage.

For detailed information visit http://www.ecy.wa.gov/programs/wq/stormwater/construction/ or call ~~360-407-6437~~ 509 329 - 3610.

Payment Summary

Total Fees	AmountPaid	AmountOwing	Tran Date	Receipt #	Payment Amt
$177.69	$177.69	$0.00	11/19/2007	6737	$177.69

FILE

Processed By: DOMPIER, DAWN
Printed By: HINTZ, FAITH

PERMIT

Spokane Regional Stormwater Manual

Applicability to County Road Projects

Brenda Sims, Manager
Colleen Little, Stormwater Engineer

Topics

- Permits that affect design section work
- Spokane Regional Stormwater Manual (SRSM)
- Information needed for NPDES Construction Permit and drywell registration

Protect Aquifer and Surface Water

- Drinking water for over 500,000
- Valley gravels: highly susceptible to pollution
- Recreational/wildlife value of the creeks, rivers, lakes

Permits & Regulations

- National Pollutant Discharge Elimination System Program (NPDES)
  - Municipal Permit
  - Construction Stormwater General Permit
- Underground Injection Control Program (UIC)
- Critical Aquifer Recharge Area (CARA)
- ASA (Aquifer Sensitive Area)

Municipal NPDES Phase II Permit

- Feb. 16, 2007 Effective Date
- MS4: Municipal Separate Storm Sewer System (includes gutters, ditches)
- Specific coverage area
- Primary: outfalls to surface water
- Secondary: non-UIC discharges to ground

Construction Stormwater General Permit

- Countywide
- Projects disturbing 1 or more acres
- Potential discharge to surface waters
- More later . . .

Underground Injection Control Program

- Updated regulations: Feb. 3, 2006
- UIC well: manmade subsurface fluid distribution system designed to discharge fluids into the ground . . . .
- Drywells authorized if:
  - Registered with Ecology
  - Discharge must not contaminant ground water

Critical Aquifer Recharge Areas

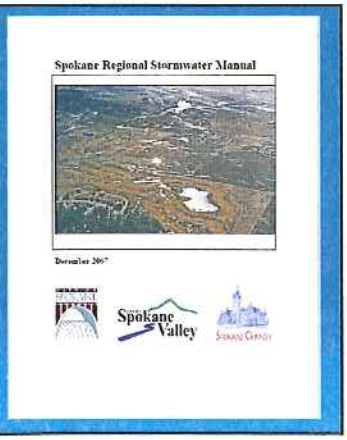
- High, moderate, low susceptibility
- UIC facilities within high or moderate susceptibility areas must incorporate water quality treatment
- If ADT is high, may be required to treat in low susceptibility area

Compliance

Eastern WA Stormwater Manual

or

Equivalent



How does the SRSM help achieve compliance with these permits and regulations?

- The SRSM provides the tools to...

  ...design, site, build and maintain stormwater facilities that meet local, state and federal criteria...

- The SRSM addresses...

  ...both private development (residential and commercial) and public infrastructure (municipal)...

Which Chapters to focus on?

- Chapter 2 – Basic Requirements
- Chapter 4 – Geotechnical Site Characterization
- Chapter 6 – Water Quality Design
- Chapter 9 – Erosion and Sediment Control

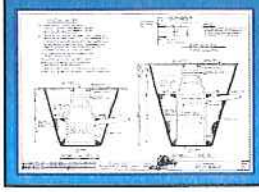
Chapter 2 – Basic Requirements

- What triggers use of the SRSM in Spokane County?
  - addition/replacement of ≥5,000 sf of impervious surfaces, or
  - the disturbance of 1 acre or more
- Redevelopment versus New Development

- Exemptions
  - 2.1.4 – road repair work
  - 2.1.5 – maintenance projects
  - 2.1.5 – safety improvement projects

Chapter 4 – Geotechnical Site Characterization

- What is it?
  - identify sub-surface soils/conditions
  - determine feasibility of infiltration
  - scope and geographic extent may vary



- When is it required?
  - when UIC facilities are proposed
  - when project is located in a known drainage problem area

Chapter 6 – Water Quality Design

- 6.3 What is a UIC facility?
  - generally: constructed sub-surface infiltration system
  - specifically: perforated pipes, drain tiles, drywells, etc.
  - basically: any device designed to discharge / infiltrate fluids (stormwater) directly into the ground
- 6.4 What is Pollution Generating Impervious Surface (PGIS)?
  - areas that contribute significant sources of pollutants to stormwater runoff
  - areas subject to vehicular use, whether paved or not
  - areas that are hydraulically connected

Chapter 6 – Water Quality Design

- 6.4.1 – 6.4.3 When is oil-separator technology required?
  - High-Use "Site" ≥ 25,000 ADT main rd & ≥ 15,000 ADT intersecting rd
  - High ADT "Site" ≥ 30,000 ADT for any road
  - Moderate-Use "Site"
    - urban road with ADT between 7,500 & 30,000
    - rural road with ADT between 15,000 & 30,000

- What is oil-separator technology?
  - removal of oil from stormwater inflow separately from any other pollutant removal BMP
  - coalescing plate or baffle-type oil control mechanism
  - visual: "treatment train" (facility 'ahead' of a swale, for example)

Chapter 6 – Water Quality Design

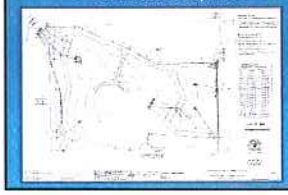
- Treatment Goals
  - Treat approximately 90% of the annual runoff volume generated at a site
  - Target Pollutants: total suspended solids (TSS), total petroleum hydrocarbons (TPH), metals and phosphorus
  - Design according to SRSM criteria – assumed that pollutants are captured
- And...the "good news" is...
  - a typical bio-infiltration swale is the expected BMP for providing treatment!

Chapter 9 – Erosion and Sediment Control

- When is an ESC Plan required?
  - same threshold "triggers", plus
  - disturbance of less than 1 acre but requiring any type of permit

Chapter 9 – Erosion and Sediment Control

- 9.4.2 Minimum ESC Plan Elements
  - title block, north arrow, scale and plan preparation date
  - contact person on-site, engineer's stamp & signature
  - vicinity map, STR, project address, boundaries and dimensions
  - project description, on-site soils, location of water bodies/critical areas
  - summary of ESC BMPs used & ESC Standard Plan Notes
  - Construction Sequence



Other Chapters?

- Chapter 3 – Drainage Submittal
  - project design and documentation elements – typically in report format
- Chapter 5 – Hydrologic Analysis and Design
  - all methods for designing stormwater facilities, design storms, etc.
- Chapter 7 – Flow Control
  - design criteria to control flow rate (a drywell is a flow control structure)
- Chapter 8 – Conveyance
  - design criteria for sizing pipes, culverts, inlets, etc.
- Chapter 10 – Source Control
  - keeping pollutants from coming in contact with stormwater (commercial)
- Chapter 11 – Maintenance, Tracts & Easements
  - HOA, POA responsibilities; easements, tracts, O&M information

In Conclusion....

...use the Spokane Regional Stormwater Manual !

Eastern WA Phase II Municipal Stormwater Permit

Special Condition S2 Authorized Discharges

A. This permit authorizes the discharge of stormwater to surface waters and to ground waters of the state from municipal separate storm sewers owned or operated by each Permittee covered under this permit . . . These discharges are subject to the following limitations:

1. Discharged to ground waters of the state through facilities regulated under the Underground Injection Control (UIC) program, Chapter 173-218 WAC, are not covered under this permit.

2. Discharges to ground waters not subject to regulation under the federal Clean Water Act are covered in this permit only under state authorities, Chapter 90.48 RCW, the Water Pollution Control Act.

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

NEW CONSTRUCTION

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
No Report Code	0		7	$2,310,842	0		8	$2,598,930
APT -3 STORY OR LESS	0		1	$2,358,085	0		3	$3,259,236
DUPLEX	1	$443,307	14	$6,634,184	0		4	$1,268,950
EDUCATIONAL-PRIVATE	0		0		0		2	$90,923
EDUCATIONAL-PUBLIC	0		0		0		6	$12,547,514
FOURPLEX	0		0		0		1	$694,437
INDUSTRIAL BUILDING	2	$24,096,081	12	$33,101,693	0		10	$44,153,046
MANUFACTURED HOME	0		3	$57,532	0		0	
MECHANICAL	0		1	$3,409	0		0	
MERCANTILE	0		1	$540,961	0		4	$4,261,245
MISC SHELTERS	0		0		0		1	$0
MISCELLANEOUS	1	$0	8	$1,226,192	0		3	$2,798,342
NON-RESIDENTIAL	0		0		0		1	$4,710
OFFICE/PROFESSIONAL	0		0		1	$664,496	5	$2,801,948
PRVT GARAGE/CARPORT	14	$412,584	449	$12,395,249	15	$377,280	460	$11,601,889
PUBLIC UTILITY	0		0		0		1	$0
RECREATION BUILDING	0		0		1	$2,781,902	1	$2,781,902
RELIGIOUS BUILDING	0		2	$1,187,866	0		2	$67,847
RESIDENCE	25	$5,788,230	651	$224,234,640	13	$4,312,855	446	$158,986,558
STRUCTURE	0		0		0		1	$3,454
TANK/PIPING (FUEL)	0		0		0		1	$0
VOID	0		0		0		1	$258,985
Total	43	$30,740,201	1149	$284,050,652	30	$8,136,533	961	$248,179,915

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

ADDITIONS AND ALTERATIONS

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	Count	Valuation	Count	Valuation	Count	Valuation	Count	Valuation
No Report Code	0	$0	5	$820,219	1	$14,407	6	$723,603
APT -3 STORY OR LESS	0	$0	0	$0	0	$0	2	$220,000
DUPLEX	0	$0	3	$59,995	0	$0	0	$0
EDUCATIONAL-PRIVATE	1	$40,543	5	$151,185	0	$0	1	$144,000
EDUCATIONAL-PUBLIC	0	$0	3	$3,313,410	0	$0	4	$204,500
HOSPITAL/INSTITUTION	0	$0	3	$1,830,803	0	$0	1	$75,000
INDUSTRIAL BUILDING	1	$126,696	4	$213,755	1	$20,000	5	$363,915
MERCANTILE	1	$0	13	$1,508,122	4	$340,000	26	$1,050,969
MISC SHELTERS	0	$0	0	$0	0	$0	2	$62,613
MISCELLANEOUS	0	$0	15	$190,771	1	$37,500	5	$59,000
MOTEL - 3 STORY	0	$0	1	$100,000	0	$0	0	$0
NON-RESIDENTIAL	1	$15,000	2	$3,958,979	0	$0	1	$320,448
OFFICE/PROFESSIONAL	1	$125,583	11	$746,849	2	$131,140	21	$1,842,671
PRVT GARAGE/CARPORT	2	$38,354	69	$697,593	1	$8,640	77	$897,696
RECREATION BUILDING	0	$0	3	$3,165,491	0	$0	2	$10,000
RELIGIOUS BUILDING	0	$0	1	$16,000	0	$0	12	$1,244,528
RELOCATION	0	$0	0	$0	0	$0	1	$29,471
RESIDENCE	9	$151,268	220	$7,996,594	14	$508,687	266	$10,197,245
STRUCTURE	0	$0	3	$100,000	0	$0	1	$0
VOID	0	$0	0	$0	0	$0	2	$195,344
WIRELESS TOWER/ARRAY	0	$0	0	$0	0	$0	1	$0
Total	16	$497,444	361	$24,869,766	24	$1,060,375	436	$17,641,004

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

MISCELLANEOUS PERMITS AND ACTIVITY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
No Report Code	0	$0	1	$0	0	$0	0	$0
No Report Code	0	$0	7	$634,874	0	$0	8	$438,634
APT -4 STORY OR MORE	0	$0	0	$0	0	$0	1	$3,500
DEMOLITION	1	$0	41	$0	2	$0	39	$500
EDUCATIONAL-PRIVATE	0	$0	1	$0	0	$0	0	$0
EDUCATIONAL-PUBLIC	0	$0	0	$0	0	$0	4	$191,000
HOSPITAL/INSTITUTION	0	$0	1	$0	0	$0	0	$0
MANUF. HOME REPLACE	0	$0	1	$0	0	$0	3	$0
MANUFACTURED HOME	3	$0	74	$0	2	$0	62	$134,611
MECHANICAL	0	$0	2	$7,423	0	$0	0	$0
MERCANTILE	1	$0	5	$0	0	$0	1	$0
MISCELLANEOUS	12	$0	191	$37,739	6	$8,603	113	$455,704
MODULAR BUILDING	0	$0	0	$0	1	$0	2	$0
PLUMBING	0	$0	1	$0	0	$0	0	$0
PRVT GARAGE/CARPORT	1	$0	14	$29,011	0	$0	6	$0
RELIGIOUS BUILDING	0	$0	1	$0	0	$0	0	$0
RELOCATION	0	$0	0	$0	0	$0	1	$113,921
REPAIR GARAGE	0	$0	1	$0	0	$0	0	$0
RESIDENCE	0	$0	52	$2,805,745	3	$1,039,246	37	$1,575,432
ROOFING	4	$21,349	311	$1,999,836	6	$41,665	307	$2,464,866
SIDING	0	$0	17	$112,182	1	$9,150	22	$203,020
SIGN	2	$0	30	$0	3	$0	41	$0
STRUCTURE	0	$0	7	$108,398	1	$120,000	8	$186,800
SWIMMING POOL	1	$0	23	$20,200	0	$0	28	$156,000
TANK/PIPING (FUEL)	0	$0	3	$0	0	$0	2	$0
TIMBER HARVEST	0	$0	2	$0	0	$0	2	$0

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

VOID	0	$0	0	$0	0	$0	1	$0
WINDOWS	1	$3,221	66	$88,725	2	$4,528	45	$109,622
WIRELESS TOWER/ARRAY	4	$0	37	$574,600	5	$230,000	30	$1,566,233
Total	30	$24,570	889	$6,418,733	32	$1,453,191	763	$7,599,845

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

PERMIT SUMMARY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Additions/Alteration	16	$497,444	361	$24,869,766	24	$1,060,375	436	$17,641,004
Mechanical	82	$0	1369	$0	115	$0	1,580	$0
Miscellaneous	30	$24,570	889	$6,418,733	32	$1,453,191	763	$7,599,845
New Construction	43	$30,740,201	1149	$284,050,652	30	$8,136,533	961	$248,179,915
Plumbing	6	$0	207	$20,547	19	$0	307	$20,000
Total	177	$31,262,215	3975	$315,359,698	220	$10,650,099	4,047	$273,440,764

RESIDENTIAL / COMMERCIAL

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Commercial	14	$24,388,903	218	$57,020,790	24	$4,012,538	327	$79,585,884
Miscellaneous	30	$24,570	885	$6,418,733	38	$1,453,191	773	$7,599,845
Residential	132	$6,773,986	2875	$253,975,825	164	$5,128,016	2,948	$185,369,352
Total	176	$31,187,459	3978	$317,415,348	226	$10,593,745	4,048	$272,555,081

OTHER ACTIVITY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Engineers	34	$0	770	$0	39	$0	789	$0
Sewer	53	$0	2164	$0	54	$0	1,813	$0
Total	87	$0	2934	$0	93	$0	2,602	$0

Submittal Log

Inspection Log Sheet							
File No.	Project Name	Inspection Type	Inspector	Date	Comments		
P 1940	Ponderosa PUD	Post Construction Inspectio	Randy Stronks	7/6/2010	Checked on ESC after rain showers		
P 2020	Orchards along Upriver,	Post Construction Inspectio	Randy Stronks	7/6/2010	ESC on final construction of swales		
F 0123	Hayford Road Pathway	Construction Inspection	Randy Stronks	7/8/2010	ESC BMP's in place. Self contained.		
P 2008	Centre Court Addn.	Construction Inspection	Randy Stronks	7/8/2010	ESC Bmp's not in place. Contacted Developer's Engineer		
F 0113	Colburn Lane	Consturction Inspection	Randy Stronks	7/13/2010	ESC BMP's not in place. Talked to the contractor		
CE 0262-06	Mackenzie Beach	Consturction Inspection	Randy Stronks	7/21/2010	ESC BMP's in place and operational		
B 0010	Spokane M.E.P.S	Consturction Inspection	Randy Stronks	7/27/2010	ESC BMP'S in place and operational		
B 9026	Pines Spring Farm Apts.	Consturction Inspection	Randy Stronks	7/27/2010	ESC BMP's in place. Self contained.		
B 0019	Cheney Windsor Middle	Construction Inspection	Randy Stronks	8/24/2010	ESC BMP'S in place and operational		
BSP 0061	Lacy Ln	Consturction Inspection	Randy Stronks	9/2/2010	ESC BMP's in place. Self contained.		
BSP 0108-08	Alderbrook Ln	Consturction Inspection	Randy Stronks	9/15/2010	ESC BMP's in place. Self contained.		
B 9053	Freeman Elementary Scl	Construction Inspection	Randy Stronks	10/19/2010	ESC BMP's in place. Self contained		
B 8086	Freeman High School	Construction Inspection	Randy Stronks	10/19/2010	ESC BMP's in place. Self contained		
B 9058	Christ Church of Mt. Spo	Construction Inspection	Randy Stronks	11/4/2010	ESC BMP'S in place and operational		
B 9057	Eduris Pro Office @ PNV	Construction Inspection	Randy Stronks	3/29/2011	ESC BMP's in place. Self contained		
B 0025	Silhoutte Lighting Wareh	Construction Inspection	Randy Stronks	4/4/2011	ESC BMP'S in place and operational		
B 1121	55th Ave. Apartments	Construction Inspection	Randy Stronks	2/16/2012	Esc BMP 's in place. Self contained		
F 0132	Iller Creek Trail Parking	Construction Inspection	Randy Stronks	2/16/2012	ESC BMP'S in place and operational		
B 0019	Cheney Windsor MS	Construction Inspection	Randy Stronks	2/21/2012	ESC BMP'S in place and operational		
B 1136	Caterpillar DC-3 Dist. Ctr	Construction Inspection	Randy Stronks	2/21/2012	ESC BMP'S in place and operational		
B 1159	Temporary Modular Offic	Construction Inspection	Randy Stronks	2/21/2012	Esc BMP 's in place. Self contained		
B 0008	Traditions Senior Housin	Construction Inspection	Randy Stronks	2/23/2012	ESC BMP'S in place and operational		
B 9053	Freeman Elementary	Construction Inspection	Randy Stronks	2/23/2012	Esc BMP 's in place. Self contained		
P 1980	Maple Terrace	Construction Inspection	Randy Stronks	3/7/2012	Esc BMP 's in place. Self contained		
P 1975 A	Takoda Park 2nd Addn.	Construction Inspection	Randy Stronks	3/7/2012	Esc BMP 's in place and operational		
SP 1399	SP 1399	Construction Inspection	Randy Stronks	3/12/2012	Esc BMP 's in place and operational		
P 1904	Whitetail Ridge	Construction Inspection	Randy Stronks	3/14/2012	Esc BMP 's in place. Self contained		
F 0011	73rd Ave.	Construction Inspection	Randy Stronks	3/14/2012	Esc BMP 's in place. Self contained		
SP 1478	Latah Ridge Ln.	Construction Inspection	Randy Stronks	3/14/2012	Esc BMP 's in place and operational		
P 1950	Timberllane Terrace 1st.	Construction Inspection	Randy Stronks	3/15/2012	Esc BMP 's in place. Self contained		
P 1997	The Creek at Chester	Construction Inspection	Randy Stronks	3/15/2012	Esc BMP 's in place and operational		
SP 1483-08	Bridel Trail Ln.	Construction Inspection	Randy Stronks	3/15/2012	Esc BMP 's in place. Self contained		
P 1904	Whitetail Ridge	Construction Inspection	Randy Stronks	3/15/2012	Esc BMP 's in place. Self contained		
P 1975 A	Takoda Park 2nd Addn.	Construction Inspection	Randy Stronks	3/15/2012	Esc BMP 's in place and operational and Self Contained		
P 1980	Maple Terrace	Construction Inspection	Randy Stronks	3/19/2012	Esc BMP 's in place. Self contained		
F 0011	South Meadows	Construction Inspection	Randy Stronks	3/19/2012	Esc BMP 's in place. Self contained		
SP 1399-06	28th Ln	Construction Inspection	Randy Stronks	3/19/2012	Esc BMP 's in place and operational		
SP 1478-08	Latah Ridge Ln.	Construction Inspection	Randy Stronks	3/19/2012	Esc BMP 's in place and operational		

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File No.	Project Name	Inspection Type	Inspector	Date	Comments
B 1121	55th Ave. Apts.	Construction Inspection	Randy Stronks	3/20/2012	Esc BMP 's in place and operational
B 1135	55th Ave. Spec. Retail	Construction Inspection	Randy Stronks	3/20/2012	Esc BMP 's in place. Self contained
B 1101	Material Recovery Ctr.	Construction Inspection	Randy Stronks	3/21/2012	Esc BMP 's in place. Self contained
B 1135	Cheney SD Holly ES	Construction Inspection	Randy Stronks	3/212012	Esc BMP 's in place and operational
B 0046	Wyatt Arch.	Construction Inspection	Randy Stronks	3/21/2012	Esc BMP 's in place. Self contained
B 0019	Cheney SD Windsor MS	Construction Inspection	Randy Stronks	6/11/2012	Esc BMP 's in place and operational
B 1159	Temporary Modular Offic	Construction Inspection	Randy Stronks	6/11/2012	Esc BMP 's in place. Self contained
B 1101	Material Recovery Cente	Construction Inspection	Randy Stronks	6/11/2012	Esc BMP 's in place. Self contained
B 1135	Cheney SD Holly ES	Construction Inspection	Randy Stronks	6/12/2012	Esc BMP 's in place and operational
F 0136	Conveyance Re-Design	Construction Inspection	Randy Stronks	6/12/2012	Esc BMP 's in place and operational
B 1136	Pond Re-Design	Construction Inspection	Randy Stronks	6/12/2012	Esc BMP 's in place and operational
B 1164	Pond Re-Design	Construction Inspection	Randy Stronks	6/12/2012	Esc BMP 's in place. Self contained
B 1121	55th Ave. Apts	Construction Inspection	Randy Stronks	6/14/2012	Esc BMP 's in place. Self contained
B 1135	55th Ave. Spec. Retail	Construction Inspection	Randy Stronks	6/14/2012	Esc BMP 's in place. Self contained
B 1101	Material Recovery Cente	Construction Inspection	Randy Stronks	7/24/2012	Esc BMP 's in place. Self contained
B 1135	Cheney SD Holly ES	Construction Inspection	Randy Stronks	7/24/2012	Esc BMP 's in place and operational
B 0008	Traditions Senior Housin	Construction Inspection	Randy Stronks	7/25/2012	Esc BMP 's in place. Self contained
B 1201	Barton's N. Auto Dealers	Construction Inspection	Randy Stronks	7/25/2012	Esc BMP 's in place and operational
B 0046	Orchard Townhomes	Construction Inspection	Randy Stronks	7/26/2012	Esc BMP 's in place. Self contained
B 1138	Bigelow Chapel	Construction Inspection	Randy Stronks	7/26/2012	Esc BMP 's in place. Self contained
B 1221	East Farms ES Consol.	Construction Inspection	Randy Stronks	7/26/2012	Esc BMP 's in place. Self contained
B 1121	55th Ave. Apts	Construction Inspection	Randy Stronks	7/30/2012	Esc BMP 's in place. Self contained
B 1135	55th Ave. Spec. Retail	Construction Inspection	Randy Stronks	7/30/2012	Esc BMP 's in place. Self contained
B 1210	STCU Cedar Canyon	Construction Inspection	Randy Stronks	7/30/2012	Esc BMP 's in place. Self contained
B 1135	Cheney Sd Holly ES	Construction Inspection	Randy Stronks	3/12/2013	Esc BMP 's in place. Self contained
B 1219	El Katif Convention Cent	Construction Inspection	Randy Stronks	3/12/2013	Esc BMP 's in place. Self contained
B 1136	Cat DC-3 Parking	Construction Inspection	Randy Stronks	3/12/2013	Esc BMP 's in place. Self contained
B 0048	Moran Church Addn	Construction Inspection	Randy Stronks	3/13/2013	Esc BMP 's in place. Self contained
B0046	Orchard Townhomes	Construction Inspection	Randy Stronks	3/13/2013	Esc BMP 's in place. Self contained
B 1301	Equine Hospital Canopy	Construction Inspection	Randy Stronks	3/13/2013	Esc BMP 's in place. Self contained
B1237	Parking expansion	Construction Inspection	Randy Stronks	3/14/2013	Esc BMP 's in place. Self contained
B 1220	Matress Firm	Construction Inspection	Randy Stronks	3/14/2013	Esc BMP 's in place. Self contained
B1123	Gallagher office/Retail	Construction Inspection	Randy Stronks	3/14/2013	Esc BMP 's in place. Self contained
SP 1407	Country Ridge Ln	Construction Inspection	Randy Stronks	3/25/2013	Esc BMP 's in place. Self contained
P 1786	Stone Hourse Bluff PUD	Construction Inspection	Randy Stronks	3/25/2013	Esc BMP 's in place. Self contained
P 1891	River Ranch	Construction Inspection	Randy Stronks	3/25/2013	Esc BMP 's in place. Self contained
CE 0204	Pleasant Hill Est.	Construction Inspection	Randy Stronks	3/25/2013	Esc BMP 's in place. Self contained
P 1814	Wesrover Ln-Moss Ln	Construction Inspection	Randy Stronks	3/26/2013	Esc BMP 's in place. Self contained
SP 1365	Wild Rose Ln	Construction Inspection	Randy Stronks	3/26/2013	Esc BMP 's in place. Self contained
F 0092	River Glen Dr.	Construction Inspection	Randy Stronks	3/26/2013	Esc BMP 's in place. Self contained
P 1959 A	Piller Rock Estates 1st	Construction Inspection	Randy Stronks	3/27/2013	Esc BMP 's in place. Self contained
P 1980	Maple Terrace	Construction Inspection	Randy Stronks	3/27/2013	Esc BMP 's in place. Self contained
P 1975 A	Takoda Park 2nd Add.	Construction Inspection	Randy Stronks	3/27/2013	Esc BMP 's in place. Self contained
P 1856	West Terrace 3rd Addn.	Construction Inspection	Randy Stronks	3/28/2013	Esc BMP 's in place. Self contained
F 0120	39th Ln	Construction Inspection	Randy Stronks	3/28/2013	Esc BMP 's in place. Self contained
P 1955	Elk Ridge Hts.	Construction Inspection	Randy Stronks	4/1/2013	Esc BMP 's in place. Self contained
P 1933	Chester Ridge	Construction Inspection	Randy Stronks	4/1/2013	Esc BMP 's in place. Self contained

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File No.	Project Name	Inspection Type	Inspector	Date	Comments
P 1779 C	Twin Bridges 3rd Addn.	Construction Inspection	Randy Stronks	4/1/2013	Esc BMP 's in place. Self contained
P 1821	Grande Vista Est.	Construction Inspection	Randy Stronks	4/1/2013	Esc BMP 's in place. Self contained
P 1904	Whitetail Ridge	Construction Inspection	Randy Stronks	4/2/2013	Esc BMP 's in place. Self contained
P 1997	The Creek at Chester	Construction Inspection	Randy Stronks	4/2/2012	Esc BMP 's in place and operational
P 1950	Timberlane Terrace 1st	Construction Inspection	Randy Stronks	4/2/2013	Esc BMP 's in place. Self contained
P 2003	Centre Ct. Addn	Construction Inspection	Randy Stronks	4/9/2013	Esc BMP 's in place. Self contained
SP 1334	58th Ln.	Construction Inspection	Randy Stronks	4/9/2013	Esc BMP 's in place. Self contained
Sp 1478	Latah Ridge	Construction Inspection	Randy Stronks	4/9/2013	Esc BMP 's in place and operational
Sp 1201	28th Ln.	Construction Inspection	Randy Stronks	4/9/2013	Esc BMP 's in place and operational
B0046	Ordhard Townhomes	Construction Inspection	Randy Stronks	7/22/2013	Esc BMP 's in place. Self contained
B 0048	Moran Church Addn.	Construction Inspection	Randy Stronks	7/22/2013	Esc BMP 's in place. Self contained
B1226	Hayford Custon Storage	Construction Inspection	Randy Stronks	7/24/2013	Esc BMP 's in place. Self contained
B 1219	El Katif Convention	Construction Inspection	Randy Stronks	7/24/2013	Esc BMP 's in place. Self contained
B 1225	Truck Tire & Lube	Construction Inspection	Randy Stronks	7/24/2013	Esc BMP 's in place. Self contained
B 1136	CAT DC-3 Parking	Construction Inspection	Randy Stronks	7/24/2013	Esc BMP 's in place. Self contained
B 1308	Country Store	Construction Inspection	Randy Stronks	7/29/2013	Esc BMP 's in place. Self contained
B 1237	Parking Expantion	Construction Inspection	Randy Stronks	7/29/2013	Esc BMP 's in place. Self contained
B 1123	Gallagher Office/Retail	Construction Inspection	Randy Stronks	7/29/2013	Esc BMP 's in place. Self contained
B 1243	Handcock Fabrics Salon	Construction Inspection	Randy Stronks	7/29/2013	Esc BMP 's in place. Self contained
F 0138	Addusib Entry Gates	Construction Inspection	Randy Stronks	7/30/2013	Esc BMP 's in place. Self contained

Swale inspections

Permit Number	Inspection Date	Parcel	Address	Spokane	Inspection results
EN-12-0377	03/18/2013	37294.3608	716 E ERICA CT	SPOKANE	APP
EN-12-0291	04/03/2013	56332.0103	20305 E HAPPY TR/	OTIS ORCHARDS	APP
EN-12-0735	04/25/2013	37341.1704	4215 E MOODY LN	MEAD	PART APP
EN-12-0735	05/08/2013	37341.1704	4215 E MOODY LN	MEAD	APP
EN-12-0644	05/23/2013	35262.1013	1617 S LLOYD LN	SPOKANE	APP
EN-12-0659	07/02/2013	35263.0602	4417 E 22ND AVE	SPOKANE	APP
EN-12-0725	07/02/2013	55201.1303	25 S CAVALIER LN	GREENACRES	APP
EN-12-0856	07/02/2013	24041.0610	4407 S MACK RD	SPOKANE	APP
EN-13-0013	07/02/2013	24041.0509	4514 S MACK RD	SPOKANE	APP
EN-13-0085	07/02/2013	35263.0505	2206 S MORRILL CT	SPOKANE	APP
EN-12-0784	07/02/2013	24041.0406	4506 S CARNATION	SPOKANE	APP
EN-12-0890	07/02/2013	24041.0407	4510 S CARNATION	SPOKANE	APP
EN-12-0346	07/02/2013	24041.0409	4520 S CARNATION	SPOKANE	APP
EN-12-0498	07/02/2013	24041.0602	4507 S MACK RD	SPOKANE	APP
EN-12-0100	07/09/2013	26144.1002	3116 W PRAIRIE BF	SPOKANE	APP
EN-12-0612	07/10/2013	26144.1019	9515 N PRESCOTT	SPOKANE	APP
EN-12-0829	07/22/2013	26124.1718	11522 N LLOYD CH/	SPOKANE	APP
EN-13-0070	08/05/2013	56332.0413	20412 E HAPPY TR/	OTIS ORCHARDS	COR REQ
EN-12-0300	08/05/2013	34282.4616	11601 S HOOT OWL	SPOKANE	APP
EN-12-0490	08/05/2013	24134.0403	9409 S DAYSTAR LI	SPOKANE	APP
EN-13-0279	08/06/2013	56332.0206	20623 E HAPPY TR/	OTIS ORCHARDS	COR REQ
EN-12-0512	08/12/2013	55201.1306	111 S CAVALIER LN	GREENACRES	APP
EN-13-0070	08/27/2013	56332.0413	20412 E HAPPY TR/	OTIS ORCHARDS	COR REQ
EN-13-0070	08/28/2013	56332.0413	20412 E HAPPY TR/	OTIS ORCHARDS	COR REQ
EN-13-0070	08/28/2013	56332.0413	20412 E HAPPY TR/	OTIS ORCHARDS	COR REQ
EN-13-0178	09/25/2013	26144.1112	3105 W PRAIRIE BF	SPOKANE	APP
EN-12-0214	09/25/2013	26144.1301	9523 N DORSET RD	SPOKANE	APP
EN-12-0410	09/25/2013	26144.1010	3214 W PRAIRIE BF	SPOKANE	APP
EN-12-0625	09/25/2013	26144.1304	9607 N DORSET RD	SPOKANE	APP
EN-13-0271	09/25/2013	37203.2901	525 E PARKER DR	SPOKANE	APP
EN-13-0077	10/02/2013	26144.0905	9704 N CLAIRE CT	SPOKANE	COR REQ
EN-12-0610	10/02/2013	24041.0601	4515 S MACK RD	SPOKANE	COR REQ
EN-12-0552	10/02/2013	24041.0401	4404 S CARNATION	SPOKANE	COR REQ
EN-13-0070	11/14/2013	56332.0413	20412 E HAPPY TR/	OTIS ORCHARDS	APP
EN-13-0598	11/19/2013	36051.0318	828 E LAKEVIEW LN	SPOKANE	APP

+ 17 site inspections

Note! = All projects have a stormwater element.

