

## STORMWATER WORK GROUP

# 2013-2014 WORK PLAN

### KEY ACCOMPLISHMENTS EXPECTED IN 2013

Continue to implement our 2010 recommendations and update others on our progress:

- Prepare to launch pooled resources oversight committee
- Continue streamflow gauging network analyses and recommend next steps
- Finalize small streams status and trends Quality Assurance Project Plan (QAPP)
- Finalize marine nearshore sediment sampling QAPP, mussel sampling QAPP, and bacteria QAPP
- Design and implement pre-proposal process for effectiveness studies
- Recommend a voluntary permittee report form and an implementation plan for the source identification information repository (SIDIR)
- Data management plans for each component of the Regional Stormwater Monitoring Program (RSMP)

Continue to develop and expand our regional stormwater monitoring strategy and gather support:

- Approve new recommendations for monitoring agricultural runoff
- Approve new recommendations for monitoring runoff from roads and highways
- New topic areas according to priorities may be set by work group and champion interest

### PURPOSE AND OBJECTIVES

In 2010, the Stormwater Work Group (SWG) recommended a scientific framework, priorities, and specific steps to implement a broad, comprehensive regional stormwater monitoring and assessment strategy for Puget Sound. The strategy is focused on enabling us to know whether or not our management actions are successfully reducing harm caused to Puget Sound by stormwater from developed and developing lands. This document is intended to guide the SWG's near-term role in implementing the strategy and future expansion of the monitoring program.

The SWG's goals for 2013 and 2014 are:

1. Continue to implement the 2010 Strategy and our October 2010 *Recommendations for Municipal Stormwater Permit Monitoring*. Specifically:
  - Recommend a process and criteria for soliciting proposals and selecting effectiveness studies that will be conducted by the regional stormwater monitoring program.
  - Recommend specific next steps to create the Methods/Approaches and Results/Findings sides of SIDIR. Develop a reporting form for the Results/Findings side of the repository that permittees can choose to use to submit permit-required annual reporting.
  - Oversee the creation and administration of the pooled resources approach.
    - Be briefed regularly by Ecology as to the status of creating and implementing the pooled resources approach, and particularly in making contracting decisions to conduct monitoring and assessment activities.
  - Identify priorities and develop recommendations for regional monitoring of runoff from agricultural areas and from roads and highways.
  - Oversee the implementation of SWAMPSS.

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- Advise Ecology and PSP on tasks conducted in advance of permittee pay-in to the regional stormwater monitoring program (RSMP) and SWAMPPS activities conducted outside the permit-required RSMP.
  - Advise Ecology in selecting entities to implement ramp-up tasks using pooled resources.
  - Hear from experts on implementation of our recommendations.
2. Communicate and coordinate with policy makers, monitoring groups and other interested parties in Puget Sound.
    - Educate elected officials, city and county staff, and others about our recommendations and findings.
    - Participate in the Puget Sound Ecosystem Monitoring Program (PSEMP) as a topical work group.
    - Hear from other topical work groups at regular SWG meetings.
  3. Continue to discuss strategic expansions of the 2010 Strategy to other water bodies, types of NPDES-permitted activities, land uses, or geographic areas of Puget Sound.

This draft work plan lays out the proposed tasks that need to be completed, their timelines, and the roles and responsibilities of various parties in completing the work. This work plan is meant to be a starting point for work planning discussions of the SWG and will be modified based upon their input and progress toward completing the identified tasks.

