

Central Washington University Stormwater Planning Project

Stormwater Program Implementation Plan

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Acknowledgements

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Submitted to: Central Washington University Facilities Management Department

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Final Stormwater Program Implementation Plan

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Section I—Background

As Central Washington University (CWU) addresses the requirements and deadlines of a National Pollutant Discharge Elimination System (NPDES) Phase II Permit, it will be important that tools be available to help them know what needs to be done each year and track the status of what is being successfully implemented. A detailed breakdown (matrices) of required annual NPDES activities for Secondary Permittee's has been prepared for CWU. The detailed annual listing of required activities, combined with estimates of needed equipment, staffing, and funding, represents an "Implementation Plan" that CWU can use to track what needs to be done in any given year and make judgments about the resources needed to meet the requirements. The Implementation Plan matrices will also aid in: (1) tracking program implementation; (2) preparing CWU's required NPDES Phase II Stormwater Management Program (SWMP); and (3) preparing and submitting required annual NPDES Phase II reports to the Washington State Department of Ecology (Ecology).

Along with the detailed description of annual activities, the Implementation Plan also discusses the annual funding and staffing needed to achieve regulatory compliance over the five-year term of the NPDES Phase II Permit. The activities described in the Implementation Plan address Ecology's final NPDES Phase II General Permit for Eastern Washington, effective February 16, 2007. However, it should be pointed out that CWU's actual effective date is November 8, 2007—the date on which CWU was given notification of coverage under the Phase II Permit by Ecology.

The Implementation Plan developed for CWU represents the culmination of various work and related analyses performed to date. The work conducted as part of this process included: (1) documentation of CWU's existing stormwater program activities, services, and levels of funding; (2) a review of the most current stormwater requirements through a regulatory assessment; (3) performing a regulatory "gap analysis" to identify enhanced or new activities required for compliance; (4) development of cost estimates for enhanced or new activities, equipment, and projects; and (5) an evaluation of resource allocation, including staffing. The process is described further in Section 2.

Section 2—Summary of Stormwater Program Definition Process

CWU's existing stormwater program has been documented based on various sources of data and information provided by CWU staff. Information provided by CWU included organizational charts, responsibility matrices, annual budgets, staff salaries and benefits, maps, inventories of existing storm system facilities and infrastructure, existing operation and maintenance activities, and other related information. A "stormwater program selfassessment questionnaire form" was also developed and used to establish a baseline understanding of CWU's existing stormwater management activities and priorities. The questionnaire sought information about existing activities related to the regulatory requirements, as well as existing equipment, capital project needs, and estimates of current expenditures. A meeting was held with CWU staff on December 7, 2007 to review and complete the questionnaire form. A copy of the stormwater questionnaire with responses provided by CWU staff is attached (Appendix A). Note that additional information on existing stormwater program activities and costs were provided after completion of the questionnaire. This additional detail is shown in CWU's stormwater program gap analysis (Appendix B).

Local receiving water issues [303(d) listings, Total Maximum Daily Loads (TMDLs), etc.] and other issues that may affect stormwater management requirements were downloaded from various agency sources and reviewed. Additional CWU stormwater program components will be recommended to help comply with any applicable local TMDLs. TMDL related recommendations include activities such as participating in local water quality monitoring activities, providing educational information to students and staff, and other related activities.

The stormwater regulatory assessment was conducted based on review of the final version of the NPDES Phase II Permit, along with guidance provided in the Model Municipal Stormwater Program for Eastern Washington. Information about CWU's existing stormwater program activities, equipment, capital improvement projects, and funding levels were compared to the regulatory requirements to identify the "gap" between what is currently being done and what will need to be done each year to ensure compliance.

The detailed results of the Gap Analysis process are provided in Appendix B, and a brief summary is presented below for each major regulatory requirement.

Public Education and Outreach

Regulatory Requirements

CWU must develop and implement a Public Education and Outreach (PE&O) Program aimed at distributing educational materials to their students and staff about the impacts of stormwater discharges to water bodies and the steps that can be taken to reduce pollutants in stormwater. The education and outreach information should address the following topics:

- How stormwater runoff affects local waterbodies;
- Proper use and application of pesticides and fertilizers;
- Benefits of using well-adapted vegetation;
- Alternative equipment washing practices including cars and trucks that minimize pollutants in stormwater;
- Benefits of proper vehicle maintenance and alternative transportation choices; proper handling and disposal of wastes, including the location of hazardous waste collection facilities in the area;
- Hazards associated with illicit connections; and
- Benefits of litter control and proper disposal of pet waste.

CWU must also label all their storm drain inlets by the end of the five-year permit term.

Status of Existing Activities and Needs

CWU currently does not distribute stormwater educational materials to students and staff. Additionally, storm drains inlets operated and maintained by CWU have not been labeled by staff or other groups (e.g., campus volunteers or student groups). CWU will need to develop and distribute educational information to students and staff by Year 3 (2009). CWU may choose to coordinate with the City of Ellensburg (City) as the City begins to implement its own PE&O Program to comply with the requirements of the NPDES Phase II Permit.

Public Involvement and Participation

Regulatory Requirements

The Public Involvement and Participation (PI&P) activities to be implemented by CWU include publishing a public notice in the local newspaper, soliciting public review of the SWMP, and making the latest version of the SWMP available to the public. All of these items are due in Year 5 (required by August 2011).

Status of Existing Activities and Needs

CWU has not approved a public involvement policy specifically for stormwater. Additional information and involvement efforts to be conducted by CWU include publishing a public notice in a local news paper and posting the most current version of the SWMP on CWU's website. Public comments will be taken into consideration when making future revisions to the SWMP.

Illicit Discharge Detection and Elimination

Regulatory Requirements

CWU must develop, implement, and enforce a program to detect and eliminate illicit discharges into its municipally separate storm sewer system (MS4). This element of the SWMP requires that CWU: (1) develop and adopt appropriate policies that prohibit nonstormwater (illicit) discharges and illegal dumping; (2) develop and implement an enforcement plan to ensure compliance with the illicit discharge policies; (3) develop a map of the MS4, showing the location of all known storm drain outfalls, labeling the receiving waters, and delineating the areas contributing runoff to each outfall; (4) conduct field inspections and visually inspect for illicit discharges at all known outfalls; (5) develop procedures for characterizing illicit discharges; (6) develop and implement a spill response plan that includes coordination with a qualified spill responder; (7) provide adequate training for relevant staff; and (8) keep records of inspections and follow-up activities, staff training, and other related items.

Status of Existing Activities and Needs

CWU has a fairly complete map of its MS4, including an inventory of existing storm system facilities and infrastructure. The location of known storm drain outfalls is included on the map; however, areas contributing runoff to each outfall need to be delineated. Source tracing

and removal activities are limited and conducted on an as-needed basis. CWU needs to adopt and enforce a policy that specifically prohibits non-stormwater (illicit) discharges to its MS4. CWU also needs to comply with all relevant City ordinances, rules, and regulations that pertain to non-stormwater discharges.

Construction Site Stormwater Runoff Control

Regulatory Requirements

This element of the SWMP requires that CWU: (1) comply with all City ordinances, rules, and regulations that govern construction phase stormwater pollution prevention measures; (2) obtain coverage under the *General NPDES Permit for Stormwater Discharges Associated with Construction Activities* for all applicable construction projects under the control of CWU; (3) coordinate with the City regarding construction projects owned and operated by other entities that have the potential to discharge into CWU's storm sewer lines to ensure that the City achieves compliance with its own ordinances; (4) provide training to educate staff in erosion and sediment control best management practices (BMPs) and requirements; and (5) coordinate with Ecology and the City to provide access for inspection of construction sites or other land disturbances during the active grading and/or construction period.

Status of Existing Activities and Needs

CWU currently complies with all City ordinances, rules, and regulations regarding stormwater through the local building permit process. CWU does not have a formal process in place to ensure coordination with the City regarding the use of stormwater pollution prevention measures on construction projects that occur on campus property that are not specifically CWU projects. A formal Memorandum of Understanding (MOU) with the City, Ellensburg Water Company, and the Washington State Department of Transportation may be the preferred avenue for having formal documentation and notification of construction activities. CWU currently coordinates with Ecology and the City to provide access for inspection of construction sites. CWU needs to provide training to relevant staff to educate them on erosion and sediment control BMPs and requirements. CWU may want to begin incorporating the minimum technical requirements for stormwater management listed in Appendix 1 of the NPDES Phase II Permit for new development and redevelopment projects. The City is required to adopt Appendix 1 (or equivalent requirements) into their ordinances by Year 3 to control construction and post-construction stormwater runoff, at which time CWU will have to comply. Becoming familiar with the language and requirements now will ease the transition in Year 3.

Post-Construction Stormwater Management for New Development and Redevelopment

Regulatory Requirements

This element of the SWMP requires that CWU: (1) comply with all City ordinances, rules, and regulations that govern post-construction stormwater pollution prevention measures; and (2) coordinate with the City regarding projects owned and operated by other entities that have the potential to discharge into CWU's storm sewer lines to ensure that the City achieves compliance with its own ordinances.

Status of Existing Activities and Needs

CWU currently complies with the City's existing ordinance and storm drainage standards which address post-construction stormwater management. However, the City's ordinance and existing standards need to be updated to meet NPDES Phase II requirements. As discussed previously, the City is required to adopt Appendix 1 (or equivalent requirements) into their stormwater-related ordinances. CWU will need to incorporate these new/revised post-construction stormwater pollution prevention measures into planned future projects.

Pollution Prevention and Good Housekeeping for University Operations

Regulatory Requirements

CWU must develop and implement a municipal operation and maintenance (O&M) plan to minimize stormwater pollution from activities conducted by CWU. The O&M Plan shall include appropriate pollution prevention and good housekeeping (PP&GH) procedures for various CWU operations, activities, and/or facilities (e.g., maintenance associated with stormwater collection and conveyance system, municipal buildings, parks and open space, vehicle fleets, etc.). The O&M Plan shall include a schedule of inspections and record keeping requirements. CWU must obtain permit coverage for all facilities that are required to be covered under the *General NPDES Permit for Stormwater Discharges Associated with Industrial Activities*. In addition, CWU must develop and implement a formal training program for all staff whose job functions may impact stormwater quality.

Status of Existing Activities and Needs

CWU has an informal street sweeping program in place for campus roads and parking lots. Facilities Management Department staff currently perform catch basin and other storm system maintenance on a limited basis. University fleet washing and maintenance is currently

conducted in a contained building, which likely meets this component of the regulatory requirements. However, these and other existing activities and policies need to be documented in a formal O&M Manual. In addition, numerous other CWU operation and maintenance activities (e.g., parks and open space, University buildings, stormwater management facilities, etc.) need to be examined, and modified as needed, to protect water quality. A documented training program needs to be established. CWU may consider partnering with the City to have a regional decant facility constructed for the management of wastes generated as a result of stormwater maintenance activities (catch basin cleaning, etc.).

Compliance with Total Maximum Daily Load Allocations

Regulatory Requirements

Ecology conducted a review of all TMDLs approved by EPA at the time of the final permit issuance (January 17, 2007) to determine whether stormwater, including municipal stormwater sources, were identified in any of the TMDLs. Ecology did not identify any TMDLs with established load or waste load allocations for municipal stormwater discharges covered under the permit. Since Ecology has not identified any TMDLs with more specific requirements than those found in the NPDES Phase II Permit, compliance with the permit constitutes compliance with applicable TMDLs. However, CWU is encouraged to participate in the development of local TMDLs to ensure that stormwater impacts are responsibly addressed and to help control potential future costs.

Monitoring and Program Evaluation Requirements

Regulatory Requirements

Although water sampling or other testing is not specifically required during the first permit term, CWU must annually report any stormwater monitoring or studies and investigations conducted by, on behalf of, or reported to CWU. CWU must also perform an annual assessment of the appropriateness of the BMPs identified for each SWMP component.

Status of Existing Activities and Needs

These requirements will be fulfilled as the SWMP is further developed and implemented. CWU is encouraged to sponsor or participate with the City and/or local agencies conducting routine or special water/stormwater quality monitoring studies to assess baseline conditions in local area receiving waters.

Reporting and Record Keeping Requirements

Regulatory Requirements

CWU is required to prepare and submit annual reports to Ecology. The report must include the most current version of CWU's SWMP and status of compliance with the various conditions outlined in the permit. The annual reports must include: (1) the status of implementation of each SWMP component; (2) an assessment of CWU's progress in meeting the minimum performance standards; (3) a summary of CWU's evaluation of their SWMP; (4) if applicable, notification that CWU is relying on another governmental agency (City of Ellensburg) to satisfy any of the obligations under the permit; and (5) other reporting requirements.

Status of Existing Activities and Needs

CWU will need to develop and implement an on-going process for gathering, recording, maintaining, and using information to track the development and implementation of their SWMP. Designated staff will need to itemize the types of record keeping needed for the various program components, meet with various departments to assess needs for new or enhanced processes, create record keeping forms and protocols, and work with staff at various levels to implement the process.

Section 4—Detailed Annual Stormwater Program Implementation Matrices

CWU's stormwater program activities can be divided into the following major categories: (1) NPDES Phase II Requirements, (2) NPDES Equipment, and (3) Capital Projects.

A detailed matrix of required annual stormwater activities is presented in Appendix B as part of the Gap Analysis. For convenience, a summary table has been provided for each of the requirements and CWU's expected activities over the five-year permit term (Appendix C). Appendix C is in a check list format to assist CWU in determining what needs to be done for a particular activity in a given year and to track the status of program implementation over time.

As discussed earlier, the annual matrices are based primarily upon the final NPDES Phase II General Permit for Eastern Washington. However, professional judgment and experience with similar projects has been used to "fill in the blanks" when necessary, such as describing the intermediate steps necessary to meet regulatory deadlines. The activities in the matrices reflect what NPDES II requires and when, not what CWU may already be doing. In some cases, CWU has already at least partially met NPDES requirements. It should also be pointed out that the schedule developed for the required activities generally reflects the minimum required timeframes (deadlines) for implementation over the five-year term of the permit. However, some activities will be started in earlier years based on anticipated level-of-effort, expected timeframes, and local preferences.

Section 5—Summary of Resources Needed for CWU's Updated Stormwater Program

Annual Revenue Needs

The estimated annual revenue for implementing CWU's stormwater program over the fiveyear term of the permit (2007-2011) is summarized in Table 5.1. The table includes a summary of estimated annual costs for each program area category, total annual program costs, and total five-year program cost. Table 5.1 also includes a breakdown in revenue needed for the following major areas: (1) equipment; (2) capital projects; and (3) staff, fees, overhead, and services. A detailed listing of the estimated annual costs for each of the required activities is presented in the Gap Analysis matrices in Appendix B.

NPDES equipment and funding needs have been identified and are included in Appendix B for the following categories: (1) illicit discharge detection and elimination (IDDE Program) and (2) good housekeeping (O&M Program). Additional funds will need to be obtained through future (2009/2011) biennial budget requests to support the purchase, repair, and replacement of needed IDDE and O&M Program equipment.

A formal list of stormwater capital projects with estimated costs was not provided or developed as part of this project. However, stormwater capital project and funding needs have been identified and are included in Appendix B for the following types of projects: (1) known or planned projects and (2) unforeseen projects discovered as the stormwater program is implemented. Additional funds to support the planning, design, and construction of stormwater capital projects will need to be obtained through future biennial budget requests.

The following list of assumptions was used in developing costs:

- Currently funded activities, such as storm system maintenance, street/parking lot sweeping, and staff education will continue to be performed at current levels of effort for the first few years of the permit with new/enhanced practices to be phased-in during later years of the program.
- Costs associated with the base sweeping program will be increased on an annual basis (approximately 30%) to account for escalating fuel, maintenance, and other related costs.
- NPDES equipment funds will be deferred until Permit Year 4. It is assumed that
 additional funds totaling \$250,000 will be requested during the 2009/2011 biennial
 budgeting process. Funds will be used to cover equipment needs associated with the
 IDDE Program (\$50K) and the O&M Program (\$200K total; \$150K for purchase of a
 new high-efficiency sweeper unit and \$50K for other O&M related equipment).
- Stormwater capital improvement project funds totaling \$300,000 will be requested during the 2009/2011 biennial budgeting process. Funds will be used to support the construction of a future equipment washout station at the Jongeward Complex (estimated at \$250K) and to cover any minor unforeseen projects (\$50K).

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Section 5—Summary of Resources Needed for CWU's Updated Stormwater Program Continued

| Table 5.1 | | | | | | | | |
|--|-------------|-----------|-------------|-----------|-----------|-------------|--|--|
| Summary of Estimated Annual Program Revenue Needs | | | | | | | | |
| Program Area Year I Cost Year 2 Cost Year 3 Cost Year 4 Cost Year 5 Cost 5 Year To | | | | | | | | |
| 1. NPDES | - | | | | | | | |
| A. General NPDES Requirements | \$2,700 | \$2,700 | \$3,500 | \$4,000 | \$4,500 | \$17,400 | | |
| B. Public Education and Outreach | \$ 0 | \$0 | \$9,500 | \$9,500 | \$6,000 | \$25,000 | | |
| C. Public Involvement | \$0 | \$0 | \$0 | \$0 | \$3,500 | \$3,500 | | |
| D. Illicit Discharge Detection & Elimination | \$12,000 | \$36,500 | \$26,500 | \$21,500 | \$18,500 | \$115,000 | | |
| E. Construction Site Stormwater Runoff | \$12,500 | \$6,500 | \$6,500 | \$6,500 | \$6,500 | \$38,500 | | |
| F. Post Construction Stormwater Management | \$0 | \$500 | \$500 | \$500 | \$500 | \$2,000 | | |
| G. Pollution Prevention/Good Housekeeping | \$57,000 | \$95,000 | \$195,000 | \$219,500 | \$255,500 | \$822,000 | | |
| H. Compliance with TMDLs | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$7,500 | | |
| I. Monitoring and Program Evaluation | \$500 | \$500 | \$500 | \$1,000 | \$1,000 | \$3,500 | | |
| J. Reporting and Record Keeping | \$14,000 | \$26,500 | \$24,000 | \$28,000 | \$28,000 | \$120,500 | | |
| K. NPDES Equipment Funds | \$0 | \$0 | \$0 | \$250,000 | \$0 | \$250,000 | | |
| L. NPDES Capital Project Funds | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$300,000 | | |
| Annual Total | \$100,200 | \$169,700 | \$267,500 | \$842,500 | \$325,500 | \$1,704,900 | | |
| | _ | | | | | | | |
| Equipment | \$ 0 | \$0 | \$ 0 | \$250,000 | \$0 | \$250,000 | | |
| Capital | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$300,000 | | |
| Staff, Fees, Overhead, Services | \$100,200 | \$169,700 | \$267,500 | \$292,500 | \$325,500 | \$1,154,900 | | |

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Section 5—Summary of Resources Needed for CWU's Updated Stormwater Program Continued

• Staff salary estimates were based on information included in the Model Municipal Stormwater Program for Eastern Washington and from current salary and benefit information provided by CWU staff during the stormwater planning project.

Staffing Needs

Maintenance and Operations Staff

Maintenance and operations staff include those involved in: (1) implementing pollution prevention and good housekeeping practices for various CWU operations, activities, and/or facilities; (2) storm system inspection, maintenance, and source control functions; (3) illicit discharge detection and elimination activities and spill/complaint response; (4) coordination with technical support staff during implementation of new/enhanced practices; and (5) proper documentation and record keeping.

Assuming that maintenance and operations staff with benefits and overhead costs about \$100,000 per FTE (assuming average base salary of about \$60,000 per year), then approximately 2.0 FTE above current staffing will be needed to perform the above stated activities. "Overhead" refers to the cost of providing an employee with things like space, utilities, janitorial services, minor office supplies, human resources support, technology support, administrative support, safety supplies and programs, and so on (everything other than direct benefits such as health insurance, sick and annual leave, and retirement). The overhead cost per FTE was calculated by multiplying the base salary plus benefits by an assumed factor of 1.65.

Project Administration/Technical Support Staff

Project administration and technical support staff include those involved in enhanced efforts such as: (1) conducting targeted stormwater public education and outreach for staff and students; (2) conducting illicit discharge detection and elimination activities and enforcement; (3) coordinating with the City, Ecology, and other entities to ensure compliance with local construction/post-construction stormwater pollution control measures; (4) reviewing and updating University policies and plans that pertain to stormwater when necessary; (5) providing stormwater technical assistance to various department staff; (6) oversight of good housekeeping training and program implementation by various departments; (7) attending periodic training; (8) SWMP planning and management; and (9) record keeping and reporting.

Section 5—Summary of Resources Needed for CWU's Updated Stormwater Program Continued

Given the wide array of activities, it is difficult to accurately estimate FTEs for the individual categories listed above. However, for illustrative purposes, if we again assume that staff with benefits and overhead have an average cost of about \$100,000 per FTE, and it is assumed that miscellaneous services and fees (e.g., NPDES permit fee, legal services, consultant service agreements, etc.) consume about 20% of the "*Staff, Fees, Overhead, and Services*" budget, then approximately 1.0 FTE would be required for the above stated activities.

A very rough breakdown of the above-mentioned additional FTEs needed by Permit Year 5 might include the following:

- Storm system inspection, maintenance, and source control-1.75 FTE
- IDDE activities, spill/complaint response, enforcement-0.2 FTE
- Good housekeeping training and programs and support for program implementation—0.5 FTE
- Stormwater public education and outreach efforts-0.1 FTE
- Administrative support and NPDES record keeping and reporting-0.2 FTE
- Program planning and management-0.5 FTE

Total additional staff—3.0 FTE

Note that this breakdown in FTEs is only for planning purposes. It will be important for the CWU program to adapt to conditions as they arise and to respond to how University leaders want implementation to occur as the process moves forward.