Submittal Log

File No.	Project Name	Plan Submittal / Action	Reviewer	Date In	Date Due	Date Out	Time
P1958	Pasadena Meadows	Plan Time Extension	Gary	1/1/2013	1/8/2013	1/2/2013	1
PREAP1300014	SDA Upper Columbia Academy Shop	Pre-Application	Gary	1/2/2013	1/8/2013	1/8/2013	N/A
B1301	Equine Hospital Canopy	Site/Drainage	Gary	1/3/2013	1/10/2013	1/4/2013	1
SP1569	Hall Short Plat	Preliminary	Gary	1/7/2013	1/18/2013	1/9/2013	2
P-2003A	Centre Court 1st Add.	Performance Surety	Gary	1/8/2013	ASAP	1/16/2013	N/A
SP1530-1533	Gehring Family Trust	4	Gary	1/9/2013	1/16/2013	1/9/2013	0
P1559B	Pillar Rock, 2nd Addition	Final Plat	Gary	1/9/2013	1/16/2013	1/9/2013	0
SP1568	Heitman Short Plat	Preliminary	Gary	1/9/2013	1/24/2013	1/10/2013	1
PREAP1300001	Whitworth U Security Office (COU)	Pre-Application	Gary	1/9/2013	1/24/2013	1/24/2013	N/A
P1959C	Pillar Rock Estates, 3rd Addition	Mylars	Gary	1/9/2013	ASAP	1/10/2013	1
SP1530-1533	Gehring Family Trust	Mylars	Gary	1/11/2013	1/18/2013	1/11/2013	0
P2029	West Terrace 4th Add. PUD	Construction Qtys.	Gary	1/10/2013	ASAP	1/11/2013	1
SP1569	Hall Short Plat	Preliminary	Gary	1/18/2013	1/18/2013	1/18/2013	0
B1234	SDA Spangle Academy Renovations.	Storm 2	Gary	1/22/2013	1/29/2013	1/23/2013	1
B1224	Whitworth Merkel Field - Bleachers (Ph.	Site Plan	Gary	1/23/2013	1/30/2013	1/23/2013	0
Z1200032CUP2	Slavic Baptist Church	2nd CUP Comments	Gary	1/25/2013	2/1/2013	1/30/2013	EST
P-1639A	Inverness PUD Alteration	Altered Final Plat	Gary	1/29/2013	2/12/2013	1/30/2013	1
	Perry, LLC Mini-Storage (Bldg. 2)	Pre-Application	Gary	1/29/2013	2/5/2013		
SP1565	Mondovi, LLC Short Plat	Final Plat	Gary	1/30/2013	1/13/2013	1/31/2013	1
PREAP1300004	Thorpe & Grove Warehouse Shell	Pre-Application	Gary	1/30/2013	2/12/2013	2/12/2013	N/A
B1238	Palouse Hills Apartments	Road & Storm 1	Gary	2/1/2013	2/15/2013	2/12/2013	EST
P1779B	Meadowview Terrace Creek Crossings	Revised Plans	Gary	2/5/2013	2/19/2013	2/20/2013	NAR
P1942B	Bidwell Estates 2nd Add.	1	Gary	2/5/2013	2/19/2013	2/20/2013	15
B1305	URM Warehouse Expansion	Storm 1	Gary	2/6/2013	2/20/2013	2/13/2013	7
B1234	SDA Upper Columbia Academy Cafeteri	Storm 3	Gary	2/6/2013	2/20/2013	2/7/2013	1
SP1346	Fruitvale North	Road 1	Gary	2/8/2013	2/15/2013	2/13/2013	5
SP1570	Turning Point Open Bible Church	Preliminary	Gary	2/11/2013	2/25/2013	2/14/2013	3
B1210	STCU @ Cedar Canyon	Certification	Gary	2/11/2013	ASAP	2/12/2013	1
B1307	B.F. Goodrich Wet Scrubber Encl.	Application	Gary	2/11/2013	2/18/2013	2/14/2013	3
B1306	McDonald's @ Wandermere	Pre-Application	Gary	2/12/2013	2/21/2013	2/21/2013	N/A
P1953A	Windsor Ridge Ph. 2A	Revised Plans	Gary	2/14/2013	ASAP	3/20/2013	1
PREAP1300007	Country Store (COU)	Pre-Application	Gary	2/15/2013	2/26/2013	N/A	
P1906	Trickle Creek Mass Grading	Grading 1	Gary	2/20/2013	3/6/2013	2/28/2013	8
P1959B	Pillar Rock Estates, 2nd Add.	Performance Surety	Gary	2/21/2013	ASAP	2/22/2013	1
P1959B	Pillar Rock Estates, 2nd Add.	Final Plat	Gary	2/25/2013	ASAP	2/27/2013	2
F0136	RCS/CAT/Peirone SD Line	Certification	Gary	2/27/2013	ASAP	2/27/2013	0

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File No.	Project Name	Plan Submittal / Action	Reviewer	Date In	Date Due	Date Out	Time
P2027	Granite Hill Addition	Modified Preliminary Plat	Gary	2/27/2013	3/13/2013	3/5/2013	2
TBD	Johanna Beverage Parking Exp.	Pre-Design	Gary	2/27/2013	3/5/2013	3/5/2013	N/A
PREAP1300008	Moran Prairie ES Parking/Bus Mod.	Pre-Application	Gary	2/27/2013	3/5/2013	3/5/2013	N/A
PREAP1300009	North Pointe RV Park	Pre-Application	Gary	2/27/2013	3/7/2013	3/7/2013	N/A
B1310	North Pointe RV Park	Storm 1	Gary	3/7/2013	3/14/2013	3/8/2013	1
P1955B	Elk Ridge Heights - 2nd Alteration	Final Plat	Gary	3/4/2013	3/18/2013	3/5/2013	1
River Run(COS)	Government Way Improvements	Pre-Design	Gary		3/14/2013		
P1779B	Meadowview Terrace Creek Crossings	Revised Plans	Gary	3/11/2013	3/26/2013	3/26/2013	1
P1399A	Marotto's Lane	LOC Release Request	Gary	3/14/2013	ASAP	3/21/2013	7
P2029	West Terrace 4th Add. PUD	Lot Plans	Gary	3/15/2013	ASAP	3/15/2013	0
B1243	Hancock Fabrics TI (Parking Exp.)	Revised Site Plan	Gary	3/22/2013	TBD	3/29/2013	N/A
P1942B	Bidwell Estates 2nd Add.	2	Gary	3/25/2013	4/1/2013	3/27/2013	EST
SP1530-1533	Gehring Lane	Plan Addendum	Gary	3/26/2013	4/2/2013	3/27/2013	1
B1308	Country Store (COU)	Storm 1	Gary	3/26/2013	4/2/2013	3/27/2013	1
B1218	Fairwood Village Memory Care	Storm 1	Gary	3/26/2013	4/2/2013	3/28/2013	2
P1942B	Bidwell Estates 2nd Add.	3	Gary	3/29/2013	ASAP	3/29/2013	0
B1312	Life Center North - Parking Exp.	Storm 1	Gary	4/1/2013	4/8/2013	4/2/2013	1
B1311	55th & Regal Retail Shell	Pre-Application	Gary	4/2/2013	4/9/2013	4/9/2013	N/A
P1942B	Bidwell Estates 2nd Add.	Mylars	Gary	4/3/2013	ASAP	4/4/2013	1
P1942B	Bidwell Estates 2nd Add.	Final Plat	Gary	4/4/2013	4/11/2013	4/5/3013	1
B1304	Thorpe & Grove Warehouse Shell	Grading/SEPA	Gary	4/11/2013	4/25/2013	4/11/2013	0
PREAP1300011	Turner Lawn Care	Pre-Application	Gary	4/4/2013	4/11/2013		
SP1530-1533	Gehring Lane	Construction Release	Greg	4/4/2013	4/11/2013	4/10/2013	
B1238	Ben Burr Apartments	Geotech Add.	Gary	4/5/2013	4/12/2013	4/12/2013	7
B1315	NW Microfilm Ph. 4 Warehouse	Pre-Application	Gary	4/9/2013	4/16/2013		
P2015	Canterbury Bluff Rev. Preliminary	Revised Concept Rpt.	Matt	4/9/2013			
B1220	Matress Firm	Certification	Gary	4/11/2013	ASAP	4/11/2013	0
P1951A	Valley Springs Addition (Ph. 2-4)	Phasing 2	Gary	4/11/2013	4/18/2013	4/17/2013	6
SP1569	Hall Short Plat	Final	Gary	4/11/2013	4/25/2013	4/17/2013	6
F0138	Addison Street Entrance Gates/TA's	1	Gary	4/12/2013	4/19/2013	4/18/2013	6
P1779B	Meadowview Terrace Creek Crossings	Mylars	Gary	TBD			
B1308	Country Store (COU)	Site Plan 2	Gary	4/15/2013	4/22/2013	4/16/2013	1
PREAP1300013	Cheney SD K-8 Classrooms (COU)	Pre-Application	Gary	4/15/2013	4/25/2013	4/25/2013	N/A
PREAP1300014	Valley Bible Church Storage Bldg.	Pre-Application	Gary	4/15/2013	4/23/2013	4/23/2013	N/A
Z1200032CUP2	Slavic Baptist Church	Draft CUP Decision	Gary	4/16/2013	ASAP	4/16/2013	0
P1953A	Windsor Ridge Ph. 2	Mylars	Gary	4/16/2013	ASAP	4/18/2013	

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File No.	Project Name	Plan Submittal / Action	Reviewer	Date In	Date Due	Date Out	Time
P1953A	Windsor Ridge Ph. 2	Final Plat	Gary	4/18/2013	5/2/2013	4/24/2013	6
B1303	Perry LLC Dry Storage Bldg. 2	1	Gary	4/17/2013	4/24/2013	4/19/2013	2
P1951A	Valley Springs Additions	Mylars	Gary	4/19/2013	ASAP	4/19/2013	0
P1951A	Valley Springs Additions	Final Plat	Gary	4/18/2013	5/2/1013	5/1/2013	13
SP1570	Open Bible Church	Final Plat	Gary	4/19/2013	5/1/2013	4/23/2013	4
SP1572	Miller Subdivide	Preliminary Plat	Gary	4/19/2013	5/1/2013	4/24/2013	5
PREAP1300015	Thermo King Northwest	Pre-Application	Gary	4/22/2019	5/9/2013	5/9/2013	N/A
B1309	Moran Prairie ES Parking/Bus Mod.	Concept 1	Gary	4/22/2013	5/6/2013	4/24/2013	2
B1304	Thorpe & Grove Warehouse Shell	Grading 2	Gary	4/23/2013	4/30/2013	4/23/2013	0
CUE-02-13	Commercial Zip Lines	Tech Review Mtg.	Gary	4/23/2013	5/2/2013	4/30/2013	7
B1238	Palouse Hills Apartments	2	Gary	4/24/2013	5/1/2013	4/30/2013	6
SP1571	McCloskey MFR	Preliminary	Gary	4/24/2013	5/8/2013	4/25/2013	1
F0138	Addison Street Entrance Gates/TA's	2	Gary	4/25/2013	5/2/2013	4/26/2013	1
P2029	West Terrace 4th Add. PUD	Revised Thomas Mallen	Gary	4/25/2013	5/2/2013	4/26/2013	1
P1947	Matties Addition - Woodland Estates	Modified Final Plat	Gary	4/30/2013	5/13/2013	5/8/2013	8
TBD	B.F. Goodrich	Pre-Design Mtg.	Gary/Matt		5/1/2013		
F0137	Cottages @ River Run, PUD (COS)	Government Way 1	Gary	4/30/2013	5/7/2013	5/7/2013	7
B1305	URM Warehouse Expansion	Storm 2	Gary	4/30/2013	5/7/2013	5/1/2013	1
B1238	Palouse Hills Apartments	Design Deviation	Gary	4/30/2013	5/21/2013	5/17/2013	17
PREAP1300016	Smart Gardens Nursery Addition	Pre-Application	Gary	5/3/2013	5/14/2013	5/14/2013	
B1309	Moran Prairie ES Parking/Bus Mod.	Concept 2	Gary	5/1/2013	5/8/2013		1
B1132	Brooklyn Iron Works - Fab Addition	Certification	Gary	5/2/2013	ASAP	5/3/2013	1
B1319	Mac's Retail Bldg. Ste. B Addition	Pre-Application	Gary	5/6/2013	5/13/2013	5/7/2013	1
PREAP1300017	Odom Corporation Warehouse	Pre-Application	Gary	5/8/2013	5/16/2013	5/16/2013	N/A
F0138	Addison Street Entry Gates &/T/A's	Mylars	Gary	5/8/2013	ASAP	5/8/2013	0
B1306	McDonald's @ Wandermere	Storm 1	Gary	5/9/2013	5/16/2013	5/10/2013	1
B1303	Perry LLC Dry Storage Bldg. 2	E-2	Gary	5/9/2013	5/16/2013	5/10/2013	1
B1303	Perry LLC Dry Storage Bldg. 2	E-3	Gary	5/15/2013	6/1/2013	5/16/2013	1
P1947	Matties Addition - Woodland Estates	Modified Final Plat	Gary	5/14/2013	5/21/2013	5/17/2013	3
P1829	Poindexter Park	EOT	Gary	5/14/2013	5/28/2013	5/31/2013	17
PREAP1300018	Utility Trailers Repair & Parts	Pre-Application	Gary	5/16/20013	5/28/2013	5/28/2013	
PREAP1300019	Wemco Aerospace Manufacturing	Pre-Application	Gary	5/17/2013	5/30/2013	5/30/2013	N/A
SP1327A	Altered Short Plat (Copper Ridge)	Final Plat	Gary	5/17/2013	5/30/2013	5/21/2013	4
B1309	Moran Prairie ES Parking/Bus Mod.	Preliminary Plans	Gary	5/20/2013	5/27/2013	5/23/2013	3
P1779D	Twin Bridges 4th Addition	1	Gary	5/21/2013	6/4/2014	6/4/2013	14
PREAP1300020	Green Bluff Micro-Brewery (COU)	Pre-Application	Gary	5/20/2013	5/29/2013	5/29/2013	N/A

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PREAP1300021	Missionary Baptist Church	Pre-Application	Gary	5/21/2013	6/25/2013	6/25/2013	N/A
PREAP1300022	Mullan ES Demo/Add./Mod. (SPS)	Pre-Application	Gary	5/22/2013	5/30/2013	5/31/2013	1
PREAP1300023	Commercial Truck Wash	Pre-Application	Gary	5/24/2013	6/20/2013	6/20/2013	N/A
B1325	Whitworth Hawthorne Offices (COU)	SD Rpt.	Gary	5/22/2013	5/29/2013	5/29/2013	2
SP1566	McIntosh Addition, RCD	Final Plat	Gary	5/23/2013	6/6/2013	5/28/2013	EST
B1309	Moran Prairie ES Parking/Bus Mod.	Updated Plans	Gary	5/27/2013	6/3/2013	5/29/2013	2
B1307	UTC Cooling Tower Pond ReLocate	Storm 1	Gary	5/29/2013	6/12/2013	6/5/2013	7
SP1573	Anderson Subdivide	Preliminary Plat	Gary	5/29/2013	6/12/2013	5/30/2013	1
P2025	Belle Terra Gardens, PUD	Stockpile Grading 1	Gary	5/31/2013	6/13/2013	6/7/2013	7
B1319	Physical Therapy Addition @ Mac's	Site Plan	Gary	6/3/2013	6/10/2013	6/4/2013	1
B1221	Landmark Logistics (Pilot Air)	Certification	Gqry	6/4/2013	ASAP	6/4/2013	0
SP1574	Goodnight Duplex Subdivide	Preliminary Plat	Gary	6/4/2014	6/18/2013	6/6/2013	2
P1990	Pleasant Prairie Estates	Drainage Language	Gary	6/6/2013	ASAP	6/6/2013	0
B1307	UTC Cooling Tower Pond ReLocate	Storm 2	Gary	6/7/2013	6/14/2013	6/7/2013	0
PREAP1300024	Trans-Systems Employee Parking	Pre-Application	Gary	6/10/2013	6/20/2013	6/20/2013	N/A
ZW-10-02	Key Rock Quarry/Plant (Knife River)	Preliminary Plans	Gary	6/10/2013	6/17/2013	6/14/2013	4
B1325	Whitworth Hawthorne Offices (COU)	Storm 2	Gary	6/12/2013	6/19/2013	6/12/2013	
B1321	Odom Corporation Warehouse	Rough Grading 1	Gary	6/12/2013	6/19/2013	6/13/2013	1
P1947	Matties Add. - Woodland Est.	Surety Estimate	Gary	6/14/2013	6/21/2013	6/21/2013	7
SP1572	Miller Subdivide	Final Plat	Gary	6/13/2013	6/27/2013	6/18/2013	5
SP1571	Chatham & Mayfair MFR	Final Plat	Gary	6/17/2013	7/1/2013	6/18/2013	1
PREAP1300025	Frozen Food Distribution Ctr.	Pre-Application	Gary	6/17/2013	6/25/2013	6/26/2013	1
P2025	Belle Terra Gardens, PUD	Revised Grading	Gary	6/17/2013	6/24/2013	6/19/2013	2
B1323	Wemco Manufacturing	Rough Grading	Gary	6/18/2013	7/3/2013	6/20/2013	2
B1309	Moran Prairie ES Parking/Bus Mod.	Final Plans	Gary	6/19/2013	6/26/2013	6/20/2013	1
P1779D	Twin Bridges 4th Addition	2	Gary	6/19/2013	6/26/2013	6/21/2013	2
P1779A	Barker Road (shouldered)	Revised Road Plans	Gary	6/19/2013	N/A		
B1312	Haghighi Commercial Center	Final Storm 1	Gary	6/25/2013	7/9/2013	7/2/2013	7
B1321	Odom Corporation Warehouse	Grading 2	Gary	6/26/2013	7/3/2013	6/27/2013	1
B1321	Odom Corporation Warehouse	Rough Grading	Gary	6/26/2013	N/A	6/28/2013	2
B1309	Moran Prairie ES Parking/Bus Mod.	Yale Easement	Gary	6/26/2013	7/3/2013	6/28/2013	2
P1906B	Trickle Creek 2nd Add.	Modified Preliminary Plat	Gary	6/27/2013	7/11/2013		
B1322	Utility Trailers Repair & Parts	Road & Storm 1	Gary	6/28/2013	7/19/2013	7/16/2013	18
B1328	Commercial Truck Wash	Site Plan	Gary	6/28/2013	7/12/1013	7/2/2013	4
B1306	McDonald's @ Wandermere	Storm 2	Gary	7/1/2013	7/8/2013	7/2/2013	1
B1323	Wemco Manufacturing	Grading/F&F Permits	Gary	7/1/2013	7/15/2013	7/9/2013	8

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B1323	Wemco Manufacturing	Road & Storm 1	Gary	7/1/2013	N/A	8/1/2013	
B1318	Thermo King Northwest	Grading 1	Gary	7/2/2013	7/16/2013	7/10/2013	8
B1235	Wandermere Glenn Apartments	Road & Storm 1	Gary	7/8/2013	7/15/2013	7/11/2013	3
P1997	The Creek at Chester	Modified Preliminary Plat	Gary	7/2/2013	7/16/2013	7/11/2013	EST
ZW-10-02	Key Rock Quarry/Plant (Knife River)	Revised Comments	Gary	7/2/2013	ASAP	7/3/2013	1
P1866	Riverbluff Ranch	EOT	Gary	7/2/2013	7/16/2013	7/19/2013	0
P1779D	Twin Bridges, 4th Add.	Mylars	Gary	7/3/2013	ASAP	7/9/2013	6
P1779D	Twin Bridges, 4th Add.	Final Plat	Gary	7/3/2013	7/17/2013	7/10/2013	7
B1312	Haghighi Commercial Center	Grading Permit	Gary	7/8/2013	ASAP	7/9/2013	1
B1331	Johanna Beverage Expansion	PREAP1300026	Gary	7/11/2013	7/18/2013	7/18/2013	N/A
PRR071113	Sarsfield Historic (Albrecht)	Public Records Request	Gary	7/11/2013	7/18/2013	7/12/2013	1
B1135	Holly Elementary School (CSD)	Certification	Gary	7/3/2013	7/19/2013	7/19/2013	EST
P2027	Granite Hill Addition	1	Gary	7/12/2013	7/26/2013	7/23/2013	9
B1332	Subway Office Relocate	PREAP130027	Gary	7/12/2013	7/18/2013	7/18/2013	N/A
B1107	Riverside SP - ORV Trails	Site/Drainage	Gary	7/15/2013	7/22/2013	7/16/2013	1
B1318	ThermoKing Northwest	Road & Storm 1	Gary	7/17/2013	7/31/2013	7/26/2013	9
B1305	URM Warehouse Expansion	Field Changes	Gary	7/23/2013	ASAP	7/25/2013	2
P1786	Stone Horse Bluff PUD- Ph. 2	Final Plat	Gary	7/23/2013	8/6/2013	8/7/2013	15
P1786	Stone Horse Bluff PUD- Ph. 2	Final Plat	Gary	7/23/2013	8/6/2013	8/7/2013	15
B1333	Greenacres Nursery - Greenhouse	PREAP1300029	Gary	7/24/2013	7/30/2013	7/30/2013	
B1334	Smart C-Store/Gas Station/Retail	PREAP1300030	Gary	7/24/2013	8/1/2013		
TUS-01-13	Black Properties Stockpiling	Tech Review/Staff Rpt.	Gary	7/24/2013	8/5/2013	8/2/2013	9
CUS-03-13	Verizon Moran Cell Tower	Tech Review/Staff Rpt.	Gary	7/24/2013	8/15/2013	8/7/2013	14
B1312	Haghighi Commercial Center	Design Storm 2	Gary	7/29/2013	8/5/2013	7/31/2013	2
SP1563	Spilker Short Plat (Graves & Wall)	Final Plat	Gary	7/30/2013	8/13/2013	8/1/2013	2
F-0139	Penners Lane (Ristau)	Road 1	Gary	7/31/2013	8/13/2013	8/8/2013	8
F-0139	Penners Lane (Ristau)	Design Deviation	Gary	7/31/2013	8/21/2013	8/16/2013	17
B1335	Avista Nine Mile Dam Warehouse	PREAP1300031	Gary	7/31/2013	8/8/2013		
P1949B	Remington Hill 3 Highlands 2nd Add.	Final Plat	Gary	8/1/2013	8/14/2013	8/9/2013	8
B1322	Utility Trailers Repair & Parts	Design Deviation	Gary	8/1/2013	8/15/2013	8/8/2013	7
B1318	ThermoKing Northwest	Site Plan	Gary	8/5/2013	N/A	N/A	N/A
P2033	The Estates at Ruddell	Preliminary Plat	Gary	8/5/2013	8/15/2013	8/9/2013	4
B1336	AT&T Five Mile Prairie Tower Mod.	Site Plans	Gary	8/5/2013	8/12/2013	8/6/2013	EST
B1318	ThermoKing Northwest	Geotech Add.	Gary	8/5/2013	N/A	N/A	N/A
B1322	Utility Trailers Repair & Parts	Road & Storm 2	Gary	8/6/2013	8/20/2013	8/16/2013	10
P1947	Matties 1st Addition	Final Plat	Gary	8/7/2013	N/A		

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P1997	The Creek at Chester	Final Plat	Gary	8/1/2013	8/22/2013	8/21/2013	EST
B1337	Knopp Spec Retail Shell (8 Suites)	PREAP1300033	Gary	8/8/2013	8/15/2013	8/15/2013	N/A
P1962D	Morningside Heights, 7th Add.	Revised Pond/Chapman	Gary	8/9/2013	8/23/2013	8/15/2013	6
B1321	Odom Corporation Warehouse	Design 1	Gary	8/12/2013	9/2/2013	9/4/2013	23
P2027	Granite Hill Addition	2	Gary	8/13/2013	8/27/2013	8/14/2013	1
B1331	Johanna Beverage Expansion	Storm 1	Gary	8/15/2013	8/28/2013	8/20/2013	5
SP1562	Fruitvale	Bond Estimate	Gary	8/19/2013	ASAP	8/20/2013	1
P1989	Clark's Place	Street Plan Time Extension	Gary	8/18/2013	ASAP	8/20/1013	1
P2027	Granite Hill Addition	Mylars	Gary	8/20/2013	ASAP	8/20/2013	0
P2027	Granite Hill Addition	Drainage Language	Gary	8/20/2013	8/27/2013	8/21/2013	1
P1962D	Morningside Heights, 7th Add.	Mylars	Gary	8/21/2013	ASAP	8/23/2013	2
B1338	Mead Stem Academy	PREAP1300034	Gary	8/22/2013	8/29/2013	8/29/2013	N/A
P2000	Ponderosa View	Rough Grading	Gary	8/23/2013	ASAP	8/23/2013	0
P2027	The Creek at Chester	O & M Manual	Gary	8/26/2013	N/A	N/A	N/A
P1997	The Creek at Chester	Design Changes	Gary	8/26/2013	ASAP	8/28/2013	2
F-140	Rosedale Addition	Carnahan Ln. 1	Gary	8/26/2013	ASAP	8/28/2013	2
P1942B	Bidwell Estates 2nd Add.	Geotech Add.	Gary	8/26/2013	ASAP	9/6/2013	N/A
F-140	Rosedale Addition	Design Questions	Gary	8/29/2013	N/A	8/29/2013	0
B1334	Bigelow Junction	Storm 1	Gary	8/29/2013	9/5/2013	8/30/2013	1
B1333	Greenacres Nursery - Ag. Bldg.	Site Plan	Gary	8/28/2013	9/11/2013	9/11/2013	14
B1339	Duplex to Triplex + Triplex	PREAP1300036	Gary	8/29/2013	9/19/2013	9/19/2013	N/A
B1340	Rental Equipment - Pole Bldg.	PREAP1300037	Gary	9/3/2013	9/24/2013	9/24/2013	N/A
B1345	Discount Lumber Truss Bldg.	PREAP1300041	Gary	9/3/2013	9/24/2013	9/24/2013	N/A
B1341	Nine Mile Falls Church Addition	PREAP1300035	Gary	9/3/2013	9/19/2013	9/19/2013	N/A
B1343	Riverside SP - Event Ctr.	PREAP1300038	Gary	9/10/2013	9/26/2013	9/27/2013	1
B1322	Utility Trailers Repair & Parts	Road & Storm 3	Gary	9/3/2013	9/10/2013	9/5/2013	2
F-0139	Penners Lane (Ristau)	Mylars	Gary	9/3/2013	9/11/2013	9/4/2013	1
SP1576	Central Valley School Distict	Preliminary SP	Gary	9/3/2013	9/17/2013	9/5/2013	2
B1318	ThermoKing Northwest	2	Gary	9/5/2013	9/19/2013	9/6/2013	1
B1322	Utility Trailers Repair & Parts	Road & Storm 4	Gary	9/6/2013	ASAP	9/6/2013	
F-140	Rosedale Addition	Carnahan Ln. 2	Gary	9/6/2013	9/13/2013	9/10/2013	4
B1320	Millwood Presbyterian Community Ctr.	Storm 1	Gary	9/6/2013	9/13/2013	9/11/2013	5
P1953A	Windsor Estates, 1st Addition	Final Plat	Gary	9/6/2013	9/13/2013	9/12/2013	6
P2035	Whitetail Ridge 1st Addition	Tech Review Mtg.	Gary	9/9/2013	9/19/2013	9/17/2013	8
P1811A	Prairie Breeze 1st Addition	1	Gary	9/10/2013	9/17/2013	9/13/2013	3
P1811A	Prairie Breeze 1st Addition	Final Plat	Gary	9/12/2013	9/26/2013	9/25/2013	13