### WORK TASKS AND SUBGROUPS

Work tasks: The following eleven tasks are proposed to be accomplished during 2013-2014:

- Task 1: Support, manage, staff, and lead the SWG in implementing the Stormwater Assessment and Monitoring Program for Puget Sound (SWAMPPS)
- Task 2: Recommend and implement a well-defined process and criteria for selecting effectiveness studies to be conducted in the next 5 or more years
- Task 3: Oversee creation and administration of the pooled resources approach
- Task 4: Oversee implementation of SWAMPPS small streams status and trends
- Task 5: Oversee implementation of SWAMPPS marine nearshore status and trends
- Task 6: Communicate with policy makers and other interested parties in Puget Sound
- Task 7: Participate fully in the new Puget Sound Ecosystem Monitoring Program (PSEMP) and communicate and coordinate with other monitoring groups in Puget Sound
- Task 8: Discuss further expansions of SWAMPPS
- Task 9: Expand the SWAMPPS framework to address agricultural lands and issues
- Task 10: Oversee the implementation of a source identification information repository
- Task 11: Define monitoring needs related to roads and highways

SWG Subgroups (as of the date of this work plan adoption):

- Agricultural Runoff
- Communication
- Effectiveness
- Marine Nearshore Status and Trends
- Pooled Resources Oversight
- Roads and Highways

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- Small Streams Status and Trends
- Source Identification
- Work Plan

## **Task 1: Support, manage, staff, and lead the SWG in implementing the Stormwater Assessment and Monitoring Program for Puget Sound (SWAMPPS)**

A broad, diverse membership has been used since 2008 to engage regional stakeholders in the process of developing a regional stormwater monitoring program. The SWG will continue to use their perspectives to implement SWAMPPS and demonstrate its success as a functional, meaningful, and cost-effective regional program. Ecology has assigned staff to support the work group. Participating entities and caucuses also provide support, expertise, and services.

The terms of service of the SWG chair and vice chair that were selected in February 2011 will end in February 2013. A chair and vice chair for 2013-2015 will be selected before the current terms expire. The chair executes the duties described in the SWG's bylaws.

This work plan update will be officially adopted by the SWG and submitted to Ecology and the Partnership in February 2012. The SWG will continue to evaluate its progress and adapt this work plan as needed. SWG meeting dates and proposed agenda topics are listed in the appendix to this document.

To implement this work plan, and full set of the SWG's October 2010 recommendations, the SWG staff and members will pursue opportunities for additional funding and resources to implement SWAMPPS.

Subgroup: Work Plan, and chairs of all other SWG subgroups  
SWG staff to coordinate and assist as needed

Deliverables: Annual work plan updates  
SWG work plan for 2014-2015  
Products as described in Tasks 2 through 11 below  
Grant proposals, interagency agreements, etc.  
SWG Chair and Vice Chair nominated in November in even years and selected in January in odd years, two year terms begin in February in odd years

Timeline: Adopt the SWG work plan update for 2013-2014 in January 2013  
Subgroups propose 2014-2015 work plan updates in November-December 2013  
SWG discusses updates in November 2013 and adopts work plan in January 2014  
Vote on candidates for chair/vice chair January 2013  
Nominate candidates for chair/vice-chair November 2014  
Pursue funding/leveraging opportunities as they become known/available

## **Task 2: Recommend and implement a well-defined process and criteria for selecting effectiveness studies to be conducted by SWAMPPS in the next 5 or more years.**

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In October 2010 the SWG tasked a subgroup to define and clarify the criteria and process for selecting effectiveness studies that will be conducted during the next NPDES municipal stormwater permit term and beyond using the pooled resources of permittees and others. The SWG approved a prioritized list of effectiveness study topics and questions and submitted them to Ecology in September 2011; the list was included in the formal draft NPDES permits out for comment from October 19, 2011 through February 3, 2012 and was referenced in the fact sheet but not included in the final permits issued August 1, 2012. A literature review was completed in early 2012 and in fall 2012 the subgroup oversaw the scope of work and selection of contractors for a synthesis of the findings of the literature review. The subgroup will evaluate and update the list of proposed studies using the syntheses of the findings of the literature review and relevant public comments Ecology received. The subgroup will develop and recommend a transparent process for soliciting, evaluating, and selecting proposals for design and implementation of studies that rank high on the list.