Appendix A—Existing CWU Stormwater Program Questionnaire

Central Washington University Existing Stormwater Program Activity Information

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New I Source (Yes |
|---|--|---|---------------------------------------|-------------------------|
| | | NPDES | | |
| Start-Up: | | | | |
| BMP S1 - Self Analysis of Existing SWM Program, Identify Local Compliance Needs, Priorities, Costs, Space, Staffing, Equipment, and Funding Needs | | To be developed as part of the Central Washington University (CWU) Stormwater Planning Project. | | |
| BMP S2 - Develop Local SWM Action Plan/Schedule | | To be developed as part of the CWU Stormwater Planning Project. | | |
| BMP S3 - Adopt Needed Interlocal Agreements | | To be developed. Agreements with City of Ellensburg may be necessary as stormwater program is developed and implemented. | | |
| BMP S4 - Create Local Funding Develop an acceptable response to NPDES permit requirements by creating adequate staffing & funding needed for implementation of regulatory compliance activities. | | To be determined. | | |
| Permit Compliance: | | | | |
| 1. Public Education and Outreach | | | | |
| Required BMP 1.1 - Public Education and Outreach: Develop and implement stormwater education strategies consisting of the following: Storm drain inlets owned and operated by the Secondary Permittee that are located in maintenance yards, parking lots, along sidewalks, and at pedestriar access points shall be clearly and permanently labeled with the message "Dump No Waste" and indicating the point of discharge as a river, lake, or groundwater. Develop and distribute educational information to tenants and residents about the impacts of stormwater discharges and the steps that can be taken to reduce pollutants in stormwater runoff. Note: Compliance can be achieved through participation in the City's public education and outreach programs. Measurable Goals: By the end of Permit Year 3, label at least 50% of the storm drain inlets. No later than 180 days prior to the expiration of the permit, label all remaining storm drain inlets. Re-label any storm drain inlet that is no longer clearly visible and/or easily readable within 90 days. No later than 3 years from the date of permit coverage, and each year thereafter, distribute educational information to tenants and residents. | material related to stormwater, in any form, to tenants and/or residents? | None are labeled at present | | |
| BMP 1.1.1 - Stormwater Website: Create a stormwater website that contains educational information related to stormwater. Measurable Goal: Complete a stormwater website section on an existing web page or independently; update monthly. (Per Model Muni SW Program for E WA) | Does CWU currently maintain a stormwater website (section within CWU website or independent site) that contains educational information related to stormwater? | There is no website currently. A site for sustainability will include information on our stormwater protection measures (www.cwu.edu/~sustainability/stormwater). | | |

| w Funding rce Needed 'es or No) | Notes and Additional Information |
|---------------------------------------|---|
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| | |
| | |
| | |
| | Get stencil from city for use or copy? Akers For educational materials in curriculum, start with Carey Gazis and Bill Bender, IET, and in residence halls, Rich DeShields would provide information. Kevin Higgins, police and public safety Bob Hendrickson, Maintenance Supervisor John Akers coordinates Boyscouts and childcare groups stenciling. Lorinda Anderson, civic engagement and service learning Look for documents on the Ecology website or from the city for educational distribution. See Univ. of Minnesota Deluth for a model. We can create a fact sheet and workshops too. |
| | This site should be completed by end of winter quarter 2008. We could possibly link up with a city site ask Akers. |

| Description of BMP/Activity Required for Permit | BMP/Activity Information Requested | Provide Information on Existing Activities that | Estimate of | New Funding | Notes and Additional Information |
|---|---|--|------------------------|------------------------------|---|
| Compliance | | Meet BMP, Direction, and Assumptions | Current Expenditure | Source Needed (Yes or No) | |
| | | (Include as much information as possible, such as responsible | Experience | | |
| | | division, staff, estimated FTE, equipment used, etc.) | | | |
| 2. Public Involvement and Participation | | | | | |
| Required BMP 2.1 - Public Involvement & Participation: | Does CWU have a mechanism in place for consideration of public | Public comments will be sent to Bill Vertrees, then copied and | | | NOI for the permit has been submitted. An NOI for the plan |
| Publish a public notice in the local newspaper and solicit pubic review of the SWMP. | comments anticipated on the proposed stormwater management program (SWMP)? | responded to by Karen Bicchieri, with approval by Greg Poe and Bill Yarwood, to be signed by Vertrees as a public document. For | | | will have to be submitted. |
| Make available to the public the most current version of the SWMP. Note: Recommend development and implementation of a process for considering public comments on the SWMP. | | Residence Halls related policy and public comment, Richard DeShields will also approve. | | | |
| Measurable Goal: No later than 180 days prior to the expiration of the permit, publish a pubic notice in the local newspaper and make the latest updated version of the | | | | | |
| SWMP available to the public (post on website if available). | | | | | |
| 3. Illicit Discharge Detection and Elimination | | | | | |
| Required BMP 3.1 - Comply with Local Ordinances, Rules, and Regulations: Comply with all relevant ordinances, rules, and regulations of the local | Does CWU currently comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges? | Gap analysis with Otak. | | | confirm with John Akers. Greg Poe and Bob Hendrickson are the primary involved. Involve supervisors to find examples of non-compliance. |
| jurisdiction(s) in which the Secondary Permittee is located that govern non- stormwater discharges. | | | | | Check for a policy that says CWU follows local ordinance. |
| Measurable Goal: By the effective date of the permit, comply with all relevant ordinances, rules, and regulations of local jurisdiction(s). | | | | | |
| Required BMP 3.2 - Regulatory Policy: | Does CWU currently have regulatory policies that prohibit illicit | No. | | | Not yet. We mainly follow state law as practice, says |
| | discharges and illegal dumping from entering the storm drainage | | | | Calvin Lang. Munson and supervisors should be involved. |
| illegal dumping into the MS4. The policies shall address: illicit connections; non-stormwater discharges; and spilling, dumping, or otherwise improperly | system and authorizes enforcement actions? If so, has an enforcement plan/strategy been developed, which sets goals and | | | | We need to have/ create an internal policy (even if it says |
| disposing of haz. materials, pet waste, and litter. | courses of action that are carried out to meet the regulatory | | | | only that we are "adopting city policy" and tailor it to |
| Identify possible enforcement mechanisms and develop and implement an | provisions? | | | | CWU). |
| enforcement plan using these mechanisms to ensure compliance with illicit discharge policies. | | | | | |
| Measurable Goal: | | | | | |
| No later than 1 year from the date of permit coverage, develop and adopt policies prohibiting non-stormwater discharges. | | | | | |
| No later than 1 year from the date of permit coverage, identify possible enforcement mechanisms. | | | | | |
| No later than 18 months from the date of permit coverage, develop and implement an enforcement plan to ensure compliance with policies. | | | | | |
| (One time cost for illicit discharge policies and enforcement plan; ongoing enforcement needed) | | | | | |
| Required BMP 3.3 - Develop Map of Storm Sewer System: | | Map is approximately 75-80% complete in AutoCAD. Need | | 1 | Bob Tosch, Charles Pringle are responsible. |
| Develop and maintain a map showing the location of the following: all | locations of all known outfalls, connections to the City's MS4, | topographic data added in. | | | |
| known storm drain outfalls; the names and locations of all receiving waters; and areas contributing runoff to each outfall. | receiving waters, and areas contributing runoff to each outfall? | | | | Draw the main trunk lines (drain pipes) with ours and the city's in different colors. Make a layer on the map called |
| Provide maps and mapping information to Ecology and/or other entities | | | | | "subbasins", plus surface features, stormdrains, and contour |
| covered under the permit (upon request). | | | | | lines. |
| Maintain documentation of map information; update periodically. | | | | | |
| Measurable Goals: No later than 180 days prior to the expiration of the permit, develop a storm | | | | | |
| sewer system map. | | | | | |
| (One time cost to develop map; ongoing activities to update and maintain) | | | | | |

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New Funding Source Needed (Yes or No) | Notes and Additional Information |
|--|---|---|---------------------------------------|---|---|
| Required BMP 3.4 - Field Assessments: Conduct field inspections and visually inspect for illicit discharges at all known outfalls that discharge to surface waters. Develop and implement procedures to identify and remove any illicit discharges. Keep records of inspections and follow-up activities. Measurable Goal: No later than 2 years from the date of permit coverage, visually inspect 1/3 (on average) of all known outfalls each year, develop and implement procedures to identify and remove illicit discharges, and keep records. | Does CWU currently conduct field inspections and visually inspect for illicit discharges at known outfalls? Has CWU developed and implemented procedures for the identification and removal of illicit discharges? If so, are records of inspections and follow-up activities maintained? | | | | Define what we are looking for, where we are looking, and schedule. If applicable, we will do testing, and further measures to protect the creek. Greg Poe and Bob Tosch are responsible. Karen Bicchieri will develop an initial policy/ plan. Bill Rice will send the document from the Center for Watershed Protection. |
| Required BMP 3.5 - Spill Response Plan Develop and implement a spill response plan that includes coordination with a qualified spill responder. Measurable Goal: No later than 180 days prior to expiration of the permit, develop and implement a spill response plan. (One time cost for plan) | Does CWU currently have a spill response plan coordinated through a qualified spill responder? DEFINE (is this a 40 hour HAZMAT class?) | | | | Ron Munson in Environmental Health and Safety made a plan in 1999 with GN Northern. The updated plan should be shared with the city public works and emergency response/ fire department. |
| Required BMP 3.6 - Training: Provide staff training or coordinate with existing training efforts to educate all relevant staff on proper best management practices (BMPs) for preventing spills and illicit discharges. Measurable Goal: No later than 180 days prior to expiration of the permit, train all relevant staff. | Does CWU currently provide or receive training on proper BMPs for preventing spills and illicit discharges? | Yes. Ron Munson and Pam Coppersmith in EHS are trained. | | | Ron Munson ihas a BA in safety management and Pam Coppersmith has a BA in industrial hygiene. They both received Hazwopper training with refreshers of 40 hours/year/person. They also participate in a lab safety campus wide program. (how many hours per year training for each and total?) |
| 4. Construction Site Stormwater Runoff Control | | • | | | |
| Required BMP 4.1 - Comply with Local Ordinances, Rules, and Regulations: Comply with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the Permittee is located that govern construction phase stormwater pollution prevention measures. Measurable Goal: By the effective date of the permit, comply with all relevant ordinances, rules, and regulations of local jurisdiction(s). | Does CWU currently comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern construction phase stormwater pollution prevention measures? | | | | Bill Yarwood and Eric Fraley add things in capital project bid documents and design standards to involve the design team. Does our standard language written into capital project bid documents reference state or local law, or other? |
| Required BMP 4.2 - Construction Projects: Obtain coverage under the NPDES Construction Stormwater General Permit for all construction projects under the control of the Secondary Permittee that require a construction stormwater permit. Measurable Goal: By the effective date of the permit, obtain coverage under the NPDES Construction Stormwater General Permit for construction projects that require coverage. | Does CWU seek coverage under the NPDES Construction Stormwater General Permit for all construction projects that are owned and operated by the University that require permit coverage? | No, we will have to follow city ordinance. | | | Permits for capital projects are largely obtained by the contractor and design team. Bill Yarwood and Eric Fraley are responsible for capital projects. If there is no fence: Bob and Greg responsible for maintenance, repair and upgrades. Write up internal procedures for FMD level NPDES application. Find out what the threshold requirements are (is now >1 acre, used to be 5), and whether we have applied in the past, or only the contractor. Is this part of the city building permit? |

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New Source (Yes |
|---|---|---|---------------------------------------|--------------------|
| Required BMP 4.3 - Coordination with Local Jurisdiction(s): Coordinate with the local jurisdiction(s) regarding construction projects owned and operated by other entities, which discharge into the Permittee's MS4, to assist the local jurisdiction with achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s). Measurable Goal: By the effective date of the permit, coordinate with local jurisdiction(s) on construction projects owned and operated by other entities to assist local jurisdiction(s) with achieving compliance. | Does CWU currently coordinate with the City of Ellensburg on construction projects that are owned and operated by other entities to assist the City with achieving compliance with all relevant ordinances, rules, and regulations of the City that govern construction phase stormwater pollution prevention measures? | Yes, but this coordination could be formalized and improved. | | |
| Required BMP 4.4 - Training: Provide staff training or coordinate with existing training efforts to educate all relevant staff in erosion and sediment control best management practices (BMPs) and requirements, or hire trained contractors to perform the work. Measurable Goal: By the effective date of the permit, train all relevant staff or hire trained contractors. | Does CWU currently provide or receive training in erosion and sediment control BMPs and requirements? | No. | | |
| Required BMP 4.5 - Coordination to Provide Access for Construction Site Inspection: Coordinate with Ecology or the local jurisdiction(s) to provide access for inspection of construction sites or other land disturbances, which are under control of the Secondary Permittee, during the active grading and/or construction period. Measurable Goal: By the effective date of the permit, coordinate with Ecology or local jurisdiction(s) to provide access for inspection of construction sites. | Does CWU currently coordinate with Ecology and/or the City of Ellensburg to provide access for inspection of construction sites or other land disturbing activities during the active grading and/or construction period? | Yes, there is coordination. | | |
| 5. Post-Construction Stormwater Management for New Developm | ent and Redevelopment | | | |
| Required BMP 5.1 - Comply with Local Ordinances, Rules, and Regulations: Comply with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the Permittee is located that govern post-construction stormwater pollution prevention measures. Measurable Goal: By the effective date of the permit, comply with all relevant ordinances, rules, and regulations of local jurisdiction(s). | Does CWU currently comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction stormwater pollution prevention measures? | Yes, we comply, but formal policy/ procedures need to be written. | | |
| Required BMP 5.2 - Coordination with Local Jurisdiction(s): Coordinate with the local jurisdiction(s) regarding construction projects owned and operated by other entities, which discharge into the Permittee's MS4, to assist the local jurisdiction with achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s). Measurable Goal: By the effective date of the permit, coordinate with local jurisdiction(s) on construction projects owned and operated by other entities to assist local jurisdiction(s) with achieving compliance. | Does CWU currently coordinate with the City of Ellensburg on construction projects that are owned and operated by other entities to assist the City with achieving compliance with all relevant ordinances, rules, and regulations of the City that govern post- construction stormwater pollution prevention measures? | Yes. | | |

| ew Funding ource Needed (Yes or No) | Notes and Additional Information |
|---|--|
| | We could write up a MOU with the EWC, city and state DOT for formalized documentation and notification of activities Ask Bruce Porter if there is legal agreement for cooperation. |
| | Bill Bender says cursory training is provided in IET, in the Const. Mgmt. standard curriculum. IET could provide training or recommend consultant. FMD needs training. |
| | Responsible parties: Bill Yarwood and Eric Fraley, John Akers and Bill Vertrees, Bob Tosch and Greg Poe. |
| | |
| | We will need to confirm with John Akers that we properly comply as new ordinances are written. Project managers responsible for this. We will need to look at what gets written into specifications for projects and probably enhance the standard language to comply with this measure. For example, specifying that we have underground storage or swales that hold peak discharge for the one and two-year, 24-hour design storms. Responsible parties: Vertrees, Akers, Poe, Porter. |
| | , , |

| Description of BMP/Activity Required for Permit Compliance | | | Estimate of Current Expenditure | New I Source (Yes |
|---|--|--|---------------------------------------|-------------------------|
| 6. Pollution Prevention and Good Housekeeping for Municipal Op | perations | | | |
| Required BMP 6.1 - Municipal O&M Plan: Develop and implement an operation and maintenance plan (O&M Plan) to minimize stormwater pollution from various activities conducted by the Secondary Permittee. The O&M Plan shall include the following: BMPs or pollution prevention and good housekeeping (PPGH) procedures that are to be applied for the various types of operations, activities, and/or types of facilities described below; A schedule of inspections and maintenance activities; and Procedures for record keeping to ensure sufficient documentation and records as necessary to demonstrate compliance. Measurable Goal: No later than 3 years from the date of permit coverage, develop and implement an O&M Plan. (One time cost for plan; ongoing program needed) | Has CWU developed and currently implementing a municipal O&M Plan that includes the application of specific BMPs for various operations, activities, and/or facilities that are protective of water quality? | A No. | | |
| Required BMP 6.1.1 - Stormwater Collection & Conveyance System: Per the O&M Plan, implement catch basin and other system cleaning, stormwater system maintenance, scheduled structural post-construction stormwater control BMP inspections and maintenance to ensure facility function, and other PPGH practices. Includes conducting spot checks of all stormwater treatment and flow control facilities (BMPs) following a 24-hour storm event with a 10-year or greater recurrence interval. Keep records of all inspections, spot checks, and repairs or maintenance performed. Measurable Goal: No later than 3 years from the date of permit coverage, implement schedule of required cleaning, inspection, and maintenance activities established in the O&M Plan. | Does CWU currently perform routine inspections, cleaning, and maintenance of the stormwater collection and conveyance system? Are specific pollution prevention practices or BMPs employed to minimize impacts to water quality? Are wastes removed from the system disposed of properly? Are stormwater treatment and flow control facilities (BMPs) regularly inspected, especially after larger storm events? Are records of such activities maintained? | Not consistently, and very limited. There is no maintenance information for the storage vaults. | | |
| Required BMP 6.1.2 - Roads, Highways, and Parking Lots: Per the O&M Plan, implement PPGH practices for all roads, highway, and parking lots. Address de-icing, anti-icing, and snow removal practices; snow disposal areas; material storage areas; and all-season BMPs to reduce road/parking lot debris and other pollutants from entering the MS4. Measurable Goal: No later than 3 years from the date of permit coverage, implement all required PPGH practices established in the O&M Plan. | Does CWU currently employ pollution prevention and good housekeeping practices for O&M activities related to roads, highways, and parking lots? Does CWU currently have a road and parking lot sweeping program? | Some measures are taken. We have an informal sweeping program that happens 3-4 times/year, or more frequently for parking lots. | | |
| Required BMP 6.1.3 - Vehicle Fleets: Per the O&M Plan, implement PPGH practices for storage, washing, and maintenance of vehicle fleets and fueling facilities. Includes conducting all vehicle and equipment washing and maintenance in a self-contained covered building or other designated area. Measurable Goal: No later than 3 years from the date of permit coverage, implement all required PPGH practices established in the O&M Plan. | Does CWU currently employ pollution prevention and good housekeeping practices for O&M activities related to vehicle fleet storage, washing, fueling, and maintenance? Does CWU conduct vehicle and equipment washing and maintenance in a self-contained covered building? | Some for storage. Yes washing and maintenance of fleet in contained building. Equipment: Lawn movers, street sweeper, concrete truck washing done uncontained. No for fueling. Consideration: Paint striping, trucks. | | |

| v Funding rce Needed es or No) | Notes and Additional Information |
|--------------------------------------|---|
| | |
| | Develop based on model from city or other entity, such as U. of Minn. example. Responsible parties: Poe, Sparks, Bicchieri. |
| | |
| | Develop inspection and maintenance procedrues. Responsible parties: Brad Sparks, Bob Tosch, Greg Poe, Calvin Lang. |
| | Define "good housekeeping" measures. Poe will look at time cards for hours and costs on sweeping/cleaning. Write procedures for use and storage of de-icers/sand, snow removal and storage, and sweeping. Responsible parties: Poe, Higgins, Lang, Tosch. |
| | What does the drain near the fueling pump do/ where does it go? Note that too clean of water messes up the sewage treatment plant and it can't be put in storm drain either. |
| | Responsible parties: Poe, Munson, Bob Hendrickson, Calvin Lang, Steve Johnson. |

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New Funding Source Needed (Yes or No) | Notes and Additional Information |
|--|---|---|---------------------------------------|---|---|
| Required BMP 6.1.4 - External Building Maintenance: Per the O&M Plan, implement PPGH practices for building exterior cleaning and maintenance, including cleaning, washing, painting, and other maintenance activities. Measurable Goal: No later than 3 years from the date of permit coverage, implement all required PPGH practices established in the O&M Plan. | | No capture on window washing. On restoration, the job is contracted out and all effluent is captured. | | | Poe will check on the soap used (biodegradable?) and other housekeeping that could affect groundwater. Tosch will provide info on procedures for exterior cleaning, with and without chemical solutions. Tosch will also check for regulations written into contracts for facade cleaning. Also responsible: Otto Bach (SURC), Sunny Bloxum, Ken Baxter, Dan Layman (dining), and Steve Johnson (Housing) |
| Per the O&M Plan, implement maintenance PPGH practices at all park areas and other open spaces. Address proper application of fertilizers, pesticides, and herbicides; sediment and erosion control; BMPs for landscape | Does CWU currently employ pollution prevention and good housekeeping practices for O&M activities at parks and open spaces to minimize impacts to water quality? Are fertilizers, pesticides, and herbicides applied at proper rates and by properly trained staff? Are sediment and erosion control BMPs utilized? Are BMPs for landscape maintenance and vegetation disposal utilized? | Incomplete practices. | | | See Ecology's guide for BMPs. Fertilizer, etc. applied according to good practices/ law, but sediment and erosion control are not really considered. Responsible parties: Poe and Lang (grounds), Steve Johnson and Greg Poe (trash management). |
| Required BMP 6.1.6 - Material & Heavy Equipment Storage and | Has CWU developed stormwater plans for select facilities (e.g., material and heavy equipment storage areas and maintenance areas) that would reasonably be expected to discharge contaminated runoff and are also not covered under Ecology's Industrial Stormwater General Permit? | no. SURC has its own SWP. | | | Responsible parties: Bob Hendrickson and Calvin Lang |
| Required BMP 6.1.7 - Other Facilities: Per the O&M Plan, implement stormwater pollution prevention practices or BMPs at facilities that would reasonably be expected to discharge contaminated runoff. Measurable Goal: No later than 3 years from the date of permit coverage, implement stormwater pollution prevention practices or BMPs established in O&M Plan at identified facilities. | | Roof leaders are all protect from pollution on a case-by-case basis, so this is not applicable. | | | Science labs, and possibly IET labs should be specifically contained as haz mat, or directed to sanitary sewer, so this is not applicable. |
| Required BMP 6.2 - Industrial Activities: Obtain coverage under NPDES Industrial Stormwater General Permit at all designated facilities owned or operated by the Secondary Permittee. Measurable Goal: By the effective date of the permit, obtain permit coverage. (One time cost to obtain permit coverage; ongoing program needed) | Does CWU currently operate industrial facilities that discharge stormwater runoff to surface water and/or the storm drainage system? Are these facilities currently covered under Ecology's NPDES Industrial Stormwater General Permit? | Not applicable at this time. | | | May need to be addressed for future innovation park. |
| Provide adequate training for all construction, operations, and maintenance staff who perform activities consistent with the O&M Plan or related | Does CWU currently provide or receive training on operation and maintenance requirements, inspection procedures, ways to perform duties while minimizing impacts to water quality, and other relevant training? | | | | Poe is currently developing a training program, but it is not yet implemented. Poe custodial. Tosch exterior See 6.1.4 |

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New I Source (Yes |
|---|--|---|---------------------------------------|-------------------------|
| 7. Compliance with Total Maximum Daily Load Requirements | | αποιοί, σκη, εσιπαίου τ τ2, εφαρποιά ασα, είες | | |
| Required BMP 7.1 - Compliance with TMDLs: | Note: At the time of permit issuance, Ecology had not identified any | N/ A | | |
| Comply with the requirements of all applicable TMDLs approved by EPA, | applicable TMDLs with more specific requirements than those listed in the permit. Thus, compliance with the permit constitutes compliance with all local TMDLs. However, for TMDLs that are approved by EPA after the permit is issued, Ecology may establish TMDL-related permit requirements for municipal stormwater sources through a formal permit modification or through the issuance of an administrative order. | | | |
| Measurable Goals: Include the status of TMDL implementation in the annual report, if applicable. | | | | |
| Recommended: Actively Participate in Development of Future TMDLs for Receiving Waters within Jurisdiction. | Has CWU participated, or plan to participate, in the development of local TMDLs (e.g., Wilson Creek Fecal Coliform TMDL, etc.)? | No. | | |
| Recommended: Coordinate with City of Ellensbug to Monitor Outfall Quality for Discharges to Impaired Waters [303(d) listed waters]. | Has CWU (or other local agency) conducted, or plan to conduct, water quality monitoring of impaired water bodies within the city limits, including stormwater outfalls? | No. | | |
| Recommended: Coordinate with City of Ellensburg to Establish Monitoring Program to Assess Baseline Conditions and Evaluate City/CWU SWM Program Effectiveness. | Does CWU (or other local agency) currently have, or plan to have, an established water quality monitoring program within the city limits, to assess baseline conditions? | No. | | |
| 8. Monitoring and Program Evaluation | | | | |
| Required BMP 8.1 - Monitoring and SWMP Evaluation Provide a description of stormwater monitoring, studies, or investigations conducted by, on behalf of, or reported to the Permittee during the reporting period in the annual report. Provide an assessment of the appropriateness of the BMPs selected for each SWMP component, along with rationale for changes or proposed changes to selected BMPs. Provide information in annual report to Ecology. | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| Measurable Goal: | | | | |
| Include a summary in the annual report. | | | | |
| 9. Reporting and Record Keeping | | | | |
| Required BMP 9.1 - Reporting Requirements Submit annual reports each year on the previous year's NPDES Phase II activities. Include two printed copies and one electronic copy (PDF). Measurable Goal: No later than March 31, submit an annual report to Ecology for activities | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| during the previous year. | | | | |

| lew Funding ource Needed (Yes or No) | Notes and Additional Information |
|--|---|
| | |
| | Confirm with John Akers. Bill Rice will ask Jane Creech of Ecology if a temperature TMDL is happening. |
| | |
| | |
| | Maybe this is in city implementation plan ask Akers. Or could be made part of the Wilson Creek study Vertrees, Clay Arango. |
| | Maybe this is in city implementation plan ask Akers. Or could be made part of the Wilson Creek study Vertrees, Clay Arango. |
| | |
| | Annual report templates are in the back of the permit documentation. |
| | |
| | Annual report templates are in the back of the permit documentation. |

| Description of BMP/Activity Required for Permit Compliance | BMP/Activity Information Requested | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) | Estimate of Current Expenditure | New F Source (Yes o |
|--|---|--|---------------------------------------|---------------------------|
| Required BMP 9.2 - Annual Report Each annual report shall include a copy of the most current SWMP and submittal of the Annual Report Form for Sec. Permittees (Appendix 4) summarizing compliance with permit conditions, including: status of implementation of SWMP components; assessment of progress toward meeting min. performance measures; a summary of SWMP evaluation; notice if MS4 is relying on another jurisdiction to satisfy any permit obligations; updated and/or new info.; and jurisdictional boundary changes. Measurable Goal: No later than March 31, submit current SWMP and annual reporting forms to Ecology for previous year. | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| Required BMP 9.3 - Maintaining Records Maintain all records related to the NPDES Phase II permit and the SWMP for at least five years. Measurable Goal: Ongoing activity. | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| Required BMP 9.4 - Pubic Access Make all records related to the NPDES Phase II permit and the SWMP available to the public at reasonable times during business hours. Measurable Goal: | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| Ongoing activity. 10. Program Implementation | | | | |
| Required BMP 10.1 - SWMP Implementation Develop and implement a SWMP that is designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable and to protect water quality. Compliance is achieved by conducting activities outlined in Elements 1-8 in accordance with permit schedules. Note: Secondary Permittee's may implement parts of their SWMP in accordance with the schedules for cities/counties provided they have a signed agreement to jointly implement the activity or activities with one or more jurisdictions, and submit a copy to Ecology. Measurable Goal: No later than 180 days prior to the expiration of the permit, fully develop and implement SWMP. | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. Note: CWU may implement parts of their SWMP in accordance with the schedule for the City of Ellensburg provided that CWU/City have a signed agreement to jointly implement certain required activities. | | |
| Required BMP 10.2 - SWMP Documentation Prepare written documentation of the SWMP and maintain annual updates for submittal with annual reports to Ecology. SWMP document shall include: a description of each of the program components; and any additional activities necessary to meet the requirements of applicable TMDLs. Measurable Goal: No later than March 31, submit current SWMP with annual report. | | To be developed during the first permit cycle as part of the CWU Stormwater Management Program. | | |
| Required BMP 10.3 - Coordination Among Permittees Recommended that SWMP include coordination mechanisms between: permittees to encourage coordinated stormwater-related policies, programs, and projects within adjoining or shared areas; and among departments within each jurisdiction to eliminate compliance barriers. Measurable Goal: No later than 180 days prior to the expiration of the permit, identify potential coordination mechanisms for inclusion in the SWMP. | coordination, including possible future agreements with the City of Ellensburg, related to stormwater program implementation? Please explain. | We do not plan to add additional staff. Stormwater project time is coming out of existing staff work load. | | |

| lew Funding ource Needed (Yes or No) | Notes and Additional Information |
|--|--|
| | Annual report templates are in the back of the permit |
| | documentation. |
| | Write in the policy that we will make this publically available. |
| | |
| | Update SWMP and THEN write the annual report. |
| | |
| | |
| | |
| | |
| | |

| Description of BMP/Activity Required for Permit Compliance BMP 10.4 - Program Tracking Develop an ongoing program for gathering, maintaining, and using information to conduct planning, set priorities, evaluate permit compliance, evaluate effectiveness of SWMP implementation, and track SWMP development and implementation. Note: Recommended activity. Measurable Goal: Ongoing activity. | | Provide Information on Existing Activities that Meet BMP, Direction, and Assumptions (Include as much information as possible, such as responsible division, staff, estimated FTE, equipment used, etc.) Recommended activity to be developed during the first permit cycle as part of the CWU Stormwater Management Program. | Estimate of Current Expenditure | New Funding Source Needed (Yes or No) | Notes and Additional Information Create a system in which we keep all documentation together and ongoing. |
|--|---|--|---------------------------------------|---|---|
| | Stormwa | ater Program Equipment | | | |
| Office Equipment: Per each new employee: ~ Desk and chairs ~ Computer ~ Software ~ Supplies ~ Bookshelf ~ Files ~ Telephone ~ Office space and utilities | List any "spare" office equipment available for potential future new staff. | A permanent program? Needs to be discussed with Vertrees, Otak, Akers, Ecology (Terry Whitmeier) | | | Tosch and Poe will develop and add to a wish list in priority order. |
| Field and Monitoring Equipment: ~ Vehicle ~ Water quality sensors/probes (pH, DO., temp) ~ Water quality equipment such as a turbidimeter ~ Flow measurement equipment ~ Gaging station instrumentation ~ Sediment sieves ~ Spill response equipment ~ Safety equipment ~ Survey and GPS equipment | List any current monitoring and related equipment. | In development. | | | Tosch and Poe will develop and add to a wish list in priority order. |
| Operations and Maintenance Equipment: ~ Vactor trucks ~ Dump trucks ~ Street vacuum sweeper ~ Back hoes ~ Front-end loaders ~ Decant facility ~ Drying beds ~ Disposal site | List current major O&M equipment and any known needs. | In development. | | | Tosch and Poe will develop and add to a wish list in priority order. |
| | Storm | water Capital Projects | | | |
| Identify Known Stormwater Capital Improvement Projects (CIP) | | There is no stormwater capital project in development, unless affiliated with a major capital project. | | | Tosch and Poe will develop and add to a wish list in priority order. |