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SP1575	McCowan Short Plat	Preliminary Plat	Gary	9/10/2013	9/24/2013	9/20/2013	10
B1320	Smart Gardens Nursery Addition	Site Plan 1	Gary	9/10/2013	9/17/2013	9/11/2013	1
B1318	ThermoKing Northwest	3	Gary	9/11/2013	ASAP	9/11/2013	0
CUE-03-13	Verizon Moran Cell Tower	Public Hearing	Gary	9/11/2013	9/27/2013	9/26/2013	15
P1962E	Northwest Vistas @ MSH	Surety Estimate	Gary	9/12/2013	9/19/2013	9/13/2013	1
B1344	Wonderland Zip-Line	Application	Gary	9/12/2013	9/19/2013	9/18/2013	6
F-0141	Lawson Driveway	Grading 1	Gary	9/16/2013	9/23/2013	9/20/2013	4
P1811A	Prairie Breeze 1st Addition	2	Gary	9/16/2013	ASAP	9/17/2013	1
P2035	Whitetail Ridge 1st Addition	Concept 1	Gary	9/17/2013	10/1/2013	9/27/2013	10
P2036	Trickle Creed 3rd & 4th Adds.	Preliminary	Gary	9/13/2013	9/26/2013	9/26/2013	13
P2037	Twisted Willows	Preliminary	Gary	9/13/2013	10/10/2013	10/2/2013	19
P1953A	Windsor Estates, Ph. 2	Final Plat 2	Gary	9/18/2013	10/2/2013	9/27/2013	
SP1577	Jarvis Short Plat	Preliminary	Gary	9/18/2013	10/2/2013	9/27/2013	9
P2034	Thomas Mallen PUD	Preliminary	Gary	9/19/2013	10/3/2013	10/1/2013	12
B1333	Greenacres Nursery Ag. Bldg.	Site Plan 2	Gary	9/18/2013	9/25/2013	9/19/2013	2
B1331	Johanna Beverage Expansion	Storm 2	Gary	9/19/2013	10/3/2013	9/25/2013	6
B1321	Odom Corporation Warehouse	Design 2	Gary	9/19/2013	10/3/2013	10/3/2013	14
B1333	Greenacres Nursery Ag. Bldg.	Site Plan 3	Gary	9/20/2013	9/27/2013	9/24/2012	4
B1323	Wemco Manufacturing	Road & Storm 2	Gary	9/23/2013	10/7/2013	10/2/2013	9
B1333	Greenacres Nursery Ag. Bldg.	ROW Deed	Gary	9/24/2013	ASAP	9/25/2013	1
P1962C	MSH #7	Surety Estimate	Gary	9/12/2013	TBD		
	MSH #7	Revised Plans	Gary	9/23/2013	9/30/2013	9/25/2013	2
B1346	Whitworth U Paint Storage Add.	PREAP1300040	Gary	9/19/2013	10/3/2013	10/3/2013	
P1949B	Remington Hill 3 Highlands 2nd Add	Final	Gary	9/25/2013	ASAP	9/26/2013	1
P1962E	Northwest Vistas	Final	Gary	9/26/2013	ASAP	9/27/2013	1
P1906B	Trickle Creek PUD, 2nd Add.	1	Gary	9/25/2013	10/16/2013	10/11/2013	16
P1942A	Bidwell Estates, 1st Add.	Revised Plans	Gary	9/25/2013	10/2/2013	10/1/2013	6
B1138	Bigelow Chapel (COU)	Certification	Gary	9/30/2013	ASAP	10/1/2013	1
B1309	Moran Prairie ES - Modifications	Certification	Gary	9/30/2013	ASAP	10/3/2013	3
F-0137	River Run MFR (COS)	Government Way 2	Gary	9/30/2013	10/14/2013	10/3/2013	3
B1338	Mead Riverpoint Academy	Site Plan	Gary	9/30/2013	10/7/2013	10/1/2013	1
SP1575	McCowan Short Plat	Staff Report	Gary	10/2/2013	ASAP	10/2/2013	0
F-0143	Happy Hills, LLC - SFR Driveway	Grading 1	Gary	10/3/2013	10/17/2013	10/8/2013	5
F-0141	Lawson Driveway	Grading 2	Gary	10/4/2013	10/11/2013	10/8/2013	EST
P1942A	Bidwell Estates, 1st Add.	Revised Plans	Gary	10/4/2013	ASAP	10/4/2013	0
F-0142	Hayford & Richland (COS)	Sewer Plans 1	Gary	10/4/2013	1018/2013	10/18/2013	14

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P1811A	Prairie Breeze 1st Add.	Drainage Language	Gary	10/7/2013	ASAP	10/24/2013	17
P1811A	Prairie Breeze 1st Add.	Mylars	Gary	10/7/2013	ASAP	10/29/2013	22
B1347	UTC Courtyard Bldg.(B.F. Goodrich)	PREAP1300043	Gary	10/8/2013	10/17/2013	10/22/2013	5
B1348	Trans-Systems Wash & Tarping Bay	PREAP1300044	Gary	10/10/2013	10/17/2013	10/23/2013	6
P1938A	Southridge PUD, Ph. 2	Plan Re-Acceptance	Gary	10/10/2013	10/21/2013	10/11/2013	1
N/A	Camp Sekani - Shelter (COS)	Bid Plans	Gary	10/15/2013	10/22/2013	10/18/2013	3
F-0141	Lawson Driveway	Grading 3	Gary	10/16/2013	10/23/2013	10/18/2013	2
B1343	Riverside SP - Parking/Access	Revised Site Plan	Gary	10/17/2013	10/24/2013	10/18/2013	1
B1303	Perry LLC Dry Storage Bldg. 2	Certification	Gary	10/17/2013	TBD	10/24/2013	
B1308	Country Store (COU)	Certification	Gary	10/17/2013	ASAP	10/29/2013	12
CUN-04-13	Verizon Spo-Milan Cell Tower	Staff Report	Gary	10/21/2013	11/4/2013	10/22/2013	1
B1349	JZ Harris Storage Bldg.	PREAP1300045	Gary	10/23/2013	10/31/2013	10/31/2013	0
P1950A	Timberlane Terrace 2nd Add.	1	Gary	10/24/2013	10/31/2013	10/25/2013	1
F-0137	River Run MFR (COS)	Government Way E3	Gary	10/28/2013	11/5/2013	10/29/2013	
B1350	Townsend Greenbluff COU	PREAP1300046	Gary	10/29/2013	TBD		
P1950A	Timberlane Terrace 2nd Add.	2	Gary	10/31/2013	11/6/2013	11/1/2013	EST
B1219	Shriner's El Katif Convention Center	Certification	Gary	11/4/2013	ASAP	11/11/2013	7
P1811A	Prairie Breeze 1st Add.	Revised Lot Plans	Gary	11/4/2013	11/11/2013	11/5/2013	1
P1959C	Pillar Rock Estates 3rd Add.	Fire Access	Gary	11/4/2013	11/11/2013	11/5/2013	1
P1938A	Southridge PUD, Ph. 2	Time Extension	Gary	11/4/2013	ASAP	11/5/2013	1
ZW-10-02	Key Rock Mine (Knife River)	2	Gary	11/4/2013	TBD		
F-0137	River Run MFR (COS)	Government Way 4	Gary	11/6/2013	11/13/2013	11/7/2013	1
P1953A	Windsor Estates Ph. 2A	Revised Nevada St.	Gary	11/8/2013	ASAP	11/12/2013	4
P1962D	Morningside Heights, 7th Add.	Mylars	Gary	11/12/2013	11/19/2013	11/13/2013	1
P1962D	Morningside Heights, 7th Add.	Drainage Language	Gary	11/12/2013	11/19/2013	11/15/2013	3
SP1542	Lancaster Enterprises, LLC	Final Plat	Gary	11/12/2013	ASAP	11/12/2013	0
P1962E	Northwest Vistas	Drainage Language	Gary	11/13/2013	11/21/2013	11/15/2013	2
F-0137	River Run MFR (COS)	Temp. Border Easement	Gary	11/12/2013	11/19/2013	11/14/2013	2
P1784	Moran View Estates	Mylar EOT	Gary	11/14/2013	ASAP	11/15/2013	1
P1950A	Timberlane Terrace 2nd Add.	Drainage Language	Gary	11/14/2013	11/21/2013	11/19/2013	5
F-0137	River Run MFR (COS)	Temp. Border Easement	Gary	11/15/2013	N/A	11/19/2013	4
P1953A	Windsor Estates Ph. 2A	Engineers Estimate	Gary	11/15/2013	11/22/2013	11/19/2013	4
B1323	Wemco Manufacturing	Revised Civil Set	Gary	11/19/2013	ASAP	11/19/2013	0
P1906B	Trickle Creek 2nd Add.	Final Plat	Gary	11/20/2013	12/2/2013	11/26/2013	6
F-0137	River Run MFR (COS)	Mylars	Gary	11/21/2013	11/28/2013	11/22/2013	1
P1953A	Windsor Estates Ph. 2A	Lot Plans	Gary	11/21/2013	11/28/2013	11/21/2013	0

Submittal Log

File No.	Project Name	Plan Submittal / Action	Reviewer	Date In	Date Due	Date Out	Time
F-0142	Hayford & Richland (COS)	Utility 2	Gary	11/21/2013	11/28/2013	11/22/2013	1
B1351	SDA Upper Columbia Academy	PREAP1300047	Gary	11/21/2013	12/3/2013	12/3/2013	N/A
B1352	Harris Tumbling Studio	PREAP1300048	Gary	11/22/2013	12/5/2013	12/5/2013	N/A
B1353	WSDOT Maint. Yd. Swale	Grading Plan	Gary	11/22/2013	12/6/2013	12/4/2013	12
P2034	Thomas Mallen PUD	Concept 1	Gary	11/25/2013	12/11/2013	12/10/2013	15
B1114	Apollo Electric (COU)	Site Plan	Gary	11/15/2013	12/6/2013	12/5/2013	20
P-1951A	Valley Springs Addition	Final Plat	Gary	11/27/2013	12/11/2013	12/10/2013	13
P-1962D	MSH#7	Construction Qtys.	Gary	12/2/2013	12/9/2013	12/3/2013	EST
B1355	Marijuana Grow Park	PREAP1300050	Gary	12/3/2013	12/10/2013	12/11/2013	1
B1354	Cannibus Growing (COU)	PREAP1300049	Gary	12/3/2013	12/10/2013	12/12/2013	2
B1310	North Pointe RV Park	Storm 2	Gary	12/5/2013	12/12/2013	12/5/2013	0
B1310	North Pointe RV Park	Road 1	Gary	12/5/2013	12/12/2013	12/11/2013	6
B1356	South Regal Lumber - Whse./Off.	PREAP1300052	Gary	12/5/2013	12/12/2013	12/12/2013	N/A
B1321	Wemco Manufacturing	Landscape Plan of Record	Gary	12/5/2013	12/12/2013	12/10/3013	5
P1942A	Bidwell Estates, 1st Add.	2nd Revised Plans	Gary	12/12/2013	12/19/2013	12/17/2013	5
P1991	Aspen Park	1	Gary	12/12/2013	1/2/2014	12/27/2013	15
B1310	North Pointe RV Park	Road 2	Gary	12/13/2013	12/20/2013	12/13/2013	0
B1357	Otis Orchards Fire Station Add.	PREAP1300053	Gary	12/12/2013	12/19/2013	12/19/2013	N/A
P1989	Clark's Place	Final Plat	Gary	12/16/2013	12/30/2013	12/20/2013	4
P1942B	Bidwell Estates, 2nd Add.	Const. Qtys.	Gary	12/19/2013	12/26/2013	12/19/2013	0
B1321	Odom Corporation Warehouse	Revised Thorpe	Gary	12/20/2013	12/27/2013	12/23/2013	3
B1358	Timberline Truss	PREAP1300055	Gary	12/23/2013	1/7/2014	1/7/2014	N/A
P2038	Midway Road Plat	Concept 1	Gary	12/24/2013	1/16/2014	12/27/2013	3

Post Construction Stormwater Management for New Development and Redevelopment

Actions - 2013

Post Construction documentation is located within the Construction Site Stormwater Runoff Control section. The Spokane Regional Stormwater Manual (SRSM), adopted by reference within the Spokane County Code, and 2009 amendments to Spokane County Code - Chapter 9.14 provides the stormwater management regulations for new development and redevelopment that meet the requirements of the Phase II Municipal Stormwater Permit.

Spokane County conducts inspections on all new construction and redevelopment sites that exceed the one acre criteria, or are part of an overall development plan when combined exceeds the one acre criteria.

Contents:

1. The Spokane Regional Stormwater Manual (SRSM) is available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/data/engineers/SRSM_Apr08Final/SRSM_April2008Final.pdf

2. Spokane County Code, Spokane County Code, Chapter 9.14, Roads, Approach and Drainage in New Construction, are available on the Spokane County webpage at the link below. A digital or hard copy is available upon request.

   http://www.spokanecounty.org/data/stormwater/npdes/Illicit%20Discharge%20Ordinance_web_20091210.pdf

3. See the "Spokane County Engineering Department – 2013 Permit Status Report" for details. Additional records are also kept within specific development files and are too significant to include within this report. See the Spokane County Engineering and Roads Division for details.

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

NEW CONSTRUCTION

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
No Report Code	0		7	$2,310,842	0		8	$2,598,930
APT -3 STORY OR LESS	0		1	$2,358,085	0		3	$3,259,236
DUPLEX	1	$443,307	14	$6,634,184	0		4	$1,268,950
EDUCATIONAL-PRIVATE	0		0		0		2	$90,923
EDUCATIONAL-PUBLIC	0		0		0		6	$12,547,514
FOURPLEX	0		0		0		1	$694,437
INDUSTRIAL BUILDING	2	$24,096,081	12	$33,101,693	0		10	$44,153,046
MANUFACTURED HOME	0		3	$57,532	0		0	
MECHANICAL	0		1	$3,409	0		0	
MERCANTILE	0		1	$540,961	0		4	$4,261,245
MISC SHELTERS	0		0		0		1	$0
MISCELLANEOUS	1	$0	8	$1,226,192	0		3	$2,798,342
NON-RESIDENTIAL	0		0		0		1	$4,710
OFFICE/PROFESSIONAL	0		0		1	$664,496	5	$2,801,948
PRVT GARAGE/CARPORT	14	$412,584	449	$12,395,249	15	$377,280	460	$11,601,889
PUBLIC UTILITY	0		0		0		1	$0
RECREATION BUILDING	0		0		1	$2,781,902	1	$2,781,902
RELIGIOUS BUILDING	0		2	$1,187,866	0		2	$67,847
RESIDENCE	25	$5,788,230	651	$224,234,640	13	$4,312,855	446	$158,986,558
STRUCTURE	0		0		0		1	$3,454
TANK/PIPING (FUEL)	0		0		0		1	$0
VOID	0		0		0		1	$258,985
Total	43	$30,740,201	1149	$284,050,652	30	$8,136,533	961	$248,179,915

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

ADDITIONS AND ALTERATIONS

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
No Report Code	0	$0	5	$820,219	1	$14,407	6	$723,603
APT -3 STORY OR LESS	0	$0	0	$0	0	$0	2	$220,000
DUPLEX	0	$0	3	$59,995	0	$0	0	$0
EDUCATIONAL-PRIVATE	1	$40,543	5	$151,185	0	$0	1	$144,000
EDUCATIONAL-PUBLIC	0	$0	3	$3,313,410	0	$0	4	$204,500
HOSPITAL/INSTITUTION	0	$0	3	$1,830,803	0	$0	1	$75,000
INDUSTRIAL BUILDING	1	$126,696	4	$213,755	1	$20,000	5	$363,915
MERCANTILE	1	$0	13	$1,508,122	4	$340,000	26	$1,050,969
MISC SHELTERS	0	$0	0	$0	0	$0	2	$62,613
MISCELLANEOUS	0	$0	15	$190,771	1	$37,500	5	$59,000
MOTEL - 3 STORY	0	$0	1	$100,000	0	$0	0	$0
NON-RESIDENTIAL	1	$15,000	2	$3,958,979	0	$0	1	$320,448
OFFICE/PROFESSIONAL	1	$125,583	11	$746,849	2	$131,140	21	$1,842,671
PRVT GARAGE/CARPORT	2	$38,354	69	$697,593	1	$8,640	77	$897,696
RECREATION BUILDING	0	$0	3	$3,165,491	0	$0	2	$10,000
RELIGIOUS BUILDING	0	$0	1	$16,000	0	$0	12	$1,244,528
RELOCATION	0	$0	0	$0	0	$0	1	$29,471
RESIDENCE	9	$151,268	220	$7,996,594	14	$508,687	266	$10,197,245
STRUCTURE	0	$0	3	$100,000	0	$0	1	$0
VOID	0	$0	0	$0	0	$0	2	$195,344
WIRELESS TOWER/ARRAY	0	$0	0	$0	0	$0	1	$0
Total	16	$497,444	361	$24,869,766	24	$1,060,375	436	$17,641,004

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

MISCELLANEOUS PERMITS AND ACTIVITY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	Count	Valuation	Count	Valuation	Count	Valuation	Count	Valuation
No Report Code	0	$0	1	$0	0	$0	0	$0
No Report Code	0	$0	7	$634,874	0	$0	8	$438,634
APT -4 STORY OR MORE	0	$0	0	$0	0	$0	1	$3,500
DEMOLITION	1	$0	41	$0	2	$0	39	$500
EDUCATIONAL-PRIVATE	0	$0	1	$0	0	$0	0	$0
EDUCATIONAL-PUBLIC	0	$0	0	$0	0	$0	4	$191,000
HOSPITAL/INSTITUTION	0	$0	1	$0	0	$0	0	$0
MANUF. HOME REPLACE	0	$0	1	$0	0	$0	3	$0
MANUFACTURED HOME	3	$0	74	$0	2	$0	62	$134,611
MECHANICAL	0	$0	2	$7,423	0	$0	0	$0
MERCANTILE	1	$0	5	$0	0	$0	1	$0
MISCELLANEOUS	12	$0	191	$37,739	6	$8,603	113	$455,704
MODULAR BUILDING	0	$0	0	$0	1	$0	2	$0
PLUMBING	0	$0	1	$0	0	$0	0	$0
PRVT GARAGE/CARPORT	1	$0	14	$29,011	0	$0	6	$0
RELIGIOUS BUILDING	0	$0	1	$0	0	$0	0	$0
RELOCATION	0	$0	0	$0	0	$0	1	$113,921
REPAIR GARAGE	0	$0	1	$0	0	$0	0	$0
RESIDENCE	0	$0	52	$2,805,745	3	$1,039,246	37	$1,575,432
ROOFING	4	$21,349	311	$1,999,836	6	$41,665	307	$2,464,866
SIDING	0	$0	17	$112,182	1	$9,150	22	$203,020
SIGN	2	$0	30	$0	3	$0	41	$0
STRUCTURE	0	$0	7	$108,398	1	$120,000	8	$186,800
SWIMMING POOL	1	$0	23	$20,200	0	$0	28	$156,000
TANK/PIPING (FUEL)	0	$0	3	$0	0	$0	2	$0
TIMBER HARVEST	0	$0	2	$0	0	$0	2	$0

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

VOID	0	$0	0	$0	0	$0	1	$0
WINDOWS	1	$3,221	66	$88,725	2	$4,528	45	$109,622
WIRELESS TOWER/ARRAY	4	$0	37	$574,600	5	$230,000	30	$1,566,233
Total	30	$24,570	889	$6,418,733	32	$1,453,191	763	$7,599,845

Spokane County SmartGov

Building Permit Statistical Details Report

01/01/2013 - 12/31/2013

PERMIT SUMMARY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Additions/Alteration	16	$497,444	361	$24,869,766	24	$1,060,375	436	$17,641,004
Mechanical	82	$0	1369	$0	115	$0	1,580	$0
Miscellaneous	30	$24,570	889	$6,418,733	32	$1,453,191	763	$7,599,845
New Construction	43	$30,740,201	1149	$284,050,652	30	$8,136,533	961	$248,179,915
Plumbing	6	$0	207	$20,547	19	$0	307	$20,000
Total	177	$31,262,215	3975	$315,359,698	220	$10,650,099	4,047	$273,440,764

RESIDENTIAL / COMMERCIAL

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Commercial	14	$24,388,903	218	$57,020,790	24	$4,012,538	327	$79,585,884
Miscellaneous	30	$24,570	885	$6,418,733	38	$1,453,191	773	$7,599,845
Residential	132	$6,773,986	2875	$253,975,825	164	$5,128,016	2,948	$185,369,352
Total	176	$31,187,459	3978	$317,415,348	226	$10,593,745	4,048	$272,555,081

OTHER ACTIVITY

	Current Month 12/31/2013		Report Period 01/01/2013 - 12/31/2013		Same Month Last Year 12/31/2012		Report Period Last Year 1/1/2012 - 12/31/2012	
Report Code	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**	**Count**	**Valuation**
Engineers	34	$0	770	$0	39	$0	789	$0
Sewer	53	$0	2164	$0	54	$0	1,813	$0
Total	87	$0	2934	$0	93	$0	2,602	$0

Pollution Prevention and Good Housekeeping for Municipal Operations - Documentation

Actions - 2013

The O & M Plan for "Good Housekeeping" will primarily be a documentation of existing activities and recommendation/implementation of necessary modifications to reduce pollutants.

In 2009, the Stormwater staff held meetings with various Spokane County agencies regarding the Phase II permit and its relevant requirements and implications for municipal operations. See the attached Action Tracking Sheet for 2009 for all O& M related activities.

In 2009, Spokane County developed a Neighborhood Drainage Assistance Program (NDAP). The NDAP was established to implement and fund residential neighborhood stormwater quality improvement projects. Spokane County addressed three NDAP water quality issues in 2009 through the Neighborhood Drainage Assistance Program; the Turtle Creek Project, the Ashton Heights Project and the Vista Grande Project. See attached photos for details.

In 2009, Spokane County met with the Liberty lake Sewer and Water District, as well as with the Alpine Shores Homeowner's Association regarding two stormwater outfalls to Liberty Lake from Shoreline Drive. A potential solution is being investigated for possible future implementation under the NDAP.

In 2009, Spokane County investigated a potential outfall to the Spokane River at the end of Ella Road. County staff dug an exploration pit above the outfall, investigated a potential property acquisition for a stormwater infiltration area and spoke with numerous neighbors about the history of stormwater runoff in the area. The situation is being assessed and potential solution is being investigated under the NDAP.

In 2009, Spokane County began developing an O&M Plan for Municipal Operations. In 2010 the Stormwater O&M Plan was completed. The O&M Plan is an extensive document and is therefore not included within this Annual Report, but is available at the Stormwater Utility Office upon request.

In 2010, Spokane County completed two NDAP projects: 46th & Sumac - decommissioned 4 drywells and piped stormwater into the newly constructed Brown Mountain pond; and 57th from Dearborn to Custer - tied into existing catch basin at Yale and 57th which conveys the stormwater water to a natural treatment pond system.

O&M Plan based work activities in 2010 and 2011 focused on conducting stormwater related assessments for various County activities, properties and facilities. Field supervisors participated in conducting the assessments and were trained about stormwater pollution prevention. Upon completion of the initial field assessments, additional training of field crews was conducted in 2012. The 2010 O&M Plan Field Work Summary is detailed within the "O&M Field Assessment Summary". This is an extensive working file that is available

for review at the Stormwater Utility office. Summary sheets from each of the O&M categories are included within this annual report.

In 2010, GPS tracking units were placed on street sweepers. Data collection protocol is currently being evaluated and developed.

In 2012/13, O&M operations were conducted consistent with the Spokane County O&M Plan.

Spokane County Engineering & Roads, Maintenance Section currently maintains 380 lineal miles of County Roads within the Phase II jurisdiction. The estimated annual cost to maintain the County Roads averages approximately $6,300/mile.

The Spokane Regional Stormwater Manual (SRSM), Chapter 11, Maintenance, Tracts and Easements, addresses maintenance of stormwater facilities. The SRSM is available on the Spokane County webpage at:

http://www.spokanecounty.org/data/engineers/SRSM_Apr08Final/SRSM_April2008Final.pdf

In 2011, Spokane County conducted a stormwater maintenance project in the Legendary Hills areas that replaced a failing stormwater pipe and added water quality treatment. See Pollution Prevention/Good Housekeeping – Actions for more details.

In 2011-13, Spokane County conducted a multiple site evaluation, determined the most feasible location and began the design process to develop a regional decant facility within the north Spokane area in coordination with the City of Spokane and the Washington State Department of Transportation. Spokane County applied for a grant through the department of Ecology and received funding to develop a decant facility. That facility is currently under development and is planned to be constructed in 2014 or early 2015.

Contents:

1. See attached Neighborhood Drainage Assistance Program (NDAP).

2. Neighborhood Drainage Assistance Projects (NDAP); Turtle Creek, Ashton Heights, Vista Grande, Legendary Hills (photos in previous annual report). NDAP projects 2012 include Wall-Waikiki-Mill Drainage Improvements, Mountain View Drainage Improvements, Perry Street Drainage Improvements (see file for additional details). NDAP projects in 2013 include: Market Street roadside water quality improvement swale; Mountain View r-o-w drainage problem improvement; Five Mile drainage problem improvement.

3. See "2013 Site Inspections" sheet for inspections conducted. Detailed inspection reports are available at the Engineering & Roads office for each area. An example inspection form is included.

4. Woodland Estates – Sugar Pines, rehabilitation of stormwater facility.

5. 57th Ponds, Browne Mountain Regional Facility, Toni Rae Drive, Price & Wall Regional Facility, Country Homes Boulevard – wet weather inspection 2014.

6. See "MS4 Base Maps" for a detailed map of County Roads within the Phase II jurisdictional boundary.

7. O&M Field Assessment category summaries.

8. Example Stormwater Collection/Conveyance System Assessment Form

9. Example of GPS street sweep data; County Campus sweeping.

Neighborhood Drainage Assistance Program

Spokane County
Department of Engineering and Roads
Stormwater Utility
March 2010

I. Goals and Objectives

A. *Goals* - Protecting the Spokane Valley Rathdrum Prairie Aquifer as the sole source of drinking water for nearly 500,000 residents is critical to Spokane County's long term economic stability and future economic prosperity, as well as, being vital to the protection of public health and safety.

In addition, local surface water bodies, such as the Spokane River and the Little Spokane River provide important aquatic and wildlife habitat, recreational opportunities and are aesthetic amenities that are highly valued in the community.

The Neighborhood Drainage Assistance Program (NDAP) will have a positive impact on both surface and ground water quality.

The program will implement recommendations described within the Spokane County 2005 Comprehensive Stormwater Management Plan and associated watershed plans.

The program will provide improved customer service to Stormwater Service Area ratepayers by addressing drainage related issues for which funding has been unavailable in the past.

B. *Objective* - Taking a proactive approach to promoting water quality protection within natural drainage systems, the aquifer and other water bodies is a priority for Spokane County's Engineering and Roads, Stormwater Utility.