Subgroup: Effectiveness

Deliverables: Updated list (result of transparent evaluation against literature review)  
Update recommendations for entire selection process  
Process for workshop or pre-proposals developed (ready for 2014 implementation)  
Data management discussion and recommendations

Timeline: February: contractors deliver draft synthesis papers and present synthesis findings at joint meeting of SWG effectiveness and communication subgroups  
March: final synthesis findings presented to SWG  
April-June: Subgroup discuss any proposed updates to selection process  
June: SWG discuss revised list of topics and submit to Ecology  
Sept: SWG discuss plans for workshop or request for pre-proposals  
Late 2013: Subgroup begin work on data management plan  
2014: assist RSMP project manager with RFP process

### **Task 3: Oversee creation and administration of the pooled resources approach**

The SWG recommended that Ecology serve as the administrative entity for pooling NPDES municipal stormwater permittees in Puget Sound. The SWG also recommended that the SWG have an oversight role and approved a pooled resources oversight committee charter in 2012. Ecology will regularly brief the SWG as to the status of creating and implementing the pooled resources approach, and particularly in making contracting decisions to conduct monitoring and assessment activities.

The SWG will provide Ecology with feedback as to our committee's overall assessment of their proposed approach to implementing our recommendations and consider whether additional recommendations from our committee might be necessary or helpful. (This subgroup will also evaluate and recommend other options for administering the funds for the subsequent permit as they become available, although this task is not envisioned to be conducted during the time period covered by this SWG work plan.)

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Subgroup: Pooled Resources Oversight

Deliverables: Review the boilerplate cost-share agreement between Ecology and permittees  
Review job description for a monitoring program director

Timeline: Review position description and cost-sharing agreement in summer 2013  
Implement full oversight process after permit is effective August 2013 – ongoing  
Evaluate administrative entity options after this work plan period

### **Task 4: Oversee implementation of SWAMPPS small streams status and trends components**

The SWG in prior recommendations outlined a number of ramp-up tasks necessary prior to implementation of regional monitoring activities. Some of these are envisioned to be conducted with federal and/or state funding in advance of permittees pooling their resources. Others will be implemented through the pooled resources approach. The SWG has a role in overseeing all SWAMPPS “ramp-up” and implementation activities. Implementation of any or all of these tasks will be opportunistic, and backed by strategic planning. This list is not considered to be all-inclusive, and it is focused on activities needed to move forward with status and trends monitoring. See the *Recommendations for Municipal Stormwater Permit Monitoring* for more specifics.

- Coordination: In 2012 the subgroup convened with the PSEMP Salmon Recovery Workgroup’s Habitat Monitoring Subgroup and the PSEMP Freshwater Workgroup to discuss overlap and coordination of RSMP monitoring with salmon recovery monitoring and other freshwater monitoring.
- QAPP development and site selection for status and trends monitoring: First and revised drafts were reviewed by the subgroup. Ecology has promised a final QAPP by July 2013.
- Second phase streamflow network analysis and recommended next steps: USEPA funded USGS to do the preliminary analysis, which was published June 2012. The subgroup will meet to discuss how much of the lowlands needs to be gaged, the importance of trying to estimate streamflow (or streamflow statistics) in ungaged areas, and the acceptable level of accuracy/uncertainty. Subcommittee agreement on guidance/standards is needed to proceed with stream gaging recommendations.
- By the end of 2014 the subgroup will recommend monitoring locations and a stream gaging program design to support SWAMPPS.
- Coordination of data management for all SWAMPPS components: Ecology’s EIM and King County’s stream benthos database are envisioned to house the recommended stream status and trends monitoring. The subgroup will make recommendations for managing proposed SWAMPPS stream gauging data.
- Possible pilot studies

The SWG should also provide and pursue ongoing opportunities to hear from experts on implementation of our recommendations.