Appendix B—Stormwater Program Gap Analysis and Costs

| | Summary of Estimated Annual Program Revenue Needs | | | | | | | | |
|---|---|-------------|-------------|-------------|-------------|--------------|--|--|--|
| Program Area | Year 1 Cost | Year 2 Cost | Year 3 Cost | Year 4 Cost | Year 5 Cost | 5 Year Total | | | |
| NPDES | | | | | | | | | |
| A. General NPDES Requirements | \$2,700 | \$2,700 | \$3,500 | \$4,000 | \$4,500 | \$17,400 | | | |
| B. Public Education and Outreach | \$0 | \$0 | \$9,500 | \$9,500 | \$6,000 | \$25,000 | | | |
| C. Public Involvement | \$0 | \$0 | \$0 | \$0 | \$3,500 | \$3,500 | | | |
| D. Illicit Discharge Detection & Elimin | \$12,000 | \$36,500 | \$26,500 | \$21,500 | \$18,500 | \$115,000 | | | |
| E. Construction Site Stormwater Runoff | \$12,500 | \$6,500 | \$6,500 | \$6,500 | \$6,500 | \$38,500 | | | |
| F. Post Construction Stormwater Mng | \$0 | \$500 | \$500 | \$500 | \$500 | \$2,000 | | | |
| G. Pollution Prevent/Good Housekeeping | \$57,000 | \$95,000 | \$195,000 | \$219,500 | \$255,500 | \$822,000 | | | |
| H. Compliance with TMDLs | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$7,500 | | | |
| I. Monitoring and Program Evaluation | \$500 | \$500 | \$500 | \$1,000 | \$1,000 | \$3,500 | | | |
| J. Reporting and Record Keeping | \$14,000 | \$26,500 | \$24,000 | \$28,000 | \$28,000 | \$120,500 | | | |
| K. NPDES Equipment Funds | \$0 | \$0 | \$0 | \$250,000 | \$0 | \$250,000 | | | |
| L. NPDES Capital Project Funds | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$300,000 | | | |
| Annual Total | \$100,200 | \$169,700 | \$267,500 | \$842,000 | \$325,500 | \$1,704,900 | | | |
| | | | | | | | | | |
| Equipment | \$0 | \$0 | \$0 | \$250,000 | \$0 | \$250,000 | | | |
| Capital | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$300,000 | | | |
| Staff, Fees, Overhead, Services | \$100,200 | \$169,700 | \$267,500 | \$292,000 | \$325,500 | \$1,154,900 | | | |

| | YEAR 1 | | | | | | | |
|--|--|---|--|------------------------|--|--|--|--|
| Summary of Regulatory Requirements | Notes & Assumptions | Summary of Existing University Activities Aiding Compliance | Current Average Annual Expenditures | New Funding Needed? | Assessment of New Activities Needed for Compliance | Estimated Annual Cost to Comply | | |
| NPDES | | | | | | | | |
| A. General NPDES Requirements | | | | | | | | |
| A1. Prepare Notice of Intent (NOI). | CWU prepared and submitted NOI on October 11, 2007. | None | None | N | NOI prepared and submitted. | \$0 | | |
| A2. Pay Annual Permit Fee. | CWU - \$2,700 | None | None | Y | Pay fee. | \$2,700 | | |
| B. Public Education and Outreach: Students, staff, etc. | Note that minimum requirements do not begin until Year 3. | | | | | | | |
| C. Public Involvement and Participation: Solicit public review of stormwater | | | | | | | | |
| management program via public notification, website posting, etc. | Note that minimum requirements do not begin until early in Year 5. | | | | | | | |
| D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce program to detect and eliminate polluted non-stormwater discharges into the MS4. | | | | | | | | |
| D1. From the date of permit coverage, comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Utilize the Minimum Technical Requirements in Appendix 1 of the Permit as a basis for the development of the written policy (see E1 and F1 below) since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements, which is assumed to occur during Year 2. Costs shown here are for overal policy that addresses both IDDE and activities identified under E1 and F1. | Currently comply with existing | None | Y | Create a written policy and formally adopt existing and relevant City ordinances, rules, and regulations. Incorporate Minimum Technical Requirements included in Appendix 1 of the Permit into written policy (see E1 and F1). | | | |
| D2. Develop and adopt appropriate policies prohibiting illicit discharges and illegal dumping; Identify possible enforcement mechanisms for use in the development of an Enforcement Plan. | The policies shall address, at a minimum: illicit connections; non- stormwater discharges as defined in the Phase II Permit; and spilling, dumping, or otherwise improperly disposing of hazardous materials, pet waste, and litter. Policy must be developed and adopted by Board of Trustees by end of Year 1. Assume some time by staff to investigate and identify possible enforcement mechanisms by the end of Year 1; consider those currently employed by the University for other purposes. Enforcement plan to be developed in Year 2 (by May 2009) and included as part of written IDDE Program Plan. | None | None | Y | Create an internal policy for adoption by Board of Trustees. Consider adopting City's or other similar IDDE policy. | \$5,000 | | |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. | activities related to IDDE Program, including illicit discharge detection, field | | \$2,000 | УY | Continue to provide staff training through annual refresher courses for those currently trained. Identify additional staff to be trained starting in Year 2. | \$2,000 | | |

| E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate | | | | | | |
|--|--|--|------|-----|--|------------------|
| with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites | 3 | | | | | |
| one or more acres in size. | | | | | | |
| | CWU to have something in writing and adopted by Board of Trustees. | | | | | |
| | Assume that written policy addresses existing and relevant City ordinance, | | | | | |
| | rules, and regulations related to non-stormwater (illicit) discharges; | | | | | |
| | construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Utilize the Minimum | | | | | |
| | Technical Requirements in Appendix 1 of the Permit as a basis for the | | | | Create a written policy and formally | |
| | development of the written policy since CWU will be required to follow | | | | adopt existing and relevant City | |
| | requirements (or equivalent) when the City develops and adopts discrete | | | | ordinances, rules, and regulations. | |
| | ordinances to comply with NPDES requirements (i.e., Construction and | | | | Incorporate Minimum Technical | |
| E1. Comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that | | Currently comply with existing | | | Requirements included in Appendix | |
| govern construction phase stormwater pollution prevention measures. | Costs included under D1. | City Code. | None | Y | 1 of the Permit into written policy. | \$0 |
| | Assume that NPDES Construction SW permits will be sought for | | | | Write up internal procedures for | |
| | University projects, as needed, and that appropriate construction and post- | - | | | FMD-level NPDES application. | |
| | construction controls will be employed. Cost of seeking (submitting NOIs, | | | | Need money and staff resources to | |
| E2. For all construction projects under the control of CWU which require a construction | | CWU does not currently seek | | | create and maintain records of | |
| stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | will be borne by the Department/Division executing the project and/or the | coverage under the NPDES | | | seeking and complying with | |
| for Stormwater Discharges Associated with Construction Activities, or an alternative NPDES | project contractor. Assume some form of written internal procedures | Construction Stormwater General | | N . | construction stormwater permits for | ¢5 000 |
| permit prior to discharging construction related stormwater. | necessary to ensure permit coverage obtained. | Permit. | None | ř | University projects. | \$5,000 |
| | | | | | | |
| | Assume that a formal agreement needs to be developed for notification | | | | Write up a MOU or similar agreement with the City, EWC, and | |
| E3. Coordinate with the City of Ellensburg regarding projects owned and operated by other | - | CWU currently coordinates with | | | WSDOT for formalized | |
| entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving | Ellensburg Water Co., WSDOT, others) for construction related activities. | the City and others; however, the | | | documentation and notification of | |
| compliance with all relevant ordinances, rules, and regulations that govern construction- | Agreement to also address post-construction stormwater management for | coordination needs to be | | | construction-related activities and | |
| phase stormwater pollution prevention measures. | new development and redevelopment projects (see F2). | formalized and improved upon. | None | Y | post-construction SW management. | \$3,000 |
| | Assume that a formal ongoing training program for relevant staff needs to | | | | Develop training materials and | |
| | be established and documented. Existing training opportunities provided | | | | provide in-house training or send | |
| | through IET Construction Management (standard curriculum) may be | | | | relevant staff to external training on | |
| E4. Provide training or coordinate with existing training efforts to educate relevant staff in | adequate for permit compliance but needs to be reviewed and | | | | proper ESC BMPs, SWPPP | |
| erosion and sediment control BMPs and requirements, or hire trained contractors to perform | updated/enhanced if IET willing to provide staff training. May also consider | | | | requirements, and other related | * 4 . 000 |
| the work. | coordination of training with the City of Ellensburg. | Staff currently not trained. | None | Y | requirements. | \$4,000 |
| | Assumed that accordination for access is a passagery compliance activity | | | | | |
| | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction | | | | | |
| E5. Coordinate as requested with Ecology or the City of Ellensburg to provide access for | | CWU currently coordinates with | | | Continue to provide access for | |
| inspection of construction sites or other land disturbances, which are under the control of | | the City and/or Ecology as | | | inspection of construction sites as | |
| CWU during the active grading and/or construction period. | construction phase stormwater pollution prevention measures. | | None | N | requested. | \$500 |
| F. Post Construction Stormwater Management: Coordinate with local jurisdiction to | | | | | | |
| address post construction stormwater runoff to the MS4 from sites one or more acres | | | | | | |
| in size. | | | | | | |
| | CWU to have something in writing and adopted by Board of Trustees. | | | | | |
| | Assume that written policy addresses existing and relevant City ordinance, | | | | | |
| | rules, and regulations related to non-stormwater (illicit) discharges; | | | | | |
| | construction-phase SW pollution prevention measures; and post- | | | | | |
| | construction SW pollution prevention measures. Utilize the Minimum | | | | | |
| | Technical Requirements in Appendix 1 of the Permit as a basis for the | | | | Create a written policy and formally | |
| | development of the written policy since CWU will be required to follow | | | | adopt existing and relevant City | |
| | requirements (or equivalent) when the City develops and adopts discrete | | | | ordinances, rules, and regulations. | |
| F1. Comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that | ordinances to comply with NPDES requirements (i.e., Construction and Post-Construction ordinances), which is assumed to occur during Year 2. | Currently comply with existing | | | Incorporate Minimum Technical Requirements included in Appendix | |
| govern post-construction phase stormwater pollution prevention measures. | Costs included under D1. | | None | Y | 1 of the Permit into written policy. | \$0 |
| | | | | | | |
| | | | | | | |
| | Assume that a formal agreement needs to be developed for notification | | | | Write up a MOU or similar | |
| | and continued coordination between CWU and other entities (City, | | | | agreement with the City, EWC, and | |
| F2. Coordinate with the City of Ellensburg regarding projects owned and operated by other | and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction related activities | CWU currently coordinates with | | | agreement with the City, EWC, and WSDOT for formalized | |
| entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving | and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction related activities (see E3). Agreement to also address post-construction stormwater | the City and others; however, the | | | agreement with the City, EWC, and WSDOT for formalized documentation and notification of | |
| | and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction related activities | the City and others; however, the coordination needs to be | None | | agreement with the City, EWC, and WSDOT for formalized | |

| G. Pollution Prevention and Good Housekeeping for University Operations: Develop | | | | | | |
|--|--|---|--|---|--|---------------------|
| and implement an ongoing O&M program, including a staff training program, aimed at preventing or reducing pollutant runoff from University operations. | | | | | | |
| G3. CWU to continue performing existing storm system maintenance activities. Includes, where applicable, ongoing inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff | Costs for existing storm system maintenance activities will continue to be funded. Costs for phasing-in full stormwater system maintenance, enhanced/changed practices, and oversight by stormwater compliance staff who review and record practices and provide technical assistance will be included in Years 3-5. | formal documentation or record keeping. | Storm System Inspect/Maint: \$10,000 | Y | CWU to continue existing storm system inspection and maintenance activities. | \$10,000 |
| | Costs for existing street sweeping program will continue to be funded. Costs for phasing-in enhanced/changed practices, improved materials, and for stormwater compliance staff to review and record practices and provide technical assistance will be included in Years 3-5. | | | Y | CWU to continue existing parking lot and street sweeping program and other all season BMPs to reduce pollution into the MS4 | \$45.000 |
| G11. From the date of permit coverage, have reviewed all University "industrial" facilities/sites and sought coverage under the statewide NPDES General Permit for Stormwater Discharges Associated with Industrial Activities for facilities/sites meeting criteria for coverage. | Assume that some work still needs to be accomplished to assess University facilities/sites for possible coverage and is conducted in Year 1. Cost will be for permit compliance staff to review criteria and facilities, and to recommend facilities seek coverage if meet criteria. Records of the | CWU not aware of any facilities/sites that are covered under an existing Industrial SW General Permit. Future Innovation Park identified as possibly needing to seek permit coverage. Other facilities/sites to be assessed for possible coverage. | | Y | reduce pollution into the MS4. Need money and staff to review facilities, assess need for permit, and to create and maintain records of assessment process, and if necessary, seeking and complying with industrial stormwater permits for University facilities/sites. | \$45,000 \$2,000 |
| Sub-Basin, Upper Yakima River | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | None | None | Y | Participation in TMDL development may be desirable. Upper Yakima River Temperature TMDL ongoing. | \$500 |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume | | None | N | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | \$500 |
| | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of annual report to Ecology. | | None | Y | Track status of TMDL implementation and keep records. | \$500 |

| I. Monitoring and Program Evaluation Requirements | | | | | | |
|---|--|---|------|---|---|------------------------|
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studies conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | Recommended activity for CWU to consider. Specific water quality sampling and testing not required during the effective term of the Permit, unless required as part of applicable TMDL or required for characterizing illicit discharges. Assume some participation by CWU with City and/or local agencies (KCCD, KRD, others) conducting routine or special water/stormwater quality monitoring studies. | None | None | Y | Participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | \$500 |
| J. Reporting and Record Keeping Requirements | | | | | | |
| J1. Develop written Stormwater Management Program (SWMP) for submittal with annual report, follow program component format established by Ecology. | Must submit a copy of SWMP to Ecology with the annual report no later than March 31, 2008. Assume that development of the SWMP begins during Permit Year 1. | Assume some overlap with ongoing stormwater planning efforts. | None | Y | Prepare SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). | \$4,000 |
| J2. Recommend that CWU develop and implement an ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in the Permit. | Assume that this involves lead permit compliance staff: (1) itemizing the types of recordkeeping needed for each category of permit requirement; (2) meeting with various Department/Divisions to learn about current record keeping activities; (3) assessing the need for new processes or changes or enhancements to existing processes; (4) creating or modifying record keeping forms as needed; and (5) working with various directors/managers/staff to ensure implementation of the new processes. | | None | Y | Itemize the types of recordkeeping needed for permit; meet with various Department/Divisions; assess need for new or changed processes; create record keeping forms/protocols; work with directors/managers/staff to implement. Significant effort by staff at multiple levels. | \$10,000 |
| K. NPDES Equipment Funds | NPDES equipment funds to be requested for 09/11 biennium. | | | | | |
| L. NPDES Capital Project Funds | NPDES capital project funds to be requested for 09/11 biennium. | | | | | |
| | | | | | SUM = | \$100,200 |
| | | | | | Equipment | <mark>\$0</mark> |
| | | | | | Capital | <mark>\$0</mark> |
| | | | | | Staff, Fees, Overhead, Services | <mark>\$100,200</mark> |
| | | | | | | <mark>\$100,200</mark> |

| YEAR 2 | | | | | | |
|---|--|--|--|------------------------|--|--|
| Summary of Regulatory Requirements | Notes & Assumptions | Summary of Existing University Activities Aiding Compliance | Current Average Annual Expenditures | New Funding Needed? | Assessment of New Activities Needed for Compliance | Estimated Annual Cost to Comply |
| NPDES | | | | | | |
| A. General NPDES Requirements | | | | | | |
| A2. Pay Annual Permit Fee. | CWU - \$2,700 | None | None | Y | Pay fee. | \$2,700 |
| B. Public Education and Outreach: Students, staff, etc. | Note that minimum requirements do not begin until Year 3. | | | | | |
| C. Public Involvement and Participation: Solicit public review of stormwater management program via public notification, website posting, etc. | Note that minimum requirements do not begin until early in Year 5. | | | | | |
| D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce program to detect and eliminate polluted non-stormwater discharges into the MS4. | | | | | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements, which is assumed to occur during Year 2. | Currently comply with existing City Code. | None | Y | Continue to comply with all existing and relevant ordinances, rules, and regulations that pertain to stormwater. Track status of City's efforts to develop and adopt discrete stormwater-related ordinances. Update written policy, as necessary. | \$1,000 |
| D2. Develop an Enforcement Plan using the enforcement mechanisms identified during Year 1 to ensure compliance with illicit discharge policies. Enforcement activities to begin in Year 2. | Assume that development of enforcement plan will require staff time, internal coordination, possible consultant assistance, and legal review. Enforcement plan to be developed and implement in Year 2 (by May 2009) and included as part of written IDDE Program Plan. |) None | None | Y | Develop an enforcement plan consistent with the selected enforcement mechanism(s). | \$5,000 |
| D3. Begin developing written IDDE Program Plan that addresses enforcement; staff training needs; field assessments; on-campus complaint handling; discharge characterization methods, hazard assessment, and spill response and containment; tracing methods; sampling and analysis techniques; termination/removal methods; interface with local agencies; and program evaluation methods. | Assume that once appropriate policies prohibiting illicit discharges and illegal dumping are approved, enforcement and other related activities are phased-in starting in Year 2. Assume that written guidance is needed for orderly implementation. Assume preparation involves various Departments and requires a fair amount of staff time to prepare plan. Funding estimate is only for lead compliance staff. Assume some initial training course is needed for staff involved in IDDE Program with costs covered under staff education (D4). | 5 | None | Y | Develop IDDE Program Plan using guidance documents from Center for Watershed Protection, Ecology, or others as an aid. Enforcement Plan and existing Spill Response Plan to be included with IDDE Plan. Involve multiple staff as needed. Provide initial training for relevant staff. | \$10,000 |
| D4. Begin implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | | None | Y | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Ron Munson and Pam Coppersmith are trained. They each receive HAZWOPER training with refreshers of 8 hours per year per person. They also | | Y | Continue to provide staff training through annual refresher courses for those currently trained. Identify additional staff to be trained and provide appropriate training. | \$5,500 |
| D6. CWU to complete remaining mapping of storm sewer system (MS4), showing locations o all known storm drain outfalls, labeling receiving waters, and delineating the areas (catchment areas) contributing runoff to each outfall. Include field surveys to verify locations of outfalls and identify previously unknown outfalls. | Note that minimum requirements do not require mapping to be completed until Year 5. However, map of MS4 necessary for staff to conduct visual inspections for illicit discharges during Year 2 as part of field assessment work required under IDDE Program. Assume that CWU has completed approximately 2/3 of required MS4 mapping and some field survey work. Assume that remaining mapping activities and additional field-related activities will be carried out under direction of permit compliance staff during Year 2. | Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. Existing mapping may need to be reviewed, updated, and field checked. Topographic data need to delineate catchment areas on campus. | None | Y | Complete mapping of storm sewer system (MS4). | \$5,000 |