II. Purpose

A. The purpose of the NDAP program is to facilitate the development of water quality based projects that protect public health and safety, reduce the potential for ground water pollution, reduce stormwater flooding, promote the improvement of surface water quality and restore natural drainage systems by implementing one or more of the following:

1. Retrofit and/or restoration of natural or manmade stormwater drainage systems;

2. Construction of "low-impact" stormwater facilities that promote the natural removal of pollutants from stormwater;
3. Restoration of natural drainage ecosystems;
4. Purchase of private property and/or the acquisition of easements to protect and/or restore natural drainage systems;
5. Retrofit of roadside ditches with native vegetation to promote the improvement of water quality in stormwater runoff that enters existing drainage facilities, natural drainage systems, water bodies (streams, rivers, lakes, etc.) and/or infiltrates to the aquifer;
6. Retrofit of stormwater outfalls to improve the level of stormwater dispersion, and where possible provide for stormwater treatment prior to discharge;
7. Resolve and/or assist with the resolution of neighborhood stormwater drainage problems in established urbanized residential neighborhoods;
8. Reduction of potential stormwater flow volumes; and
9. Reduction of the potential for stormwater erosion.

III. Jurisdictional Area

A. All projects must be located within the SWSA.

B. All projects must be located within the public right-of-way, on public property or within a public easement.

IV. Maximum Value of NDAP Projects

A. The stormwater utility contribution to a single NDAP construction project shall not exceed $35,000.

B. The total value of all NDAP projects shall not exceed the total amount budgeted by the SWU for that calendar year.

C. The stormwater utility cash contribution to an innovative Low-Impact NDAP project, as described in Section VI.(E) shall not exceed $15,000. In addition, the SWU may also contribute staff time within allowable limits.

V. Priority Areas

A. High Priority Areas

1. Stormwater outfalls to the municipal separate storm sewer system (MS4), natural drainageways, untreated stormwater that drains directly to the aquifer or surface water bodies (streams, rivers, lakes, etc.) located within the Eastern Washington Phase II Municipal Stormwater Permit (Permit) jurisdictional area.

2. Untreated stormwater within the public right-of-way, on public property or within a public easement, located within the Permit jurisdictional area.
3. Projects located within or adjacent to a residential area will be given a higher priority.

B. Lower Priority Areas

1. Stormwater outfalls to the municipal separate storm sewer system (MS4), natural drainageways, untreated stormwater that drains directly to the aquifer or surface water bodies (streams, rivers, lakes, etc.) located outside of the Permit area.
2. All parts of the MS4 other than outfalls located within the Permit jurisdictional area.
3. Areas of stormwater flooding causing water quality issues.
4. Untreated stormwater within the public right-of-way, on public property or within a public easement, located outside of the Permit jurisdictional area.

VI. Project Selection Criteria

A. NDAP pollution prevention projects shall be evaluated and selected based on the following primary criteria:

1. The project shall be designed to promote the improvement of water quality within or prior to stormwater entering the MS4, natural drainage system, surface water body, or aquifer;
2. The project shall not be associated with or resulting from a new private development recorded within the last 10 years;
3. The project shall not be associated with a proposed private development;
4. When a project is designed to reduce stormwater flooding, the project shall be located within or immediately adjacent to the MS4.
5. The design solution shall be capable of being maintained by the Spokane County maintenance staff or private maintenance personnel authorized by Spokane County and without excessive annual expense.
6. The project shall, when feasible, include a low-impact design element(s), such as, pollution reduction by infiltration or filtration through native vegetation and soils; removal of hard surfaces and replacement with native vegetation; and pollution filtering soils, reconstruction of piped stormwater outfalls to provide for stormwater treatment prior to discharging into a natural drainageway, water body or to the MS4.

B. Projects passing the priority criteria evaluation will be further evaluated and prioritized based on the following secondary criteria that focus on the ability to successfully construct a project:

1. The project must be readily accessible by County or contracted personnel and equipment necessary to successfully construct the project.
2. Existing soil maps and data that indicate clay soils for projects designed for infiltration shall be further evaluated.
3. The project must be capable of being completely constructed within 60 days of the start of construction.
4. The project must not create a safety hazard within the right-of-way.
5. Projects located on a slope exceeding 8% shall be further evaluated.

VII. Annual Priority List

A. At the beginning of each year, an annual priority list will be developed by the Stormwater Utility Manager based on historic data, experience and information from Public Works and other Spokane County departments, and field investigations, as well as, from the analysis of public complaints.

The list will include projects that fall within the primary and secondary criteria listed above. In addition, when possible, the selected projects shall be geographically dispersed throughout the SWSA.

1. Projects falling within the funding limits described in Section IV above, that remove pollution from stormwater that directly outfalls to the natural drainage system or to water bodies will receive highest priority.
2. The projects falling within the funding limits described in Section IV above, that remove pollution from stormwater while within or prior to it entering the MS4 will receive second highest priority.
3. The projects falling within the funding limits described in Section IV above, that reduce stormwater flooding within the MS4 will receive third highest priority.
4. Any remaining projects will receive fourth highest property.

B. The annual priority list shall be approved by the County Engineer prior to beginning final design efforts and prior to executing construction of projects.

C. The annual priority list may be updated and/or revised during the year for a variety of reasons, including but not limited to; when it's discovered that a priority project will exceed the requirements of Section IV, an

engineering solution does not appear attainable, budget changes, or other unforeseeable circumstance.

D. Due to research and development of new technologies relative to pollution reduction in stormwater and due to the unique soils in the Spokane area, up to one project on the "Annual Priority List" may be designed and constructed with an innovative low-impact stormwater pollution reduction or treatment solution in cooperation with an accredited institution of higher learning in the State of Washington and/or in cooperation with the Washington State Department of Ecology.

VIII. Design of NDAP Projects

A. The design of NDAP projects shall be completed by Spokane County professional engineers or the County's on-call engineering consulting firm.

B. For an innovative project, the engineering design may be developed in cooperation with an accredited institution of higher learning in the State of Washington and/or in cooperation with the Washington State Department of Ecology.

IX. Construction of NDAP Projects

A. Upon approval of the "Annual Priority List" by the County Engineer the SWU will actively pursue the final design and construction of the NDAP projects.

B. NDAP projects that can't be completed in the current year due to weather or unforeseen circumstances will be carried over to the following year.

C. The SWU will maintain a file on each project documenting activities and expenses.

Example Inspection Form

Inspector: Penny Flowers **Operations and Maintenance Site Visit Assessment Form** Date: 7/31/13

Facility: Engineer Storage Contact: Brian Hopp Category: Matl Storage, Heavy Equipment Maintenance
Parcel #: 25131.2409 Lat: _____ Long: _____

1) Waste Management: N/A? ☐ *Sketch location of dumpsters and used oil containers on site map.*

Dumpsters:	Yes ☒ No ☐	**BMP's** ☒	**Condition:** Good ☒	Fair ☐	Poor ☐	**Photos:** Photos #1 – #20
Trash Compactors:	Yes ☐ No ☒	**BMP's** ☐	**Condition:** Good ☐	Fair ☐	Poor ☐	
Recycling Cont.:	Yes ☐ No ☒	**BMP's** ☐	**Condition:** Good ☐	Fair ☐	Poor ☐	
Petroleum Products	Yes ☐ No ☐	**BMP's** ☐	**Condition:** Good ☐	Fair ☐	Poor ☐	

Notes _____

2) Cleaning and Washing: (N/A?) **Vehicles** ☐ **Heavy and Light Equip** ☐ **Tools** ☐ **Indoors** ☐ **Outdoors** ☐
☐ *Sketch the drainage characteristics of the wash area on site map.*
Wash water drains to: Catch Basin ☐ Drywell ☐ Swale ☐ Dirt ☐ Street ☐ **Photos:** _____
Existing BMP's Yes ☐ No ☐ **Condition:** Good ☐ Fair ☐ Poor ☐
Notes _____

3) Transfer of Solids and Liquids: N/A? **Containers:** Barrels ☒ Bags ☒ Bottles ☐ Boxes ☐ Other _____
Secondary Containment Yes ☐ No ☐
Material Safety Data Sheets accessible: Yes ☐ No ☐ **Spill Clean-up Kits** Yes ☐ No ☐ **Photos:** _____
Existing BMP's Yes ☒ No ☐ **Condition:** Good ☒ Fair ☐ Poor ☐
Notes Magcloride / Sanding Matl – NEDMAG SNOW MELT
Paint
Sand GLASS OXIDE

4) Production and Application Activities: (N/A?) **Painting** ☐ **Coating** ☐ **Spraying** ☐ **Other** ☐
☐ *Sketch location of production/application activities and drainage characteristics on site map.*
Designated Locations Yes ☐ No ☐ **Indoors** ☐ **Outdoors** ☐ **Photos:** _____
Drainage Characteristics _____
Existing BMP's Yes ☐ No ☐ **Condition:** Good ☐ Fair ☐ Poor ☐
Notes _____

5) Material Storage: N/A? ☐ *Sketch storage area locations and drainage characteristics on site map.*
Type of Materials Stored: Paint used for road striping / Crosswalks / Sand
Indoors ☐ **Outdoors** ☐ **Drainage Characteristics:** _____

Existing BMP's Yes ☒ No ☐ **Condition:** Good ☒ Fair ☐ Poor ☐ **Photos:** _____

Notes _____

6) Vehicles and Equipment: N/A? **Maintenance** ☐ **Parking** ☐ **Repair** ☐ **Storage** ☒
☐ *Sketch locations of storage and parking areas, structures, surfaces, floor drains, drainage characteristics, and location of clean-up kits on site map.*
Location: Indoors ☒ Outdoors ☒ **Structures:** Yes ☐ No ☐ **Shop Floors Clean:** Yes ☒ No ☐
Surface Type: Asphalt ☐ Concrete ☒ Dirt/Gravel ☒ **Floor Drains:** Yes ☒ No ☐ **Photos:** _____
Drainage Characteristics: _____
Solid Wastes Disposed Properly: Yes ☒ No ☐ **Leaks:** Yes ☐ No ☒ **Spill Clean Up Kits Easily Accessible** Yes ☐ No ☒
Notes: _____

7) Dust, Erosion, Sediment, and Landscape Maintenance: (N/A?) ☐ *Sketch erosion, sediment, and landscape maintenance on site map.*
Dust Producing Activities: Yes ☐ No ☒ **Exposed or Eroded Soils:** Yes ☐ No ☒ **Deposited Sediment:** Yes ☐ No ☒
Pesticides/Herbicides Used: Yes ☐ No ☒ **Stored in Lockable Cabinet/Signage:** Yes ☐ No ☒ **Applied by Licensed Operators** Yes ☒ No ☐
Photos: _____
Notes: _____

8) Stormwater Drainage System: (N/A?) ☐ *Sketch flow directions and storm drains on site map*
Type of system: drywells outside.
Does stormwater have ability to flow offsite: Yes ☐ No ☒ **Does stormwater flow into storm drain inlets:** Yes ☒ No ☐

MS4 Connection Yes ☐ No ☒ **Does stormwater come into contact with pollutants before leaving the site** Yes ☐ No ☐

List Potential Pollutants: _____

Existing Structural BMP's: Yes ☐ No ☒ **Condition:** Good ☐ Fair ☐ Poor ☐
Photos: _____
Notes: _____

Legend

- bridge
- bridge drain
- catch basin + culvert
- catch basin
- culvert
- curb inlet
- detention pond
- ditch
- drywell + culvert
- drywell
- maintenance junction
- pipe
- pipe sump
- retention pond
- rock sump
- swale
- Culvert Flow
- dnrstrm
- parcels

Engineers/Shop Bldg.
1303 N. Cedar

25131.2409

NOTES

N

SPOKANE COUNTY

Stormwater Operations and Maintenance Plan
Stormwater Collection and Conveyance Systems
Summary

The Stormwater Collection and Conveyance System properties inspected are owned and/or maintained by Spokane County Engineering and Roads. There are currently twenty eight (28) sites which include forty two (42) parcels of land. Twenty (20) sites are drain-water accounts in which Spokane County collects a yearly fee from property owners where stormwater runoff contributes to a drainage system. Types of stormwater collection and conveyance systems include bio-filtration areas, detention ponds, drainage channels/ponds, infiltration ponds, natural drainage areas, retention ponds, and vegetated buffer strips.

Initial Operations and Maintenance Plan inspections were completed by the County Stormwater Technician, and took place between March and May of 2010. Follow up inspections were completed in October of 2010. Future inspections will take place in spring and fall of each year. Field inspection documentations were recorded onto a *Stormwater Collection and Conveyance System Assessment Form,* as well as an aerial photo map of the property. Information taken from the assessment forms, and the maintenance activities performed, are recorded electronically onto a spread sheet created for each facility.

Seventeen (17) stormwater systems were found to have either direct or indirect outfalls to surface water. Applicable Best Management Practices (BMP's), as required by the Stormwater Management Manual for Eastern Washington, and the Spokane Regional Stormwater Manual, provide stormwater quality treatment. Maintenance activities of these systems include facility cleaning and trash removal, vegetation management, irrigation management/repair, and erosion control measures.

To view inspection and maintenance details of each site, please see individual assessment forms, maps, plans, and spreadsheet information.

Stormwater Operations and Maintenance Plan
Material Storage, Heavy Equipment, and Maintenance Areas
Summary

A majority of the material storage, heavy equipment, and maintenance areas inspected are owned and maintained by the Spokane County Engineering and Roads Department. There are currently thirteen (13) sites, which include fourteen (14) parcels of land located within the Spokane County NPDES area. One site belongs to Facilities Maintenance, one site belongs to Parks and Recreation, and one site belongs to the County Sheriff's. Five (5) sites are located on the Spokane County Campus, which is located within the City of Spokane. Two (2) sites are located within the City of Spokane Valley.

Initial Operations and Maintenance Plan inspections were completed by the County Stormwater Technician, and the Stormwater Project Manager, and took place between August and November 2010. The Sheriff's Garage initial inspection took place in September 2011. Field inspection documentations were recorded onto an Operation and Maintenance Site Visit Assessment Form, as well as an aerial photo map of the property. Information from the assessment forms is recorded electronically onto a spread sheet created for each site.

Assessments are summarized as follows:

- Four (4) sites including the Central Shop, Old Corral Shop, Plantes Ferry Park Shop, and the Flora Pit shop include all three aspects of material storage, heavy equipment, and maintenance.
- Five (5) sites perform cleaning and washing activities of vehicles and equipment outdoors, and one site has a wash bay located indoors which drains to a drywell.
- All sites contain some form of new and recycled petroleum based products stored in barrels, bottles, cans, tanks, or trailers.
- Three of the sites including two engineers shop buildings as well as the Carnahan Pit, are designated as material storage, and some heavy equipment storage; no maintenance typically takes place at these sites.
- For all sites, stormwater drainage is managed on site, and either infiltrates into the ground, or flows into storm drains such as drywells or catch basins with culverts to drywells.
- Dust palliative is utilized on five sites that have large dirt/gravel parking areas.
- Herbicides are used once a year to eliminate noxious weeds.

Potential Problems

The Central Shop and two District Maintenance Offices discharge petroleum products to outdoor drywells from the shop buildings. The Sheriff's Garage has one drywell in the parking lot that becomes full very easily and potentially drains to groundwater sources. Drywells are pumped out at least twice a year.

To view details of each site, please see individual assessment forms, maps, plans, and spreadsheet information.

Stormwater Operations and Maintenance Plan
Parks, Recreation, and Golf Department
Summary

The Parks and Open Space properties inspected are owned and maintained by the Spokane County Parks Department. There are currently eleven (11) sites, which include thirty-three (33) parcels of land located within the Spokane County NPDES area. One large park is located adjacent to state land that borders the Spokane River on the north side. One park is located along the Little Spokane River, with river usage as part of the recreational facilities. Two (2) of the eleven sites are considered "open space" and designated as conservation futures properties. The three (3) County golf courses, Meadow Wood, Liberty Lake, and Hangman, are all outside of the NPDES boundary, and therefore not included in this plan.

Initial Operations and Maintenance Plan inspections were completed by the County Stormwater Technician, and took place between August and November of 2010. Field inspection documentations were recorded onto an *Operations and Maintenance Site Visit Assessment Form,* as well as an aerial photo map of the property. Data from the assessment forms are recorded electronically onto a spread sheet created for each park/open space.

Assessments are summarized as follows:

- Three sites have swimming pools as part of the recreation facilities.
- Six (6) of the sites have asphalt paved parking areas with stormwater drainage facilities such as drywells, culverts, catch basins, and swales.
- One park has an outfall (catch basin/culvert) which collects stormwater from a parking lot and empties into a DNR stream type.
- One site has parking on a gravel surface, and contains no stormwater facilities.
- Nine (9) of the eleven (11) sites have irrigation and landscape maintenance in place, but only seven (7) were irrigated and maintained this year due to budget/staff cuts.
- Maintenance activities of these parks include landscape vegetation management, irrigation management/repair, facility cleaning, erosion control measures, and trash removal.

Potential Problems

- Two parks have flow that leaves the site and discharges to an MS4.

To view inspection and maintenance details of each site, please see individual assessment forms, maps, plans, and spreadsheet information

Stormwater Operations and Maintenance Plan
Municipal Buildings
Summary

Municipal buildings owned, operated, and maintained by Spokane County are located mostly within the County campus area in downtown Spokane, bordered by Monroe Street on the east, Maple Street on the west, College Ave on the south, and Maxwell Ave on the north. The County Facilities Maintenance Department is responsible for operations and maintenance/good housekeeping activities of nineteen (19) campus building sites, and two (2) sites located outside of the campus area on Havana Street, south of the Fairgrounds, within the City of Spokane Valley.

Initial Operations and Maintenance Plan inspections were completed by the County Facilities Director, and first took place in August 2010. Field inspection documentations were recorded onto an Operation and Maintenance Site Visit Assessment Form. A list of property names and addresses was provided, as well as a campus map showing the name and location of each property, parking lots, and placement of drainage facilities such as drywells and grassed swales. Information taken from the assessment forms is recorded electronically onto a spread sheet created for each site. Some information regarding transfer of solids/liquids, and the location of where drains inside buildings discharge to was acquired during 2011 inspections.

Assessments are summarized as follows:

- Waste management at all sites includes dumpsters, trash compactors, and recycling containers. BMP's are noted as in good condition. No petroleum products are disposed at any of the sites.
- No cleaning and washing of vehicles, equipment, or tools takes place at any of the municipal buildings.
- Production and application activities such as painting, spraying, and staining take place indoors in the paint shop on the second floor of the facilities building. BMP's are noted as in good condition.
- Material storage is noted as both indoors and outdoors, and consists of diesel storage tanks for boilers and back up generators. Tanks are checked and tested monthly, and all have secondary containment.
- Parking of vehicles and equipment takes place outdoors on asphalt surfaces.
- Herbicides are used by licensed operators once a year to eliminate noxious weeds, and are kept in locked storage.
- Stormwater flows to drywells and grassed swales. Noted that some minimal flow from parking lots to streets has been observed.

Potential Problems
Most municipal buildings were constructed many years ago, so there is limited information about where indoor drains flow to if they are not connected to sewer. Further investigation of some buildings may be necessary to ensure there are no illicit connections.

Stormwater Operations and Maintenance Plan
Fair and Expo Center Properties
Summary

The Spokane County Fairgrounds and Avista Stadium Baseball Park consist of five (5) large parcels of land located on Havana Street within the City of Spokane Valley. Properties include Fair and Expo center event buildings, Avista Stadium Baseball Park, maintenance shop buildings, main offices, and parking lots. Spokane County Fair and Expo staff personnel are responsible for operations and maintenance activities on these properties. .

Initial Operations and Maintenance Plan inspections were completed by the Facility Manager, and were first performed in December 2010. Field inspection documentations were recorded onto Operation and Maintenance Site Visit Assessment Forms, and aerial photo maps. The maps note the location of items such as dumpsters and recycling containers, gas/diesel/propane pumps and containers, wash areas, landscape, parking lots, drywells, and swales. Information taken from the assessment forms is recorded electronically onto a spread sheet created for each site. Information regarding transfer of solids/liquids, and the location of where drains inside buildings drain to was acquired in 2011.

Assessments are summarized as follows:

- Waste management includes dumpsters at three of the five sites, one site with a recycling container, and one site with recycled petroleum products containers.
- Two sites have cleaning/washing areas outdoors, one drains into dirt, and one drains to a drywell.
- Gas, diesel, and propane tanks/pumps are located at one site, and noted as not having BMP's or secondary containment. Spill clean-up kits are available.
- Maintenance, parking, and storage of vehicles and equipment takes place indoors and outdoors on asphalt and gravel surfaces. The drainage characteristics noted for the asphalt consists of drywells.
- Dust producing activities occur in the horse arenas located at one site. Herbicides are used where necessary by licensed operators once a year to eliminate noxious weeds, and are kept in locked storage.
- Stormwater on all five sites flows to drywells and grassed swales, and is noted that it does not flow offsite.

Potential Problems
No information about where indoor drains flow to if they are not connected to sewer. Further investigation of some buildings will be necessary to ensure there are no illicit connections.

Connole, Russ W.

From: McDowell, Don
Sent: Thursday, March 28, 2013 7:57 AM
To: ALL COUNTY; Yamada, Isamu; Lorang, Barbara
Subject: Parking Lot Clean-up
Attachments: img094.jpg

Good Morning,

With the nicer weather, I know everyone is ready for Spring Clean-up in the lots. The lots are scheduled to be cleaned on Sunday, April 7th, and Saturday, April 13th and will be cleaned using the following schedule:

April 07, 2013 Sunday will be the **first scheduled clean-up day**.

The following lots will be cleaned on this date:

- The **north half of A-lot** (closest to the Facilities Steam Plant)
- **I- lot** (next to the Property Room)
- **B -lot** (south of ISD and along Broadway between Jefferson and Adams)
- **P-lot** (the big public lot across Broadway from the Courthouse)
- **X-lot** (the small lot on the north side of the Emacio Building, otherwise known as the S&T)
- **F-lot** (along the west side of the Broadway Center Building
- **Public Works-lot** (north side of the Public Works Building)
- **H-lot** (around the Health District Building)

April 13,2013 Saturday will be the **second scheduled clean-up day.**

The following lots will be cleaned on this date:

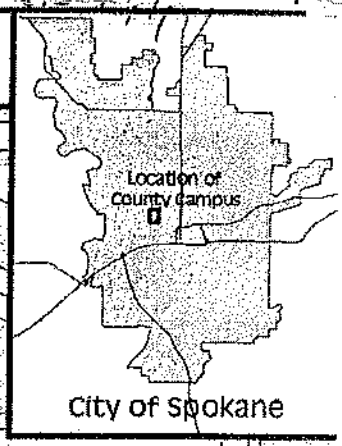
- The **south half of A-lot** (the metered area) on the north side of Juvenile
- **C-lot** (across Broadway from the Public Works Building)
- **D-lot** (the lot south of C-lot)
- **Human Resources lot** (the lot on the east side of the Human Resources Building)
- **J-lot** (the lots to the north and east of the Jail, and the row east of the Public Safety building)
- The drive around and behind the Jail
- **CWW- lot** (the small lot outside the west Courthouse doors)
- The Mallon and Jefferson Street vacates (including **M-lot** or the SPD Swing Shift Parking)
- **G-lot** (the lot around the Gardner Center Building)

If you are scheduled to work on those days, please use the lots not scheduled to be cleaned on those days. Attached is a map showing the lots and the days they are scheduled for. Also, if your department has County vehicles parked in the lots, please move them accordingly. Thank you for your help.

Don

SUNDAY, APRIL 7 SATURDAY, APRIL 13

Spokane County Campus



Material Yard
Central Garage
Boone Av
Spokane Transit Authority Bus Barn
Gardner Av
Police Property Warehouse
Steam Plant
Sheriff Garage
Emergency Services
C
Gardner Center Bldg
Dean Av
Adams St
A
Adult Detention Bldg
Juvenile Justice Center
Public Safety Bldg
Monroe Court
Monroe St
Mallon Av
Mallon Av
HR Bldg
ISD Bldg
Annex
CWW
Courthouse
PW
Public Works BLdg
B
WA State Liquor Control Board
Broadway Center Bldg
Broadway Av
F
E
X
S&T Bldg
P
Veterans Bldg
Jefferson St
Madison St
C
D
Diamond Parking Lot
College Av
Public Health Bldg

egend
- Government Building
- County Parking Lots
- Handicap Parking
- WIC Parking
- Police Parking
- Public Parking
- Sheriff Parking

Inspection and Maintenance Checklist
Stormwater Collection and Conveyance System

477-2810
998-4822

Date of Inspection: 5-15-12 Maintenance District: _____

Field Inspector(s): Penny Flowers Reason for Inspection: Annual Inspection

Rain: In Last 48 hrs: yes (no) Major Storm Event Inspection: yes (no) Westwood North 2nd

Facility Type	Location		Maintenance Needed		Maintenance Follow-up	
(CB, DET, etc)	Parcel	Address	Maint. Code	Description/Action Needed	Date Completed	Completed by
DET-3 CB	37203.2708	HANDY ROAD @ DIVISION RD		CLEAN-UP - TRASH PHOTOS		
	37203.2824	HANDY ROAD @ DIVISION RD				

Facility Types:

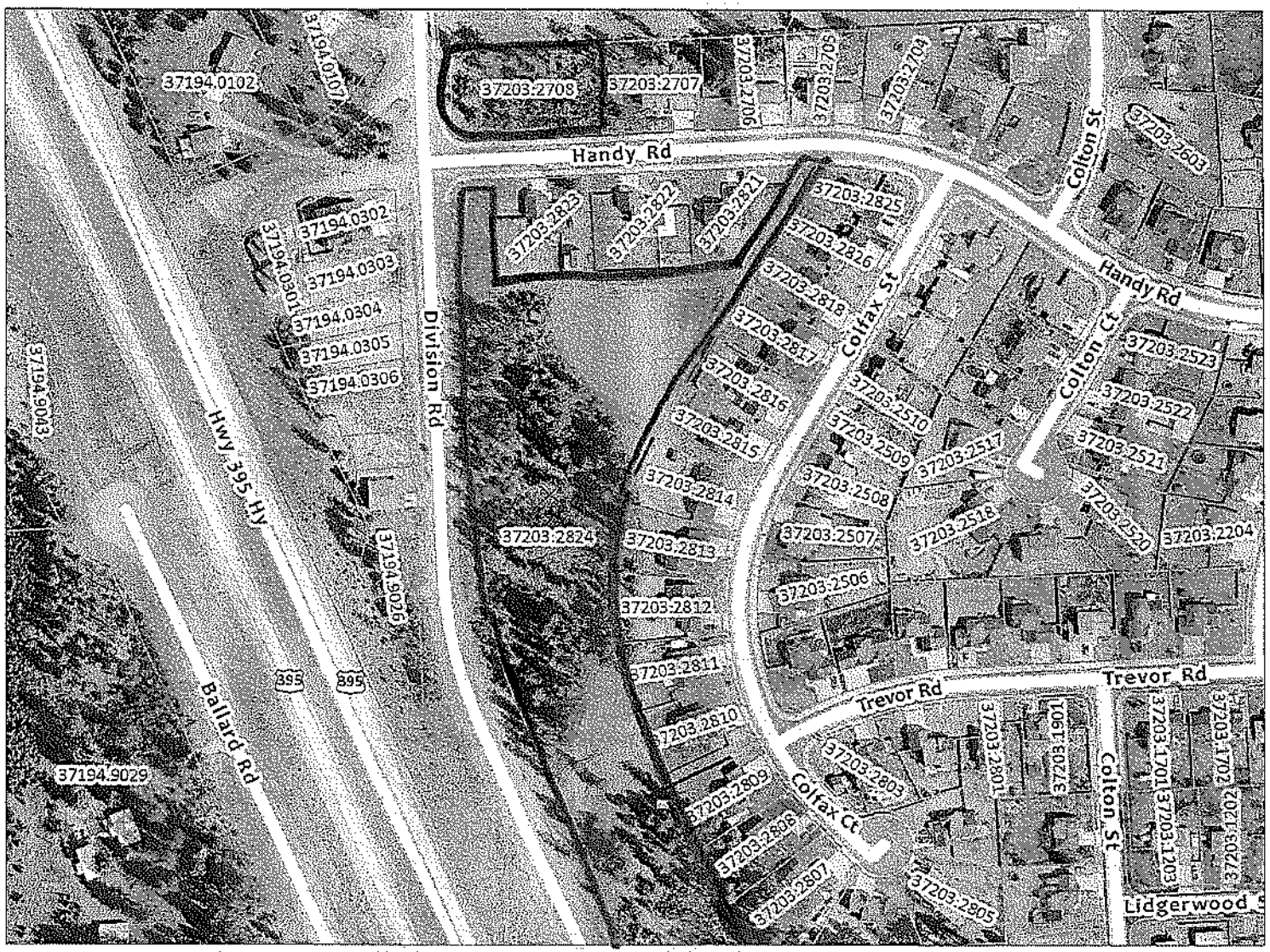
CB - catch basin	DR - drywell	DET - detention facility	EV - evaporation pond	DP - dry pond	WP - wet pond
M - manhole	C - culvert	RP - retention pond	IP - infiltration pond	RD - roadside ditch	
S- swale	IS - infiltration strip	O - other			

Maintenance Codes:

1 – Accumulated Sediment	5 – Impeded Water Flow	9 – Damaged Pipes
2 – Trash & Debris	6 – Erosion	10 – Mosquito/Vector Breeding
3 – Vegetation Concerns	7 – Structural Repairs	11 – Other
4 – Water Quality Concerns	8 – Cover/Frame/Grate	12 – Could Not Locate

Maintenance standards are based on the *Stormwater Management Manual for Eastern Washington* and the *Spokane Regional Stormwater Manual.*

SCIMAP



429.4 0 214.72 429.4 Feet

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

Legend

- Address Points
- Highway Labels - Level 3
  - 0
  - 2
  - 1
- Road Labels - Level 3
- Highway Labels - Level 11
  - 0
  - 2
  - 1
- Highways - Level 3
  - 0
  - 2
  - 1
- Highway Outlines - Level 3
  - 0
  - 2
  - 1
- One Way Signs - Level 3
  - <all other values>
  - F
  - T
- Roads - Level 3
- Road Outlines - Level 3
- Highways - Level 11
  - 0
  - 2
  - 1
- Highway Outlines - Level 11
  - 0
  - 2
  - 1

Notes

Westwood North 2nd

2013 Site Inspections

Wilbert Vault-	
Bridge yard Storage	7/31/2013
Engineers Outside Storage	7/31/2013
Bridge Crew Storage	7/31/2013
Sign /Signal Storage	7/31/2013
Bridge Crew Construction	8/1/2013
Central Shop	8/19/2013
Construction/Field Office	8/1/2013
Motor pool/Facilities	8/1/2013
Sheriff Garage	9/5/2013
Sign/Signal Shop	8/1/2013
Bridge Storage	8/1/2013
Brown Mountain Facility	11/25/2013
Price and Wall Regional Facility	7/22/2013
Eaglewood Channel	7/13/2013
Hitchcock Drainage Facility	7/20/2013

Storm Event Inspections

Woodland Estates	11/25/2013
$57^{th}/55^{th}$ Drainage Ponds	11/25/2013
Brown Mountain Facility	8/26/2013
Toni Rae Drive	11/22/2013
Price and Wall Regional Facility	11/22/2013
Country Homes bv	11/22/2013

Annexations, Incorporations or Boundary Changes - Documentation

2013

Excel Spreadsheet - Question #2

However, a 2009 approved annexation involving the City of Spokane annexing 15.9 acres from Spokane County had an effective date of January 1, 2010. The County's loss of 15.9 acres to the City of Spokane is anticipated to have a negligible effect on the Stormwater Management Program (SWMP). A copy of this annexation is attached.