Subgroup(s): Small Streams Status and Trends

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Deliverables: Identify/confirm subgroup chair  
Continue meeting jointly with other PSEMP workgroups Streamflow gauging network analysis and recommendations/follow-up analyses  
Briefings by lead implementers at SWG meetings  
QAPP, SOPs, site selection  
Data management plan and recommendations  
Oversight of ramp-up and implementation tasks

Timeline: Confirm subgroup chair by email in advance of first meeting in Feb 2013  
Second phase streamflow network analysis presented to work group in June 2013  
Final QAPP approved before permit effective in August 2013  
Further analyses related to stream gauging to SWG by end of 2013  
Recommendations for RSMP data management by spring 2013  
Begin preparation for training and RFPs for monitoring in late 2013  
Recommendations for flow data management in late 2013 or early 2014  
Recommendations for stream gauging and implementation plan in 2014  
More briefings TBD  
Oversight of ramp-up and implementation tasks as needed, ongoing

## **Task 5: Oversee implementation of SWAMPPS Marine Nearshore Status and Trends components**

The SWG in prior recommendations outlined a number of ramp-up tasks necessary prior to implementation of regional monitoring activities. Some of these are envisioned to be conducted with federal and/or state funding in advance of permittees pooling their resources. Others will be implemented through the pooled resources approach. The SWG has a role in overseeing all SWAMPPS “ramp-up” and implementation activities.

Implementation of any or all of these tasks will be opportunistic, and backed by strategic planning. This list is not considered to be all-inclusive, and it is focused on activities needed to move forward with status and trends monitoring. See the *Recommendations for Municipal Stormwater Permit Monitoring* for more specifics.

- QAPP development and site selection for marine nearshore status and trends monitoring
  - Sediment sampling: Ecology EAP recommended sampling the 0-2m depth range and is developing GIS tools to support probabilistic sampling location selection.
  - Mussel sampling: WDFW staff determined approximate expected locations of populations of mussels in Puget Sound that would be adequate for sampling, and proposed criteria for selecting mussel sampling locations for status and trends.
    - In mid-2012 WDFW announce plans for a Puget Sound mussel contamination survey using caged mussels. As of the writing of this work plan, the mussel cages had been deployed for nearly two months, and retrieval was imminent. The subgroup will hear lessons learned from this project and determine which sampling approach to use for the RSMP.
  - Bacteria sampling: the subgroup recommended in 2011 that these sites be co-located with mussel sampling stations.

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- Coordination of data management for all SWAMPPS components: The subgroup will make recommendations as to what combination of Ecology's EIM and WDFW and WDOH databases is most appropriate for SWAMPPS data management.
- Possible pilot studies

The SWG should also provide and pursue ongoing opportunities to hear from experts on implementation of our recommendations.

Subgroup(s): Marine Nearshore Status and Trends; additional subgroups specific to each component of this monitoring might be formed

Deliverables: Identify a subgroup chair or co-chairs  
Delineation of nearshore areas inside/outside Urban Growth Areas  
Recommendation as to whether to use caged or wild mussels in the RSMP QAPPs, SOPs, site selection, data management recommendations  
Briefings at SWG meetings by lead implementers

Timeline: 0-2m UGA nearshore sampling stratum delineated in January 2013  
Sites selected using new GIS layer in January-February 2013  
Select chair or co-chairs via email in Feb 2013  
Recommendation whether to use caged or wild mussels by March 20, 2013  
Additional needs for data management identified by spring 2013  
All QAPPs final before permit effective in August 2013  
Briefings TBD

### **Task 6: Communicate and coordinate with policy makers and other interested parties in Puget Sound**

The SWG released its recommendations for SWAMPPS in October 2010, and has successfully used the caucuses to communicate our key decisions, and the reasons behind them, to staff members at a large number of organizations and entities across Puget Sound. A generic PowerPoint presentation is currently available and will be maintained as the basis of briefing others on our recommendations. To augment the communication and outreach that takes place through the caucuses represented by SWG members, the SWG has a standing Communication Subgroup that will develop draft presentation and briefing materials, and continue to develop and implement a communication strategy for other audiences.