CWU Stormwater Planning Project, Program Implementation Plan — Permit Year 2

Y:\Project\30000\30608\Tasks\CWU\Action Plan - WRR\Gap Anal & Imp Plan\Final Imp Plan 082108\Appendix B Final 082108.xls

| E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites | | | | | | |
|---|---|--|------|---|--|--------------|
| one or more acres in size. | | | | | | |
| | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, | | | | | |
| | rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- | | | | Continue to comply with all existing | |
| | construction SW pollution prevention measures. Assume that Minimum | | | | and relevant ordinances, rules, and | |
| | Technical Requirements in Appendix 1 of the Permit addressed in the | | | | regulations that pertain to | |
| | written policy adopted since CWU will be required to follow requirements | | | | stormwater. Track status of City's | |
| | (or equivalent) when the City develops and adopts discrete ordinances to | | | | efforts to develop and adopt | |
| | comply with NPDES requirements (i.e., Construction and Post- | | | | discrete stormwater-related | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | Construction ordinances), which is assumed to occur during Year 2. Cost | Currently comply with existing | | | ordinances. Update written policy, | * 0 |
| Ellensburg that govern construction phase stormwater pollution prevention measures. | to review and update included in D1. | City Code. | None | Y | as necessary. | \$0 |
| | Assume that NPDES Construction SW permits will be sought for | | | | Update internal procedures written | |
| | University projects, as needed, and that appropriate construction and post- | • | | | for FMD-level NPDES application. | |
| | construction controls will be employed. Cost of seeking (submitting NOIs, | | | | Need money and staff resources to | |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the | CWU does not currently seek coverage under the NPDES | | | create and maintain records of seeking and complying with | |
| for Stormwater Discharges Associated with Construction Activities, or an alternative NPDES | project contractor. Assume some form of written internal procedures | Construction Stormwater General | | | construction stormwater permits for | |
| permit prior to discharging construction related stormwater. | necessary to ensure permit coverage obtained. | Permit. | None | Y | University projects. | \$2,000 |
| permit prior to discharging construction related stormwater. | | | None | | Review and update written MOU or | φ2,000 |
| | Assume that the formal agreement developed for notification and | | | | similar agreement with the City, | |
| | continued coordination between CWU and other entities (City, Ellensburg | | | | EWC, and WSDOT for formalized | |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated | | CWU currently coordinates with | | | documentation and notification of | |
| by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with | address post-construction stormwater management for new development | the City and others; however, the | | | construction-related activities and | |
| achieving compliance with all relevant ordinances, rules, and regulations that govern | and redevelopment projects (see F2), is annually reviewed and updated as | | | | post-const SW management. | |
| construction-phase stormwater pollution prevention measures. | necessary. Assume minimal estimate for some coordination efforts. | | None | Y | Continue to coordinate. | \$1,000 |
| | Assume that a formal ongoing training program for relevant staff is | | | | | |
| | needed. Existing training opportunities provided through IET Construction | | | | | |
| | Management may be adequate for permit compliance but needs to be | | | | Continue to provide in-house | |
| | reviewed and updated/enhanced if IET willing to provide staff training. May | , | | | training or send relevant staff to | |
| | also consider coordination of training with the City of Ellensburg. Assume | | | | external training on proper ESC | |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control | level of effort drops because most training materials and procedures have | | | | BMPs, SWPPP requirements, and | |
| BMPs and requirements, or hire trained contractors to perform the work. | been established. | Staff currently not trained. | None | Y | other related requirements. | \$3,000 |
| | | | | | | |
| | Assumed that coordination for access is a necessary compliance activity | | | | | |
| | associated with Construction SW permits and the City's Construction | | | | | |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide | Stormwater Management ordinance which will include procedures for site | CWU currently coordinates with | | | Continue to provide access for | |
| access for inspection of construction sites or other land disturbances, which are under the | plan review, review of SWPPPs, site inspection, and enforcement of | the City and/or Ecology as | News | | inspection of construction sites as | A 500 |
| control of CWU during the active grading and/or construction period. | construction phase stormwater pollution prevention measures. | requested. | None | N | requested. | \$500 |

| F. Post Construction Stormwater Management: Coordinate with local jurisdiction to | | | | | | |
|--|---|---|--|---|--|----------|
| address post construction stormwater runoff to the MS4 from sites one or more acres | | | | | | |
| in size. | | | | | | |
| F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction phase stormwater pollution prevention measures. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements (i.e., Construction and Post- Construction ordinances), which is assumed to occur during Year 2. Cost to review and update include in D1. Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg | Currently comply with existing City Code. | None | Y | Continue to comply with all existing and relevant ordinances, rules, and regulations that pertain to stormwater. Track status of City's efforts to develop and adopt discrete stormwater-related ordinances. Update written policy, as necessary. Review and update written MOU or similar agreement with the City, | \$0 |
| F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern post- | Water Co., WSDOT, others) for construction-related activities (see E3), and to address post-construction stormwater management for new development and redevelopment projects, is annually reviewed and updated as necessary. Cost to review and update included in E3. Assume | CWU currently coordinates with the City and others; however, the coordination needs to be | None | v | EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. | \$500 |
| construction stormwater pollution prevention measures. | minimal estimate for some coordination efforts. | formalized and improved upon. | None | T | Continue to coordinate. | \$500 |
| G. Pollution Prevention and Good Housekeeping for University Operations: Develop and implement an ongoing O&M program, including a staff training program, aimed at preventing or reducing pollutant runoff from University operations. | | | | | | |
| | Assume that it takes two years to fully develop the O&M Plan and that | Many activities currently performed but not formally documented in a standalone O&M Plan. No formal documentation or record keeping of O&M related activities. | None | Y | Begin developing an O&M Plan that includes appropriate pollution prevention and good housekeeping procedures for various University operations, activities, and/or facilities aimed at preventing and reducing water quality impacts. Must include schedule for inspections and activities and address methods of proper documentation and record keeping. | \$25,000 |
| G3. CWU to continue performing existing storm system maintenance activities. Includes, where applicable, ongoing inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff | Costs for existing storm system maintenance activities will continue to be funded. Costs for phasing-in full stormwater system maintenance, | formal documentation or record | Storm System Inspect/Maint: \$10,000 | Y | CWU to continue existing storm system inspection and maintenance activities. | \$10,000 |

| G7. CWU to continue existing street sweeping program and other all season BMPs to reduce pollution into the MS4. | Costs for existing street sweeping program will continue to be funded. Costs for phasing-in enhanced/changed practices, improved materials, and for stormwater compliance staff to review and record practices and provide technical assistance will be included in Years 3-5. Assume base program cost increases 30% per year due to escalating fuel/maintenance costs. | CWU currently performs parking lot and street sweeping during the winter and spring on an as needed basis. Areas typically swept following sanding and de- icing activities. Collected materials stock-piled at Brooklane area and utilized for pipe bedding material. Snow removal and ice control activities employed with snow piled at several locations on campus in undeveloped areas. Covered storage provided for sand/deicer materials (Jongeward Complex). Will need to review existing and additional practices required to ensure WQ is protected. | Sweeping Program: | \$45,000 | CWU to continue existing parking lot and street sweeping program and other all season BMPs to reduce pollution into the MS4. | \$60,000 |
|---|--|---|-------------------|----------|--|----------|
| H. Compliance with Total Maximum Daily Load Allocations | | | | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | None | None | | Participation in TMDL development may be desirable. Upper Yakima River Temperature TMDL ongoing. | \$500 |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None | None | | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | \$500 |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of Annual Repor to Ecology. | t None | None | Y | Track status of TMDL implementation and keep records. | \$500 |
| I. Monitoring and Program Evaluation Requirements | | | | | | |
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studies conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | Recommended activity for CWU to consider. Specific water quality sampling and testing not required during the effective term of the Permit, unless required as part of applicable TMDL or required for characterizing illicit discharges. Assume some participation by CWU with City and/or local agencies (KCCD, KRD, others) conducting routine or special water/stormwater quality monitoring studies. | None | None | | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | \$500 |

| J. Reporting and Record Keeping Requirements | | | | | | |
|--|---|------|------|---|---|------------------------|
| J1. Update written Stormwater Management Program (SWMP) for submittal with annual report. | Assume this update occurs in the 4th quarter 2008 with the updated plan submitted with annual report by March 31, 2009 of the following year. | None | None | Y | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). | \$5,000 |
| J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. | Assume that this involves reviewing and modifying the process developed as needed. | None | None | Y | Complete development of and enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | \$7,500 |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water quality. | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative portion of the annual report. | None | None | Y | Develop evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | \$4,000 |
| J4. Prepare and submit Year 1 annual report and SWMP to Ecology. Use annual report form established by Ecology. The annual report must describe the status of compliance with Permit conditions, including: (1) the status of implementation of each component of the SWMP; (2) an assessment of progress towards meeting the minimum performance standards (measurable goals) established for each minimum control measure of the SWMP; and (3) summary of SWMP evaluation (including eval of effectiveness of SWMP and appropriateness of BMPs selected); (4) notice if relying upon another entity (City) for implementation of any BMPs or other permit obligations; (5) any updated/new information since the last reporting period, and (6) notification of any jurisdictional boundary changes that increase/decrease Permit coverage area and SWMP implications. | Reports are due no later than March 31 each year beginning in 2008. Assume that in later years it takes a fairly senior staff person working one- third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will grow in later years as required SWMP activities implemented increase. | None | None | Y | Prepare and submit annual report. | \$10,000 |
| K. NPDES Equipment Funds | NPDES equipment funds to be requested for 09/11 biennium. | | | | | |
| L. NPDES Capital Project Funds | NPDES capital project funds to be requested for 09/11 biennium. | | | | | |
| | | | | | SUM = | <mark>\$169,700</mark> |
| | | | | | Equipment | <mark>\$0</mark> |
| | | | | | Capital | <mark>\$0</mark> |
| | | | | | Staff, Fees, Overhead, Services | <mark>\$169,700</mark> |
| | | | | | | \$169,700 |

| | YEAR 3 | | | | | |
|---|--|--|--|------------------------|---|--|
| Summary of Regulatory Requirements | Notes & Assumptions | Summary of Existing University Activities Aiding Compliance | Current Average Annual Expenditures | New Funding Needed? | Assessment of New Activities Needed for Compliance | Estimated Annual Cost to Comply |
| NPDES | | | | | | |
| A. General NPDES Requirements | | | | | | |
| A2. Pay Annual Permit Fee. | CWU - \$3,500 | None | None | Y | Pay Fee. | \$3,50 |
| B. Public Education and Outreach: Students, staff, etc. | | | | | | |
| B1. Begin to develop and distribute educational information to students and staff on the impacts of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year. | Assume that educational information developed distributed in the form of stormwater brochures. Topics to be covered include: 1) how stormwater runoff affects local waterbodies; 2) proper use and application of pesticides and fertilizers; 3) benefits of using well-adapted vegetation; 4) alternative equip. washing practices that minimize pollutants in stormwater; 5) benefits of proper vehicle maintenance and alternative transportation choices, proper handling and disposal of wastes, including location of hazardous waste collection facilities; 6) hazards associated with illicit connections; and 7) benefits of litter control and proper disposal of pewaste. | | None | Y | Develop and distribute educational information to students and staff with different topic(s) addressed each year. | \$4,00 |
| | Assume 50% of all storm drain inlets labeled by end of Year 3 and | | | | | , , , , , , , , , , , , , , , , , , , |
| B2. Begin labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | | None | None | Y | Label 50% of all storm drain inlets on university property. Maintain records of the location and number of inlets labeled annually. | \$5,500 |
| C. Public Involvement and Participation: Solicit public review of stormwater | | | | | | |
| management program via public notification, website posting, etc. | Note that minimum requirements do not begin until early in Year 5. | | | | | |
| D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce program to detect and eliminate polluted non-stormwater discharges into the MS4. | | | | | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and will begin to | | | | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update | |
| Ellensburg that govern non-stormwater discharges. | implement and enforce. | , , , | None | Y | written policy, as necessary. | \$1,000 |
| D3. Complete written IDDE Program Plan started in Year 2 that addresses enforcement; staff training needs; field assessments; on-campus complaint handling; discharge characterization methods, hazard assessment, and spill response and containment; tracing methods; sampling and analysis techniques; termination/removal methods; interface with local agencies; and program evaluation methods. | Assume that once appropriate policies prohibiting illicit discharges and illegal dumping are approved, enforcement and other related activities are phased-in starting in Year 2. Assume that written guidance is needed for orderly implementation. Assume training course for staff involved in IDDE Program is continued from Year 2 with costs covered under staff educatior (D4). | None | None | Y | Complete IDDE Program Plan using guidance documents. Enforcement Plan and existing Spill Response Plan to be included with IDDE Plan. Provide continued training for relevant staff. | \$10,000 |
| D4. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | None | None | Y | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | F |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Ron Munson and Pam Coppersmith are trained. They each receive HAZWOPER training with refreshers of 8 hours per year per person. They also d participate in a campus-wide lab safety program. | \$2,000 | Y | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff trained. | \$4,500 |

| D6. Update completed map of CWU MS4, including new and removed connections, updates to system characteristic data and information, location of previously unknown outfalls and connections, etc. E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate | Assume that CWU has completed MS4 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by permit compliance staff. | - | None | Y | Annually update MS4 mapping. | \$1,000 |
|--|---|---|------|---|--|---------|
| with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites one or more acres in size. | | | | | | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern construction phase stormwater pollution prevention measures. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and will begin to implement and enforce. Cost to review and update included in D1. | Currently comply with existing City Code. | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | \$0 |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- construction controls will be employed. Cost of seeking (submitting NOIs, | CWU does not currently seek coverage under the NPDES Construction Stormwater General | None | Y | Update internal procedures written for FMD-level NPDES application. Need money and staff resources to create and maintain records of seeking and complying with construction stormwater permits for University projects. | \$2,000 |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern construction-phase stormwater pollution prevention measures. | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities, and to address post-construction stormwater management for new development | CWU currently coordinates with the City and others; however, the coordination needs to be | | Y | Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. Continue to coordinate. | \$1,000 |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work. | Assume that a formal on-going training program for relevant staff is needed. Existing training opportunities provided through IET Construction Management may be adequate for permit compliance but needs to be reviewed and updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assume level of effort drops because most training materials and procedures have been established. | | None | Y | Continue to provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP requirements, and other related requirements. | \$3,000 |
| | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | CWU currently coordinates with the City and/or Ecology as requested. | None | N | Continue to provide access for inspection of construction sites as requested. | \$500 |

| F. Post Construction Stormwater Management: Coordinate with local jurisdiction to | | | | | | |
|--|---|---|----------------|----------------|--|-----------------|
| address post construction stormwater runoff to the MS4 from sites one or more acres | | | | | | |
| in size. | | | | | | |
| | CWU to have something in writing and adopted by Board of Trustees. | | | | | |
| | Assume that written policy addresses existing and relevant City ordinance, | | | | | |
| | rules, and regulations related to non-stormwater (illicit) discharges; | | | | | |
| | construction-phase SW pollution prevention measures; and post- | | | | | |
| | construction SW pollution prevention measures. Assume that Minimum | | | | | |
| | Technical Requirements in Appendix 1 of the Permit addressed in the | | | | | |
| | written policy adopted since CWU will be required to follow requirements | | | | Continue to comply with all relevant | |
| | (or equivalent). Assume that City has adopted discrete ordinances to | | | | ordinances, rules, and regulations | |
| F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | | Currently comply with existing | | | that pertain to stormwater. Update | |
| Ellensburg that govern post-construction phase stormwater pollution prevention measures. | | City Code. | None | Y | written policy, as necessary. | \$0 |
| | Assume that the formal agreement developed for notification and | | | | Review and update written MOU or | |
| | continued coordination between CWU and other entities (City, Ellensburg | | | | similar agreement with the City, | |
| FO. Continue to coordinate with the City of Ellenshare repeating providents even and and encoder | Water Co., WSDOT, others) for construction-related activities (see E3), | | | | EWC, and WSDOT for formalized | |
| F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated | | CWU currently coordinates with | | | documentation and notification of | |
| by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with | | the City and others; however, the coordination needs to be | | | construction-related activities and post-const SW management. | |
| achieving compliance with all relevant ordinances, rules, and regulations that govern post- | updated as necessary. Cost to review and update included in E3. Assume minimal estimate for some coordination efforts. | | Nono | V | Continue to coordinate. | \$500 |
| construction stormwater pollution prevention measures. | | formalized and improved upon. | None | T | Continue to coordinate. | \$000 |
| | | | | | | |
| G. Pollution Prevention and Good Housekeeping for University Operations: Develop | | | | | | |
| and implement an on-going O&M program, including a staff training program, aimed a | | | | | | |
| preventing or reducing pollutant runoff from University operations. | | | | | | |
| | | | | | Complete development of O&M | |
| | | | | | Plan that includes appropriate | |
| | | | | | pollution prevention and good | |
| | | | | | housekeeping procedures for | |
| | | | | | various University operations, | |
| | | | | | activities and/or facilities, including | |
| | | Many activities currently | | | schedule for inspections and | |
| | Cost presented here assume that leadership, technical support, advice, | performed but not formally | | | activities and methods for proper | |
| | and record keeping is provided by stormwater compliance staff who work | documented in a standalone | | | documentation and record keeping. | |
| | to complete the O&M Plan. Assume that some costs to carry out the new | O&M Plan. No formal | | | Begin implementation of the plan | |
| | | documentation or record keeping | | | working with affected | |
| G1. Complete development and begin implementation of O&M Plan started in Year 2. | activity. | of O&M related activities. | None | Y | Depts/Divisions. | \$15,000 |
| G2. Begin developing a pollution prevention and good housekeeping staff training program | | | | | | |
| (materials, schedules, who gets what training, etc.) to meet the needs of the O&M Plan | | Development of training program | | | | |
| completed in G1. Training must include all employees whose construction, operations, and | Assume that it takes at least one year to develop the good housekeeping | initiated but no training currently | | | Develop good housekeeping | |
| maintenance job functions may impact storm water quality. Training shall address the | training program and that appropriate staff from the various | provided. Program needs to be | | | training materials and program, | |
| importance of protecting water quality, the requirements of the NPDES permit, proper O&M | Departments/Divisions are involved (this is a large effort and could easily | reviewed for consistency with | | | involve various affected | |
| requirements, inspection procedures, ways to perform their job while protecting water quality | take longer). Assume program development is lead by stormwater | Permit requirements and revised | | | Departments/Divisions and | |
| procedures for reporting water quality concerns and suspected illicit discharges. | compliance staff and is a direct stormwater program cost. | as needed. | None | Y | associated staff. | \$5,000 |
| | | | | | | |
| | Assume that it takes 2 years to fully phase-in enhanced activities. Assume | | | | Estimated costs for enhanced | |
| | that facilities exist for proper waste disposal (construction of a "vactor" | limited storm system | | | maintenance program with | |
| | ···· ··· ··· ··· ··· ··· ··· ··· ··· · | maintenance. Activities limited to | | | stormwater compliance staff to | |
| | facility shared with City). Assume that most necessary heavy equipment is | ų į | | Y | provide oversight and technical | |
| G3. Begin implementing storm system maintenance activities in accordance with appropriate | | line flushing (vacuum out basins | | Existing costs | assistance during implementation of | |
| schedules outlined in the O&M Plan. Includes inspection of system components, catch basin | | and jet outfalls to creeks). No | Storm System | \$10,000 | new/changed practices, assure | |
| and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, | | formal documentation or record | Inspect/Maint: | | record as kept. Work closely with | |
| runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. | | keeping. | \$10,000 | \$50,000 | responsible Departments/Divisions. | \$60,000 |
| | Assume that locating and mapping these systems begins in the year that | | | | | |
| | inspections have to be performed and that required mapping overlaps with | | | | | |
| | IDDE Program (D6). University owned and operated stormwater treatment | | | | Varify logation and man all | |
| | and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle and that all facilities inspected during | complete in AutoCAD as of | | | Verify location and map all | |
| | | owned SW treatment and flow | | | stormwater treatment and flow control facilities owned or operated | |
| | | control facilities to be added to | | | by the University. Inspect | |
| G4. Locate and map all stormwater treatment and flow control facilities owned or operated by | | existing maps. Location of | | | stormwater treatment and flow | |
| the University. Inspect each facility, making notes of conditions, maintenance needs, or other | | facilities may be known since | | | control facilities. Identify repair or | |
| related concerns. Track all new systems coming into University ownership as | | some inspections/cleaning occur | | | maintenance needs, resolve | |
| development/redevelopment occurs. | | on a limited basis. | None | Y | concerns, and maintain records. | \$5,000 |
| | 100.000 | | | | consorris, and maintain records. | <i>\$</i> 0,000 |

| Second and the secon | facilities Identify |
|---|---|
| Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide technical assistance, and ensure that major rainfall events (greater than a 10-year, 24-hour recurrence interval). Assume that inspection is performed by properly trained maintenance staff records are kept. None None Y or records. | Identify |
| G5. Begin conducting spot checks of stormwater treatment and flow control facilities after major rainfall events (greater than a 10-year, 24-hour recurrence interval).using standardized field data collection forms. Stormwater compliance staff will oversee work, provide technical assistance, and ensure that records are kept.Image: Compliance records are kept.repair or maintenance nee resolve concerns, and maintenance records.NoneNoneYrepair or maintenance records. | - |
| G5. Begin conducting spot checks of stormwater treatment and flow control facilities after major rainfall events (greater than a 10-year, 24-hour recurrence interval). staff will oversee work, provide technical assistance, and ensure that records are kept. None None Y records. | |
| major rainfall events (greater than a 10-year, 24-hour recurrence interval). records are kept. None None Y records. | , |
| | \$1,500 |
| Could involve anything from light maintenance to major reconstruction. | |
| Cost estimate here will generally assume that few major construction or Fix or repair observed prot | lems at |
| reconstruction projects are needed (or will help be paid for by multiple | ated |
| Departments/Divisions). Cost here is for stormwater compliance staff to | low |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based provide technical support and approval of needed repairs, ensure that control facilities after major | storm |
| on observations made during regular inspections or spot checks of University owned and records are kept, and provide some funding for the project (overlap with events. Keep records of re | |
| operated stormwater treatment and flow control facilities. NPDES CIP Fund). None Y costs. | \$3,000 |
| CWU currently performs parking | |
| lot and street sweeping during the | |
| winter and spring on an as | |
| needed basis. Areas typically | |
| swept following sanding and de- | |
| icing activities. Collected | |
| materials stock-piled at Brooklane | |
| area and utilized for pipe bedding material. Snow removal and ice | |
| control activities employed with | |
| | od |
| Assume that it takes 2 years to fully phase-in activities. Assume that street snow piled at several locations on Estimated costs for enhance sweeping continues to be one of the preferred all season BMPs employed campus in undeveloped areas. Y practices with stormwater | cu |
| by CWU with additional water quality-oriented weather report-based Covered storage provided for Base program cost compliance staff to provide | |
| G7. Begin implementing enhanced pollution prevention and good housekeeping practices sweeping in some areas on a seasonal basis. Assume that snow removal sand/deicer materials (Jongeward \$60,000 \$60 | |
| established in the O&M plan for roads, highways, and parking lots. Need to address deicing, and ice control activities continue at current level of effort and that waste Complex). Will need to review Cost increase during implementation of c | |
| anti-icing, and snow removal practices; snow disposal areas; material (e.g., salt, sand, or and snow disposal areas are available. Costs here are for stormwater existing and additional practices \$18,000 practices. | - |
| other chemical) storage areas; all-season BMPs to reduce road and parking lot debris and compliance staff to review and record practices and provide technical required to ensure WQ is Sweeping Program: Additional activities Work closely with responsi | |
| other pollutants from entering the MS4. assistance. protected. \$45,000 Departments/Divisions. | \$88,000 |
| | |
| Washing and maintenance of Stormwater compliance sta | aff to |
| Assume that physical facilities are readily available for washing and fleet is done within a self- | |
| maintenance work. Costs here are for stormwater compliance staff to contained covered building, but | |
| review and record practices and provide technical assistance. Some costs not for lawn mowers, street changed practices, assure | |
| G8. Begin conducting all vehicle and equipment washing and maintenance in a self-contained for changed practices may have to be borne by the Department/Division sweeper, concrete trucks, or are kept. Work closely with | |
| building or in designated wash and/or maintenance areas. conducting the work. refueling. None Y responsible Department/Di | |
| | |
| Stormwater compliance sta | |
| Measures implemented to ensure provide oversight and tech | |
| G9. Begin implementing pollution prevention and good housekeeping practices established in assistance during implementing pollution prevention and good housekeeping practices established in | |
| the O&M Plan for external building maintenance activities at all University-owned buildings. Costs here are for stormwater compliance staff to review and record restoration jobs that are changed practices, assure | |
| The O&M Plan shall address building exterior cleaning and maintenance, including cleaning, practices and provide technical assistance. Cost of changed practices is contracted out, but not for window are kept. Work closely with | |
| washing, painting, and other maintenance activities. borne by the Department/Division conducting the work. washing. None Y responsible Department/Division conducting the work. | vision. \$1,500 |
| Stermwater compliance at | .ff |
| Stormwater compliance sta Measures implemented to ensure provide oversight and tech | |
| G10. Begin implementing pollution prevention and good housekeeping practices established assistance during implemented to ensure assistance during implemented to ensu | |
| in the O&M Plan at all University-owned parks and open spaces. The O&M Plan shall Costs here are for stormwater compliance staff to review and record good practices/law, but sediment changed practices, assure | |
| address proper application of fertilizer, pesticides, and herbicides; sediment and erosion practices and provide technical assistance. Cost of changed practices is and erosion control not are kept. Work closely with | |
| control; BMPs for landscape maintenance and vegetation disposal; and trash management. borne by the Department/Division conducting the work. Considered. None Y responsible Department/Division | |
| Assume that it takes at least one year to identify/screen all known Develop SWPPPs to prote | |
| facilities, evaluate practices, develop SWPPPs, and identify training | |
| needs. Assume cost estimate only involves NPDES permit compliance | |
| G12. Begin developing Stormwater Pollution Prevention Plans (SWPPPs) to protect water official leading development of the SWPPP and training materials, and | |
| quality at material storage areas, heavy equipment storage areas, and maintenance areas conducting training, not the cost of implementing the SWPPP on site, | ustrial |
| not covered by a statewide NPDES Industrial Stormwater General Permit. which will be borne by the Department/Division operating the site/facility. None Y SW General Permit. | \$10,000 |
| | |
| Assume that it takes at least one year to identify all other University Stormwater compliance sta | |
| facilities, evaluate practices, identify appropriate BMPs to be implemented provide oversight and tech | |
| | |
| to protect water quality, and provide necessary training. Costs here are for assistance during implement | |
| G13. Begin implementing proper pollution prevention practices (source control and goodto protect water quality, and provide necessary training. Costs here are for stormwater compliance staff to review and record practices and provideassistance during implementing assistance during implementing | |
| to protect water quality, and provide necessary training. Costs here are for assistance during implement | l i i i i i i i i i i i i i i i i i i i |

| H. Compliance with Total Maximum Daily Load Allocations | | | | | | |
|--|--|-----------|------|---|--|-------------------------------|
| | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | None | None | Y | Participation in TMDL development may be desirable. | \$500 |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None | None | N | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | \$500 |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of Annual Repor to Ecology. | t None | None | Y | Track status of TMDL implementation and keep records. | \$500 |
| I. Monitoring and Program Evaluation Requirements | | | | | | |
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studies conducted by, on behalf of, or reported to CWU during the reporting period and | Recommended activity for CWU to consider. Specific water quality sampling and testing not required during the effective term of the Permit, unless required as part of applicable TMDL or required for characterizing illicit discharges. Assume some participation by CWU with City and/or local agencies (KCCD, KRD, others) conducting routine or special water/stormwater quality monitoring studies. | None | None | Y | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | \$500 |
| J. Reporting and Record Keeping Requirements | | | | | | |
| J1. Update written Stormwater Management Program (SWMP) for submittal with annual | Assume this update occurs in the 4th quarter 2009 with the updated plan submitted with annual report by March 31, 2010 of the following year. | None | None | Y | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). | \$7,000 |
| | Assume that this involves reviewing and modifying the process developed as needed. | None | None | Y | Enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | \$5,000 |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, site plan review and inspection program goals, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative portion of the annual report. | None | None | Y | Review/update evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | \$2,000 |
| J4. Prepare and submit Year 2 annual report and updated SWMP to Ecology. Update prior | Reports are due no later than March 31 each year. Assume that in later years it takes a fairly senior staff person working one-third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will grow in later years as required SWMP activities implemented increase. | None | None | Y | Prepare and submit annual report. | \$10,000 |
| K. NPDES Equipment Funds | NPDES equipment funds to be requested for 09/11 biennium. | | | | | |
| | NPDES capital project funds to be requested for 09/11 biennium. | | | | | |
| | | | | | SUM = | \$267,500 |
| | | | | | Equipment | \$0 |
| | | | | | Capital | \$0 |
| | | | | | Staff, Fees, Overhead, Services | \$267,500 \$267,500 |