The City of Spokane is a Phase II permitted city. Therefore, the City of Spokane's Phase II permit boundary will increase in 2010 by 15.9 acres.

There were no effective annexations, incorporations or urban growth area boundary changes in 2011 within the NPDES boundary.

The West Plains Annexation became effective January 1, 2012. This annexation transferred 380 acres from Spokane County to the City of Airway Heights and 9.6 square miles to the City of Spokane. See attached information for details and maps.

There were no annexations effective in 2013.

Comprehensive Plan Amendment - Documentation

2013

Excel Spreadsheet - Question #2

Spokane County completed a Comprehensive Plan Amendment update in 2013 that updated the Urban Growth Areas in Spokane County. The "Urban Growth Area" boundary revisions are located within the boundary of the Stormwater Utility and will be incorporated into the Stormwater Management Program. See attached materials for details.

NO. 13-0689

BEFORE THE BOARD OF COUNTY COMMISSOINERS
OF SPOKANE COUNTY, WASHINGTON

IN THE MATTER OF UPDATING THE URBAN GROWTH AREA INCLUDING ADOPTING A REVISED POPULATION FORECAST AND POPULATION ALLOCATIONS FOR SPOKANE COUNTY AND THE CITIES WITHIN SPOKANE COUNTY AND AMENDING COMPREHENSIVE PLAN AND ZONING MAP CATEGORIES TO REFLECT THE REVISED URBAN GROWTH AREA BOUNDARY	**FINDINGS AND DECISION**

WHEREAS, pursuant to Chapter 36.32.120(6) RCW, the Board of County Commissioners of Spokane County, Washington, hereinafter referred to as the "Board", has the care of County property and management of County funds and business; and

WHEREAS, in compliance with RCW Chapter 36.70, the Board adopted a Comprehensive Plan for Spokane County on December 22, 1980 and has subsequently amended said Plan; and

WHEREAS, pursuant to RCW 36.70A.040, on July 1, 1993 Spokane County was required to conform to the requirements of the Growth Management Act (Chapter 36.70A RCW; and

WHEREAS, RCW 36.70A.020 identifies goals to guide the development and adoption of comprehensive plans and development regulations; and

WHEREAS, pursuant to RCW 36.70A, the Board adopted *Countywide Planning Policies for Spokane County (CWPPs)* on December 22, 1994 and subsequently amended said policies (BoCC Resolution Nos. 94-1719, 96-1205, 97-0937, 04-1075, 08-0943, and 11-1025); and

WHEREAS, On October 17, 2006 (BoCC Resolution No. 06-0869) the Board adopted a public participation plan to facilitate public participation throughout the planning process, which plan references and relies on the adopted Public Participation Guidelines that have formed the basis for past public participation efforts (BoCC Resolution No. 98-0788); and

WHEREAS, pursuant to the provisions of Chapters 36.70 and 36.70A RCW, the Board adopted an Urban Growth Area (UGA) and a Comprehensive Plan for Spokane County on November 5, 2001 (BoCC Resolutions Nos. 01-1059 and 01-1060); and

WHEREAS, pursuant to the provisions of Chapters 36.70 and 36.70A RCW, and for the implementation of the goals and policies of the Comprehensive Plan, the Board on May 25, 2004, under BoCC Resolution No. 04-0461 adopted a new Zoning Code which became effective June 1, 2004; and

WHEREAS, Revised Code of Washington Chapter RCW 36.70A.130(3)(a) requires periodic review of UGA boundaries and the density of residential development permitted within the UGA. UGA boundaries are required to be adjusted if necessary, to ensure accommodation

BE IT FURTHER RESOLVED, that implementation of land use category changes for the proposed jail site, identified as # 21 on the UGA update map is contingent upon financing of the jail for construction on the site.

BE IT FURTHER RESOLVED, that the Clerk of the Board is directed to publish a notice of adoption pursuant to RCW 36.70A.290 (b).

BE IT FURTHER RESOLVED, that the Clerk of the Board is directed to send a copy of these findings and attachments to the Washington State Office of Community Development pursuant to RCW 36.70A.106 within 10 days of adoption.

BE IT FURTHER RESOLVED, that the Board makes part of these findings and decision all files in the Spokane County Department of Building and Planning, the Steering Committee of Elected Officials, the Spokane County Planning Commission, the Board of County Commissioners along within the transcripts of all public hearings related to this matter and further adopts all recitals herein as findings of fact.

BE IT FURTHER RESOLVED, that the Urban Growth Area and associated comprehensive plan map and zoning map changes, as depicted on the Comprehensive Plan map Attachment 'C' and including adjustments to the adjacent roadways, shall be effective upon signing of these findings and decision.

ADOPTED by the Board of County Commissioners of Spokane County, Washington this 16th day of July 2013.

BOARD OF COMMISSIONERS SPOKANE COUNTY SEAL SPOKANE COUNTY, WA

Shelly O'Quinn, Chair

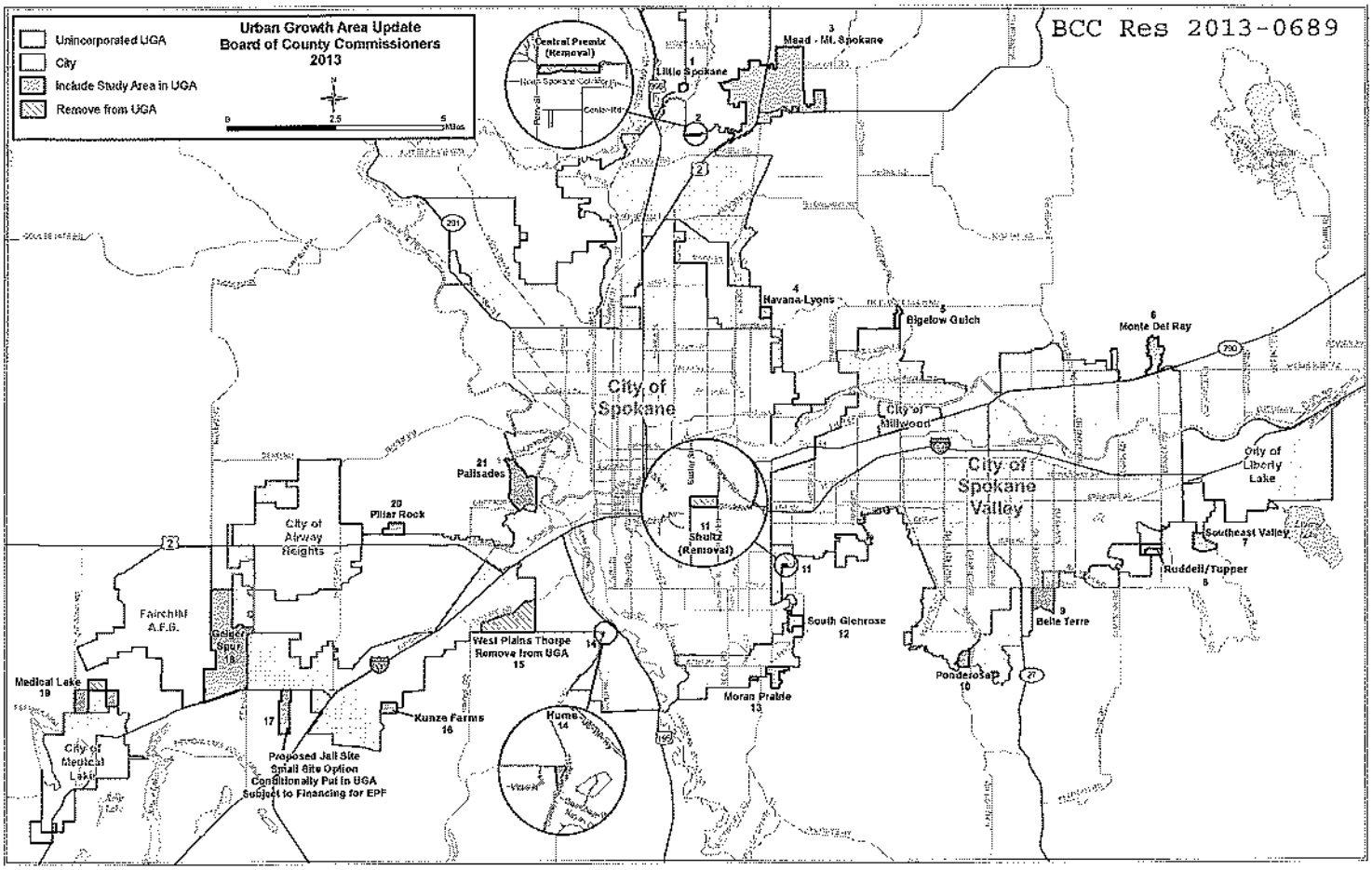
ATTEST:

Al French, Vice-Chair

Daniela Erickson
Clerk of the Board

Todd Mielke, Commissioner

Attachments:
A. Planning Commission Recommendation
B. Steering Committee Recommendation
C. UGA update mapping revisions (large map and study area maps).
D. Spokane County Capital Facility Plan as recommended by the Planning Commission


Urban Growth Area Update
Board of County Commissioners
2013
Unincorporated UGA
City
Include Study Area in UGA
Remove from UGA
0
2.5
5 Miles
BCC Res 2013-0689
Central Premix (Removal)
Little Spokane
3 Mead - Mt. Spokane
4 Havana-Lyons
5 Bigelow Gulch
6 Monte Del Ray
City of Spokane
City of Millwood
City of Spokane Valley
City of Liberty Lake
21 Palisades
20 Pillar Rock
11 Shultz (Removal)
City of Airway Heights
Fairchild A.F.B.
Geiger Spur
West Plains Thorpe Remove from UGA
15
South Glenrose
12
Southeast Valley
7
Ruddell/Tupper
8
9 Belle Terre
Ponderosa
10
Moran Prairie
13
Hume
14
Kunze Farms
16
Medical Lake
19
City of Medical Lake
17
Proposed Jail Site
Small Site Option
Conditionally Put in UGA
Subject to Financing for EPF

Expenditure Report for Development and Implementation of the SWMP 2013

Excel Sheet Question #3

Attached are the tracked costs for the development and implementation of the Stormwater Management Program (SWMP) for 2013.

Contents:

1. PeopleSoft expenditure report.

Business Unit: PROJA
Project Tree: PUB_WORKS_DEPT
Analysis Group: ACT - Actuals Costs

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Report ID: PCBSP001
Run Date: 3/5/2014
Run Time: 11:26 AM

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES																
ADMIN																
9800	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	0.50	HR	9.54
9800	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	0.50	HR	9.54
9800	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	0.50	HR	17.04
9800	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	0.50	HR	17.04
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.22
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.15
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.68
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.07
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.50	HR	28.77
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.96
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
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9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
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9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16

Business Unit: PROJA
Project Tree: PUB_WORKS_DEPT
Analysis Group: ACT - Actuals Costs

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Report ID: PCBSP001
Run Date: 3/5/2014
Run Time: 11:26 AM

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES																
9800	03/20/2013	PURCH				CONNRUSS		00602081	AP01303954	409	4190000	5383800	4350	1.00	EA	12.00
9800	03/27/2013	PURCH				CONNRUSS		00602852	AP01304164	409	4190000	5383800	4350	1.00	EA	12.00
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.50	HR	124.69
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.91
9800	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9800	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	3.00	HR	48.21
9800	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.00	HR	80.34
9800	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9800	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.00	HR	80.34
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.50	HR	221.53
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9800	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	3.00	HR	85.65
9800	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.00	HR	142.74
9800	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9800	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.00	HR	142.74
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9800	04/11/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	0.75	HR	7.85
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.00	HR	153.46
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.00	HR	153.46
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.00	HR	115.10
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9800	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9800	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.00	HR	80.34
9800	04/11/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	0.75	HR	13.94
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.00	HR	272.65
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.00	HR	272.65
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9800	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.00	HR	142.74

Business Unit: PROJA
Project Tree: PUB_WORKS_DEPT
Analysis Group: ACT - Actuals Costs

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Report ID: PCBSP001
Run Date: 3/5/2014
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Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES																
9800	04/17/2013	PURCH				FEDEEXPR		00604459	AP01305166	409	4190000	5383800	4220	1.00	EA	50.74
9800	04/24/2013	PURCH				CONNRUSS		00605070	AP01305318	409	4190000	5383800	4350	1.00	EA	12.00
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.50
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.00	HR	134.28
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.44
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.96
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.50	HR	28.77
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.96
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.33
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.50	HR	28.77
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.96
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.37
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	07/03/2013	PURCH				USBANAAS		00611282	AP01308134	409	4190000	5383800	6460	1.00	EA	601.20
9800	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

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SWSA517 - NPDES																
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.77
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.77
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	5.00	HR	95.91
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	5.50	HR	105.51
9800	08/02/2013	PURCH				USBANAAS		00613571	AP01308941	409	4190000	5383800	4350	1.00	EA	39.00
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.55
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-5.50	HR	-187.45
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-6.00	HR	-204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-1.50	HR	-51.12
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-2.00	HR	-68.16
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.77
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.77
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-1.50	HR	-28.77
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	7.00	HR	134.27
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-6.00	HR	-115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	7.50	HR	143.87
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-2.00	HR	-38.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	5.50	HR	105.51
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	5.50	HR	105.51
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-5.50	HR	-105.51
9800	08/30/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	0.50	HR	9.29
9800	08/30/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	0.50	HR	5.23
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES															
9800	08/30/2013	FRING		Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/30/2013	FRING		Connole,Russ					409	4190000	5383800	1101	4.00	HR	76.73
9800	08/31/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	08/31/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/31/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	08/31/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.41
9800	08/31/2013	FRING		Connole,Russ					409	4190000	5383800	1101	3.00	HR	57.55
9800	08/31/2013	FRING		Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/31/2013	FRING		Connole,Russ					409	4190000	5383800	1101	3.50	HR	67.14
9800	08/31/2013	FRING		Connole,Russ					409	4190000	5383800	1101	5.00	HR	95.92
9800	09/06/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	09/06/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.41
9800	09/06/2013	LABOR		Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.56
9800	09/06/2013	FRING		Connole,Russ					409	4190000	5383800	1101	5.00	HR	95.92
9800	09/06/2013	FRING		Connole,Russ					409	4190000	5383800	1101	7.00	HR	134.28
9800	09/06/2013	FRING		Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	5.50	HR	105.51
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	9.50	HR	182.23
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	5.50	HR	187.45
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	09/30/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	9.50	HR	323.75
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	09/30/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	84.70
9800	09/30/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	150.49
9800	10/07/2013	PURCH			CONNRUSS		00617793	AP01311784	409	4190000	5313800	4350	1.00		12.00
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.04
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	7.50	HR	143.87
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	7.50	HR	143.87
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	7.50	HR	143.87
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	7.50	HR	143.87
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.05
9800	10/15/2013	FRING		Connole,Russ					409	4190000	5313800	1101	7.00	HR	134.26
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	7.50	HR	255.61
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	7.50	HR	255.61
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	7.50	HR	255.61
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	7.50	HR	255.61
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.69
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	7.00	HR	238.57
9800	10/15/2013	LABOR		Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.67

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES																
9800	10/15/2013	FRING			Connole,Russ					409	4190000	5313800	4190	5.00	HR	105.69
9800	10/15/2013	LABOR			Connole,Russ					409	4190000	5313800	4190	5.00	HR	170.41
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	3.50	HR	119.28
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.16
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	3.00	HR	102.25
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	3.50	HR	67.14
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.36
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	3.00	HR	57.55
9800	11/01/2013	PURCH				IFV-SPOK		00621519	AP01312670	409	4190000	5313800	4502	1.00		83.06
9800	11/13/2013	PURCH							0001313239	409	4190000	5383800	4350	0.00		-39.00
9800	11/13/2013	PURCH							0001313239	409	4190000	5313800	4350	0.00		39.00
9800	11/13/2013	PURCH							0001313239	409	4190000	5383800	6460	0.00		-601.20
9800	11/13/2013	PURCH							0001313239	409	4190000	5313800	6460	0.00		601.20
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.36
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.36
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.16
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.16
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.50	HR	51.12
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.50	HR	51.12
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.17
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.50	HR	28.77
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.50	HR	28.77
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.37
9800	11/25/2013	PURCH				CONNRUSS		00623406	AP01313305	409	4190000	5313800	4350	1.00		121.00
9800	11/25/2013	PURCH				USBANAAS		00623777	AP01313305	409	4190000	5313800	4350	1.00	EA	297.80
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.36
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	5.00	HR	95.91
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	12.50	HR	239.78
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	8.50	HR	163.06
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	10.00	HR	191.83
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.16
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	5.00	HR	170.40
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	12.50	HR	426.01
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	8.50	HR	289.70
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	10.00	HR	340.81
9800	12/02/2013	PURCH				USBANAAS		00624179	AP01313596	409	4190000	5313800	4350	1.00	EA	75.00
9800	12/04/2013	PURCH				CONNRUSS		00623697	AP01313674	409	4190000	5313800	4350	1.00		13.00
9800	12/04/2013	PURCH				IRISWEND		00623890	AP01313674	409	4190000	5313800	4350	1.00		196.62
9800	12/13/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.50	HR	51.12
9800	12/13/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	12/13/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.50	HR	28.77
9800	12/13/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	1.00	HR	19.18

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517 - NPDES																
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.50	HR	47.96
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.36
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	5.50	HR	105.50
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	7.50	HR	143.87
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	4.00	HR	76.73
9800	12/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	2.00	HR	38.37
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	1.00	HR	34.08
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.50	HR	85.20
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.16
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	5.50	HR	187.44
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	7.50	HR	255.61
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	4.00	HR	136.32
9800	12/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	2.00	HR	68.17
													Total Activity:			**35,347.37**
DATAM																
9813	06/14/2013	PURCH				ELECDASO		00608960	AP01307232	409	4190000	5383800	3111	2.00	EA	2,932.72
9813	06/14/2013	PURCH				ELECDASO		00608960	AP01307232	409	4190000	5383800	3111	2.00	EA	28.26
9813	06/14/2013	PURCH				ELECDASO		00608960	AP01307232	409	4190000	5383800	6460	1.00	EA	576.11
9813	07/19/2013	PURCH				USBANAAS		00612543	AP01308451	409	4190000	5383800	4350	1.00	EA	1,951.17
9813	08/07/2013	PURCH							0001309714	409	4190000	5383800	3111	0.00		16.31
9813	11/13/2013	PURCH							0001313239	409	4190000	5383800	3111	0.00		-16.31
9813	11/13/2013	PURCH							0001313239	409	4190000	5313800	3111	0.00		16.31
9813	11/13/2013	PURCH							0001313239	409	4190000	5383800	4350	0.00		-1,951.17
9813	11/13/2013	PURCH							0001313239	409	4190000	5313800	4350	0.00		1,951.17
													Total Activity:			**5,504.57**
ADMIN																
9815	04/01/2013	PURCH				SPOKRIFO		00603108	AP01304552	409	4190000	5383800	4350	2.00	EA	90.00
9815	08/02/2013	PURCH				USBANAAS		00613571	AP01308941	409	4190000	5383800	4350	1.00	EA	595.00
9815	08/02/2013	PURCH				USBANAAS		00613571	AP01308941	409	4190000	5383800	4350	1.00	EA	415.80
9815	08/02/2013	PURCH				USBANAAS		00613571	AP01308941	409	4190000	5383800	4350	1.00	EA	39.00
9815	09/09/2013	PURCH				CONNRUSS		00616169	AP01310877	409	4190000	5383800	4350	1.00		100.95
9815	09/30/2013	PURCH				USBANAAS		00618217	AP01311349	409	4190000	5313800	4350	1.00	EA	173.80
9815	10/07/2013	PURCH				ZAREMATT		00618117	AP01311784	409	4190000	5313800	4350	1.00		77.97
9815	10/21/2013	PURCH				USBANAAS		00620802	AP01312159	409	4190000	5313800	4350	1.00	EA	84.78
9815	11/13/2013	PURCH							0001313239	409	4190000	5383800	4350	0.00		-1,150.75
9815	11/13/2013	PURCH							0001313239	409	4190000	5313800	4350	0.00		1,150.75
													Total Activity:			**1,577.30**
ADMIN																
9891	01/22/2013	PURCH				DEPAECOL		00597801	AP01301165	409	4190000	5383800	5910	1.00	EA	8,454.22
9891	12/11/2013	PURCH				DEPAECOL		00624885	AP01313865	409	4190000	5313800	4918	1.00		8,844.42
													Total Activity:			**17,298.64**
													Project Total:			**59,727.88**
SWSA517A - PublicEducation Outreach																
ADMIN																
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach																
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	04/01/2013	PURCH				ANNERENA	0000265771	00603185	AP01304552	409	4190000	5383800	4190	1.00	EA	1,500.00
9800	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	1.50	HR	24.10
9800	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	1.50	HR	42.82
9800	05/13/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	1.50	HR	15.69
9800	05/13/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	0.50	HR	5.23
9800	05/13/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	1.50	HR	15.69
9800	05/13/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	2.00	HR	20.93
9800	05/13/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	1.50	HR	27.88
9800	05/13/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	0.50	HR	9.29
9800	05/13/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	1.50	HR	27.88
9800	05/13/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	37.18
9800	06/12/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	1.00	HR	10.46
9800	06/12/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	18.59
9800	08/30/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	0.25	HR	2.62
9800	08/30/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	0.50	HR	5.23
9800	08/30/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	0.25	HR	4.65
9800	08/30/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	0.50	HR	9.29
9800	08/31/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9800	08/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	120.52
															Total Activity:	**2,485.01**
PUBLC																
9801	01/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	111.84
9801	01/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	01/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.00	HR	79.88
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	127.82
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.00	HR	79.88
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	111.84
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	111.84
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.00	HR	142.74
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.00	HR	142.74
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	01/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	02/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	02/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	02/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach																
9801	02/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	02/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	02/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	02/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	02/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	02/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	02/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	4.00	HR	64.28
9801	02/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	4.00	HR	64.28
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	4.00	HR	114.20
9801	02/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	4.00	HR	114.20
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	128.55
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.50	HR	88.38
9801	03/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	03/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	03/27/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	2.50	HR	40.17
9801	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	03/27/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	2.50	HR	71.37
9801	04/01/2013	PURCH				SPOKCOPA01		00603204	AP01304552	409	4190000	5383800	4190	1.00	EA	150.00
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.50	HR	88.38
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	2.50	HR	40.17
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	04/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29

SWSA517A - PublicEducation Outreach

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	2.50	HR	71.37
9801	04/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	9.00	HR	144.62
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	9.00	HR	0.00
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	128.55
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	128.55
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	128.55
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	04/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	9.00	HR	256.94
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1202	9.00	HR	0.00
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	04/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	05/07/2013	PURCH				GARLPRIN		00606233	AP01305883	409	4190000	5383800	4940	250.00	EA	141.31
9801	05/13/2013	PURCH				SIGNFOSU		00606440	AP01305984	409	4190000	5383800	4190	1.00	EA	204.56
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	8.00	HR	128.55
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	10.00	HR	160.69
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	5.50	HR	88.38
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	05/13/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	10.00	HR	285.49
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	8.00	HR	228.39
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	05/13/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

SWSA517A - PublicEducation Outreach

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.51
9801	05/29/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
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9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	05/29/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.11
9801	06/05/2013	PURCH				PETTYPW4		00607873	AP01306898	409	4190000	5383800	3111	1.00	EA	72.19
9801	06/07/2013	PURCH				CR00STEN		00608370	AP01306951	409	4190000	5383800	3111	10.00	EA	239.14
9801	06/07/2013	PURCH				CR00STEN		00608370	AP01306951	409	4190000	5383800	3111	1.00	EA	27.18
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	120.52
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/12/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
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9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	06/12/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/19/2013	PURCH				IFV-SPOK		00609592	AP01307335	409	4190000	5383800	9130	1.00	EA	25.59
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.50	HR	104.45
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach																
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.00	HR	112.48
9801	06/26/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	6.00	HR	96.41
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	06/26/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/03/2013	PURCH				USBANAAS		00611282	AP01308134	409	4190000	5383800	3111	0.13	EA	4.79
9801	07/10/2013	PURCH				IFV-SPOK		00611234	AP01308225	409	4190000	5383800	9502	1.00		262.34
9801	07/15/2013	PURCH				OFFIDECR		00611593	AP01308340	409	4190000	5383800	3111	1.00	EA	31.62
9801	07/15/2013	PURCH				OFFIDECR		00611594	AP01308340	409	4190000	5383800	3111	1.00	EA	17.59
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	4.00	HR	64.27
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	8.50	HR	136.58
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	88.38
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	07/15/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	120.52
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	8.50	HR	242.66
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	4.00	HR	114.19
9801	07/15/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	07/17/2013	PURCH				MACPGLEN		00611761	AP01308386	409	4190000	5383800	4190	1.00		800.00
9801	07/24/2013	PURCH				PETTYPW4		00612585	AP01308540	409	4190000	5383800	3111	1.00		52.56
9801	07/30/2013	PURCH				USBANAAS		00613249	AP01308649	409	4190000	5383800	3111	1.00	EA	72.84
9801	07/31/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	1.25	HR	13.08
9801	07/31/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	1.25	HR	23.24
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	120.52
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	88.38
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	120.52
9801	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	4.50	HR	72.30
9801	07/31/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84

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Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	07/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	4.50	HR	128.45
9801	08/02/2013	PURCH			USBANAAS		00613575	AP01308941	409	4190000	5383800	3111	1.00	EA	97.76
9801	08/05/2013	PURCH						0001309129	409	4190000	5383800	4190	0.00		75.00
9801	08/15/2013	PURCH			IFV-SPOK		00614298	AP01310101	409	4190000	5383800	9130	0.00		14.62
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	-7.00	HR	-199.84
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	-6.00	HR	-171.29
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-185.57
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	08/15/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.28
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	-6.50	HR	-104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	88.38
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	-6.00	HR	-96.41
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	-7.00	HR	-112.48
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/15/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	10.00	HR	160.69
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	88.38
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45

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Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	88.37
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	104.45
9801	08/30/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	10.00	HR	285.49
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.02
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.50	HR	185.57
9801	08/30/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	5.50	HR	157.00
9801	08/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	08/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/31/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	199.84
9801	08/31/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/31/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/31/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	08/31/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	08/31/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.00	HR	112.48
9801	09/04/2013	PURCH			DITTPRCO		00615793	AP01310789	409	4190000	5383800	4940	1.00		2,696.44
9801	09/05/2013	PURCH			USBANAAS		00616075	AP01310822	409	4190000	5383800	3111	1.00	EA	-97.76
9801	09/06/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	96.41
9801	09/06/2013	FRING		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	120.52
9801	09/06/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	6.00	HR	171.29
9801	09/06/2013	LABOR		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
9801	09/27/2013	PURCH			IFV-SPOK		00617327	AP01311309	409	4190000	5383800	9130	1.00		67.55
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	4.00	HR	114.19
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.55
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	214.12
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	214.12
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	4.50	HR	128.47
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	09/30/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	4.00	HR	64.27
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	120.52
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	120.52
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	4.50	HR	72.31
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach															
9801	09/30/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.44
9801	10/07/2013	PURCH			PETTYPW4		00617940	AP01311784	409	4190000	5313800	3111	1.00		10.85
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.44
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.56
9801	10/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	4190	5.50	HR	97.38
9801	10/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	4190	5.50	HR	157.02
9801	10/30/2013	PURCH			PETTYPW4		00621139	AP01312440	409	4190000	5313800	3111	1.00		4.34
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	157.02
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	157.02
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	10/31/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.82
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	88.38
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	88.38
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	10/31/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.47
9801	11/13/2013	PURCH						0001313239	409	4190000	5383800	3111	0.00		-179.40
9801	11/13/2013	PURCH						0001313239	409	4190000	5313800	3111	0.00		179.40
9801	11/13/2013	PURCH						0001313239	409	4190000	5383800	4190	0.00		-875.00
9801	11/13/2013	PURCH						0001313239	409	4190000	5313800	4190	0.00		875.00
9801	11/13/2013	PURCH						0001313239	409	4190000	5383800	4940	0.00		-2,696.44
9801	11/13/2013	PURCH						0001313239	409	4190000	5313800	4940	0.00		2,696.44
9801	11/13/2013	PURCH						0001313239	409	4190000	5383800	9130	0.00		-82.17
9801	11/13/2013	PURCH						0001313239	409	4190000	5313800	4114	0.00		82.17
9801	11/13/2013	PURCH						0001313239	409	4190000	5383800	9502	0.00		-262.34
9801	11/13/2013	PURCH						0001313239	409	4190000	5313800	4502	0.00		262.34
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45

Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach															
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	120.51
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	3.50	HR	56.24
9801	11/15/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	214.11
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	3.50	HR	99.92
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.83
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/15/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	214.12
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	3.50	HR	99.92
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	11/27/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	157.02
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.50	HR	120.52
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	3.50	HR	56.24
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	88.38
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	11/27/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/12/2013	PURCH			IFV-SPOK		00624661	AP01313916	409	4190000	5313800	4502	1.00		40.71
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	88.38
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/13/2013	FRING		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.49
9801	12/13/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	5.50	HR	157.02
9801	12/13/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/13/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	12/13/2013	LABOR		Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517A - PublicEducation Outreach																
9801	12/13/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	12/13/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/13/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/13/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.85
9801	12/16/2013	PURCH				PETTYPW4		00624669	AP01313999	409	4190000	5313800	3111	1.00		6.00
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	171.29
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	185.57
9801	12/31/2013	LABOR			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	199.84
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	6.00	HR	96.41
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	6.50	HR	104.45
9801	12/31/2013	FRING			Hess,Amanda J					409	4190000	5313800	1101	7.00	HR	112.48
															Total Activity:	**64,731.35**
															Project Total:	**67,216.36**
SWSA517B - Public Involvement & Part																
ADMIN																
9800	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9800	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	07/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	0.75	HR	7.85
9800	07/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	0.25	HR	2.62
9800	07/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	0.75	HR	13.94
9800	07/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	0.25	HR	4.65
															Total Activity:	**481.81**
PUBLC																
9801	10/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	4.00	HR	78.97
9801	10/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	2.50	HR	49.36
9801	10/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	1.00	HR	19.75
9801	10/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	4.00	HR	140.30
9801	10/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	2.50	HR	87.69
9801	10/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	1.00	HR	35.08
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	1.50	HR	52.61
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	2.00	HR	39.48
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	4.50	HR	88.84
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	4.50	HR	88.84
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	3.50	HR	69.10
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	167.82

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517B - Public Involvement & Part																
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	2.00	HR	70.15
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	4.50	HR	157.84
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	4.50	HR	157.84
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	3.50	HR	122.76
9801	10/31/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	298.15
9801	10/31/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	1.50	HR	29.61
9801	11/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	6.50	HR	227.99
9801	11/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	167.81
9801	11/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	167.82
9801	11/15/2013	FRING			Little,Colleen S					409	4190000	5313800	1101	6.50	HR	128.33
9801	11/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	298.14
9801	11/15/2013	LABOR			Little,Colleen S					409	4190000	5313800	1101	8.50	HR	298.15
														Total Activity:		**3,042.43**
														Project Total:		**3,524.24**
SWSA517C - IDDE-Illicit Disch Detect																
ADMIN																
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	10.46
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	10.46
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	18.59
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	-1.00	HR	-18.59
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	37.18
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	37.18
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	-2.00	HR	-37.18
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	1.50	HR	27.88
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	-1.00	HR	-10.46
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	20.93
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	20.93
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	-2.00	HR	-20.93
9800	08/15/2013	FRING			Burchell,Melissa					409	4190000	5383800	1101	1.50	HR	15.69
9800	08/15/2013	LABOR			Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	18.59
														Total Activity:		**397.04**
PUBLC																
9801	08/29/2013	PURCH				IFV-SPOK		00615527	AP01310526	409	4190000	5383800	9210	1.00		46.46
9801	11/13/2013	PURCH							0001313239	409	4190000	5383800	9210	0.00		-46.46
9801	11/13/2013	PURCH							0001313239	409	4190000	5313800	4220	0.00		46.46
														Total Activity:		**46.46**
FIELD																
9807	07/31/2013	FRING			Hess,Amanda J					409	4190000	5383800	1101	2.00	HR	32.14
9807	07/31/2013	LABOR			Hess,Amanda J					409	4190000	5383800	1101	2.00	HR	57.10
9807	10/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	7.00	HR	134.28

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517C - IDDE-Illicit Disch Detect																
9807	10/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	7.00	HR	238.57
													Total Activity:			**462.09**
ADMIN																
9815	05/20/2013	PURCH				FLOWPENN		00607423	AP01306272	409	4190000	5383800	4350	1.00	EA	240.93
9815	05/29/2013	PURCH				USBANAAS		00608162	AP01306440	409	4190000	5383800	4350	1.00	EA	87.24
9815	05/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	10.00	HR	141.18
9815	05/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	10.00	HR	250.82
													Total Activity:			**720.17**
													Project Total:			**1,625.76**
SWSA517D - Construction Site SWRunof																
ADMIN																
9800	01/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.11
9800	01/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.07
9800	01/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	01/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.15
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.11
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	6.00	HR	84.22
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.30
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	6.00	HR	84.22
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.18
9800	01/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.15
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	150.49
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	150.49
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	01/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	02/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.47
9800	02/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.59
9800	02/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.59
9800	02/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	02/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	02/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.24
9800	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	1.00	HR	14.12
9800	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.24
9800	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9800	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	1.00	HR	25.08
9800	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9800	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9800	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.35
9800	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9800	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9800	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9800	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9800	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9800	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.24

SWSA517D - Construction Site SWRunof

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.35
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.47
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.24
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9800	06/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.30
9800	06/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.71
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.71
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.32
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	35.30
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.24
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.35
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.24
9800	08/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9800	08/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9800	08/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9800	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9800	10/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9800	10/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9800	10/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9800	10/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	10/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9800	10/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.18
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.24
9800	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.50	HR	35.30

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517D - Construction Site SWRunof																
9800	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.50	HR	62.71
9800	12/13/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	12/13/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
													Total Activity:			**5,661.03**
PUBLC																
9801	01/11/2013	LABOR	FRING		Hess,Amanda J					409	4190000	5383800	2501	7.50	HR	119.83
9801	01/11/2013	LABOR	REGTM		Hess,Amanda J					409	4190000	5383800	1101	7.50	HR	214.12
													Total Activity:			**333.95**
FIELD																
9807	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.24
9807	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	1.00	HR	14.12
9807	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9807	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	1.00	HR	25.08
9807	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9807	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9807	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9807	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9807	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9807	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9807	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.35
9807	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.24
9807	05/29/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.24
9807	05/29/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9807	06/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.30
9807	06/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.71
9807	07/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	70.59
9807	07/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	07/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	07/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9807	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.69
9807	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	35.29
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	-4.00	HR	-56.47
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	-2.00	HR	-28.23
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	-4.00	HR	-100.33
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16

SWSA517D - Construction Site SWRunof

Activity	Date	Res. Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9807	08/15/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	-2.00	HR	-50.16
9807	08/30/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	08/30/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	08/30/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/30/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	08/31/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/31/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	08/31/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	08/31/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	08/31/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	08/31/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	09/06/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	09/06/2013	LABOR		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.17
9807	09/06/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	09/06/2013	FRING		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.24
9807	09/30/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	09/30/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	09/30/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	09/30/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	10/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9807	10/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	150.49
9807	10/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9807	10/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9807	10/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	84.70
9807	10/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9807	10/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	10/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	10/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	10/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.32
9807	10/31/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	10/31/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	10/31/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9807	10/31/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	10/31/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	10/31/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	10/31/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	10/31/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9807	10/31/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	10/31/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	11/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9807	11/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	84.70
9807	11/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	11/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	11/15/2013	FRING		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.24
9807	11/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9807	11/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	150.49
9807	11/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	11/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	11/15/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.17
9807	11/27/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	-2.50	HR	-62.70
9807	11/27/2013	LABOR		Flowers,Penny S					409	4190000	5313800	1101	1.00	HR	25.08

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517D - Construction Site SWRunof																
9807	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.50	HR	62.71
9807	11/27/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	1.00	HR	25.08
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	1.00	HR	14.12
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.50	HR	35.30
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	1.00	HR	14.12
9807	11/27/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	-2.50	HR	-35.29
9807	12/13/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	12/13/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
															Total Activity:	**5,350.73**
															Project Total:	**11,345.71**
SWSA517E - Post Construction SW Mgmt																
ADMIN																
9800	04/25/2013	PURCH				IFV-SPOK		00604884	AP01305358	409	4190000	5383800	9502	0.00	LS	113.50
9800	04/25/2013	PURCH				IFV-SPOK		00604884	AP01305358	409	4190000	5383800	9502	0.00	LS	83.28
															Total Activity:	**196.78**
															Project Total:	**196.78**
SWSA517E-1 - LID Grant																
ADMIN																
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	104.91
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	104.91
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.15
9800	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.07
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	1.00	HR	14.12
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	1.00	HR	25.08
9800	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9800	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517E-1 - LID Grant																
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.47
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.92
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.41
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.00	HR	115.10
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9800	06/12/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	1.00	HR	10.46
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.91
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.50	HR	124.69
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	06/12/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	1.00	HR	18.56
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.50	HR	221.53
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	06/26/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	0.25	HR	2.62
9800	06/26/2013	LABOR	FRING		Burchell,Melissa					409	4190000	5383800	2501	2.00	HR	20.92
9800	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	06/26/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	0.25	HR	4.65
9800	06/26/2013	LABOR	REGTM		Burchell,Melissa					409	4190000	5383800	1101	2.00	HR	37.17
9800	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.50	HR	47.96
9800	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9800	07/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	07/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.00	HR	57.55
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517E-1 - LID Grant																
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9800	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.50	HR	124.68
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9800	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.50	HR	221.52
9800	08/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	08/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	08/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.00	HR	57.55
9800	08/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.00	HR	19.18
9800	10/16/2013	PURCH				FEDEEXPR		00619761	AP01312067	409	4190000	5313800	4220	0.00		38.98
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	5.50	HR	187.45
9800	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	3.00	HR	102.24
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	3.00	HR	57.55
9800	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	5.50	HR	105.51
															Total Activity:	**9,893.77**
PUBLC																
9801	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9801	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9801	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9801	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
															Total Activity:	**159.79**
CODED																
9805	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.05
9805	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.05
9805	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	162.12
9805	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.05
9805	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.00	HR	152.59
9805	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9805	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.00	HR	272.65
9805	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.00	HR	133.51
9805	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.29
9805	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	162.12
9805	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.00	HR	133.51
9805	01/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	162.12
9805	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9805	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9805	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9805	01/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9805	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	02/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.91
9805	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	02/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.50	HR	124.69

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
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9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.00	HR	115.10
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9805	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.50	HR	221.53
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9805	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9805	02/27/2013	PURCH				WASHSTUN06		00600539	AP01303063	409	4190000	5383800	4190	1.00	EA	646.32
9805	03/07/2013	PURCH				CONNRUSS		00601096	AP01303453	409	4190000	5383800	4350	1.00	EA	12.00
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.33
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.33
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.00	HR	153.46
9805	03/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.37
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.00	HR	272.65
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.37
9805	03/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32

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Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9805	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.50	HR	47.96
9805	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.50
9805	04/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.50	HR	85.20
9805	04/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.44
9805	04/12/2013	PURCH				CONNRUSS		00604063	AP01305035	409	4190000	5383800	4350	0.00	LS	105.91
9805	04/17/2013	PURCH				AHBLINC0	0000266109	00604370	AP01305166	409	4190000	5383800	4190	1.00	EA	17,625.00
9805	04/17/2013	PURCH				AHBLINC0	0000266108	00604372	AP01305166	409	4190000	5383800	4190	1.00	EA	9,450.00
9805	04/17/2013	PURCH				AHBLINC0	0000266110	00604374	AP01305166	409	4190000	5383800	4190	1.00	EA	20,362.50
9805	04/19/2013	PURCH				USBANAAS		00604933	AP01305227	409	4190000	5383800	4350	1.00	EA	75.00
9805	04/19/2013	PURCH				USBANAAS		00604933	AP01305227	409	4190000	5383800	4350	1.00	EA	197.00
9805	04/25/2013	PURCH				IFV-SPOK		00604884	AP01305358	409	4190000	5383800	9502	0.00	LS	116.36
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.50	HR	124.69
9805	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.50	HR	221.53
9805	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9805	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9805	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	05/13/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9805	05/13/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	05/22/2013	PURCH				IFV-SPOK		00607412	AP01306330	409	4190000	5383800	9502	1.00	EA	83.50
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.50	HR	86.32
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9805	05/29/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	6.00	HR	115.10
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	05/29/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	06/05/2013	PURCH				CONNRUSS		00607967	AP01306898	409	4190000	5383800	4350	1.00	EA	12.00
9805	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.91

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
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9805	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	4.00	HR	76.73
9805	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.00	HR	57.55
9805	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9805	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9805	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9805	06/19/2013	PURCH				IFV-SPOK		00609598	AP01307335	409	4190000	5383800	9502	1.00	EA	113.94
9805	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	3.50	HR	67.14
9805	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9805	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	7.00	HR	134.28
9805	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9805	07/17/2013	CONTR				AHBLINC0	0000268926	00611974	AP01308386	409	4190000	5383800	4190	1.00	EA	66,644.00
9805	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	4.50	HR	153.36
9805	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9805	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9805	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.00	HR	57.55
9805	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.78
9805	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	4.50	HR	86.32
9805	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9805	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.13
9805	08/07/2013	PURCH				AHBLINC0	0000269134	00612900	AP01309847	409	4190000	5383800	4190	1.00	EA	24,438.00
9805	08/07/2013	PURCH				WASHSTUN06		00613767	AP01309847	409	4190000	5383800	4190	1.00		40,806.52
9805	08/12/2013	PURCH				AHBLINC0	0000269675	00613967	AP01309997	409	4190000	5383800	4190	1.00	EA	56,218.00
9805	11/13/2013	CONTR							0001313239	409	4190000	5383800	4190	0.00		-66,644.00
9805	11/13/2013	CONTR							0001313239	409	4190000	5313800	4190	0.00		66,644.00
9805	11/13/2013	PURCH							0001313239	409	4190000	5383800	4190	0.00		-121,462.52
9805	11/13/2013	PURCH							0001313239	409	4190000	5313800	4190	0.00		121,462.52
													Total Activity:			**255,167.43**
DATAM																
9813	05/29/2013	LABOR	FRING		Galle,William F					409	4190000	5383800	2501	9.00	HR	148.34
9813	05/29/2013	LABOR	FRING		Galle,William F					409	4190000	5383800	2501	3.00	HR	49.45
9813	05/29/2013	LABOR	FRING		Galle,William F					409	4190000	5383800	2501	2.00	HR	32.96
9813	05/29/2013	LABOR	REGTM		Galle,William F					409	4190000	5383800	1101	2.00	HR	58.56
9813	05/29/2013	LABOR	REGTM		Galle,William F					409	4190000	5383800	1101	9.00	HR	263.54
9813	05/29/2013	LABOR	REGTM		Galle,William F					409	4190000	5383800	1101	3.00	HR	87.85
													Total Activity:			**640.70**
ADMIN																
9815	03/26/2013	PURCH				WASHSTUN11		00602848	AP01304122	409	4190000	5383800	4350	1.00	EA	370.00
9815	04/17/2013	PURCH				ZAREMATT		00604524	AP01305166	409	4190000	5383800	4350	1.00	EA	427.44
9815	04/26/2013	PURCH				USBANAAS		00605554	AP01305390	409	4190000	5383800	4350	1.00	EA	240.36
9815	05/21/2013	PURCH							CRA1307064	409	4190000	5383800	4350	0.00		-160.00
9815	06/12/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9815	06/12/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/20/2013	PURCH				STAPADVA		00609578	AP01307371	409	4190000	5383800	3111	1.00	EA	175.96
9815	06/20/2013	PURCH				BURCMELI		00609667	AP01307371	409	4190000	5383800	4350	1.00	EA	21.81
9815	06/20/2013	PURCH				PETTYAU1		00610052	AP01307371	409	4190000	5383800	4350	1.00	EA	130.00
9815	06/21/2013	PURCH				USBANAAS		00610262	AP01307400	409	4190000	5383800	4350	1.00	EA	104.08
9815	06/21/2013	PURCH				USBANAAS		00610262	AP01307400	409	4190000	5383800	4350	1.00	EA	117.20
9815	06/21/2013	PURCH				CONNRUSS		00610050	AP01307400	409	4190000	5383800	4350	1.00	EA	46.27
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517E-1 - LID Grant																
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.00	HR	134.28
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	8.50	HR	163.06
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.00	HR	95.91
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	5.50	HR	105.51
9815	06/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.50	HR	187.45
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	5.00	HR	170.40
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	06/27/2013	PURCH				USBANAAS		00610799	AP01307694	409	4190000	5383800	4350	1.00	EA	318.80
9815	07/01/2013	PURCH				PETTYAU1		00610801	AP01307911	409	4190000	5383800	4350	1.00	EA	92.00
9815	07/01/2013	PURCH				CONNRUSS		00610819	AP01307911	409	4190000	5383800	4350	1.00	EA	55.45
9815	07/01/2013	PURCH				USBANAAS		00610939	AP01307911	409	4190000	5383800	4350	1.00	EA	108.41
9815	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	07/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9815	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	07/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9815	07/19/2013	PURCH				USBANAAS		00612549	AP01308451	409	4190000	5383800	0001	1.00	EA	87.24
9815	07/24/2013	PURCH				PETTYPW4		00612585	AP01308540	409	4190000	5383800	4350	1.00		20.01
9815	07/26/2013	PURCH							0001308568	409	4190000	5383800	0001	0.00		-87.24
9815	07/26/2013	PURCH							0001308568	409	4190000	5383800	4350	0.00		87.24
9815	08/15/2013	PURCH				IFV-SPOK		00614316	AP01310101	409	4190000	5383800	9502	0.00		220.51
9815	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.69
9815	08/30/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	8.50	HR	289.68
9815	08/30/2013	FRING			Connole,Russ					409	4190000	5383800	1101	8.50	HR	163.05
9815	08/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	7.00	HR	134.28
9815	08/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	7.00	HR	238.57
9815	09/09/2013	PURCH				USBANAAS		00616321	AP01310877	409	4190000	5383800	4350	1.00	EA	100.00
9815	09/25/2013	PURCH				USBANAAS		00617932	AP01311232	409	4190000	5383800	4350	1.00	EA	25.00
9815	11/08/2013	PURCH				HDR0ENGI		00622010	AP01312888	409	4190000	5313800	4190	1.00		455.00
9815	11/13/2013	PURCH							0001313239	409	4190000	5383800	9502	0.00		-220.51
9815	11/13/2013	PURCH							0001313239	409	4190000	5313800	4502	0.00		220.51
9815	11/13/2013	PURCH							0001313239	409	4190000	5383800	4350	0.00		-328.11
9815	11/13/2013	PURCH							0001313239	409	4190000	5313800	4350	0.00		328.11
9815	11/15/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	4.00	HR	136.32

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517E-1 - LID Grant																
9815	11/15/2013	FRING			Connole,Russ					409	4190000	5313800	1101	4.00	HR	76.73
													Total Activity:			**10,811.97**
PRENG																
9830	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	7.00	HR	98.82
9830	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	6.00	HR	84.71
9830	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.36
9830	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	7.00	HR	175.57
9830	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	150.49
9830	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9830	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.47
9830	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9830	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	6.00	HR	84.71
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	9.00	HR	127.06
9830	05/13/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	150.49
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	9.00	HR	225.74
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	05/13/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.66
9830	07/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	9.00	HR	127.06
9830	07/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	9.00	HR	225.74
													Total Activity:			**6,428.80**
													Project Total:			**283,102.46**

SWSA517F - Pollution Prevention Gd H

ADMIN

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
9800	01/11/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	0.50	HR	9.54
9800	01/11/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	0.50	HR	17.04
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.23
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.59
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	4.00	HR	56.47
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	8.00	HR	112.94
9800	02/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	9.00	HR	127.06
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	8.00	HR	200.65
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	9.00	HR	225.74
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9800	02/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.00	HR	28.23
9800	03/27/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	3.00	HR	42.36
9800	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9800	03/27/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.30
9800	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.71
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.59
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	5.00	HR	70.59
9800	04/26/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.29
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	5.00	HR	125.41
9800	04/26/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.70
9800	07/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	07/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	6.00	HR	115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-6.00	HR	-115.10
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.50	HR	67.14
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.50	HR	67.14
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-3.50	HR	-67.14
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.36
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	-2.00	HR	-38.36
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	6.00	HR	204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-6.00	HR	-204.49
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.50	HR	119.28
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-3.50	HR	-119.28
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	-2.00	HR	-68.16
9800	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9800	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517F - Pollution Prevention Gd H																
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9800	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.32
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9800	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	08/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9800	08/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9800	09/06/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	150.49
9800	09/06/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9800	09/06/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	6.00	HR	84.70
9800	09/06/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9800	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.24
9800	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.24
9800	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9800	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.17
9800	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.17
9800	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.32
9800	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9800	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9800	12/13/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	70.59
9800	12/13/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	125.41
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	150.49
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	125.41
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	125.41
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	7.00	HR	175.57
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	7.00	HR	175.57
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9800	12/31/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	6.00	HR	84.70
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	70.59
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	5.00	HR	70.59
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	7.00	HR	98.82
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	7.00	HR	98.82
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9800	12/31/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
													Total Activity:			**6,323.08**
FIELD																
9807	02/13/2013	EQUIP							IF1302075	409	4190000	5383800	9502	0.00		278.42
9807	03/21/2013	PURCH				IFV-SPOK		00602080	AP01303997	409	4190000	5383800	9502	1.00	EA	261.24
9807	04/11/2013	LABOR	FRING		Flowers,Penny S					409	4190000	5383800	2501	2.50	HR	35.30
9807	04/11/2013	LABOR	REGTM		Flowers,Penny S					409	4190000	5383800	1101	2.50	HR	62.71
9807	04/25/2013	PURCH				IFV-SPOK		00604884	AP01305358	409	4190000	5383800	9502	0.00	LS	244.75
9807	05/22/2013	PURCH				IFV-SPOK		00607412	AP01306330	409	4190000	5383800	9502	0.00	EA	311.15

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517F - Pollution Prevention Gd H																
9807	06/19/2013	PURCH				IFV-SPOK		00609598	AP01307335	409	4190000	5383800	9502	0.00	EA	293.33
9807	07/10/2013	PURCH				IFV-SPOK		00611234	AP01308225	409	4190000	5383800	9502	1.00		332.93
9807	08/15/2013	PURCH				IFV-SPOK		00614316	AP01310101	409	4190000	5383800	9502	1.00		329.23
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.24
9807	08/15/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.35
9807	08/15/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	28.23
9807	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	08/30/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	2.00	HR	50.16
9807	08/30/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	08/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	75.25
9807	08/31/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	1.00	HR	25.08
9807	08/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	3.00	HR	42.36
9807	08/31/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	1.00	HR	14.12
9807	09/06/2013	FRING			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	56.47
9807	09/06/2013	LABOR			Flowers,Penny S					409	4190000	5383800	1101	4.00	HR	100.33
9807	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	09/30/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	56.47
9807	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	09/30/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	4.00	HR	100.33
9807	10/03/2013	PURCH				IFV-SPOK		00618116	AP01311702	409	4190000	5313800	4502	1.00		404.21
9807	10/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	50.16
9807	10/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	2.00	HR	28.23
9807	11/01/2013	PURCH				IFV-SPOK		00621519	AP01312670	409	4190000	5313800	4502	1.00		337.95
9807	11/13/2013	EQUIP							0001313239	409	4190000	5383800	9502	0.00		-278.42
9807	11/13/2013	EQUIP							0001313239	409	4190000	5313800	4502	0.00		278.42
9807	11/13/2013	PURCH							0001313239	409	4190000	5383800	9502	0.00		-662.16
9807	11/13/2013	PURCH							0001313239	409	4190000	5313800	4502	0.00		662.16
9807	11/15/2013	FRING			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	42.36
9807	11/15/2013	LABOR			Flowers,Penny S					409	4190000	5313800	1101	3.00	HR	75.25
9807	12/12/2013	PURCH				IFV-SPOK		00624659	AP01313916	409	4190000	5313800	4502	1.00		335.70
9807	12/12/2013	PURCH				IFV-SPOK		00624661	AP01313916	409	4190000	5313800	4502	1.00		305.21
9807	12/31/2013	PURCH				IFV-SPOK		00627172	AP01400416	409	4190000	5313800	4502	1.00		315.37
													Total Activity:			**5,415.49**
DATAM																
9813	12/31/2013	PURCH				CDWG0000	0000273651	00626805	AP01400245	409	4190000	5313800	6460	1.00	EA	993.75
													Total Activity:			**993.75**
													Project Total:			**12,732.32**
SWSA517F-1 - Legendary Hills																
ADMIN																
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517F-1 - Legendary Hills																
													Total Activity:			**106.53**
													Project Total:			**106.53**
SWSA517F-2 - Water Quality Imprv Decan																
PRENG																
7530	11/15/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	65.01
7530	11/15/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	65.01
7530	11/15/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	3.50	HR	75.84
7530	11/15/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	2.50	HR	54.18
7530	11/15/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	104.82
7530	11/15/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	104.82
7530	11/15/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	3.50	HR	122.29
7530	11/15/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	2.50	HR	87.36
7530	11/27/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	3.50	HR	75.84
7530	11/27/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	4.00	HR	86.68
7530	11/27/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	3.50	HR	122.29
7530	11/27/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	4.00	HR	139.77
7530	12/13/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	4.50	HR	97.51
7530	12/13/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	4.50	HR	157.23
7530	12/30/2013	EQUIP	COMPP	CS39					EQ12211301	409	4190000	5943100	4502	0.00		7.50
7530	12/30/2013	EQUIP	COMPP	CS39					EQ12211301	409	4190000	5943100	4502	0.00		4.50
7530	12/30/2013	EQUIP	COMPU	CS80					EQ12211301	409	4190000	5943100	4502	0.00		6.99
7530	12/30/2013	EQUIP	COMPU	CS80					EQ12211301	409	4190000	5943100	4502	0.00		11.65
7530	12/30/2013	EQUIP	GPS3	GPS3					EQ12211301	409	4190000	5943100	4502	0.00		384.00
7530	12/30/2013	EQUIP	GPS3	GPS3					EQ12211301	409	4190000	5943100	4502	0.00		384.00
7530	12/30/2013	EQUIP	P4X4C	8153					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	P4X4C	8153					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	P4X4C	8153					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	PUCML	8115					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	PUCML	8115					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	PUCML	8115					EQ12211301	409	4190000	5943100	4502	0.00		57.20
7530	12/30/2013	EQUIP	PUCML	8114					EQ12211301	409	4190000	5943100	4502	0.00		14.30
7530	12/31/2013	LABOR			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	233.08
7530	12/31/2013	LABOR			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	233.08
7530	12/31/2013	LABOR			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	233.09
7530	12/31/2013	FRING			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	144.55
7530	12/31/2013	FRING			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	144.55
7530	12/31/2013	FRING			Berry,Allen W					409	4190000	5943100	4190	8.00	HR	144.56
7530	12/31/2013	FRING			Berto,David A					409	4190000	5943100	4190	2.00	HR	42.71
7530	12/31/2013	FRING			Berto,David A					409	4190000	5943100	4190	1.50	HR	32.03
7530	12/31/2013	LABOR			Berto,David A					409	4190000	5943100	4190	2.00	HR	68.86
7530	12/31/2013	LABOR			Berto,David A					409	4190000	5943100	4190	1.50	HR	51.65
7530	12/31/2013	LABOR			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	104.82
7530	12/31/2013	FRING			Iris,Wendy B					409	4190000	5943100	4190	3.00	HR	65.01
7530	12/31/2013	FRING			Mclefresh,James A					409	4190000	5943100	4190	5.00	HR	90.35
7530	12/31/2013	FRING			Mclefresh,James A					409	4190000	5943100	4190	3.00	HR	54.20
7530	12/31/2013	LABOR			Mclefresh,James A					409	4190000	5943100	4190	5.00	HR	145.68
7530	12/31/2013	LABOR			Mclefresh,James A					409	4190000	5943100	4190	3.00	HR	87.40
7530	12/31/2013	LABOR			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	233.08
7530	12/31/2013	LABOR			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	233.08

PeopleSoft Projects
Expenditures with Accounting Entries
Parent Project: SWSA517 - NPDES
Date Range: 01/01/2013 thru 12/31/2013

Activity	Date	Res.	Catg	S-Catg	Employee	Vendor ID	PO ID	Voucher ID	Journal ID	Fund	DeptID	E Acct	Acct	Qty	Unit	Amount
SWSA517F-2 - Water Quality Imprv Decan																
7530	12/31/2013	LABOR			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	233.09
7530	12/31/2013	FRING			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	144.55
7530	12/31/2013	FRING			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	144.55
7530	12/31/2013	FRING			Rockliffe,Dean A					409	4190000	5943100	4190	8.00	HR	144.56
													Total Activity:			**5,523.32**
DATAM																
7550	12/31/2013	REFND							0001401450	409	4190000	5943100	1101	0.00		1,679.84
7550	12/31/2013	REFND							0001401450	409	4190000	5943100	2501	0.00		211.01
													Total Activity:			**1,890.85**
ADMIN																
9800	02/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	1.00	HR	19.18
9800	02/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	1.00	HR	34.08
9800	03/27/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	0.50	HR	9.59
9800	03/27/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	0.50	HR	17.04
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	2.00	HR	38.37
9800	04/26/2013	LABOR	FRING		Connole,Russ					409	4190000	5383800	2501	7.50	HR	143.87
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.16
9800	04/26/2013	LABOR	REGTM		Connole,Russ					409	4190000	5383800	1101	7.50	HR	255.61
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	3.00	HR	57.55
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	4.00	HR	76.73
9800	07/31/2013	FRING			Connole,Russ					409	4190000	5383800	1101	2.00	HR	38.37
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	2.00	HR	68.17
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	3.00	HR	102.24
9800	07/31/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	4.00	HR	136.32
9800	08/15/2013	LABOR			Connole,Russ					409	4190000	5383800	1101	1.50	HR	51.12
9800	08/15/2013	FRING			Connole,Russ					409	4190000	5383800	1101	1.50	HR	28.77
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	3.00	HR	102.24
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	6.50	HR	221.52
9800	10/31/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	4.00	HR	136.33
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	3.00	HR	57.55
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	6.50	HR	124.68
9800	10/31/2013	FRING			Connole,Russ					409	4190000	5313800	1101	4.00	HR	76.73
9800	11/27/2013	FRING			Connole,Russ					409	4190000	5313800	1101	0.50	HR	9.59
9800	11/27/2013	LABOR			Connole,Russ					409	4190000	5313800	1101	0.50	HR	17.04
9800	12/31/2013	REFND							0001401450	409	4190000	5313800	1101	0.00		-1,679.84
9800	12/31/2013	REFND							0001401450	409	4190000	5313800	2501	0.00		-211.01
													Total Activity:			**-0.00**
													Project Total:			**7,414.17**
													Report Total:			**446,992.21**

Public Participation Program Guidelines
2013

Spokane County has adopted the Public Participation Program Guidelines in compliance with the Growth Management Act (GMA) when developing new or amending existing County Code. This process was followed during the development of the IDDE related code revisions, as well as the construction and post construction related code revisions addressed by the Spokane Regional Stormwater Manual (SRSM).