**Outreach to Elected Officials:** Work remains to successfully communicate our recommendations to policy makers, specifically local elected officials and state legislators. The subgroup will continue to develop draft presentation and briefing materials and implement a communication strategy targeted to local elected officials.

**“SWG Reporter”:** The subgroup has also delivered regular updates through “SWG Reporter” editions delivered by email to hundreds of individuals. The SWG will continue to send out SWG Reporters on at least a quarterly basis, and more often as needed. All editions are archived on the SWG's webpage.

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**Workshops:** Before writing the draft scientific framework for SWAMPPS in 2009, the SWG hosted a “sprint” workshop of technical experts to inform priority-setting for a regional monitoring program. The SWG also hosted three successful public workshops in 2009-2010 to discuss development of the regional stormwater monitoring and assessment program. The SWG may use either of these formats again as specific needs are identified and resources become available and hopes to have at least one regional workshop in 2012-2013 to update interested parties on the status of SWAMPPS implementation. The SWG needs more resources to successfully host future workshops.

Subgroup: Communication

Deliverables: Identify new subgroup chair  
SWG Reporters and archives  
With Effectiveness Subgroup, disseminate findings of literature review syntheses  
SWG webpages revised to make the Google site more user friendly to subgroup members and the Ecology site more useful to all interested parties  
Workshop(s)  
Other briefings

Timeline: New subgroup chair selected via email in advance of February meeting  
Feb-March 2013: coordinate with Effectiveness Subgroup to review talking points for literature review synthesis findings  
AWC webpage live with literature review syntheses in June 2013  
Outreach to elected officials as needed  
Bi-monthly or quarterly SWG Reporters ongoing  
SWG webpages updated in summer 2013  
Workshop(s) TBD

### **Task 7: Participate in PSEMP and communicate and coordinate with other monitoring groups in Puget Sound**

The SWG is one of many topical work groups that have been formally commissioned by the Steering Committee for the new Puget Sound Ecosystem Monitoring Program (PSEMP). The SWG will deliver regular briefings to the steering committee. In early 2012, the SWG designated an official spokesperson to deliver briefings to the steering committee, and the chair and staff continue to coordinate with the other technical groups. The SWG may identify official delegates to these workgroups as needed.

The SWG and other work groups have been asked to:

- Take “ownership” of relevant dashboard indicators/targets,
- Identify/inventory the main monitoring efforts relevant to stormwater,
- Identify cross work-group and other sorts of questions beyond the dashboard,
- Identify monitoring gaps and priorities, and
- Make recommendations for improving data-sharing, including what data streams need to be developed to make dashboard reporting easier.

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The SWG will continue to coordinate with other work groups, particularly freshwater, toxics, salmon habitat, and marine waters as those groups develop new recommendations.

Subgroups: Small Streams Status and Trends, Marine Nearshore Status and Trends, and Effectiveness Subgroups will actively coordinate with other PSEMP workgroups. Rely on chair, vice chair, staff, and official delegate and alternate as liaisons to PSEMP Steering Committee. All are expected to provide the SWG with opportunities to comment on presentation materials. Additional points of communication/coordination with other PSEMP topical work groups may be named in the future.

Deliverables: Presentations and briefing materials  
Participate in the ecosystem monitoring program as a topical work group  
Exchange of information with related work groups  
Regular updates from Steering Committee

Timeline: Standing agenda item for regular SWG meetings  
Other briefings TBD

### **Task 8: Discuss further expansions of SWAMPPS**

The *2010 Strategy* described a comprehensive regional framework and set priorities for early implementation. The October 2010 *Recommendations for Municipal Stormwater Permit Monitoring* further narrowed down what monitoring activities to implement when and where in Puget Sound. In the draft scientific framework and in our communications to others, we specifically stated the need to expand this framework and priorities to other water bodies (*i.e.*, lakes, groundwater, wetlands, open marine, rivers), land uses (*i.e.*, industrial, forested), permit types (*i.e.*, WSDOT, industrial, construction), combined sewers, and geographic areas in Puget Sound. The status and trends monitoring that will be implemented via the NPDES municipal stormwater permit monitoring requirements addresses all land uses in two strata: inside and outside the Urban Growth Area boundaries.