| | YEAR 4 | | | | | |
|---|--|--|--|------------------------|---|--|
| Summary of Regulatory Requirements | Notes & Assumptions | Summary of Existing University Activities Aiding Compliance | Current Average Annual Expenditures | New Funding Needed? | Assessment of New Activities Needed for Compliance | Estimated Annual Cost to Comply |
| NPDES | | | | | | |
| A. General NPDES Requirements | | | | | | |
| A2. Pay Annual Permit Fee. | CWU - \$4,000 | None | None | Y | Pay Fee. | \$4,000 |
| B. Public Education and Outreach: Students, staff, etc. | | | | | | |
| B1. Continue to develop and distribute educational information to students and staff on the impacts of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year. | Assume that educational information developed distributed in the form of stormwater brochures. Topics to be covered include: 1) how stormwater runoff affects local waterbodies; 2) proper use and application of pesticides and fertilizers; 3) benefits of using well-adapted vegetation; 4) alternative equip. washing practices that minimize pollutants in stormwater; 5) benefits of proper vehicle maintenance and alternative transportation choices, proper handling and disposal of wastes, including location of hazardous waste collection facilities; 6) hazards associated with illicit connections; and 7) benefits of litter control and proper disposal of pewaste. | | None | Y | Continue to develop and distribute educational information to students and staff. | \$4,00 |
| Jour. | Assume 50% of all storm drain inlets labeled by end of Year 3 and | | | | | ψ1,000 |
| B2. Continue labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | remainder no later than 180 days prior to expiration date of Permit (by Aug 2011). Must also re-label inlets that are no longer clearly visible or easily readable within 90 days. Assume that work to label inlets starts in Year 3 due to relatively few inlets on university property (approx. 235 storm drain inlets). | None | None | Y | Label remaining 50% of storm drain inlets on university property. Maintain records of the location and number of inlets labeled annually. | |
| C. Public Involvement and Participation: Solicit public review of stormwater | | | | | | +-, |
| management program via public notification, website posting, etc. | Note that minimum requirements do not begin until early in Year 5. | | | | | |
| D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce | | | | | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. | | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | \$1,000 |
| D3. Review and update written IDDE Program Plan as needed. | Assume limited staff time to review, evaluate, and update written IDDE Program Plan. Assume training course for staff involved in IDDE Program is continued from Year 3 with costs covered under staff education (D4). | | None | Y | Review, evaluate, and update written IDDE Program Plan as needed. Includes review and update of Enforcement Plan and existing Spill Response Plan. Provide continued training for relevant staff. | \$1,000 |
| D4. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | None | None | Y | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Ron Munson and Pam Coppersmith are trained. They each receive HAZWOPER training with refreshers of 8 hours per year per person. They also d participate in a campus-wide lab safety program. | \$2,000 | Y | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff trained. | \$4,500 |

| to system characteristic data and information, location of previously unknown outfalls and | Assume that CWU has completed MS4 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by permit compliance staff. | | None | Y | Annually update MS4 mapping. | \$1,000 |
|--|--|--|------|---|---|---------|
| D7. Develop and implement a Spill Response Plan that includes coordination with a qualified | Main Campus addresses spill response and is included in IDDE Program | SPCC Plan developed in 1999 by Ron Munson (EH&S) and Consultant (GN Northern Inc.). Plan needs to be reviewed and updated. | None | Y | Review and update existing plan, including the collection of necessary information and coordination with qualified spill responder. Update IDDE Program Plan when completed. Incorporate into future staff training as appropriate. Distribute updated spill response plan with various CWU Depts., City, emergency response, fire department, and other involved parties. | \$4,000 |
| E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites one or more acres in size. | | | | | | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. Cost to review and update included in D1. | Currently comply with existing | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | \$0 |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- construction controls will be employed. Cost of seeking (submitting NOIs, public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the project contractor. Assume some form of written internal procedures necessary to ensure permit coverage obtained. | | None | Y | Update internal procedures written for FMD-level NPDES application. Need money and staff resources to create and maintain records of seeking and complying with construction stormwater permits for University projects. | \$2,000 |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities, and to | CWU currently coordinates with the City and others; however, the coordination needs to be | None | Y | Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. Continue to coordinate. | \$1,000 |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control | Assume that a formal on-going training program for relevant staff is needed. Existing training opportunities provided through IET Construction Management may be adequate for permit compliance but needs to be reviewed and updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assume level of effort drops because most training materials and procedures have been established. | , | None | Y | Continue to provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP requirements, and other related requirements. | \$3,000 |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide access for inspection of construction sites or other land disturbances, which are under the | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | CWU currently coordinates with the City and/or Ecology as requested. | None | N | Continue to provide access for inspection of construction sites as requested. | \$500 |

| F. Post Construction Stormwater Management: Coordinate with local jurisdiction to | | | | | | |
|--|---|---|--|--|---|---------------------|
| address post construction stormwater runoff to the MS4 from sites one or more acres | | | | | | |
| in size. | | | | | | |
| | CWU to have something in writing and adopted by Board of Trustees. | | | | | |
| | Assume that written policy addresses relevant City ordinance, rules, and | | | | | |
| | regulations related to non-stormwater (illicit) discharges; construction- | | | | | |
| | | | | | | |
| | phase SW pollution prevention measures; and post-construction SW | | | | | |
| | pollution prevention measures. Assume that Minimum Technical | | | | | |
| | Requirements in Appendix 1 of the Permit addressed in the written policy | | | | | |
| | adopted since CWU will be required to follow requirements (or equivalent). | | | | Continue to comply with all relevant | |
| | Assume that City has adopted discrete ordinances to comply with NPDES | | | | ordinances, rules, and regulations | |
| F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | requirements and is fully implementing and enforcing. Cost to review and | Currently comply with existing | | | that pertain to stormwater. Update | |
| Ellensburg that govern post-construction phase stormwater pollution prevention measures. | update included in D1. | City Code. | None | Y | written policy, as necessary. | \$0 |
| | Assume that the formal agreement developed for notification and | | | | Review and update written MOU or | |
| | continued coordination between CWU and other entities (City, Ellensburg | | | | similar agreement with the City, | |
| | Water Co., WSDOT, others) for construction-related activities (see E3), | | | | EWC, and WSDOT for formalized | |
| F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operat | | CWU currently coordinates with | | | documentation and notification of | |
| | | | | | | |
| by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with | | the City and others; however, the | | | construction-related activities and | |
| achieving compliance with all relevant ordinances, rules, and regulations that govern post- | updated as necessary. Cost to review and update included in E3. Assume | coordination needs to be | | | post-const SW management. | A =00 |
| construction stormwater pollution prevention measures. | minimal estimate for some coordination efforts. | formalized and improved upon. | None | Y | Continue to coordinate. | \$500 |
| | | | | | | |
| C. Bellution Provention and Cood Housekeeping for University Operations, Develop | | | | | | |
| G. Pollution Prevention and Good Housekeeping for University Operations: Develop | | | | | | |
| and implement an on-going O&M program, including a staff training program, aimed | it is a second se | | | | | |
| preventing or reducing pollutant runoff from University operations. | | | | | | |
| | Assume that it takes 2 years to develop the O&M Plan and that | | | | | |
| | appropriate staff from various Departments/Divisions are involved. Assume | | | | | |
| | training is provided to approximately 4 groups, including Plant O&M, | | | | | |
| | Facilities Planning/Construction, Facilities Services/Administration, and | | | | | |
| | Custodial/Grounds/Motor Pool. This is assumed to be a large effort, | | | | | |
| | including a formal day of training in-house and a full day in the field. | | | | Conduct good housekeeping | |
| | Assume training is lead by stormwater compliance staff and is a direct | Development of training program | | | training program for various affected | |
| OO Finish developing and even to a good housely aging training any provide the various | | | | | | |
| G2. Finish developing and execute a good housekeeping training program for the various | stormwater program cost. Costs to send staff to training is borne by | initiated but no training currently | Maria | N/ | Departments/Divisions and | # 40.000 |
| staff groups. | Department/Division that staff represent. | provided. | None | Y | associated staff. | \$12,000 |
| | | | | | | |
| | Assume that it takes 2 years to fully phase-in enhanced activities. Assume | CWU currently performs very | | | Estimated costs for enhanced | |
| | that facilities exist for proper waste disposal (construction of a "vactor" | limited storm system | | | maintenance program with | |
| | waste dewatering/decant facility may be required - consider regional | maintenance. Activities limited to | | | stormwater compliance staff to | |
| G3. Continue phasing-in and implementing enhanced storm system maintenance activities | habite definitioning/declarit radinty may be required - conclude regional | | | | | |
| | n facility shared with City). Assume that most necessary heavy equipment is | catch basin cleaning and system | | v | provide oversight and technical | |
| | n facility shared with City). Assume that most necessary heavy equipment is | catch basin cleaning and system | | | provide oversight and technical | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of | available, however some specialized equipment may need to be | line flushing (vacuum out basins | | Existing costs | assistance during implementation of | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full | line flushing (vacuum out basins and jet outfalls to creeks). No | Storm System | Existing costs \$10,000 | assistance during implementation of new/changed practices, assure | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data provide technical assistance, and ensure that records are kept. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | \$70,000 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re- | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur | Storm System Inspect/Maint: | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | \$70,000 \$2,500 |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re- | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re- | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 Y | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities reinspected by end of Year 5. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur on a limited basis. | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities reinspected by end of Year 5. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur on a limited basis. | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment occurs. | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities reinspected by end of Year 5. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur on a limited basis. | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |
| accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. G4. Continue to inspect stormwater treatment and flow control facilities owned or operated the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities reinspected by end of Year 5. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater budget categories. Assume that costs split in Years 4-5 since all facilities reinspected by end of Year 5. | line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record keeping. Map is approximately 2/3 complete in AutoCAD as of January 1, 2008. University- owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur on a limited basis. | Storm System Inspect/Maint: \$10,000 | Existing costs \$10,000 Additional activities \$60,000 | Assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | |

| | | | | | , | |
|---|---|---------------------------------------|------------------|-------------------|--------------------------------------|--|
| | Could involve anything from light maintenance to major reconstruction. | | | | | |
| | Cost estimate here will generally assume that few major construction or | | | | Fix or repair observed problems at | |
| | reconstruction projects are needed (or will help be paid for by multiple | | | | University owned and operated | |
| | Departments/Divisions). Cost here is for stormwater compliance staff to | | | | stormwater treatment and flow | |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based | provide technical support and approval of needed repairs, ensure that | | | | control facilities after major storm | |
| on observations made during regular inspections or spot checks of University owned and | records are kept, and provide some funding for the project (overlap with | | | | events. Keep records of repairs and | |
| operated stormwater treatment and flow control facilities. | NPDES CIP Fund). | None | None | Y | costs. | \$3,000 |
| | | CWU currently performs parking | | | | |
| | | lot and street sweeping during the | 9 | | | |
| | | winter and spring on an as | | | | |
| | | needed basis. Areas typically | | | | |
| | | swept following sanding and de- | | | | |
| | | icing activities. Collected | | | | |
| | | materials stock-piled at Brooklane | 9 | | | |
| | | area and utilized for pipe bedding | | | | |
| | | material. Snow removal and ice | | | | |
| | | control activities employed with | | | | |
| | Assume that it takes 2 years to fully phase-in activities. Assume that street | | | | Estimated costs for enhanced | |
| | | campus in undeveloped areas. | | Y | practices with stormwater | |
| | by CWU with additional water quality-oriented weather report-based | Covered storage provided for | | Base program cost | compliance staff to provide | |
| G7. Continue phasing-in and implementing enhanced pollution prevention and good | | sand/deicer materials (Jongeward | 1 | \$78,000 | oversight and technical assistance | |
| housekeeping practices established in the O&M plan for roads, highways, parking lots. Need | | Complex). Will need to review | | Cost increase | during implementation of changed | |
| to address deicing, anti-icing, and snow removal practices; snow disposal areas; material | | existing and additional practices | | \$23,000 | practices, assure records are kept. | |
| (e.g., salt, sand, or other chemical) storage areas; all-season BMPs to reduce road and | | | Sweeping Program | | Work closely with responsible | |
| parking lot debris and other pollutants from entering the MS4. | assistance. | | \$45,000 | \$15,000 | Departments/Divisions. | \$116,000 |
| | | | + | + , | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | | Washing and maintenance of | | | Stormwater compliance staff to | |
| | | fleet is done within a self- | | | provide oversight and technical | |
| | | contained covered building, but | | | assistance during implementation of | |
| | review and record practices and provide technical assistance. Some costs | not for lawn mowers, street | | | changed practices, assure records | |
| G8. Continue to conduct all vehicle and equipment washing and maintenance in a self- | for changed practices may have to be borne by the Department/Division | sweeper, concrete trucks, or | | | are kept. Work closely with | |
| contained building or in designated wash and/or maintenance areas. | conducting the work. | | None | Y | responsible Department/Division. | \$1,500 |
| | | | | | | |
| | | | | | Stormwater compliance staff to | |
| | | Measures implemented to ensure | | | provide oversight and technical | |
| | | wash effluent is captured during | | | assistance during implementation of | |
| G9. Continue phasing-in and implementing pollution prevention and good housekeeping | Costs here are for stormwater compliance staff to review and record | restoration jobs that are | | | changed practices, assure records | |
| practices established in the O&M Plan for external building maintenance activities at all | practices and provide technical assistance. Cost of changed practices is | contracted out, but not for window | / | | are kept. Work closely with | |
| University-owned buildings. | borne by the Department/Division conducting the work. | washing. | None | Y | responsible Department/Division. | \$1,500 |
| | | | | | | |
| | | | | | Stormwater compliance staff | |
| | | Measures implemented to ensure | | | provide oversight and technical | |
| | | fertilizer, etc. applied according to | | | assistance during implementation of | |
| | Costs here are for stormwater compliance staff to review and record | good practices/law, but sediment | | | changed practices, assure records | |
| G10. Continue phasing-in and implementing pollution prevention and good housekeeping | practices and provide technical assistance. Cost of changed practices is | and erosion control not | | | are kept. Work closely with | |
| practices established in the O&M Plan at all University-owned parks and open spaces. | | considered. | None | Υ | responsible Department/Division. | \$1,500 |
| | Assume cost estimate only involves NPDES permit compliance official | | | | | |
| | leading development of the SWPPP and training materials, and conducting | | | | Complete SWPPPs to protect water | |
| G12. Finish developing and begin implementing Stormwater Pollution Prevention Plans | training, not the cost of implementing the SWPPP on site, which will be | | | | quality at material storage areas, | |
| (SWPPPs) to protect water quality at material storage areas, heavy equipment storage areas | | | | | heavy equipment storage areas, | |
| and maintenance areas not covered by a statewide NPDES Industrial Stormwater General | level of effort drops in Years 4-5 because training materials, training | | | | and maintenance areas; conduct | |
| Permit. Develop training materials and execute training as needed. | program, and procedures have already been established. | None | None | Y | training; and implement SWPPPs. | \$8,000 |
| | | | | | | |
| | | | | | Stormwater compliance staff | |
| | | | | | provide oversight and technical | |
| | | | | | assistance during implementation of | |
| | | | | | | |
| G13. Continue phasing-in and implementing proper pollution prevention practices (source | Costs here are for stormwater compliance staff to review and record | | | | changed practices, assure records | |
| G13. Continue phasing-in and implementing proper pollution prevention practices (source control and good housekeeping BMPs) for other University facilities and/or activities that would reasonably be expected to discharge contaminated runoff. | practices and provide technical assistance. Cost of changed practices is | None | None | × | | \$2,000 |

| H. Compliance with Total Maximum Daily Load Allocations | | | | | | |
|---|--|------|------|---|--|----------|
| | Assume this is required to know and control liability. Assume that this | | | | | |
| H1. Derticinate in the development of TMDLs | involves staff time to review materials, attend meetings, prepare and | None | Nono | V | Participation in TMDL development | ¢500 |
| H1. Participate in the development of TMDLs. | submit correspondence. | None | None | ř | may be desirable. | \$500 |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities | | | | | None presently; however, may be | |
| coordinated with local agencies, enhanced source control efforts, retrofitting treatment into | to fulfill to be in compliance with applicable TMDLs. However, assume | | | | desirable to coordinate with City's | |
| existing storm drains, outfall monitoring, etc.). | minimal estimate to allow for minor compliance activities. | None | None | Ν | TMDL implementation activities. | \$500 |
| | Assume record keeping and tracking status of TMDL implementation | | | | | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts | minimal. Status of TMDL implementation included as part of Annual Report | t | | | Track status of TMDL | |
| aimed at addressing TMDLs on local receiving waters. | to Ecology. | None | None | Y | implementation and keep records. | \$500 |
| I. Monitoring and Program Evaluation Requirements | | | | | | |
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at | Recommended activity for CWU to consider. Specific water quality | | | | | |
| assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater | sampling and testing not required during the effective term of the Permit, | | | | | |
| management programs or TMDL implementation activities. Includes monitoring of outfall | unless required as part of applicable TMDL or required for characterizing | | | | Continue to participate in local | |
| quality to receiving waters. Provide a description of any stormwater monitoring or other | illicit discharges. Assume some participation by CWU with City and/or | | | | water/stormwater quality monitoring | |
| studies conducted by, on behalf of, or reported to CWU during the reporting period and | local agencies (KCCD, KRD, others) conducting routine or special | | | | studies. Submit description of | |
| include in the annual report to Ecology. | water/stormwater quality monitoring studies. | None | None | Y | studies with annual report. | \$1,000 |
| J. Reporting and Record Keeping Requirements | | | | | | |
| | | | | | Update SWMP according to | |
| | | | | | Ecology format. Assume effort by | |
| J1. Update written Stormwater Management Program (SWMP) for submittal with annual | Assume this update occurs in the 4th quarter 2010 with the updated plan | | | | multiple staff and review/approval | |
| report. | submitted with annual report by March 31, 2011 of the following year. | None | None | Y | by designated individual(s). | \$8,000 |
| J2. Continue ongoing process for gathering, recording, maintaining, and using information to | | | | | Enact record keeping | |
| conduct planning, set priorities, track the development and implementation of the SWMP, | | | | | forms/protocols; work with | |
| evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP | | | | | directors/managers/staff to | |
| implementation (develop measurable goals). Information collected to be used for the | Assume that this involves reviewing and modifying the process developed | | | | implement. Fair effort by staff at | |
| preparation of annual reports consistent with reporting requirements outlined in Permit. | as needed. | None | None | Y | multiple levels. | \$5,000 |
| | Assume this is a relatively simple process that considers the activities | | | | | |
| | detailed for each SWMP component and cross-check them against | | | | | |
| | records (e.g., reaching target audiences, site plan review and inspection | | | | | |
| | program goals, storm system maintenance inspection goals, and other | | | | Review/update evaluation | |
| | measurable goals established). Also cross-check activities against | | | | approach, conduct evaluation, | |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components | established literature, studies, and accepted BMP manuals to assess | | | | prepare narrative of process and | |
| implemented to date, including whether the SWMP is preventing adverse impacts to water | impact to water quality. Assume that this analysis is presented/discussed | | | | results for inclusion in annual report | |
| quality. | in a narrative portion of the annual report. | None | None | Y | to Ecology. | \$2,000 |
| | | | | | | |
| | Reports are due no later than March 31 each year. Assume that in later | | | | | |
| | years it takes a fairly senior staff person working one-third time from | | | | | |
| | January 1 to March 31 to prepare the report - including gathering all of the | | | | | |
| | records, meeting with department/division/staff responsible for various | | | | | |
| | components, tracking down/reviewing all necessary records, preparing | | | | | |
| J4. Prepare and submit Year 3 annual report and updated SWMP to Ecology. Update prior | summaries and maps, etc. Effort may be less in first couple years but will | None | None | V | Dreners and submit ensuel recent | ¢12.000 |
| year annual report and address same considerations as described under Permit Year 2. | grow in later years as required SWMP activities implemented increase. | None | None | Ĩ | Prepare and submit annual report. | \$13,000 |

| K. NPDES Equipment Funds | | | | | | |
|---|---|--|------|--|--|-----------|
| K1. Illicit Discharge Detection and Elimination Equipment Fund. | Assume that funds needed for the purchase and replacement of equipmen needed to execute the IDDE Program. Assume that a formal funding request is made for necessary equipment during 2009/2011 biennium. Typical equipment needed includes vehicle rental, field testing equipment, flow monitoring equipment, field computer, digital camera, survey and GPS equipment, safety equipment, etc. | | None | Y | Request additional funding to support purchase and replacement of needed IDDE Program equipment. | \$50,000 |
| K2. Good Housekeeping Equipment Fund. | Assume that funds needed to allow for the purchase and R&R of O&M related equipment needed to execute pollution prevention and good housekeeping activities. Assume that formal funding request made for necessary equipment during 2009/2011 biennium. Assume that purchasing and R&R of most major equipment will be shared between various Departments/Divisions sharing use or benefit of the equipment. | CWU currently has one Elgin sweeper truck with snorkel vacuum hose, one sewer jetter, one backhoe, and various tractors with front-end loaders. Additional equipment needs include a new high-efficiency street/parking lot sweeper (\$150K). Assume unforeseen equipment needed (\$50K). | None | Y Identified Equip: \$150,000 Additional Equip: \$50,000 | Request additional funding to support purchase and replacement of needed O&M and related equipment. Funds to contribute to Departments/Divisions responsible for bulk of pollution prevention and good housekeeping activities and costs. | \$200,000 |
| L. NPDES Capital Project Funds | | | | | | |
| L1. Known or planned stormwater project needs. | Assume that funds needed for known or planned drainage/flooding/water quality projects to cover costs associated with engineering design, permitting, PS&E, and construction. Assume that a formal funding request is made for known or planned CIPs during 2009/2011 biennium. Assume funds to be contributed to Department/Division responsible for the bulk of CIP costs. Staff have identified the need for a properly designed (including stormwater treatment) washout station at the Jongeward Complex. Total project cost estimated at \$250K. | typically included with major capital or facility projects on | None | Y Equip Washout Station \$250,000 | Request additional funding to support planning, design, and construction of known or planned drainage/flooding CIPs. Funds to contribute to Department/Division responsible for bulk of CIP costs. | \$250,000 |
| L2. Fund to cover needs of projects discovered as SWM Program is implemented. | Assume that funds needed for projects that will inevitably be discovered during SWM Program implementation that must be addressed. Assume that a formal funding request made for unforeseen projects during 2009/2011 biennium. It is not possible to know the magnitude of these project costs; however, the estimate will be kept low and it will be assumed that: (1) some are financed over the long term and (2) large projects will require modification of the program budget in future bienniums. | None | None | Y | Request additional funding to support discovered CIP needs. | \$50,000 |
| | | | | | SUM = | \$842,000 |
| | | | | | Equipment | \$250,000 |
| | | | | | Capital | \$300,000 |
| | | | | | Staff, Fees, Overhead, Services | \$292,000 |
| | | | | | | \$842,000 |