The SWMP is continually available for public review and comment on the Spokane County webpage.

Contents:

1. Public Participation Program Guidelines.

2. Copy of the Spokane County webpage soliciting public comment on the SWMP.

SPOKANE COUNTY

Growth Management Act (GMA)

PUBLIC PARTICIPATION PROGRAM GUIDELINES

ORIGINAL ADOPTION: *BOCC Resolution #98-0144 February 24, 1998*
AMENDED: *BOCC Resolution #98-0788 September 29, 1998*

Introduction

One cornerstone for the success of the Growth Management Act (GMA) is citizen participation. That concept is first articulated in the GMA planning goals, specifically RCW 36.70A.020(11), which states that jurisdictions shall *"...encourage the involvement of citizens in the planning process."*

Other provisions of the GMA expand upon that public participation planning goal. Spokane County must establish
"...procedures providing for early and continuous public participation in the development and amendment of comprehensive land use plans and development regulations implementing such plans."
[RCW 36.70A.140 and WAC 365-195-600]
That early and continuous mandate sets a standard for 'enhanced' public participation to be used continuously throughout the local planning processes. The enhanced procedures augment the minimum legal public notification requirements found in Chapter 36.70 RCW - the Planning Enabling Act and Chapter 36.70A - Growth Management Planning by Selected Counties and Cities and supplements the Open Public Meetings Act. Methods to get the public to participate are not specified in the GMA laws. The development, adoption, and implementation of a local public participation program is left to Spokane County's own determination pursuant to the requirements of RCW 36.70A.140, RCW 36.70A.035, and WAC 365-195-600.

Spokane County's *Growth Management Act (GMA) Public Participation Program Guidelines* form the basic framework for achieving an interactive dialogue between local decision-makers, the staff, and the public. These guidelines apply throughout the local planning process leading to adoption of the comprehensive plan, development regulations to implement the plan, and amendments to either. Specific public participation programs should be implemented consistent with the guidelines established here.

Various county bodies have certain responsibilities under the requirements of GMA and in terms of these public participation guidelines. Three bodies have major roles in the local planing process:

Spokane County Board of County Commissioners (BOCC)

Spokane County Public Works Department - Division of Long Range Planning

Spokane County Planning Commission

All three share the responsibility for following these guidelines, implementing specific public participation programs based upon these guidelines, and employing any other methods that bring the public actively into the local GMA planning process. Ultimately, it is the Board of County Commissioners who decide on the direction and content of policy documents or regulations that they find to be in the community's best interest.

The guidelines that follow are intended to guide and form the basis for public participation programs related to GMA and Spokane County's local planning process. Spokane County intends to comply with these guidelines as appropriate to a situation. However, it should be noted that legitimate deviations from the guidelines may be warranted, given specific circumstances. The GMA, specifically RCW 36.70A.140, states that
"... errors in exact compliance with the established program and procedures shall not render the comprehensive land use plan or development regulations invalid if the spirit of the program and procedures is observed."

Public Participation Guidelines

1. Communication programs and information services

Spokane County will develop, implement, and maintain communication programs and information services for the purpose of involving the broadest cross-section of the community in the planning process.

To ensure the overall success of the GMA planning process, Spokane County must take steps to involve the public in a meaningful manner. To accomplish that, there are several things that must occur. First, the public should understand the basic concepts of GMA, the local planning process, and how their own participation can affect local plans and regulations. Secondly, the public needs to know how and when to get involved. And finally, they need to understand how their input is used.

Spokane County will inform the public through various techniques including, but not limited to, the following.

Produce and circulate, on a regular basis, a Spokane County newsletter regarding GMA, local planning issues, and meeting or hearing notices.

Develop and maintain a World Wide Web Internet site containing information from various agencies concerning the local GMA planning process, meeting and hearing notices, summaries, documents, or maps.

Establish, advertise, and maintain a call-in telephone line which announces GMA meetings and hearings and the availability of documents.

Compile, on an ongoing basis, a list of parties interested in GMA and local planning issues. Names should come from meeting and hearing sign-in sheets, written correspondence, and known community groups, as well as specific requests to be included. The list should be used for newsletter circulation, special mailings, and notices as appropriate.

Issue press releases, public service announcements, and media packets as appropriate to inform the public about GMA issues, local planning activities, availability of documents, or meeting and hearing dates.

Establish a 'speakers bureau' consisting of a variety of staff and officials with GMA expertise who are willing to explain, as well as facilitate public discussions about, growth management and local planning issues.

Design, display, and distribute printed and visual material to inform the public about the local planning process and engage them in relevant discussions.

2. Broad dissemination of proposals and alternatives

Spokane County will distribute documents so that they are readily available in a timely fashion to all who want to review them.

Documents that contain or describe proposed plans, policies, maps, regulations, or the amendment of those should be readily available. Supporting documents such as reports, analyses, recommendations, or environmental reviews should also be easily accessible. Documents must be available for review well in advance of opportunities for public discussion or testimony.

Spokane County will take the following steps to ensure that pertinent documents are available in a timely manner to those who want or need them.

Proposals or alternatives should be published and available 10 days prior to a public meeting or hearing scheduled for their discussion or a decision.

When scheduled for discussion or decision, proposals or alternatives should be available as follows:

- Electronic versions accessible through the World Wide Web Internet site.
- A hard copy will be sent to Spokane County Library District Branches and City of Spokane Libraries as appropriate. The likely geographic area to be affected by a proposal should be the basis on which branch libraries receive documents. Proposals or alternatives of a countywide nature should be sent to all branches.
- Hard copies for checkout or in-office review at the Division of Long Range Planning and, as appropriate, through other divisions or agencies.
- Copies available for the cost of reproduction through the Division of Long Range Planning or, as appropriate, through other divisions or agencies.

Meeting and hearing notices should state the availability and location of documents describing proposals and alternatives or other supporting documents being considered.

The public participation requirements shall include notice procedures that are reasonably calculated to provide notice to property owners and other affected and interested individuals, tribes, government agencies, businesses, and organizations of proposed amendments to the comprehensive plan and development regulations. Reasonable notice procedures may include as appropriate:

- posting the property for site-specific proposals;
- publishing notice in a newspaper of general circulation in the general area where the proposal is located or that will be affected by the proposal;
- notifying public or private groups with known interest in a certain proposal or in the type of proposal being considered;
- placing notices in appropriate regional, neighborhood, ethnic, or trade journals; and
- publishing notice in agency newsletters or sending notice to agency mailing lists, including general lists or lists for specific proposals or subject areas.

3. Public meetings after effective notice

Spokane County will publicize public meetings and hearings to ensure that the broadest cross-section of the community is made aware of the opportunities to become involved in the planning process.

At a minimum, the requirements of RCW 36.70 and RCW 36.70A pertaining to public hearings and notification will always be met. However, Spokane County will go beyond the legal minimums to ensure the public is aware of meetings or hearings and of their opportunity to be involved in local planning efforts.

Public meetings (that include activities such as workshops, open houses, or design studios) are opportunities for open discussion between the public, staff, and decision-makers. Meetings do not normally involve public testimony. On the other hand, public hearings are more formalized, legal proceedings where public testimony is presented to a decision-maker for consideration. The result of a public hearing generally consists of an official recommendation in the case of the Planning Commission or a legislative decision by the Board of County Commissioners.

The following guidelines provide direction regarding the number, location, and notification of meetings or hearings relative to the local GMA planning process.

At least one public hearing will be conducted prior to making either a recommendation or an official decision on a comprehensive plan, a development regulation implementing the plan, or an amendment to either.

As appropriate, given the specific proposal, public meetings should be hosted prior to the public hearing(s) as a means to involve and educate the public and solicit their opinions, reactions, or suggestions. The number of meetings should be based upon the specific circumstances of the case.

If a proposed plan, regulation, or amendment pertains to only a portion or subarea of the county, then meetings should be held at a public facility within that area or in close proximity to the area.

Public meetings for proposed plans, regulations, or amendments which are applicable countywide should be held at a public location central and convenient to the public. Meetings at public facilities within each of the county commissioner districts (or some other logical subarea scheme) would be preferable in these instances.

A variety of notification techniques should be used to advertise meetings and hearings. The following list, while not exhaustive, represents those that Spokane County will generally employ. Ultimately, the specifics of the proposal may dictate the best technique or combination of techniques to be used. Additional advertising methods may be identified and used as warranted by the circumstances.

- Legal notices as required by applicable statutes.
- Notices in the GMA newsletter.
- Posting on Spokane County's World Wide Web Internet site.

- Announcements on the GMA call-in telephone line.
- Mailings to the compiled list of interested parties.
- Media releases.
- Commercial display advertisements, as appropriate, in countywide or regional newspapers.
- Notices in community or neighborhood newsletters as appropriate or available.

Public meetings or hearings should be advertised at least 10 days before the scheduled date.

Working subgroup meetings may deviate from these guidelines at times due to the unique circumstances associated with their function. These include the rapid, high volume, recurring meetings of technical committees, subcommittees, or work groups which focus their efforts on specific issues or limited supporting tasks (as opposed to meetings of a quorum of the Planning Commission or Board of County Commissioners in which they consider complete draft plans, regulations, or amendment proposals meant to result in a formal recommendation or official decision). In all cases, the work program for subgroups should be guided by #3a thru #3f above as applicable as well as the Open Public Meetings Act as applicable and will include at least the following elements.
The initial meeting(s) of the group should be widely advertised through the most appropriate method(s) in #3e above.

Sign-in sheets should be used at each meeting to develop a specific mailing list for the group itself, as well as adding to the compiled list of parties interested in GMA and local planning issues. Meeting summaries should be prepared and available as soon as possible after the meeting.

4. Provision for open discussion

Spokane County will ensure that public meetings allow for an open discussion of the relevant issues and that hearings allow for appropriate public testimony.

When public meetings or hearings are conducted, Spokane County will ensure that those who choose to participate in the planning process have the opportunity to actually take part and have their opinions heard. Towards that end, the following actions will be implemented.

Establish an agenda that clearly defines the purpose of the meeting or hearing, the items to be considered, and actions that may be taken. If available early, the agenda should be included or summarized in the notice(s).

The scheduled date, time, and place should be convenient so as to encourage the greatest number of people to attend.

A clearly identifiable facilitator or chair will conduct the meeting or hearing in an orderly fashion to ensure that all attendees have an opportunity to discuss issues, offer comments, or provide testimony.

The facilitator or chair should provide introductory remarks outlining the purpose of the meeting or hearing and describing how the attendees can best participate and how their input may be used.

As appropriate, provide a brief overview of any documents or proposals to be considered.

All persons desiring to participate should be allowed to do so. However, specific factors, such as the purpose of the meeting, size of attendance, time factors, or other opportunities to participate, may suggest some appropriate constraints to be applied. Rules of order for the meeting or hearing should be set forth clearly by the chair or facilitator.

All attendees will be encouraged to identify themselves on sign-in sheets.

All meetings and hearings should be tape recorded.

Summaries should be prepared and available as soon as possible following a meeting or hearing. As appropriate, summaries should include a listing of relevant issues, comments, or responses. In the case of public hearings, the findings and decision document should serve as the actual summary.

Special arrangements for meetings or hearings will be made under the provisions of the Americans with Disabilities Act (ADA) with advance notice.

If the Board of County Commissioners (BOCC) choose to consider a change to an amendment to the comprehensive plan or development regulations, and the change is proposed after the opportunity for review and comment has passed under the county's procedures, an opportunity for public review and comment on the proposed change shall be provided before the BOCC votes on the proposed change. An additional opportunity for public review and comment is not required if:

- an environmental impact statement has been prepared under Chapter 43.21C RCW for the pending resolution or ordinance and the proposed change is within the range of alternatives considered in the environmental impact statement;
- the proposed change is within the scope of the alternatives available for public comment;
- the proposed change only corrects typographical errors, corrects cross-references, makes address or name changes, or clarifies language of a proposed ordinance or resolution without changing its effect;
- the proposed change is to a resolution or ordinance making a capital budget decision as provided in RCW 36.70A.120; or
- the proposed change is to a resolution or ordinance enacting a moratorium or interim control adopted under RCW 36.70A.390.

5. Opportunity for written comments

Spokane County will encourage submission of written comments or written testimony throughout the planning process.

In many instances, detailed, technical, or personal comments can be best expressed and understood in written format. The following steps should be taken to encourage written comments.

As appropriate, notices for meetings and hearings should include the name and address of the person(s) to whom written comments should be sent, along with the deadline for submitting comments.

Persons speaking or testifying should be encouraged to concisely express their comments verbally and provide specific details in written format.

The deadline for submitting written comments, if allowed subsequent to a meeting or hearing, should be clearly announced by the facilitator or chair.

Innovative techniques, as appropriate to a specific planning task, should be developed and implemented to solicit and document the public's concerns, suggestions, or visions for the community. Techniques may include, but are not limited to, surveys, interactive displays, or the innovative use of electronic communication technologies.

6. Consideration of and response to public comments

Spokane County will consider relevant public comments and public testimony in the decision-making process.

Various methods for informing and involving the public, publicizing proposals, and soliciting public opinion or comments have been established in guidelines #1 thru #5 above. Many of those represent the initial steps for bringing public comments into the decision-making process. Other guidelines set the stage for decision-makers to consider those comments. *(For example, tape recording meetings or hearings (#4h) and soliciting written comments (#5a and #5b) allow decision-makers the opportunity to review and consider relevant information in detail before a decision is actually made.)*

Additional steps will be taken so that comments and recommendations from the public are reviewed by the decision-makers for relevancy. Those would include the following.

Time should be reserved subsequent to the close of a hearing or comment deadline and prior to an actual decision so that the decision-maker(s) can adequately review all relevant material or comments.

Reconvening a hearing for the purpose of addressing comments is an option that the decision-maker(s) may use on a case-by-case basis.

Substantive comments pertaining to studies, analyses, or reports, along with necessary responses, should be included in the published document itself (such as occurs in the SEPA process of developing a Draft Environmental Impact Statement (EIS) and then a Final EIS with comments and responses).

The record (such as tape recordings, written comments or testimony, documents, summaries, etc.) will be compiled and maintained by the appropriate Spokane County agency(ies). That record will be made available to the decision-maker(s) for their consideration and review prior to a decision.

Relevant comments or testimony should be addressed through the findings-of-fact portion of the decision-maker's written decision or recommendation.

SPOKANE COUNTY
WASHINGTON

Stormwater Utility

Stormwater Utility
1026 West Broadway Ave
Public Works Bldg 2nd Fl
Spokane, WA 99260-0170

Permits and Regulations

NPDES Phase II Stormwater Permit

Under a directive from the EPA, the Washington State Department of Ecology issued Spokane County a National Pollutan Discharge Elimination System (NPDES), Eastern Washington Phase II Municipal Stormwater Permit (NPDES Permit) in February 2007. The guiding law behind the NPDES Permit is the Federal "Clean Water Act," which regulates the discharge of pollutants to waters of the United States.

If you are interested in reviewing the Eastern Washington Phase II Municipal Stormwater Permit (NPDES Stormwater Permit), it is available on Ecology's website at:: www.ecy.wa.gov/programs/wq/stormwater/municipal/phaseIIEwa/MODIFIEDpermitDOCS/EWpermitMODsigned.pdf

NPDES - Pollution Prevention Ordinance

On July 21, 2009 the Spokane County Board of of County Commissioners approved amendments to *Spokane County Code, Chapter 9.14, Roads, Approach and Drainage in New Construction*, to meet the state mandated pollution preventior requirements of the Eastern Washington Phase II Municipal Stormwater Permit (NPDES Permit). This ordinance is designed to prevent water pollution and protect water quality within our rivers, lakes, streams, and aquifer. View Spokane County Code, Title 9, Chapter 9.14.

Stormwater Management Program

Between 2007 and 2012, Spokane County is required to accomplish tasks associated with six (6)minimum control measures: education and outreach; public involvement and participation; illicit discharge detection and elimination; construction site runoff and post construction management; and pollution prevention and good housekeeping for municipal operations. To learn more about the NPDES Permit and minimum control measures visit: http://cfpub.epa.gov/npdes/index.cfm .

In accordance with the NPDES Permit, Annual Reports have been completed annually and submitted to the Department o Ecology. Each Annual Report includes an updated draft copy of the Spokane County Stormwater Management Program (SWMP). The SWMP is currently a public working document until formal adoption procedures are completed prior to the end of the five year permit cycle in 2012. The Annual Report is too large to be linked for public access. The link below wil take you to the Spokane County Draft Stormwater Management Program. Both documents are available for public review and comment. Contact Russ Connole, Project Manager, at (509) 477-7245 or email rconnole@spokanecounty.org.

2011 Stormwater Management Program

Stormwater Operations and Maintenance Plan

In 2010, the NPDES Permit required the development of a Stormwater Operations and Maintenance Plan (O&M Plan) for municipal operations. The O & M Plan includes all Spokane County departments' facilities, properties and related activities that have the potential to impact surface water quality.

The NPDES Permit requires implementation of all activities described within the O&M Plan by August 15, 2011. The plan's requirements are described within the NPDES Permit under "Pollution Prevention and Good Housekeeping for Municipal Operations" (S5.B6.). Click the link provided to view the O & M Plan:
Spokane County Stormwater O&M Plan

Who Needs Construction Stormwater Permit Coverage?

Please answer the following questions:

1. Does your construction project disturb one or more acres of land through clearing, grading, excavating, or stockpiling of fill material? Remember to count the cumulative acreage of the entire project whether in a single or in a multiphase project. This applies even if you are responsible for only a small portion [less than one acre] of the larger project planned over time.
2. Is there any possibility that stormwater could run off your site during construction and into surface waters or conveyance systems leading to surface waters of the state? In almost every case, the answer to this question is yes.

   However, if the topography and location of your site is such that there is no possibility that rainfall or snowmelt could leave the site or enter a waterway, it is likely that you will not need permit coverage. If you answered "yes" to both of these questions, contact the Dept. of Ecology to determine if you will need a permit. Construction site operators must apply for a permit 60 days prior to discharging stormwater.

   For more information visit: http://www.ecy.wa.gov/programs/wq/stormwater/construction/ .

   If a Construction General Permit is required by The Dept. of Ecology, you will need a Certified Erosion and Sediment Control Lead (CESCL) to monitor stormwater controls on your construction site. To access the CESCL training calendar, click here: CESCL Calendar

Underground Injection Control (UIC)

Underground Injection Control are also known as "dry wells".

The Underground Injection Control program was created by Congress to protect underground sources of drinking water from discharges of fluids to the ground. The UIC program in the state of Washington is administered by the Department of Ecology. In Washington State all ground water is protected equally under RCW 90.48 and Chapter 173-200 WAC Water Quality Standards for Ground Waters of the State of Washington.

The two basic requirements of the UIC Program are:

1. Register UIC wells with the Washington State Department of Ecology unless the wells are located on tribal land. Well on tribal land should be registered with the Environmental Protection Agency.

2. Make sure that current and future underground sources of ground water are not endangered by pollutants in the discharge non-endangerment standard.

Since stormwater picks up contaminants as it runs over the land surface, it can pollute ground water once infiltration occurs. Pollution of ground water from stormwater discharges can be prevented by careful design of the UIC well, strategic siting and effective operation and maintenance. Pollution can also be prevented by use of treatment before discharge to the sub-surface and by reducing the stormwater contact with potential sources of contamination.

UIC wells must be registered. For more information visit:http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html .

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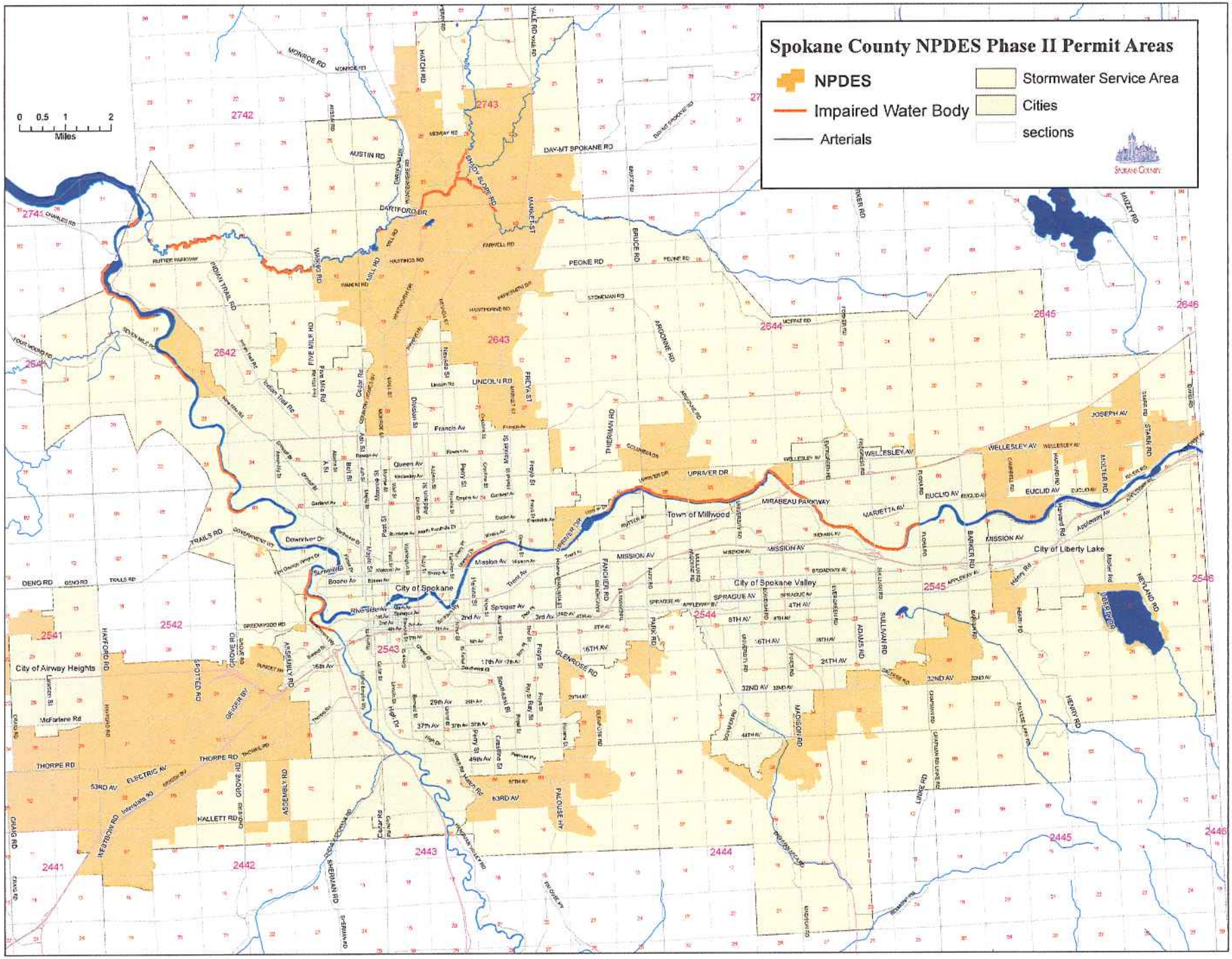
Phase II Permit - Annual Report
MS4 Base Maps – 2013

The municipal separate storm sewer system (MS4) in Spokane County is comprised of roads with ditches, culverts, curbs, bridge drains, swales, detention ponds, and piping systems that direct stormwater into a surface water body such as a river, lake, DNR stream, wetland, pond, etc.

Throughout the life of the first Permit cycle Spokane County has been working diligently to complete mapping the MS4 infrastructure. Below is a summary and/or examples of those work efforts.

Contents:

1. Spokane County Phase II Permit Areas;
2. Stormwater Service Area Map;
3. Outfalls to surface water;
4. Stormwater facilities Section map (example);
5. Spokane County Phase II Permit areas and MS4 roadside ditches;
6. GIS Map of County maintained roads within the Phase II Permit areas.