| YEAR 5 | | | | | | |
|---|--|---|--|------------------------|---|--|
| Summary of Regulatory Requirements | Notes & Assumptions | Summary of Existing University Activities Aiding Compliance | Current Average Annual Expenditures | New Funding Needed? | Assessment of New Activities Needed for Compliance | Estimated Annual Cost to Comply |
| NPDES | | | | | | |
| A. General NPDES Requirements | | | | | | |
| A2. Pay Annual Permit Fee. | CWU - \$4,500 | None | None | Y | Pay Fee. | \$4,500 |
| B. Public Education and Outreach: Students, staff, etc. | | | | | | |
| B1. Continue distributing educational information to students and staff on the impact of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year. | Assume that educational information developed distributed in the form of stormwater brochures. Topics to be covered included in Years 3 & 4. Assume some key staff time to review and update public education and outreach activities and/or strategy employed to date. | None | None | Y | Review and update pubic education and outreach activities and/or strategy as needed. Continue to develop and distribute educational information to students and staff. | \$5,500 |
| B2. Continue labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | Inlets must be re-labeled within 90 days if they are no longer clearly visible or easily readable. Assume some staff time during Year 5 to periodically inspect labeled inlets and re-label as necessary. Assume 5% of labeled inlets need to be re-labeled on an annual basis. | None | None | Y | Periodically inspect labeled storm drain inlets and re-label as necessary. Maintain records of the location and number of inlets re- labeled annually. | \$500 |
| C. Public Involvement and Participation: Solicit public review of stormwater management program via public notification, website posting, etc. | | | | | | |
| C1. Publish a public notice in the local newspaper and solicit public review of the SWMP. | Assume 1 week of supervisor time to write public notice for release to local newspaper and to respond to any phone calls and/or complaints received from the public. Due 180 days prior to expiration date of Permit (by Aug 2011). | None | None | Y | Publish a public notice for distribution in local newspaper. Respond to public input received. | \$3,000 |
| C2. Make the latest updated version of the SWMP available to the public via the CWU website. | Assume costs for coordination and posting of updated SWMP on website. Due 180 days prior to expiration date of Permit (by Aug 2011). | None | None | Y | Coordinate with appropriate CWU Dept to post SWMP on website. | \$500 |
| D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce program to detect and eliminate polluted non-stormwater discharges into the MS4. | | | | | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. | Currently comply with existing City Code. | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | t \$1,000 |
| D3. Review and update written IDDE Program Plan as needed. | Assume limited staff time to review, evaluate, and update written IDDE Program Plan. Assume training course for staff involved in IDDE Program is continued from Year 4 with costs covered under staff education (D4). | None | None | Y | Review, evaluate, and update written IDDE Program Plan as needed. Includes review and update of Enforcement Plan and current Spill Response Plan. Provide continued training for relevant staff. | e \$1,000 |
| D4. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | | None | Y | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | f |

| | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct | Ron Munson and Pam Coppersmith are trained. They each receive HAZWOPER training with refreshers of 8 hours per year per person. They also | | | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff | |
|--|--|---|---------|---|---|---------|
| | activities related to IDDE Program, including illicit discharge detection, field | | ¢2.000 | V | trained. Evaluate need for training | ¢5,000 |
| relevant staff on proper BMPs for preventing spills and illicit discharges. | assessments, tracing methods, spill response, enforcement activities, etc. | safety program. | \$2,000 | Y | update. | \$5,000 |
| to system characteristic data and information, location of previously unknown outfalls and | Assume that CWU has completed MS4 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by permit compliance staff. | | None | Y | Annually update MS4 mapping. | \$1,000 |
| | Note that minimum requirements do not require that Spill Response Plan be completed until Year 5 (by Aug 2011). However, response plan necessary for staff to address spill response and containment, hazard assessment, coordination with qualified local spill responder, etc. Assume costs for incident response and related activities covered under implementation of IDDE Program (D3). Assume some time for plan to be reviewed by permit compliance staff and updated as needed (e.g., updates of contact personnel information and phone numbers, etc.). | SPCC Plan developed in 1999 by Ron Munson (EH&S) and Consultant (GN Northern Inc.). Plan needs to be reviewed and updated. | None | Y | Review revised plan and update as necessary. Include updated version in IDDE Program Plan and redistribute current version to various CWU Depts., City, emergency response, fire department, and other involved parties. | \$500 |
| | e. contest perconnor mornation and phone numbers, etc.). | | | | p | φ000 |
| E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites one or more acres in size. | | | | | | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. Cost to review and update included in D1. | Currently comply with existing City Code. | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | \$0 |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- construction controls will be employed. Cost of seeking (submitting NOIs, public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the project contractor. Assume some form of written internal procedures necessary to ensure permit coverage obtained. | CWU does not currently seek coverage under the NPDES Construction Stormwater General | None | Y | Update internal procedures written for FMD-level NPDES application. Need money and staff resources to create and maintain records of seeking and complying with construction stormwater permits for University projects. | \$2,000 |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities, and to address post-construction stormwater management for new development and redevelopment projects (see F2), is annually reviewed and updated as necessary. Assume minimal estimate for some coordination efforts. | CWU currently coordinates with the City and others; however, the coordination needs to be | None | Y | Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. Continue to coordinate. | \$1,000 |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control | Assume that a formal ongoing training program for relevant staff is needed. Existing training opportunities provided through IET Construction Management may be adequate for permit compliance but needs to be reviewed and updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assume level of effort drops because most training materials and procedures have been established. | | None | Y | Continue to provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP requirements, and other related requirements. | \$3,000 |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide access for inspection of construction sites or other land disturbances, which are under the | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | CWU currently coordinates with the City and/or Ecology as requested. | None | N | Continue to provide access for inspection of construction sites as requested. | \$500 |

| F. Post Construction Stormwater Management: Coordinate with local jurisdiction to | | | | | | |
|--|--|--|--------------------------------|--|---|----------|
| address post construction stormwater runoff to the MS4 from sites one or more acres in size. | | | | | | |
| in size. F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction phase stormwater pollution prevention measures. F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated | update included in D1. Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities (see E3), and to address post-construction stormwater management for new | Currently comply with existing City Code. | None | Y | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of | \$C |
| | development and redevelopment projects, is annually reviewed and updated as necessary. Cost to review and update included in E3. Assume | the City and others; however, the coordination needs to be | | | construction-related activities and post-const SW management. | |
| | minimal estimate for some coordination efforts. | | None | Y | Continue to coordinate. | \$500 |
| G. Pollution Prevention and Good Housekeeping for University Operations: Develop and implement an ongoing O&M program, including a staff training program, aimed at preventing or reducing pollutant runoff from University operations. | | | | | | |
| | Assume training is provided to approximately 4 groups, including Plant O&M, Facilities Planning/Construction, Facilities Services/Administration, and Custodial/Grounds/Motor Pool. This is assumed to be a large effort, including a formal day of training in-house and a full day in the field. Assume training is lead by stormwater compliance staff and is a direct stormwater program cost. Costs to send staff to training is borne by Department/Division that staff represent. | Development of training program initiated but no training currently provided. | None | Y | Evaluate need for training update. Update and repeat good housekeeping training program for various affected Departments/Divisions and associated staff. | \$6,000 |
| G3. Fully implement enhanced storm system maintenance activities in accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facility (BMP) maintenance, and proper waste | | limited storm system maintenance. Activities limited to catch basin cleaning and system line flushing (vacuum out basins and jet outfalls to creeks). No formal documentation or record | Storm System Inspect/Maint: | Y Existing costs \$10,000 Additional activities \$70,000 | Estimated costs for enhanced maintenance program with stormwater compliance staff to provide oversight and technical assistance during implementation of new/changed practices, assure record as kept. Work closely with responsible Departments/Divisions. | \$80,000 |
| G4. Continue to inspect stormwater treatment and flow control facilities owned or operated by the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment | Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re- | owned SW treatment and flow control facilities to be added to existing maps. Location of facilities may be known since some inspections/cleaning occur | None | Y | Inspect all remaining SW treatment and flow control facilities. Identify repair or maintenance needs, resolve concerns, and maintain records. | \$2,500 |
| G5. Continue to conduct spot checks at stormwater treatment and flow control facilities after | Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide technical assistance, and ensure that records are kept. | | None | Y | Conduct spot checks of stormwater treatment and flow control facilities after major rainfall events. Identify repair or maintenance needs, resolve concerns, and maintain records. | \$1,500 |

| | Could involve anything from light maintenance to major reconstruction. | | | | | |
|--|---|---------------------------------------|---------------------|-------------------|--|-----------|
| | Cost estimate here will generally assume that few major construction or | | | | Fix or repair observed problems at | |
| | reconstruction projects are needed (or will help be paid for by multiple | | | | University owned and operated | |
| | Departments/Divisions). Cost here is for stormwater compliance staff to | | | | stormwater treatment and flow | |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based | provide technical support and approval of needed repairs, ensure that | | | | control facilities after major storm | |
| on observations made during regular inspections or spot checks of University owned and | records are kept, and provide some funding for the project (overlap with | | | | events. Keep records of repairs and | |
| operated stormwater treatment and flow control facilities. | NPDES CIP Fund). | None | None | v | costs. | \$3,000 |
| | NEDES CIF Fullu). | | NULLE | I | | \$3,000 |
| | | CWU currently performs parking | | | | |
| | | lot and street sweeping during the | | | | |
| | | winter and spring on an as | | | | |
| | | needed basis. Areas typically | | | | |
| | | swept following sanding and de- | | | | |
| | | icing activities. Collected | | | | |
| | | materials stock-piled at Brooklane | | | | |
| | | area and utilized for pipe bedding | | | | |
| | | material. Snow removal and ice | | | | |
| | | control activities employed with | | | | |
| | Assume that it takes 2 years to fully phase-in activities. Assume that street | | | | Estimated costs for enhanced | |
| | | | | Y | practices with stormwater | |
| | by CWU with additional water quality-oriented weather report-based | Covered storage provided for | | Base program cost | compliance staff to provide | |
| G7. Fully implement enhanced pollution prevention and good housekeeping practices | | sand/deicer materials (Jongeward | | \$101,000 | oversight and technical assistance | |
| established in the O&M plan for roads, highways, parking lots. Need to address deicing, anti- | and ice control activities continue at current level of effort and that waste | Complex). Will need to review | | Cost increase | during implementation of changed | |
| icing, and snow removal practices; snow disposal areas; material (e.g., salt, sand, or other | and snow disposal areas are available. Costs here are for improved | existing and additional practices | | \$30,000 | practices, assure records are kept. | |
| chemical) storage areas; all-season BMPs to reduce road and parking lot debris and other | | | Swooning Program | | Work closely with responsible | |
| pollutants from entering the MS4. | and provide technical assistance. | | \$45,000 | \$20,000 | Departments/Divisions. | \$151,000 |
| | | protected. | 94 5,000 | \$20,000 | Departments/Divisions. | \$151,000 |
| | | | | | | |
| | | Washing and maintenance of | | | Stormwater compliance staff to | |
| | Assume that physical facilities are readily available for washing and | fleet is done within a self- | | | provide oversight and technical | |
| | maintenance work. Costs here are for stormwater compliance staff to | contained covered building, but | | | assistance during implementation of | |
| | review and record practices and provide technical assistance. Some costs | not for lawn mowers, street | | | changed practices, assure records | |
| G8. Fully implement all vehicle and equipment washing and maintenance in in a self- | for changed practices may have to be borne by the Department/Division | sweeper, concrete trucks, or | | | are kept. Work closely with | |
| contained building or in designated wash and/or maintenance areas. | conducting the work. | refueling. | None | Y | responsible Department/Division. | \$1,500 |
| | | | | | | |
| | | | | | Stormwater compliance staff to | |
| | | Measures implemented to ensure | | | provide oversight and technical | |
| | | wash effluent is captured during | | | assistance during implementation of | |
| | Costs here are for stormwater compliance staff to review and record | restoration jobs that are | | | changed practices, assure records | |
| G9. Fully implement pollution prevention and good housekeeping practices established in the | practices and provide technical assistance. Cost of changed practices is | contracted out, but not for window | , | | are kept. Work closely with | |
| O&M Plan for external building maintenance activities at all University-owned buildings. | borne by the Department/Division conducting the work. | washing. | None | Y | responsible Department/Division. | \$1,500 |
| ,,,,, | | Ť | | | | |
| | | | | | Stormwater compliance staff | |
| | | Measures implemented to ensure | | | provide oversight and technical | |
| | | fertilizer, etc. applied according to | | | assistance during implementation of | |
| | Costs here are for stormwater compliance staff to review and record | good practices/law, but sediment | | | changed practices, assure records | |
| G10. Fully implement pollution prevention and good housekeeping practices established in | practices and provide technical assistance. Cost of changed practices is | and erosion control not | | | are kept. Work closely with | |
| the O&M Plan at all University-owned parks and open spaces. | borne by the Department/Division conducting the work. | | Nono | v | responsible Department/Division. | \$1,500 |
| and Odivi Fian at all Onlycisity-Owned Parks and Open spaces. | | | None | | | φ1,500 |
| | Assume cost estimate only involves NPDES permit compliance official | | | | Implement SWPPPs to protect | |
| C12 Fully implement Stormwater Ballytian Drevention Diana (OM/DDD-) to analysis | leading development of the SWPPP and training materials, and conducting | | | | water quality at material storage | |
| G12. Fully implement Stormwater Pollution Prevention Plans (SWPPPs) to protect water | training, not the cost of implementing the SWPPP on site, which will be | | | | areas, heavy equipment storage | |
| quality at material storage areas, heavy equipment storage areas, and maintenance areas | borne by the Department/Division operating the site/facility. Assume that | | | | areas, and maintenance areas; | |
| not covered by a statewide NPDES Industrial Stormwater General Permit. Update training | level of effort drops in years 4-5 because training materials, training | | | | conduct training; and continue to | |
| materials and execute training as needed. | program, and procedures have already been established. | None | None | Y | implement SWPPPs. | \$6,000 |
| | | | | | | |
| | | | | | Stormwater compliance staff | |
| | | | | | provide oversight and technical | |
| | | | | | assistance during implementation of | |
| G13. Fully implement proper pollution prevention practices (source control and good | Costs here are for stormwater compliance staff to review and record | | | | changed practices, assure records | |
| | | | | | | |
| housekeeping BMPs) for other University facilities and/or activities that would reasonably be expected to discharge contaminated runoff. | | None | None | | are kept. Work closely with responsible Department/Division. | \$1,000 |

| H. Compliance with Total Maximum Daily Load Allocations | | | | | | |
|---|--|------|------|---|--|----------|
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | None | None | Y | Participation in TMDL development may be desirable. | \$500 |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None | None | Ν | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | \$500 |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of annual report to Ecology. | None | None | Y | Track status of TMDL implementation and keep records. | \$500 |
| I. Monitoring and Program Evaluation Requirements | | | | | | |
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studies conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | Recommended activity for CWU to consider. Specific water quality sampling and testing not required during the effective term of the Permit, unless required as part of applicable TMDL or required for characterizing illicit discharges. Assume some participation by CWU with City and/or local agencies (KCCD, KRD, others) conducting routine or special water/stormwater quality monitoring studies. | None | None | Y | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | \$1,000 |
| J. Reporting and Record Keeping Requirements | | | | | | |
| J1. Update written Stormwater Management Program (SWMP) for submittal with annual report. | Assume this update occurs in the 4th quarter 2011 with the updated plan submitted with annual report by March 31, 2012 of the following year. | None | None | Y | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). | \$8.000 |
| J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. | Assume that this involves reviewing and modifying the process developed as needed. | None | None | Y | Enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | \$5,000 |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water quality. | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, site plan review and inspection program goals, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative portion of the annual report. | None | None | Y | Review/update evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | \$2,000 |
| J4. Prepare and submit Year 4 annual report and updated SWMP to Ecology. Update prior | Reports are due no later than March 31 each year. Assume that in later years it takes a fairly senior staff person working one-third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will | | | Y | | |
| year annual report and address same considerations as described under Permit Year 2. | grow in later years as required SWMP activities implemented increase. | None | None | Y | Prepare and submit annual report. | \$13,000 |

| K. NPDES Equipment Funds | | | | | | |
|---|--|--|------|--|--|-----------|
| K1. Illicit Discharge Detection and Elimination Equipment Fund. | Assume that funds needed for the purchase and replacement of equipment needed to execute the IDDE Program. Assume that a formal funding request is made for necessary equipment during 2009/2011 biennium. Typical equipment needed includes vehicle rental, field testing equipment, flow monitoring equipment, field computer, digital camera, survey and GPS equipment, safety equipment, etc. | | None | Y | Additional funding requested to support purchase and replacement of needed IDDE Program equipment. | \$0 |
| K2. Good Housekeeping Equipment Fund. | Assume that funds needed to allow for the purchase and R&R of O&M related equipment needed to execute pollution prevention and good housekeeping activities. Assume that formal funding request made for necessary equipment during 2009/2011 biennium. Assume that purchasing and R&R of most major equipment will be shared between various Departments/Divisions sharing use or benefit of the equipment. | CWU currently has one Elgin sweeper truck with snorkel vacuum hose, one sewer jetter, one backhoe, and various tractors with front-end loaders. Additional equipment needs include a new high-efficiency street/parking lot sweeper (\$150K). Assume unforeseen equipment needed (\$50K). | None | Y Identified Equip: \$150,000 Additional Equip: \$50,000 | Additional funding requested to support purchase and replacement of needed O&M and related equipment. Funds to contribute to Departments/Divisions responsible for bulk of pollution prevention and good housekeeping activities and costs. | \$0 |
| L. NPDES Capital Project Funds | | | | | | |
| L1. Known or planned stormwater project needs. | Assume that funds needed for known or planned drainage/flooding/water quality projects to cover costs associated with engineering design, permitting, PS&E, and construction. Assume that a formal funding request is made for known or planned CIPs during 2009/2011 biennium. Assume funds to be contributed to Department/Division responsible for the bulk of CIP costs. Staff have identified the need for a properly designed (including stormwater treatment) washout station at the Jongeward Complex. Total project cost estimated at \$250K. | typically included with major capital or facility projects on | None | Y Equip Washout Station \$250,000 | Additional funding requested to support planning, design, and construction of known or planned drainage/flooding CIPs. Funds to contribute to Department/Division responsible for bulk of CIP costs. | \$0 |
| L2. Fund to cover needs of projects discovered as SWM Program is implemented. | Assume that funds needed for projects that will inevitably be discovered during SWM Program implementation that must be addressed. Assume that a formal funding request made for unforeseen projects during 2009/2011 biennium. It is not possible to know the magnitude of these project costs; however, the estimate will be kept low and it will be assumed that: (1) some are financed over the long term and (2) large projects will require modification of the program budget in future bienniums. | None | None | Y | Additional funding requested to support discovered CIP needs. | \$0 |
| | | | | | SUM = | \$325,500 |
| | | | | | Equipment | \$0 |
| | | | | | Capital | \$0 |
| | | | | | Staff, Fees, Overhead, Services | \$325,500 |
| | | | | | | \$325,500 |

Appendix C—Annual Stormwater Program Implementation Checklist

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|-------------------------------------|---|--|--------------------------|
| NPDES | | | |
| A. General NPDES Requirements | | | |
| YEAR 1 | | | |
| A1. Prepare Notice of Intent (NOI). | CWU prepared and submitted NOI on October 11, 2007. | NOI prepared and submitted. | |
| A2. Pay Annual Permit Fee. | CWU - \$2,700 | Pay fee. | |
| YEAR 2 | | | |
| A2. Pay Annual Permit Fee. | CWU - \$2,700 | Pay fee. | |
| YEAR 3 | | | |
| A2. Pay Annual Permit Fee. | CWU - \$3,500 | Pay Fee. | |
| YEAR 4 | | | |
| A2. Pay Annual Permit Fee. | CWU - \$4,000 | Pay Fee. | |
| YEAR 5 | | | |
| A2. Pay Annual Permit Fee. | CWU - \$4,500 | Pay Fee. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1.A, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|---|---|--|--------------------------|
| NPDES | | | |
| B. Public Education and Outreach: Students, staff, etc. | | | |
| YEAR 1 | | | |
| | Note that minimum requirements do not begin until Year 3. | | |
| YEAR 2 | •••••••••••••••• | | |
| | Note that minimum requirements do not begin until Year 3. | | |
| YEAR 3 | | | |
| B1. Begin to develop and distribute educational information to students and staff on the impacts of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year | | Develop and distribute educational information to students and staff | |
| B2. Begin labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | | Label 50% of all storm drain inlets on university property. Maintain records of the location and number of inlets labeled annually. | |
| YEAR 4 | | | |
| B1. Continue to develop and distribute educational information to students and staff on the impacts of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year | Assume that educational information developed distributed in the form of stormwater brochures. Topics to be covered include: 1) how stormwater runoff affects local waterbodies; 2) proper use and application of pesticides and fertilizers; 3) benefits of using well-adapted vegetation; 4) alternative equip. washing practices that minimize pollutants in stormwater; 5) benefits of proper vehicle maintenance and alternative transportation choices, proper handling and disposal of wastes, including location of hazardous waste collection facilities; 6) hazards associated with illicit connections; and .7) benefits of litter control and proper disposal of pet waste. | Continue to develop and distribute educational information to students and staff. | |
| B2. Continue labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | Assume 50% of all storm drain inlets labeled by end of Year 3 and remainder no later than 180 days prior to expiration date of Permit (by Aug 2011). Must also re-label inlets that are no longer clearly visible or easily readable within 90 days. Assume that work to label inlets starts in Year 3 due to relatively few inlets on university property (approx. 235 storm drain inlets). | Label remaining 50% of storm drain inlets on university property. Maintain records of the location and number of inlets labeled annually. | |
| | | Review and update pubic education | |
| B1. Continue distributing educational information to students and staff on the impact of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year. | Assume that educational information developed distributed in the form of stormwater brochures. Topics to be covered included in Years 3 & 4. Assume some key staff time to review and update public education and outreach activities and/or strategy employed to date. | and outreach activities and/or strategy as needed. Continue to develop and distribute educational information to students and staff. | |
| B2. Continue labeling storm drain inlets owned and operated by CWU. Storm drain inlets located in maintenance yards, parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message "Dump No Waste" or similar saying and indicating the point of discharge as a stream, lake, or ground water. | Inlets must be re-labeled within 90 days if they are no longer clearly visible or easily readable. Assume some staff time during Year 5 to periodically inspect labeled inlets and re-label as necessary. Assume 5% of labeled inlets need to be re-labeled on an annual basis. | Periodically inspect labeled storm drain inlets and re-label as necessary. Maintain records of the location and number of inlets re- labeled annually. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1B, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|--|---|--|--------------------------|
| NPDES | | | |
| C. Public Involvement and Participation: Solicit public review of stormwater management program via public notification, website posting, etc. | | | |
| YEAR 1 | | | |
| | Note that minimum requirements do not begin until early in Year 5. | | |
| YEAR 2 | | | |
| | Note that minimum requirements do not begin until early in Year 5. | | |
| YEAR 3 | | | |
| | Note that minimum requirements do not begin until early in Year 5. | | |
| YEAR 4 | | | |
| | Note that minimum requirements do not begin until early in Year 5. | | |
| YEAR 5 | | | |
| C1. Publish a public notice in the local newspaper and solicit public review of the SWMP. | from the public. Due 180 days prior to expiration date of Permit (by Aug | Publish a public notice for distribution in local newspaper. Respond to public input received. | |
| C2. Make the latest updated version of the SWMP available to the public via the CWU website. | Assume costs for coordination and posting of updated SWMP on website. Due 180 days prior to expiration date of Permit (by Aug 2011). | Coordinate with appropriate CWU Dept to post SWMP on website. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1C, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List $$ |
|---|--|--|-------------------------|
| NPDES D. Illicit Discharge Detection and Elimination: Develop, implement, and enforce program to detect and eliminate polluted non-stormwater discharges into the MS4. | | | |
| YEAR 1 D1. From the date of permit coverage, comply with all relevant ordinances, rules, and egulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Utilize the Minimum Technical Requirements in Appendix 1 of the Permit as a basis for the development of the written policy (see E1 and F1 below) since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements, which is assumed to occur during Year 2. Costs shown here are for overall policy that addresses both IDDE and activities identified under E1 and F1. | | |
| 22. Develop and adopt appropriate policies prohibiting illicit discharges and illegal dumping; dentify possible enforcement mechanisms for use in the development of an Enforcement 'lan. | The policies shall address, at a minimum: illicit connections; non- stormwater discharges as defined in the Phase II Permit; and spilling, dumping, or otherwise improperly disposing of hazardous materials, pet waste, and litter. Policy must be developed and adopted by Board of Trustees by end of Year 1. Assume some time by staff to investigate and identify possible enforcement mechanisms by the end of Year 1; consider those currently employed by the University for other purposes. Enforcemen plan to be developed in Year 2 (by May 2009) and included as part of written IDDE Program Plan. | Create an internal policy for | |
| 05. Provide continued staff training or coordinate with existing training efforts to educate elevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Continue to provide staff training through annual refresher courses for those currently trained. Identify additional staff to be trained starting in Year 2. | |
| (EAR 2)1. Continue to comply with all relevant ordinances, rules, and regulations of the City of illensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements, which is assumed to occur during Year 2. Assume that development of enforcement plan will require staff time, internal coordination, possible consultant assistance, and legal review. | Continue to comply with all existing and relevant ordinances, rules, and regulations that pertain to stormwater. Track status of City's efforts to develop and adopt discrete stormwater-related ordinances. Update written policy, as necessary. Develop an enforcement plan | |
| 22. Develop an Enforcement Plan using the enforcement mechanisms identified during Year to ensure compliance with illicit discharge policies. Enforcement activities to begin in Year 2 03. Begin developing written IDDE Program Plan that addresses enforcement; staff training eeds; field assessments; on-campus complaint handling; discharge characterization nethods, hazard assessment, and spill response and containment; tracing methods; sampling ind analysis techniques; termination/removal methods; interface with local agencies; and rogram evaluation methods. | Enforcement plan to be developed and implement in Year 2 (by May 2009) and included as part of written IDDE Program Plan. Assume that once appropriate policies prohibiting illicit discharges and illegal dumping are approved, enforcement and other related activities are phased-in starting in Year 2. Assume that written guidance is needed for orderly implementation. Assume preparation involves various Departments and requires a fair amount of staff time to prepare plan. Funding estimate is | consistent with the selected enforcement mechanism(s). Develop IDDE Program Plan using guidance documents from Center for Watershed Protection, Ecology, or others as an aid. Enforcement Plan and existing Spill Response | |
| 04. Begin implementation of IDDE Program and enforcement mechanism. CWU staff to onduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls nat discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| 5. Provide continued staff training or coordinate with existing training efforts to educate elevant staff on proper BMPs for preventing spills and illicit discharges. 6. CWU to complete remaining mapping of storm sewer system (MS4), showing locations of I known storm drain outfalls, labeling receiving waters, and delineating the areas (catchmeni reas) contributing runoff to each outfall. Include field surveys to verify locations of outfalls an lentify previously unknown outfalls. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. Note that minimum requirements do not require mapping to be completed until Year 5. However, map of MS4 necessary for staff to conduct visual inspections for illicit discharges during Year 2 as part of field assessment work required under IDDE Program. Assume that CWU has completed approximately 2/3 of required MS4 mapping and some field survey work. t Assume that remaining mapping activities and additional field-related | Continue to provide staff training through annual refresher courses for those currently trained. Identify | |
| (FAR 3) (2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2 | phased-in starting in Year 2. Assume that written guidance is needed for | ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. Complete IDDE Program Plan using guidance documents. Enforcement Plan and existing Spill Response Plan to be included with IDDE Plan. Provide continued training for relevant staff. | |
| 04. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to onduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls hat discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| 95. Provide continued staff training or coordinate with existing training efforts to educate elevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff trained. | |
| 06. Update completed map of CWU MS4, including new and removed connections, updates o system characteristic data and information, location of previously unknown outfalls and connections, etc. | Assume that CWU has completed MS4 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by permit compliance staff. | Annually update MS4 mapping. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1D, Permit Years 1-5