Spokane County NPDES Phase II Permit Areas
NPDES
Impaired Water Body
Arterials
Stormwater Service Area
Cities
sections
0 0.5 1 2
Miles
City of Spokane
City of Spokane Valley
Town of Millwood
City of Liberty Lake
City of Airway Heights
2541
2542
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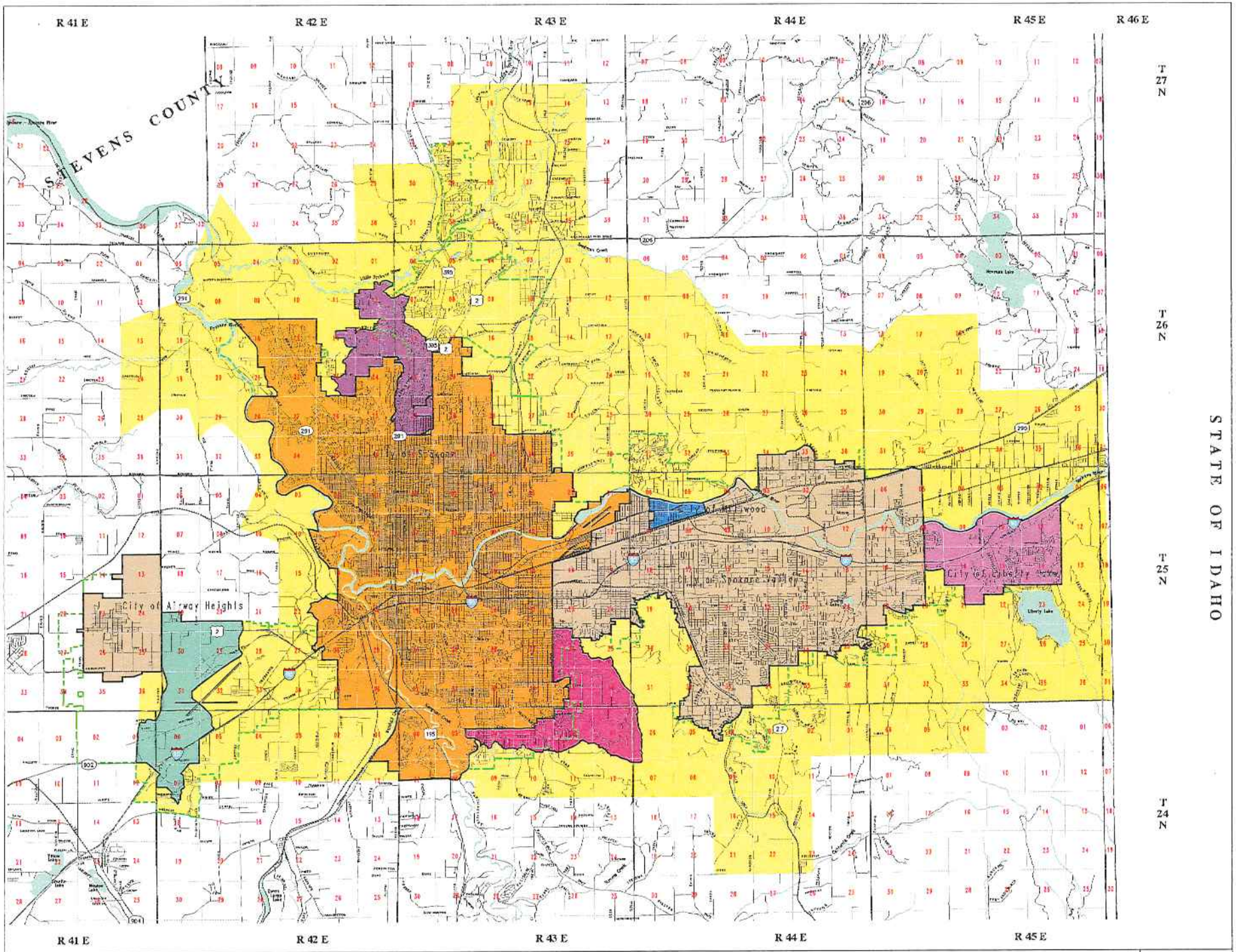
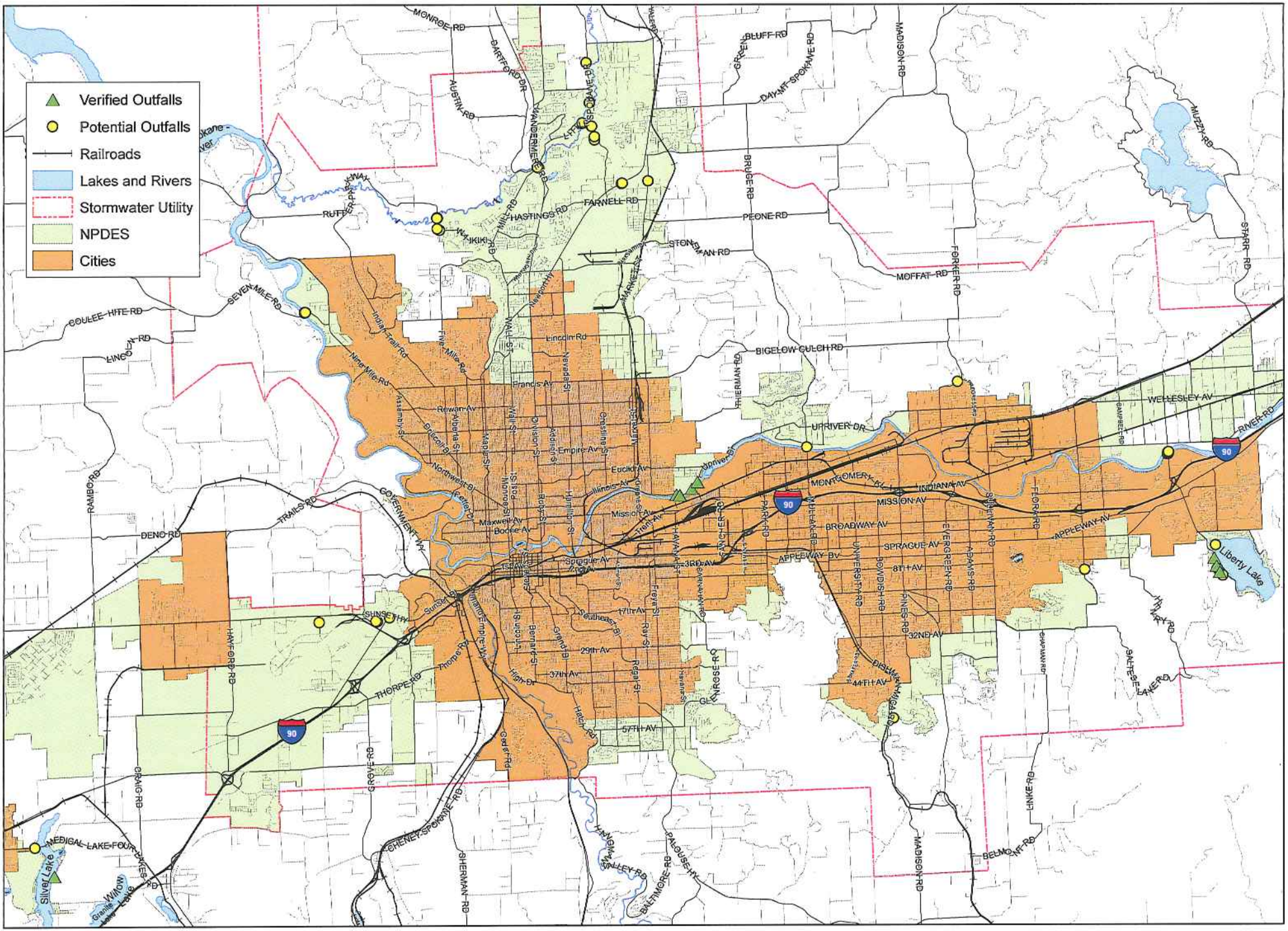


STORMWATER SERVICE AREA

with Glenrose, North Spokane, & West Plains Service Areas

SPOKANE COUNTY

LEGEND



Stormwater Outfalls

Spokane County Stormwater Utility - 1026 West Broadway Ave. - Spokane Washington 99260 - 509)477-3600

SPOKANE COUNTY

NOT TO SCALE

(Example Map)

Non-County Rd.
Parks
Citys

Map 3619

Township 26 North
Range 43 East
Section 19
Stormwater Facilities

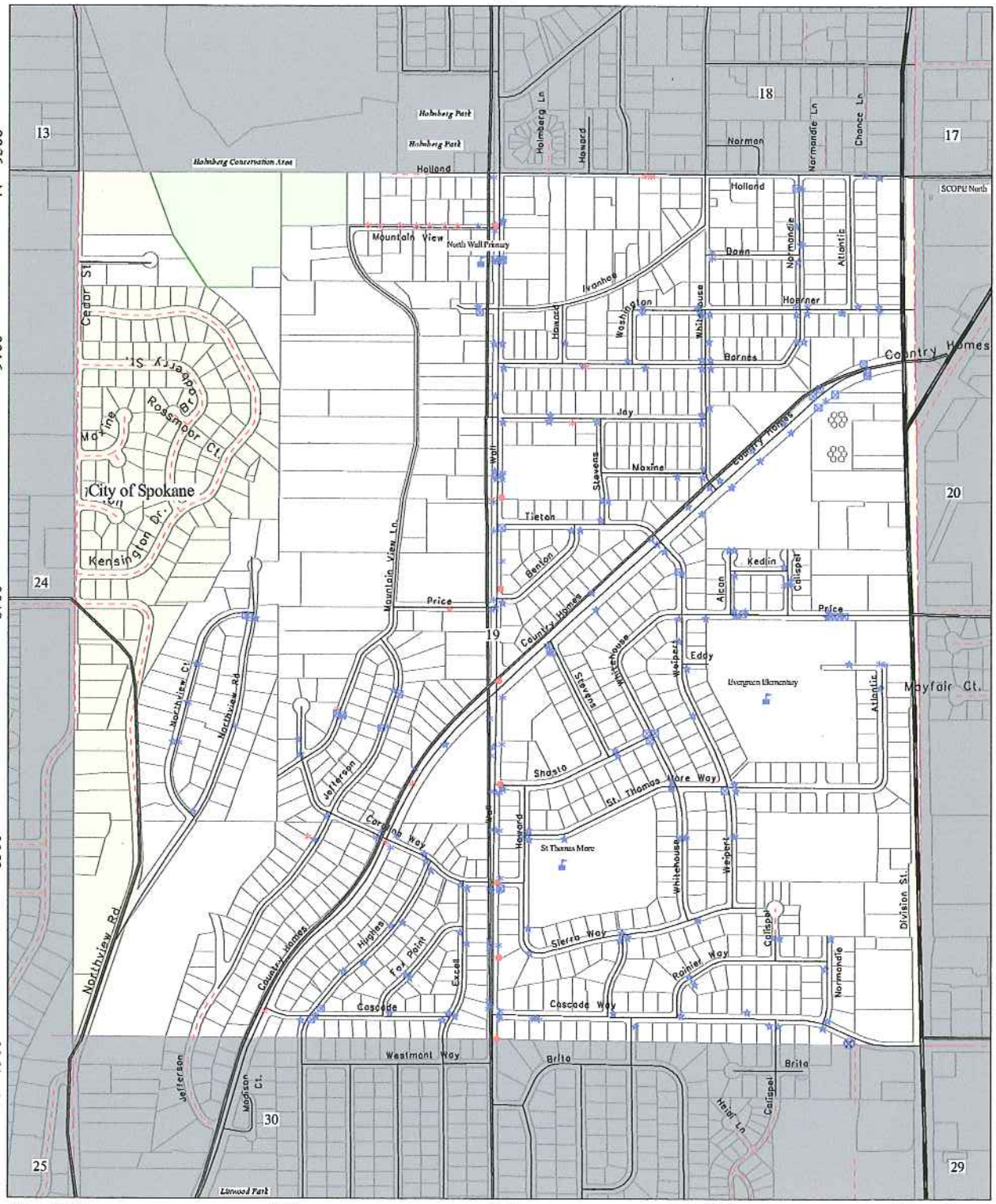
Spokane County
0ft 1000ft

Inventoryed 1995,1996,2000,2001,2002,2005.
drywells pretreated qty. - 1
maintenance_js qty. - 8
catch+culvs qty. - 78
dry+culvs qty. - 33
culverts qty. - 18
drywells qty. - 158
swales qty. - 1

297 Facilities in Section.

Stormwater Facility Inventory

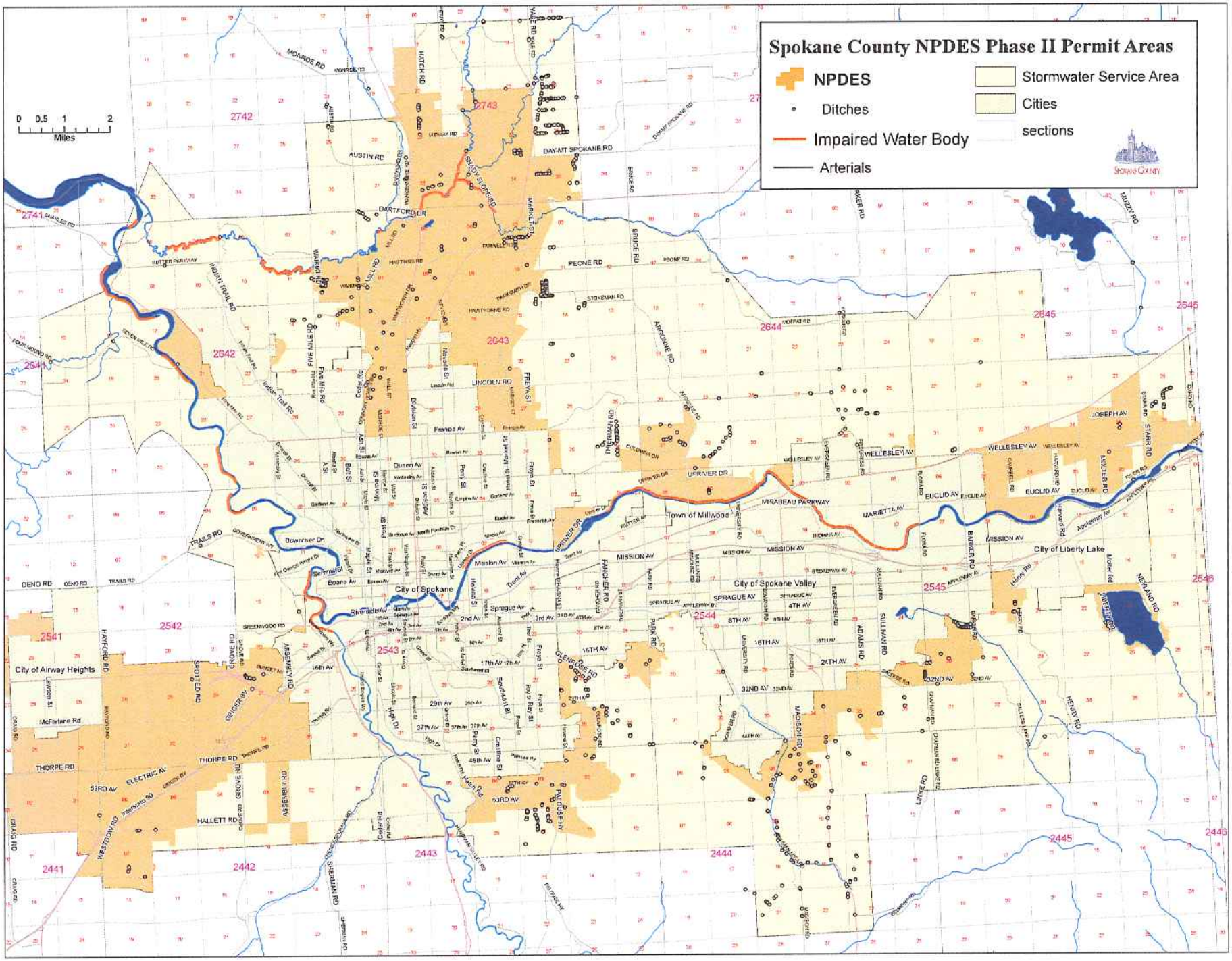
Stormwater 2002 Contours

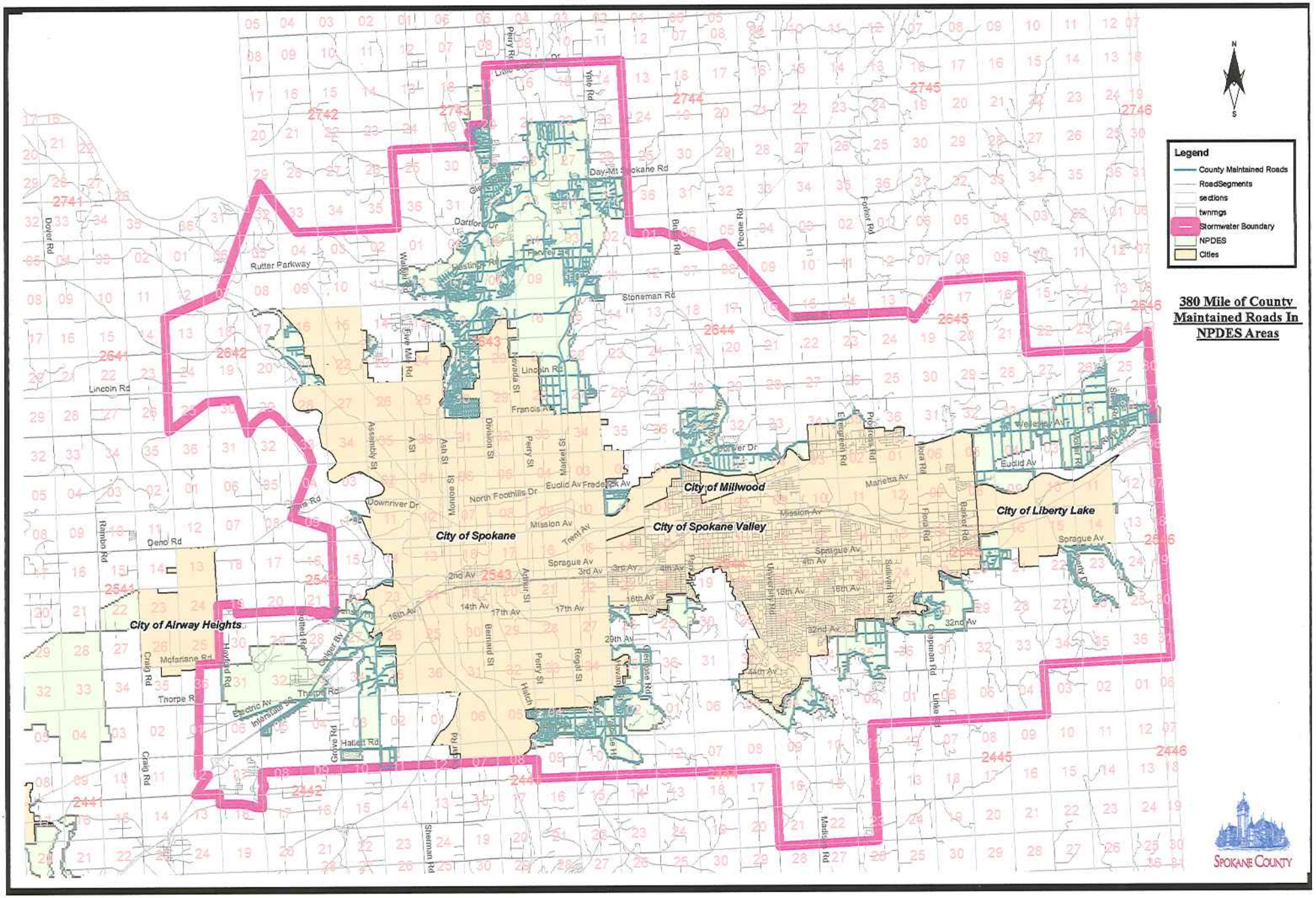


** SEE DISCLAIMER ON MAP 3601 **

Spokane County Stormwater Utility

Revision date: 11/16/05 WFG


Spokane County NPDES Phase II Permit Areas
NPDES
Ditches
Impaired Water Body
Arterials
Stormwater Service Area
Cities
sections
0 0.5 1 2
Miles
City of Spokane
City of Spokane Valley
Town of Millwood
City of Liberty Lake
City of Airway Heights



Legend
County Maintained Roads
RoadSegments
sections
twnmgs
Stormwater Boundary
NPDES
Cities
380 Mile of County Maintained Roads In NPDES Areas
City of Spokane
City of Spokane Valley
City of Millwood
City of Liberty Lake
City of Airway Heights
Rutter Parkway
Lincoln Rd
Stoneman Rd
Day-Mt Spokane Rd
Downriver Dr
North Foothills Dr
Euclid Av
Mission Av
Sprague Av
Trent Av
Francis Av
Deno Rd
Mcfarlane Rd
Thorpe Rd
Hallett Rd
Sherman Rd
Peone Rd
Forker Rd
Dover Rd
Rambo Rd
Craig Rd
Hayford Rd
Grove Rd
Golger Bv
Electric Av
Interstate 90
Assembly St
A St
Ash St
Monroe St
Division St
Perry St
Market St
Nevada St
Five Mile Rd
Walnut Rd
Dartford Dr
Hastings Rd
Perry Rd
Yale Rd
Bruce Rd
Evergreen Rd
Progress Rd
Flora Rd
Barker Rd
Sullivan Rd
University Rd
Marietta Av
Wellesley Av
Euclid Av
Sprague Av
4th Av
16th Av
17th Av
18th Av
29th Av
32nd Av
44th Av
2nd Av
3rd Av
14th Av
Arthur St
Bernard St
Hatch St
Regal St
Genesee Rd
Capman Rd
Linke Rd
Madison Rd
Sherman Rd
Spokane County

PHASE II ANNUAL REPORT
OTHER INFORMATION
2013 Annual Report

1. Legal Authority References (No *Attachments, except where indicated – copies available upon request and/or on the Spokane County web-page*)
   - Spokane Regional Stormwater Manual (view document at http://www.spokanecounty.org/data/engineers/SRSM_Apr08Final/SRSM_April2008Final.pdf)
   - 2005 Comprehensive Stormwater Management Plan
   - Spokane County Code, Chapter 3.20, Flood Damage Protection
   - Chapter 9.14, Roads, Approach, and Drainage in New Construction
   - Chapter 12.400, Subdivisions
   - Chapter 14.802.060, Parking Lot Location and Design
   - Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.03, Sanitary Sewer Code
   - Spokane County Code, Title 8, Health and Sanitation Code, Chapter 8.26, Litter and Discriminate Dumping

2. See the Stormwater Management Program, IDDE Guidance Manual, Spokane Regional Stormwater Manual (SRSM), the Stormwater Operations and Maintenance Plan for additional information.

NPDES Phase II - Annual Report 2013

Section VII. Information Collection, BMP Evaluation, and Monitoring

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	See Tab: "Effectiveness Evaluation"
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	See Tab: "Effectiveness Evaluation"
3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	See Tab: "Effectiveness Evaluation"
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	See Tab: "Effectiveness Evaluation"
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	See Tab: "Effectiveness Evaluation"
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	See Tab: "Effectiveness Evaluation"

PHASE II PERMIT ANNUAL REPORT
EFFECTIVENESS EVALUATION
OF STORMWATER MANAGEMENT PROGRAM COMPONENTS
2013 Annual Report

The Eastern Washington Phase II Municipal Stormwater Permit (Permit) requires within the third annual report (S5.4.b) that an evaluation of the effectiveness of the Stormwater Management Program be conducted with the third annual report.

There are six (6) basic elements described within the Permit that make up the basis of the SWMP. The effectiveness of those elements is evaluated below:

Element 1: Public Education and Outreach

Evaluation of the Effectiveness of the Public Education and Outreach Program

Spokane County is working individually and where mutually beneficial with the Cities of Spokane and Spokane Valley to develop public education and outreach program. Activities being considered include, but are not limited to:

(a) *Community Events.* County will continue to use major community events related to environmental awareness and regional water issues as opportunities for education and outreach. Booths will be staffed by volunteers from the County and/or other local organizations (e.g., Spokane Aquifer Joint Board of water purveyors), who will hand out informational materials and answer questions;
(b) *Media Materials.* County will evaluate the production or distribution of media materials to disseminate public education and outreach information. Media materials may include: (1) a program (if available) for local public television including general information on stormwater quality issues; and (2) Public Service Announcements for targeted messages and audiences;
(c) *Printed Materials.* County will continue to develop, produce or distribute printed materials (e.g., brochures, flyers, promotional items) for specific topics related to stormwater quality. Spokane County has supported the City of Spokane's efforts in the developing a stormwater atlas as a companion document to the SVRP Aquifer Atlas. Older printed materials will be updated as necessary;
(d) *Grants.* County will continue to pursue opportunities for obtaining grants and loans through Ecology for specific projects addressing stormwater quality issues. This will be done in cooperation with other affected jurisdictions, as well as other regional planning and management agencies;
(e) *Website.* County will continue to enhance, maintain and update the "stormwater" section of the existing Spokane County webpage, to provide information to the public on stormwater permitting, Spokane County water quality issues, BMPs, and links to other related websites;

(f) *School Programs.* County will continue to conduct outreach activities in public schools in Spokane County to promote awareness of water quality issues and basic watershed principles;
(g) *Involvement in Other Organizations.* County will continue to be active in other organizations in Spokane County that promote inter-agency cooperation and have outreach and education functions;
(h) *Construction Program.* County will conduct education and outreach activities targeting construction industry organizations (developers, contractors, engineers, surveyors, etc.) about technical standards, the development of stormwater site plans and erosion control plans and BMPs for reducing adverse impacts from development sites. When opportunities become available, Spokane County will work through professional engineering and land planning groups to provide education regarding compliance with the new Regional Stormwater Manual and with other Permit requirements;
(i) *Illicit Discharge Program.* County will provide information to businesses and the general public about illicit discharges – what they are and how to prevent them – and encourage proper management and disposal of toxic materials;
(j) *Regional Stormwater Facilities.* Signage and other information will be developed to explain the meaning of watersheds, and the value of using natural stormwater systems to control and treat stormwater runoff. Regional stormwater facilities will include opportunities for hands on education about wetlands, the stormwater cycle and the value of clean water;
(k) *Civic Groups.* County will provide stormwater pollution prevention information to various community groups.

The Public Education and outreach activities listed above have been effective in reaching and educating various groups and sectors of the public in regards to stormwater pollution prevention.

Element 2: Public Involvement and Participation

Evaluation of the Effectiveness of the Public Involvement and Participation Program

In 2008, Spokane County utilized the public participation guidelines in adopting the *Spokane Regional Stormwater Manual* (SRSM). The public involvement guidelines include the following: communication programs and information services; broad dissemination of proposals and alternatives; public meetings after effective notice; provision for open discussion; opportunity for written comments; and consideration of and response to public comments.

In 2009, Spokane County utilized the public participation guidelines in adopting the Illicit Discharge Detection and Elimination related amendments to Spokane County Code. The public involvement guidelines include the same elements mentioned in the previous paragraph.

In 2010, Spokane County distributed a "Spokane County Stormwater Awareness Survey". This survey was designed to evaluate the public's knowledge regarding stormwater pollution, including common sources. The response from the public has been very successful and is being evaluated to guide future public education and outreach, and public involvement activities.

The SWMP is available on the Spokane County webpage where public involvement and participation is encouraged.

The Public Involvement and Participation activities listed above have been effective in reaching and involving the public in regards to the development of the SWMP and other stormwater pollution prevention public participation processes such as those that occurred during the review and approval of the IDDE ordinance by the County Commissioners in 2009.

Spokane County chairs the Eastern Washington Stormwater Coordinator Group which provides regional coordination on all Permit components. This group meets monthly to quarterly depending on action items. These meetings are open to the public and provide good updates and information on current projects, programs and topics. Agendas for 2013 are included in the Public Involvement Section of the Annual Report.

Element 3: Illicit Discharge Detection and Elimination (IDDE)

Evaluation of the Effectiveness of the Illicit Discharge Detection and Elimination Program

Illicit discharge program elements are focusing initially on evaluating the existing stormwater system and potential non-stormwater discharges into the system to determine potential illicit discharge issues and future water quality monitoring sites. Elements of the IDDE program include; illicit discharge data and mapping, visual inspection program elements, outfall elimination, primary water body inspections, spill prevention and response program elements, public reporting program elements, and hazardous waste disposal program elements.

The IDDE activities listed above have begun to be effective in engaging and educating the public about the importance of preventing illicit discharges to waters of the state. It's anticipated that annual IDDE efforts over the years to come will provide notable advances in the public's knowledge of illicit discharge prevention community involvement.

IDDE actions items are listed in the IDDE and Good Housekeeping Sections of the Annual Report.

Element 4: Construction Site Stormwater Runoff Control

Evaluation of the Effectiveness of the Construction Site Stormwater Runoff Control Activities

The construction site stormwater runoff control program includes activities intended to provide guidance to public and private groups in Spokane County regarding appropriate construction practices, as well as activities intended to support Ecology in implementing its construction permitting program.

The Spokane Regional Stormwater Manual (SRSM) was adopted by the Board of County Commissioners in June of 2008 guides construction efforts within Spokane County. The SRSM establishes standards for stormwater design and management to protect water quality, natural drainage systems and downstream/down gradient properties as urban development occurs. The purpose of the SRSM is not only to protect surface and ground water quality but also to control stormwater runoff, such that adverse impacts from flooding are reduced.

The SRSM describes, or references, recommended design criteria for BMPs that will be applied to new development and redevelopment. The BMPs include criteria for wetlands, bio-infiltration swales, bio-filtration channels, oil-water separators, etc.

The construction site stormwater runoff control requirements listed in the SRSM have begun to be effective in engaging and educating the public about the importance of preventing construction site stormwater pollution. It's anticipated that annual construction related education and outreach efforts over the years to come will provide notable advances in the construction community's knowledge and participation in construction practices that prevent stormwater pollution.

Construction site inspections completed in 2013 are include in the Construction Section of the Annual Report.

Element 5: Post-Construction Stormwater Management for New Development and Redevelopment

Evaluation of the Effectiveness of the Post-Construction Stormwater Management for New Development and Redevelopment Program

The Spokane Regional Stormwater Manual (SRSM) requires the ESC Plan (described within, SRSM, Section 7) to include post-construction review, inspection and compliance. The ESC Plan is required to be submitted with each proposed application for new development or redevelopment that is proposing to disturb more than one acre of land, and from projects of less than one acre that are part of a common plan of development or sale, as required within the Permit.

The post-construction stormwater management for new development and redevelopment activities listed within the SRSM have began to be effective in

assisting the development community to provide for long term maintenance and accountability for stormwater facilities. This will be an ongoing effort that is likely to be a long term challenge due to the transfer of post construction related responsibilities from developers to homeowners and/or homeowner's associations. It's anticipated that the years ahead will provide notable advances in the prevention of post construction related stormwater pollution.

The post-construction inspections are included in the Post-Construction Section of the Annual Report.

Element 6: Pollution Prevention and Good Housekeeping for Municipal Operations

Evaluation of the Pollution Prevention and Good Housekeeping for Municipal Operations Program

Spokane County has developed a Stormwater Operations and Maintenance Plan. This section describes the various pollution control, good housekeeping, BMPs and source control measures that will be applied to existing and new public facilities, and operations to mitigate the effects of urbanization on stormwater quality.

Public stormwater facilities in unincorporated Spokane County fall into three general categories: (1) regional stormwater facilities; (2) facilities that mainly handle road runoff; and (3) on-site stormwater facilities at county owned parks, maintenance shops, county buildings, etc. In several cases, county road crews also maintain stormwater facilities serving a specific development using funds from the owners of all the land within the area served.

In addition, many new developments install on-site stormwater facilities that are owned and maintained privately. For residential developments this may mean that a homeowners association is responsible for maintenance of all stormwater facilities in the neighborhood. For commercial and private industrial facilities, the landowner or operator of the establishment on the site operates and maintains the stormwater facility.

Spokane County will review the following Public Works O&M activities and document the activities in relation to complying with the Permit; regional stormwater facilities, roadway stormwater facilities, stormwater facilities at parks and other county owned properties, construction projects, and employee education and training.

The pollution prevention and good housekeeping for municipal operations activities listed within the SWMP have begun the process to have a positive impact on the O&M operations. This will be an ongoing effort that is likely to see yearly improvement as the knowledge and understanding of the Permit

requirements progresses and department budgets are structured to fund necessary expenses.

The O&M elements for 2013 are included in the Pollution Prevention Section of the Annual Report.

NPDES Phase II - Annual Report

Information Collection, S8.B.1 Description of Monitoring Studies, Year 2013

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. Not applicable at this time.	
2.		
3.		
4.		
5.		
6.		