| YEAR 4 | | | |
|--|--|---|--|
| | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | |
| D3. Review and update written IDDE Program Plan as needed. | Assume limited staff time to review, evaluate, and update written IDDE Program Plan. Assume training course for staff involved in IDDE Program is continued from Year 3 with costs covered under staff education (D4). | Review, evaluate, and update written IDDE Program Plan as needed. Includes review and update of Enforcement Plan and existing Spill Response Plan. Provide continued training for relevant staff. | |
| D4. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff trained. | |
| D6. Update completed map of CWU MS4, including new and removed connections, updates to system characteristic data and information, location of previously unknown outfalls and | Assume that CWU has completed MS4 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by | | |
| D7. Develop and implement a Spill Response Plan that includes coordination with a qualified spill responder. | permit compliance staff. Note that minimum requirements do not require that Spill Response Plan be completed until Year 5 (by Aug 2011). However, response plan necessary for staff to address spill response and containment, hazard assessment, coordination with qualified local spill responder, etc. Assume costs for incident response and related activities covered under implementation of IDDE Program (D3). Assume that existing Spill Prevention Control and Countermeasure (SPCC) Plan developed for CWU Main Campus addresses spill response and is included in IDDE Program Plan. However, existing plan likely need to be reviewed by permit compliance staff and updated in Year 4. | Annually update MS4 mapping. Review and update existing plan, including the collection of necessary information and coordination with qualified spill responder. Update IDDE Program Plan when completed. Incorporate into future staff training as appropriate. Distribute updated spill response plan with various CWU Depts., City, emergency response, fire department, and other involved parties. | |
| YEAR 5 | | | |
| D1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern non-stormwater discharges. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted (see E1 and F1) since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. | |
| D3. Review and update written IDDE Program Plan as needed. | Assume limited staff time to review, evaluate, and update written IDDE Program Plan. Assume training course for staff involved in IDDE Program is continued from Year 4 with costs covered under staff education (D4). | Review, evaluate, and update written IDDE Program Plan as needed. Includes review and update of Enforcement Plan and current Spill Response Plan. Provide continued training for relevant staff. | |
| D4. Continue implementation of IDDE Program and enforcement mechanism. CWU staff to conduct field inspections and visually inspect for illicit discharges at 1/3 of all known outfalls that discharge to surface waters. | Field assessments include visual inspection of outfalls during dry weather and documentation of observations and findings consistent with IDDE Program Plan. Assume that some screened outfalls appear suspicious and require follow-up work including the collection of samples, source tracing and removal activities, and possibly enforcement actions consistent with enforcement plan. | Conduct field assessments at 1/3 of all known outfalls and conduct necessary follow-up activities to ensure termination of illicit discharges identified. Keep records of inspections and follow-up activities. | |
| D5. Provide continued staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges. D6. Update completed map of CWU MS4, including new and removed connections, updates | Assume that existing trained staff continue to receive annual refresher courses. Training of additional staff must be conducted no later than 180 days prior to expiration date of Permit (by Aug 2011). However, assume that some training of additional staff begins in Year 2 in order to conduct activities related to IDDE Program, including illicit discharge detection, field assessments, tracing methods, spill response, enforcement activities, etc. Assume that CWU has completed MS4 mapping and field survey work by | Continue to provide staff training through annual refresher courses for those currently trained. Provide annual refresher for additional staff trained. Evaluate need for training update. | |
| to system characteristic data and information, location of previously unknown outfalls and connections, etc. | Assume that CWU has completed M54 mapping and field survey work by end of Year 2. Assume minimal work needed for annual updates to map by permit compliance staff. | Annually update MS4 mapping. | |
| D7. Review and update Spill Response Plan as needed. Continue to implement plan. | Note that minimum requirements do not require that Spill Response Plan be completed until Year 5 (by Aug 2011). However, response plan necessary for staff to address spill response and containment, hazard assessment, coordination with qualified local spill responder, etc. Assume costs for incident response and related activities covered under implementation of IDDE Program (D3). Assume some time for plan to be | Review revised plan and update as necessary. Include updated version in IDDE Program Plan and redistribute current version to various CWU Depts., City, emergency response, fire department, and other involved parties. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1D, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List √ |
|---|---|---|---------------------------|
| NPDES E. Construction Site Stormwater Runoff Control: Conduct activities and coordinate with local jurisdiction to reduce pollutants in runoff to the MS4 from construction sites one or more acres in size. | | | |
| YEAR 1 | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Utilize the Minimum Technical Requirements in Appendix 1 of the Permit as a basis for the development of the written policy since CWU will be required to follow | Create a written policy and formally adopt existing and relevant City | |
| E1. Comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern construction phase stormwater pollution prevention measures. | requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements (i.e., Construction and Post-Construction ordinances), which is assumed to occur during Year 2. Costs included under D1. Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- construction controls will be employed. Cost of seeking (submitting NOIs, | ordinances, rules, and regulations. Incorporate Minimum Technical Requirements included in Appendix 1 of the Permit into written policy. Write up internal procedures for FMD-level NPDES application. Need money and staff resources to create | |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit for Stormwater Discharges Associated with Construction Activities, or an alternative NPDES permit prior to discharging construction related stormwater. | public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the project contractor. Assume some form of written internal procedures necessary to ensure permit coverage obtained. | and maintain records of seeking and complying with construction stormwater permits for University projects. | |
| E3. Coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern construction-phase stormwater pollution prevention measures. E4. Provide training or coordinate with existing training efforts to educate relevant staff in | Assume that a formal agreement needs to be developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction related activities. Agreement to also address post-construction stormwater management for new development and redevelopment projects (see F2). Assume that a formal ongoing training program for relevant staff needs to be established and documented. Existing training opportunities provided through IET Construction Management (standard curriculum) may be adequate for permit compliance but needs to be reviewed and | Write up a MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-construction SW management. Develop training materials and provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP | |
| erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work. E5. Coordinate as requested with Ecology or the City of Ellensburg to provide access for inspection of construction sites or other land disturbances, which are under the control of | updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of | requirements, and other related requirements. Continue to provide access for inspection of construction sites as | |
| CWU during the active grading and/or construction period. YEAR 2 | construction phase stormwater pollution prevention measures. | requested. | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern construction phase stormwater pollution prevention measures. | Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements (i.e., Construction and Post-Construction ordinances), which is assumed to occur during Year 2. Cost to review and update included in D1. | Continue to comply with all existing and relevant ordinances, rules, and regulations that pertain to stormwater. Track status of City's efforts to develop and adopt discrete stormwater-related ordinances. Update written policy, as necessary. | |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit for Stormwater Discharges Associated with Construction Activities, or an alternative NPDES permit prior to discharging construction related stormwater. | Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- construction controls will be employed. Cost of seeking (submitting NOIs, public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the project contractor. Assume some form of written internal procedures necessary to ensure permit coverage obtained. | Update internal procedures written for FMD-level NPDES application. Need money and staff resources to create and maintain records of seeking and complying with construction stormwater permits for University projects. | |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern construction-phase stormwater pollution prevention measures. | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities, and to address post-construction stormwater management for new development and redevelopment projects (see F2), is annually reviewed and updated as necessary. Assume minimal estimate for some coordination efforts. | Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. Continue to coordinate. | |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work. | Assume that a formal ongoing training program for relevant staff is needed. Existing training opportunities provided through IET Construction Management may be adequate for permit compliance but needs to be reviewed and updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assume level of effort drops because most training materials and procedures have been established. | Continue to provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP requirements, and other related requirements. | |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide access for inspection of construction sites or other land disturbances, which are under the control of CWU during the active grading and/or construction period. | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | Continue to provide access for inspection of construction sites as requested. | |
| | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements | Continue to comply with all relevant | |
| E1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern construction phase stormwater pollution prevention measures. | (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and will begin to implement and enforce. Cost to review and update included in D1. Assume that NPDES Construction SW permits will be sought for University projects, as needed, and that appropriate construction and post- | ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. Update internal procedures written for FMD-level NPDES application. | |
| E2. For all construction projects under the control of CWU which require a construction stormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit for Stormwater Discharges Associated with Construction Activities, or an alternative NPDES permit prior to discharging construction related stormwater. | construction controls will be employed. Cost of seeking (submitting NOIs, public notification requirements, etc.) and compliance with the permit itself will be borne by the Department/Division executing the project and/or the project contractor. Assume some form of written internal procedures necessary to ensure permit coverage obtained. | Need money and staff resources to create and maintain records of seeking and complying with construction stormwater permits for University projects. | |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern construction-phase stormwater pollution prevention measures. | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities, and to address post-construction stormwater management for new development and redevelopment projects (see F2), is annually reviewed and updated as necessary. Assume minimal estimate for some coordination efforts. Assume that a formal on-going training program for relevant staff is | Review and update written MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-const SW management. Continue to coordinate. | |
| E4. Continue to provide training to educate relevant staff in erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work. | needed. Existing training opportunities provided through IET Construction Management may be adequate for permit compliance but needs to be reviewed and updated/enhanced if IET willing to provide staff training. May also consider coordination of training with the City of Ellensburg. Assume level of effort drops because most training materials and procedures have been established. | Continue to provide in-house training or send relevant staff to external training on proper ESC BMPs, SWPPP requirements, and other related requirements. | |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide access for inspection of construction sites or other land disturbances, which are under the control of CWU during the active grading and/or construction period. | Assumed that coordination for access is a necessary compliance activity associated with Construction SW permits and the City's Construction Stormwater Management ordinance which will include procedures for site plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | Continue to provide access for inspection of construction sites as requested. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1E, Permit Years 1-5

| /EAR 4 | | |
|---|--|--|
| | CWU to have something in writing and adopted by Board of Trustees. | |
| | Assume that written policy addresses relevant City ordinance, rules, and | |
| | regulations related to non-stormwater (illicit) discharges; construction- | |
| | phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical | |
| | Requirements in Appendix 1 of the Permit addressed in the written policy | |
| | adopted since CWU will be required to follow requirements (or equivalent). | Continue to comply with all relevant |
| | Assume that City has adopted discrete ordinances to comply with NPDES | ordinances, rules, and regulations |
| 1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | requirements and is fully implementing and enforcing. Cost to review and | that pertain to stormwater. Update |
| illensburg that govern construction phase stormwater pollution prevention measures. | update included in D1. | written policy, as necessary. |
| | Assume that NPDES Construction SW permits will be sought for University | Update internal procedures written |
| | projects, as needed, and that appropriate construction and post- | for FMD-level NPDES application. |
| | construction controls will be employed. Cost of seeking (submitting NOIs, | Need money and staff resources to |
| 2. For all construction projects under the control of CWU which require a construction | public notification requirements, etc.) and compliance with the permit itself | create and maintain records of |
| tormwater permit, CWU shall obtain coverage under the statewide NPDES General Permit | will be borne by the Department/Division executing the project and/or the | seeking and complying with |
| or Stormwater Discharges Associated with Construction Activities, or an alternative NPDES | project contractor. Assume some form of written internal procedures | construction stormwater permits for |
| ermit prior to discharging construction related stormwater. | necessary to ensure permit coverage obtained. | University projects. |
| | | Review and update written MOU or |
| | Assume that the formal agreement developed for notification and continued | similar agreement with the City, |
| | coordination between CWU and other entities (City, Ellensburg Water Co., | EWC, and WSDOT for formalized |
| E3. Continue to coordinate with the City of Ellensburg regarding projects owned and operated | WSDOT, others) for construction-related activities, and to address post- | documentation and notification of |
| y other entities which discharge into CWU's MS4, to assist the City of Ellensburg with | construction stormwater management for new development and | construction-related activities and |
| chieving compliance with all relevant ordinances, rules, and regulations that govern | redevelopment projects (see F2), is annually reviewed and updated as | post-const SW management. |
| onstruction-phase stormwater pollution prevention measures. | necessary. Assume minimal estimate for some coordination efforts. | Continue to coordinate. |
| | Assume that a formal on-going training program for relevant staff is | |
| | needed. Existing training opportunities provided through IET Construction | |
| | Management may be adequate for permit compliance but needs to be | Continue to provide in-house |
| | reviewed and updated/enhanced if IET willing to provide staff training. May | training or send relevant staff to |
| | also consider coordination of training with the City of Ellensburg. Assume | external training on proper ESC |
| 4. Continue to provide training to educate relevant staff in erosion and sediment control | level of effort drops because most training materials and procedures have | BMPs, SWPPP requirements, and |
| MPs and requirements, or hire trained contractors to perform the work. | been established. | other related requirements. |
| | | |
| | Assumed that coordination for access is a necessary compliance activity | |
| | associated with Construction SW permits and the City's Construction | |
| E5. Continue to coordinate as requested with Ecology or the City of Ellensburg to provide | Stormwater Management ordinance which will include procedures for site | Continue to provide access for |
| | | |
| ccess for inspection of construction sites or other land disturbances, which are under the | plan review, review of SWPPPs, site inspection, and enforcement of | inspection of construction sites as |
| access for inspection of construction sites or other land disturbances, which are under the control of CWU during the active grading and/or construction period. | | |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical | inspection of construction sites as |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | inspection of construction sites as requested. |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | inspection of construction sites as requested. |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. /EAR 5 | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | Inspection of construction sites as requested. |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. (EAR 5) | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. | Inspection of construction sites as requested. |
| ccess for inspection of construction sites or other land disturbances, which are under the ontrol of CWU during the active grading and/or construction period. /EAR 5 | plan review, review of SWPPPs, site inspection, and enforcement of construction phase stormwater pollution prevention measures. CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. Cost to review and update included in D1. | Continue to comply with all relevant ordinances, rules, and regulations that pertain to stormwater. Update written policy, as necessary. |
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CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1E, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List √ |
|--|--|---|---------------------------|
| NPDES - Post Construction Stormwater Management: Coordinate with local urisdiction to address post construction stormwater runoff to the MS4 rom sites one or more acres in size. (EAR 1 | | | |
| F1. Comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction phase stormwater pollution prevention measures. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Utilize the Minimum Technical Requirements in Appendix 1 of the Permit as a basis for the development of the written policy since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements (i.e., Construction and Post-Construction ordinances), which is assumed to occur during Year 2. Costs included under D1. | Create a written policy and formally adopt existing and relevant City ordinances, rules, and regulations. Incorporate Minimum Technical Requirements included in Appendix 1 of the Permit into written policy. | |
| E2. Coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern post-construction stormwater pollution prevention measures. | Assume that a formal agreement needs to be developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction related activities (see E3). Agreement to also address post-construction stormwater management for new development and redevelopment projects. Costs to develop agreement included in E3. | Write up a MOU or similar agreement with the City, EWC, and WSDOT for formalized documentation and notification of construction-related activities and post-construction SW management. | |
| YEAR 2 F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction phase stormwater pollution prevention measures. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses existing and relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction-phase SW pollution prevention measures; and post- construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent) when the City develops and adopts discrete ordinances to comply with NPDES requirements (i.e., Construction and Post-Construction ordinances), which is assumed to occur during Year 2. Cost to review and update include in D1. | Continue to comply with all existing and relevant ordinances, rules, and regulations that pertain to stormwater. Track status of City's efforts to develop and adopt discrete stormwater-related ordinances. Update written policy, as necessary. | |
| F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern post- construction stormwater pollution prevention measures. | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities (see E3), and to address post-construction stormwater management for new development and redevelopment projects, is annually reviewed and updated as necessary. Cost to review and update included in E3. Assume minimal estimate for some coordination efforts. | similar agreement with the City, | |
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| E2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern post- construction stormwater pollution prevention measures. | Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities (see E3), and to address | Review and update written MOU or similar agreement with the City, | |
| YEAR 4 F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of Ellensburg that govern post-construction phase stormwater pollution prevention measures. F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with achieving compliance with all relevant ordinances, rules, and regulations that govern post- construction stormwater pollution prevention measures. | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES requirements and is fully implementing and enforcing. Cost to review and update included in D1. Assume that the formal agreement developed for notification and continued coordination between CWU and other entities (City, Ellensburg Water Co., WSDOT, others) for construction-related activities (see E3), and to address post-construction stormwater management for new development and redevelopment projects, is annually reviewed and updated as necessary. Cost to review and update included in E3. Assume minimal estimate for some coordination efforts. | similar agreement with the City, | |
| YEAR 5 | CWU to have something in writing and adopted by Board of Trustees. Assume that written policy addresses relevant City ordinance, rules, and regulations related to non-stormwater (illicit) discharges; construction- phase SW pollution prevention measures; and post-construction SW pollution prevention measures. Assume that Minimum Technical Requirements in Appendix 1 of the Permit addressed in the written policy adopted since CWU will be required to follow requirements (or equivalent). Assume that City has adopted discrete ordinances to comply with NPDES | Continue to comply with all relevant ordinances, rules, and regulations | |

| | Assume that City has adopted discrete ordinances to comply with NPDES | ordinances, rules, and regulations | |
|--|---|-------------------------------------|--|
| F1. Continue to comply with all relevant ordinances, rules, and regulations of the City of | requirements and is fully implementing and enforcing. Cost to review and | that pertain to stormwater. Update | |
| Ellensburg that govern post-construction phase stormwater pollution prevention measures. | update included in D1. | written policy, as necessary. | |
| | Assume that the formal agreement developed for notification and continued | Review and update written MOU or | |
| | coordination between CWU and other entities (City, Ellensburg Water Co., | similar agreement with the City, | |
| | WSDOT, others) for construction-related activities (see E3), and to address | EWC, and WSDOT for formalized | |
| F2. Continue to coordinate with the City of Ellensburg regarding projects owned and operated | post-construction stormwater management for new development and | documentation and notification of | |
| by other entities which discharge into CWU's MS4, to assist the City of Ellensburg with | redevelopment projects, is annually reviewed and updated as necessary. | construction-related activities and | |
| achieving compliance with all relevant ordinances, rules, and regulations that govern post- | Cost to review and update included in E3. Assume minimal estimate for | post-const SW management. | |
| construction stormwater pollution prevention measures. | some coordination efforts. | Continue to coordinate. | |

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List $$ |
|---|---|---|-------------------------|
| G. Pollution Prevention and Good Housekeeping for University Operations: Develop and implement an ongoing O&M program, including a staff training program, aimed at preventing or reducing pollutant runoff from University operations. | | | |
| YEAR 1 G3. CWU to continue performing existing storm system maintenance activities. Includes, where applicable, ongoing inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facility (BMP) maintenance, and proper disposal of waste. | Costs for existing storm system maintenance activities will continue to be funded. Costs for phasing-in full stormwater system maintenance, enhanced/changed practices, and oversight by stormwater compliance staf who review and record practices and provide technical assistance will be included in Years 3-5. Costs for existing street sweeping program will continue to be funded. | system inspection and maintenance activities. CWU to continue existing parking lot | |
| G7. CWU to continue existing street sweeping program and other all season BMPs to reduce pollution into the MS4. | Costs for phasing-in enhanced/changed practices, improved materials, and for stormwater compliance staff to review and record practices and provide technical assistance will be included in Years 3-5. | | |
| G11. From the date of permit coverage, have reviewed all University "industrial" facilities/sites and sought coverage under the statewide NPDES General Permit for Stormwater Discharges Associated with Industrial Activities for facilities/sites meeting criteria for coverage. | University facilities/sites for possible coverage and is conducted in Year 1. Cost will be for permit compliance staff to review criteria and facilities, and to recommend facilities seek coverage if meet criteria. Records of the process must be developed. Cost of seeking and compliance with permits | and to create and maintain records of assessment process, and if necessary, seeking and complying with industrial stormwater permits for University facilities/sites. | |
| YEAR 2 G1. Begin developing a schedule of municipal operation and maintenance activities (O&M Plan) to minimize stormwater pollution from activities conducted by the University. The O&M Plan must include appropriate pollution prevention and good housekeeping procedures for the following operations, activities, and/or types of facilities present within the University's boundaries: stormwater collection and conveyance system O&M road, highway, and parking lot O&M vehicle fleet storage, washing, and maintenance; building cleaning, washing, painting and other O&M activities; park and open space O&M activities; material and equipment storage areas and maintenance areas; and all other facilities that can reasonably be expected to discharge contaminated runoff. Maintenance standards must be established that are as protective or more protective of facility function than those specified in relevant chapters of the E. WA SW Manual. The O&M Plan must include a schedule of inspections and include requirements for proper doc. and record keeping. Must be developed & implemented no later than 3 years from date of coverage (Nov 2010). | Assume that it takes two years to fully develop the O&M Plan and that appropriate staff from various Departments/Divisions are involved. Costs for existing storm system maintenance activities will continue to be funded. Costs for phasing-in full stormwater system maintenance, enhanced/changed practices, and oversight by stormwater compliance staf | Begin developing an O&M Plan that includes appropriate pollution prevention and good housekeeping procedures for various University operations, activities, and/or facilities aimed at preventing and reducing water quality impacts. Must include schedule for inspections and activities and address methods of proper documentation and record keeping. | |
| G7. CWU to continue existing street sweeping program and other all season BMPs to reduce pollution into the MS4. | Costs for existing street sweeping program will continue to be funded. Costs for phasing-in enhanced/changed practices, improved materials, and for stormwater compliance staff to review and record practices and provide | CWU to continue existing parking lot | |
| G1. Complete development and begin implementation of O&M Plan started in Year 2. G2. Begin developing a pollution prevention and good housekeeping staff training program | Cost presented here assume that leadership, technical support, advice, and record keeping is provided by stormwater compliance staff who work to complete the O&M Plan. Assume that some costs to carry out the new procedures is borne by the Department/Division responsible for a given | Complete development of O&M Plan that includes appropriate pollution prevention and good housekeeping procedures for various University operations, activities and/or facilities, including schedule for inspections and activities and methods for proper documentation and record keeping. Begin implementation of the plan working with affected Depts/Divisions. | |
| (materials, schedules, who gets what training, etc.) to meet the needs of the O&M Plan completed in G1. Training must include all employees whose construction, operations, and maintenance job functions may impact storm water quality. Training shall address the importance of protecting water quality, the requirements of the NPDES permit, proper O&M requirements, inspection procedures, ways to perform their job while protecting water quality, procedures for reporting water quality concerns and suspected illicit discharges. | Assume that it takes at least one year to develop the good housekeeping training program and that appropriate staff from the various Departments/Divisions are involved (this is a large effort and could easily take longer). Assume program development is lead by stormwater compliance staff and is a direct stormwater program cost. | Develop good housekeeping training materials and program, involve various affected Departments/Divisions and associated staff. | |
| G3. Begin implementing storm system maintenance activities in accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. | available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. Assume that locating and mapping these systems begins in the year that | maintenance program with stormwater compliance staff to provide oversight and technical assistance during implementation of new/changed practices, assure | |
| G4. Locate and map all stormwater treatment and flow control facilities owned or operated by the University. Inspect each facility, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment occurs. | Stormwater compliance staff will oversee work, provide training and data | Verify location and map all stormwater treatment and flow control facilities owned or operated by the University. Inspect stormwater treatment and flow control facilities. Identify repair or maintenance needs, resolve concerns, and maintain records. | |
| G5. Begin conducting spot checks of stormwater treatment and flow control facilities after major rainfall events (greater than a 10-year, 24-hour recurrence interval). | Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide technical assistance, and ensure that records are kept. Could involve anything from light maintenance to major reconstruction. | repair or maintenance needs, resolve concerns, and maintain records. | |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based or observations made during regular inspections or spot checks of University owned and operated stormwater treatment and flow control facilities. | Departments/Divisions). Cost here is for stormwater compliance staff to provide technical support and approval of needed repairs, ensure that | Fix or repair observed problems at University owned and operated stormwater treatment and flow control facilities after major storm events. Keep records of repairs and costs. | |
| G7. Begin implementing enhanced pollution prevention and good housekeeping practices established in the O&M plan for roads, highways, and parking lots. Need to address deicing, anti-icing, and snow removal practices; snow disposal areas; material (e.g., salt, sand, or other chemical) storage areas; all-season BMPs to reduce road and parking lot debris and other pollutants from entering the MS4. | Assume that it takes 2 years to fully phase-in activities. Assume that street sweeping continues to be one of the preferred all season BMPs employed by CWU with additional water quality-oriented weather report-based sweeping in some areas on a seasonal basis. Assume that snow removal and ice control activities continue at current level of effort and that waste and snow disposal areas are available. Costs here are for stormwater compliance staff to review and record practices and provide technical | Estimated costs for enhanced practices with stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Departments/Divisions. | |
| G8. Begin conducting all vehicle and equipment washing and maintenance in a self-contained building or in designated wash and/or maintenance areas. | Assume that physical facilities are readily available for washing and maintenance work. Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Some costs | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1G, Permit Years 1-5

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| G9. Begin implementing pollution prevention and good housekeeping practices established in the O&M Plan for external building maintenance activities at all University-owned buildings. The O&M Plan shall address building exterior cleaning and maintenance, including cleaning, washing, painting, and other maintenance activities. G10. Begin implementing pollution prevention and good housekeeping practices established in the O&M Plan at all University-owned parks and open spaces. The O&M Plan shall address | Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Cost of changed practices is borne by the Department/Division conducting the work. | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. | |
| proper application of fertilizer, pesticides, and herbicides; sediment and erosion control; BMPs for landscape maintenance and vegetation disposal; and trash management. G12. Begin developing Stormwater Pollution Prevention Plans (SWPPPs) to protect water quality at material storage areas, heavy equipment storage areas, and maintenance areas not covered by a statewide NPDES Industrial Stormwater General Permit. | borne by the Department/Division conducting the work. Assume that it takes at least one year to identify/screen all known facilities, | Work closely with responsible Department/Division. Develop SWPPPs to protect water quality at material storage areas, heavy equipment storage areas, and maintenance areas not covered by a statewide NPDES Industrial SW General Permit. | |
| G13. Begin implementing proper pollution prevention practices (source control and good housekeeping BMPs) for other University facilities and/or activities that would reasonably be expected to discharge contaminated runoff. | Assume that it takes at least one year to identify all other University facilities, evaluate practices, identify appropriate BMPs to be implemented to protect water quality, and provide necessary training. Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Cost of changed practices is borne by the Department/Division conducting the work. | Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| YEAR 4 | Assume that it takes 2 years to develop the O&M Plan and that appropriate | | |
| G2. Finish developing and execute a good housekeeping training program for the various staf groups. | staff from various Departments/Divisions are involved. Assume training is provided to approximately 4 groups, including Plant O&M, Facilities Planning/Construction, Facilities Services/Administration, and Custodial/Grounds/Motor Pool. This is assumed to be a large effort, including a formal day of training in-house and a full day in the field. Assume training is lead by stormwater compliance staff and is a direct | Conduct good housekeeping training program for various affected Departments/Divisions and associated staff. | |
| G3. Continue phasing-in and implementing enhanced storm system maintenance activities in accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facilities (BMP) maintenance, and proper waste disposal. | Assume that it takes 2 years to fully phase-in enhanced activities. Assume that facilities exist for proper waste disposal (construction of a "vactor" waste dewatering/decant facility may be required - consider regional facility shared with City). Assume that most necessary heavy equipment is available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. | maintenance program with stormwater compliance staff to provide oversight and technical assistance during implementation of new/changed practices, assure | |
| G4. Continue to inspect stormwater treatment and flow control facilities owned or operated by the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment occurs. | University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re-inspected by end of Year 5. | Inspect SW treatment and flow control facilities. Identify repair or maintenance needs, resolve concerns, and maintain records. | |
| G5. Continue to conduct spot checks at stormwater treatment and flow control facilities after major rainfall events (greater than a 10-year, 24-hour recurrence interval). | | Conduct spot checks of stormwater treatment and flow control facilities after major rainfall events. Identify repair or maintenance needs, resolve concerns, and maintain records. | |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based or observations made during regular inspections or spot checks of University owned and operated stormwater treatment and flow control facilities. | Could involve anything from light maintenance to major reconstruction. Cost estimate here will generally assume that few major construction or reconstruction projects are needed (or will help be paid for by multiple Departments/Divisions). Cost here is for stormwater compliance staff to provide technical support and approval of needed repairs, ensure that records are kept, and provide some funding for the project (overlap with NPDES CIP Fund). | Fix or repair observed problems at University owned and operated stormwater treatment and flow control facilities after major storm events. Keep records of repairs and costs. | |
| G7. Continue phasing-in and implementing enhanced pollution prevention and good housekeeping practices established in the O&M plan for roads, highways, parking lots. Need to address deicing, anti-icing, and snow removal practices; snow disposal areas; material (e.g., salt, sand, or other chemical) storage areas; all-season BMPs to reduce road and parking lot debris and other pollutants from entering the MS4. | Assume that it takes 2 years to fully phase-in activities. Assume that street sweeping continues to be one of the preferred all season BMPs employed by CWU with additional water quality-oriented weather report-based sweeping in some areas on a seasonal basis. Assume that snow removal and ice control activities continue at current level of effort and that waste and snow disposal areas are available. Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. | Estimated costs for enhanced practices with stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Departments/Divisions. | |
| G8. Continue to conduct all vehicle and equipment washing and maintenance in a self- contained building or in designated wash and/or maintenance areas. | Assume that physical facilities are readily available for washing and maintenance work. Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Some costs for changed practices may have to be borne by the Department/Division conducting the work. | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G9. Continue phasing-in and implementing pollution prevention and good housekeeping practices established in the O&M Plan for external building maintenance activities at all University-owned buildings. | Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Cost of changed practices is borne by the Department/Division conducting the work. | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G10. Continue phasing-in and implementing pollution prevention and good housekeeping practices established in the O&M Plan at all University-owned parks and open spaces. | Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Cost of changed practices is borne by the Department/Division conducting the work. Assume cost estimate only involves NPDES permit compliance official leading development of the SWPPP and training materials, and conducting | Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G12. Finish developing and begin implementing Stormwater Pollution Prevention Plans (SWPPPs) to protect water quality at material storage areas, heavy equipment storage areas, and maintenance areas not covered by a statewide NPDES Industrial Stormwater General Permit. Develop training materials and execute training as needed. | training not the cost of implementing the SWPPP on site, which will be borne by the Department/Division operating the site/facility. Assume that level of effort drops in Years 4-5 because training materials, training program, and procedures have already been established. | quality at material storage areas, heavy equipment storage areas, and maintenance areas; conduct training; and implement SWPPPs. | |
| G13. Continue phasing-in and implementing proper pollution prevention practices (source control and good housekeeping BMPs) for other University facilities and/or activities that would reasonably be expected to discharge contaminated runoff. | Costs here are for stormwater compliance staff to review and record practices and provide technical assistance. Cost of changed practices is borne by the Department/Division conducting the work. | Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |

| YEAR 5 | | | |
|---|--|--|--|
| G2. Update good housekeeping training of staff groups as needed. | Assume training is provided to approximately 4 groups, including Plant O&M, Facilities Planning/Construction, Facilities Services/Administration, and Custodial/Grounds/Motor Pool. This is assumed to be a large effort, including a formal day of training in-house and a full day in the field. Assume training is lead by stormwater compliance staff and is a direct stormwater program cost. Costs to send staff to training is borne by Department/Division that staff represent. | Evaluate need for training update. Update and repeat good housekeeping training program for various affected Departments/Divisions and associated staff. | |
| G3. Fully implement enhanced storm system maintenance activities in accordance with appropriate schedules outlined in the O&M Plan. Includes inspection of system components, catch basin and culvert cleaning, open channel cleaning and trash removal, structural BMP inspection, runoff treatment and flow control facility (BMP) maintenance, and proper waste disposal. | Assume that it takes 2 years to fully phase-in enhanced activities. Assume that facilities exist for proper waste disposal (construction of a "vactor" waste dewatering/decant facility may be required - consider regional facility shared with City). Assume that most necessary heavy equipment is available, however some specialized equipment may need to be purchased or rented as needed. Costs here are for phasing-in full stormwater system maintenance and oversight by stormwater compliance staff who review and record practices and provide technical assistance. | maintenance program with stormwater compliance staff to provide oversight and technical assistance during implementation of new/changed practices, assure | |
| G4. Continue to inspect stormwater treatment and flow control facilities owned or operated by the University, making notes of conditions, maintenance needs, or other related concerns. Track all new systems coming into University ownership as development/redevelopment occurs. | University owned and operated stormwater treatment and control facilities must be regularly inspected and maintained. Assume facilities inspected on a 2-year cycle. Assume that inspection is performed by properly trained maintenance staff using standardized field data collection forms. Stormwater compliance staff will oversee work, provide training and data forms, provide technical assistance, and ensure that records are kept. Costs to rectify problems will be covered by other stormwater budget categories. Assume that costs split in Years 4-5 since all facilities re-inspected by end of Year 5. | | |
| G5. Continue to conduct spot checks at stormwater treatment and flow control facilities after major rainfall events (greater than a 10-year, 24-hour recurrence interval). | using standardized field data collection forms. Stormwater compliance staff will oversee work, provide technical assistance, and ensure that records are kept. | Conduct spot checks of stormwater treatment and flow control facilities after major rainfall events. Identify repair or maintenance needs, resolve concerns, and maintain records. | |
| G6. As soon as practicable, execute any repair and/or maintenance projects needed based or observations made during regular inspections or spot checks of University owned and operated stormwater treatment and flow control facilities. | Could involve anything from light maintenance to major reconstruction. Cost estimate here will generally assume that few major construction or reconstruction projects are needed (or will help be paid for by multiple Departments/Divisions). Cost here is for stormwater compliance staff to provide technical support and approval of needed repairs, ensure that records are kept, and provide some funding for the project (overlap with NPDES CIP Fund). | Fix or repair observed problems at University owned and operated stormwater treatment and flow control facilities after major storm events. Keep records of repairs and costs. | |
| G7. Fully implement enhanced pollution prevention and good housekeeping practices established in the O&M plan for roads, highways, parking lots. Need to address deicing, anti- icing, and snow removal practices; snow disposal areas; material (e.g., salt, sand, or other chemical) storage areas; all-season BMPs to reduce road and parking lot debris and other pollutants from entering the MS4. | sweeping continues to be one of the preferred all season BMPs employed by CWU with additional water quality-oriented weather report-based sweeping in some areas on a seasonal basis. Assume that snow removal and ice control activities continue at current level of effort and that waste and snow disposal areas are available. Costs here are for improved | Estimated costs for enhanced practices with stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Departments/Divisions. | |
| G8. Fully implement all vehicle and equipment washing and maintenance in in a self- contained building or in designated wash and/or maintenance areas. | Assume that physical facilities are readily available for washing and maintenance work. Costs here are for stormwater compliance staff to | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G9. Fully implement pollution prevention and good housekeeping practices established in the O&M Plan for external building maintenance activities at all University-owned buildings. | | Stormwater compliance staff to provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G10. Fully implement pollution prevention and good housekeeping practices established in the O&M Plan at all University-owned parks and open spaces. | borne by the Department/Division conducting the work. | Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |
| G12. Fully implement Stormwater Pollution Prevention Plans (SWPPPs) to protect water quality at material storage areas, heavy equipment storage areas, and maintenance areas not covered by a statewide NPDES Industrial Stormwater General Permit. Update training materials and execute training as needed. | Assume cost estimate only involves NPDES permit compliance official leading development of the SWPPP and training materials, and conducting training, not the cost of implementing the SWPPP on site, which will be borne by the Department/Division operating the site/facility. Assume that level of effort drops in years 4-5 because training materials, training program, and procedures have already been established. | Implement SWPPPs to protect water quality at material storage areas, heavy equipment storage areas, and maintenance areas; conduct training; and continue to implement SWPPPs. | |
| G13. Fully implement proper pollution prevention practices (source control and good housekeeping BMPs) for other University facilities and/or activities that would reasonably be expected to discharge contaminated runoff. | | Stormwater compliance staff provide oversight and technical assistance during implementation of changed practices, assure records are kept. Work closely with responsible Department/Division. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1G, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|---|---|---|--------------------------|
| NPDES | | | |
| H. Compliance with Total Maximum Daily Load Allocations: WRIA 39 - | | | |
| Wilson Creek Sub-Basin, Upper Yakima River | | | |
| YEAR 1 | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | Participation in TMDL development may be desirable. Upper Yakima River Temperature TMDL ongoing. | |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of annual report to Ecology. | Track status of TMDL implementation and keep records. | |
| YEAR 2 | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | Participation in TMDL development may be desirable. Upper Yakima River Temperature TMDL ongoing. | |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of Annual Report to Ecology. | Track status of TMDL implementation and keep records. | |
| YEAR 3 | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | Participation in TMDL development may be desirable. | |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of Annual Report to Ecology. | Track status of TMDL implementation and keep records. | |
| YEAR 4 | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | Participation in TMDL development may be desirable. | |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of Annual Report to Ecology. | Track status of TMDL implementation and keep records. | |
| YEAR 5 | | | |
| H1. Participate in the development of TMDLs. | Assume this is required to know and control liability. Assume that this involves staff time to review materials, attend meetings, prepare and submit correspondence. | Participation in TMDL development may be desirable. | |
| H2. Comply with applicable TMDL provisions (could involve education and outreach activities coordinated with local agencies, enhanced source control efforts, retrofitting treatment into existing storm drains, outfall monitoring, etc.). | Compliance with the Permit is the only requirement CWU presently needs to fulfill to be in compliance with applicable TMDLs. However, assume minimal estimate to allow for minor compliance activities. | None presently; however, may be desirable to coordinate with City's TMDL implementation activities. | |
| H3. Track status of TMDL implementation progress. Track and record stormwater efforts aimed at addressing TMDLs on local receiving waters. | Assume record keeping and tracking status of TMDL implementation minimal. Status of TMDL implementation included as part of annual report to Ecology. | Track status of TMDL implementation and keep records. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1H, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|---|--|--|--------------------------|
| NPDES | | | |
| I. Monitoring and Program Evaluation Requirements | | | |
| YEAR 1 | | | |
| I1. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studie conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | | Participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | |
| YEAR 2 | | | |
| 11. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studie conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | |
| YEAR 3 | | | |
| I1. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studie conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | |
| YEAR 4 | | | |
| I1. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studie conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | |
| YEAR 5 | | | |
| I1. Recommend that CWU participate in local water-quality monitoring program(s) aimed at assessing baseline conditions and/or to evaluate effectiveness of City/CWU stormwater management programs or TMDL implementation activities. Includes monitoring of outfall quality to receiving waters. Provide a description of any stormwater monitoring or other studie conducted by, on behalf of, or reported to CWU during the reporting period and include in the annual report to Ecology. | Recommended activity for CWU to consider. Specific water quality sampling and testing not required during the effective term of the Permit, unless required as part of applicable TMDL or required for characterizing illicit discharges. Assume some participation by CWU with City and/or local agencies (KCCD, KRD, others) conducting routine or special water/stormwater quality monitoring studies. | Continue to participate in local water/stormwater quality monitoring studies. Submit description of studies with annual report. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 11, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|--|---|---|--------------------------|
| NPDES J. Reporting and Record Keeping Requirements | | | |
| YEAR 1 J1. Develop written Stormwater Management Program (SWMP) for submittal with annual report, follow program component format established by Ecology. | Must submit a copy of SWMP to Ecology with the annual report no later than March 31, 2008. Assume that development of the SWMP begins during Permit Year 1. | Prepare SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). Itemize the types of recordkeeping | |
| J2. Recommend that CWU develop and implement an ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in the Permit. | enhancements to existing processes; (4) creating or modifying record | needed for permit; meet with various Department/Divisions; assess need for new or changed processes; create record keeping | |
| YEAR 2 J1. Update written Stormwater Management Program (SWMP) for submittal with annual report. | Assume this update occurs in the 4th quarter 2008 with the updated plan submitted with annual report by March 31, 2009 of the following year. | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). | |
| J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. | Assume that this involves reviewing and modifying the process developed as needed. | Complete development of and enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water quality. | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume this analysis is presented/discussed in a narrative portion of the annual report. | Develop evaluation approach, | |
| J4. Prepare and submit Year 1 annual report and SWMP to Ecology. Use annual report form established by Ecology. The annual report must describe the status of compliance with Permi conditions, including: (1) the status of implementation of each component of the SWMP; (2) an assessment of progress towards meeting the minimum performance standards (measurable goals) established for each minimum control measure of the SWMP; and (3) summary of SWMP evaluation (including eval of effectiveness of SWMP and appropriateness of BMPs selected); (4) notice if relying upon another entity (City) for implementation of any BMPs or other permit obligations; (5) any updated/new information since the last reporting period, and (6) notification of any jurisdictional boundary changes that increase/decrease Permit coverage area and SWMP implications. | | Prepare and submit annual report. | |
| YEAR 3 J1. Update written Stormwater Management Program (SWMP) for submittal with annual report. J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water | Assume that this involves reviewing and modifying the process developed as needed. Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, site plan review and inspection program goals, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). Enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. Review/update evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | |
| quality. J4. Prepare and submit Year 2 annual report and updated SWMP to Ecology. Update prior year annual report and address same considerations as described under Permit Year 2. | portion of the annual report. Reports are due no later than March 31 each year. Assume that in later years it takes a fairly senior staff person working one-third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will grow in later years as required SWMP activities implemented increase. | Prepare and submit annual report. | |
| YEAR 4 J1. Update written Stormwater Management Program (SWMP) for submittal with annual | Assume this update occurs in the 4th quarter 2010 with the updated plan | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by | |
| report. J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. | submitted with annual report by March 31, 2011 of the following year. Assume that this involves reviewing and modifying the process developed as needed. | designated individual(s). Enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water quality. | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, site plan review and inspection program goals, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative portion of the annual report. | Review/update evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | |
| J4. Prepare and submit Year 3 annual report and updated SWMP to Ecology. Update prior | Reports are due no later than March 31 each year. Assume that in later years it takes a fairly senior staff person working one-third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will | | |
| year annual report and address same considerations as described under Permit Year 2. YEAR 5 | grow in later years as required SWMP activities implemented increase. | Prepare and submit annual report. | |
| J1. Update written Stormwater Management Program (SWMP) for submittal with annual report. J2. Continue ongoing process for gathering, recording, maintaining, and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate permit compliance/noncompliance, and evaluate the effectiveness of SWMP implementation (develop measurable goals). Information collected to be used for the preparation of annual reports consistent with reporting requirements outlined in Permit. | Assume this update occurs in the 4th quarter 2011 with the updated plan submitted with annual report by March 31, 2012 of the following year. Assume that this involves reviewing and modifying the process developed as needed. | Update SWMP according to Ecology format. Assume effort by multiple staff and review/approval by designated individual(s). Enact record keeping forms/protocols; work with directors/managers/staff to implement. Fair effort by staff at multiple levels. | |
| J3. Use information from J2 to evaluate the effectiveness of the SWMP components implemented to date, including whether the SWMP is preventing adverse impacts to water quality. | Assume this is a relatively simple process that considers the activities detailed for each SWMP component and cross-check them against records (e.g., reaching target audiences, site plan review and inspection program goals, storm system maintenance inspection goals, and other measurable goals established). Also cross-check activities against established literature, studies, and accepted BMP manuals to assess impact to water quality. Assume that this analysis is presented/discussed in a narrative portion of the annual report. | Review/update evaluation approach, conduct evaluation, prepare narrative of process and results for inclusion in annual report to Ecology. | |
| J4. Prepare and submit Year 4 annual report and updated SWMP to Ecology. Update prior | years it takes a fairly senior staff person working one-third time from January 1 to March 31 to prepare the report - including gathering all of the records, meeting with department/division/staff responsible for various components, tracking down/reviewing all necessary records, preparing summaries and maps, etc. Effort may be less in first couple years but will | | |
| year annual report and address same considerations as described under Permit Year 2. CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1], Permit Years 1-5 | grow in later years as required SWMP activities implemented increase. | Prepare and submit annual report. | Page 14 of 16 |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1J, Permit Years 1-5

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| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|---|---|--|--------------------------|
| NPDES | | | |
| K. NPDES Equipment Funds | | | |
| YEAR 1 | | | |
| YEAR 2 | NPDES equipment funds to be requested for 09/11 biennium. | | |
| | NPDES equipment funds to be requested for 09/11 biennium. | | |
| YEAR 3 | | | |
| | NPDES equipment funds to be requested for 09/11 biennium. | | |
| YEAR 4 | | | |
| K1. Illicit Discharge Detection and Elimination Equipment Fund. | | Request additional funding to support purchase and replacement | |
| K2. Good Housekeeping Equipment Fund. | Assume that funds needed to allow for the purchase and R&R of O&M related equipment needed to execute pollution prevention and good housekeeping activities. Assume that formal funding request made for necessary equipment during 2009/2011 biennium. Assume that purchasing and R&R of most major equipment will be shared between various | Request additional funding to support purchase and replacement of needed O&M and related equipment. Funds to contribute to Departments/Divisions responsible for bulk of pollution prevention and good housekeeping activities and costs. | |
| YEAR 5 | Departments/Divisions sharing use of benefit of the equipment. | 00010. | |
| K1. Illicit Discharge Detection and Elimination Equipment Fund. | Typical equipment needed includes vehicle rental, field testing equipment, flow monitoring equipment, field computer, digital camera, survey and GPS | Additional funding requested to support purchase and replacement | |
| K2. Good Housekeeping Equipment Fund. | Assume that funds needed to allow for the purchase and R&R of O&M related equipment needed to execute pollution prevention and good housekeeping activities. Assume that formal funding request made for necessary equipment during 2009/2011 biennium. Assume that purchasing and R&R of most major equipment will be shared between various | Additional funding requested to support purchase and replacement of needed O&M and related equipment. Funds to contribute to Departments/Divisions responsible for bulk of pollution prevention and good housekeeping activities and costs. | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1K, Permit Years 1-5

| Summary of Regulatory Requirements | Notes & Assumptions | Assessment of New Activities Needed for Compliance | Status Check List |
|---|---|---|--------------------------|
| NPDES | | | |
| L. NPDES Capital Project Funds | | | |
| YEAR 1 | | | |
| | NPDES capital project funds to be requested for 09/11 biennium. | | |
| YEAR 2 | | 1 | 1 |
| | NPDES capital project funds to be requested for 09/11 biennium. | | |
| YEAR 3 | | | |
| | NPDES capital project funds to be requested for 09/11 biennium. | | |
| YEAR 4 | | | 1 |
| L1. Known or planned stormwater project needs. | Assume that funds needed for known or planned drainage/flooding/water quality projects to cover costs associated with engineering design, permitting, PS&E, and construction. Assume that a formal funding request is made for known or planned CIPs during 2009/2011 biennium. Assume funds to be contributed to Department/Division responsible for the bulk of CIP costs. Staff have identified the need for a properly designed (including stormwater treatment) washout station at the Jongeward Complex. Total project cost estimated at \$250K. | support planning, design, and construction of known or planned | |
| L2. Fund to cover needs of projects discovered as SWM Program is implemented. | Assume that funds needed for projects that will inevitably be discovered during SWM Program implementation that must be addressed. Assume that a formal funding request made for unforeseen projects during 2009/2011 biennium. It is not possible to know the magnitude of these project costs; however, the estimate will be kept low and it will be assumed that: (1) some are financed over the long term and (2) large projects will require modification of the program budget in future bienniums. | Request additional funding to support discovered CIP needs. | |
| L1. Known or planned stormwater project needs. | is made for known or planned CIPs during 2009/2011 biennium. Assume funds to be contributed to Department/Division responsible for the bulk of | Additional funding requested to support planning, design, and construction of known or planned drainage/flooding CIPs. Funds to contribute to Department/Division responsible for bulk of CIP costs. | |
| L2. Fund to cover needs of projects discovered as SWM Program is implemented. | Assume that funds needed for projects that will inevitably be discovered during SWM Program implementation that must be addressed. Assume that a formal funding request made for unforeseen projects during 2009/2011 biennium. It is not possible to know the magnitude of these project costs; however, the estimate will be kept low and it will be assumed that: (1) some are financed over the long term and (2) large projects will require modification of the program budget in future bienniums. | | |

CWU Stormwater Planning Project, Program Implementation Plan — NPDES Element 1L, Permit Years 1-5