The SWG needs to devote most of a meeting to an expansion priorities/capacity discussion in early 2012. Other permits, combined sewers, additional water bodies, more parameters are all possible expansions of the *2010 Strategy*. The work plan subgroup will tee up this discussion and invite interested parties to champion their issues. The SWG will set priorities for the next 12-24 months.

It is most important to successfully implement our 2010 recommendations in advance of expanding program implementation, but parallel processes can be launched using additional capacity. The SWG should recommend specific next steps to PSP and Ecology before the end of this work planning period. The recommendations need to include funding and implementation strategies.

In 2012, the Work Plan Subgroup led a discussion and suggested a process to make new recommendations. The SWG adopted a boilerplate document for subgroups to use. The Roads and Highways Subgroup was formed in 2012 and other subgroups were postponed until a staff person could be identified to lead them.

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Expansion topics may continue to be brought up for discussion at any time. These could include:

- What would a monitoring program that informs stormwater management at industrial and/or construction sites look like?
- What are the next priority water bodies to address and what would be the means for implementing status and trends monitoring in these water bodies?
- What effectiveness studies should be done in addition to evaluating municipal stormwater management programs?
- What are other priority parameters or media that should be included in SWAMPPS based on our discussions with other work groups in the past months?
- How might SWAMMPS address combined sewer overflows? Clean-up efforts?

The SWG should also consider what topics are being addressed by other PSEMP work groups and discuss how we can best support those efforts to expand SWAMPPS.

Subgroup: Work Plan; also PSEMP Steering Committee Liaison, SWG staff, and interested work group members

Deliverables: Updated description of implementation of SWAMPPS strategy components and articulation of components of strategy not being implemented

Timeline: Ongoing as needed or requested

### **Task 9: Expand the SWAMMPS framework to address agricultural lands and issues**

Stormwater runoff from agricultural lands is partly addressed by the prior recommendations of the work group, but new recommendations are needed to address agricultural runoff issues in a broader, more comprehensive way. The SWG commissioned a subgroup in early 2011 to propose expanding the *2010 Strategy* and building upon the *Recommendations for Municipal Stormwater Permit Monitoring* and other efforts to address agricultural issues. Due to limited SWG staff capacity, this subgroup is supported primarily by Washington State Conservation Commission staff. The subgroup presented draft recommendations to the SWG in October 2011 and will continue to meet approximately bi-monthly. The subgroup's materials, draft reports, and meeting agendas and summaries will be posted on the SWG webpages. Specifically, this subgroup is expected to:

- Review the small streams and nearshore status and trends monitoring parameter lists and consider adding agricultural pesticides and or other parameters for analysis at status and trends sites located outside Urban Growth Area (UGA) boundaries.
- Design a regional source identification and diagnostic monitoring strategy for agricultural issues.
- Design effectiveness studies for agricultural BMPs.
- Describe how the monitoring might be funded and conducted.

In 2012 the SWG approved the subgroup's preliminary recommendations for monitoring pesticide runoff from croplands, habitat, and nutrients and bacteria from animal sources.

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Subgroup: Agricultural Runoff

Deliverables: Monitoring strategy for potential stormwater impacts from agricultural activities  
Scientific framework, implementation plan, and funding approach  
Recommendations to PSP, WCCC, WSDA, and Ecology

Timeline: Cropland nutrient and sediment runoff recommendations to SWG in Sept 2013  
and approved in Nov 2013.  
Effectiveness monitoring recommendations to SWG in September 2013 and  
approved in November 2013  
Data management discussion and prioritized list of data gaps for agricultural  
runoff to SWG in January 2014 and approved in March 2014  
Overall strategy including implementation and funding recommendations to SWG  
in March 2014 and approved in June 2014

### **Task 10: Oversee implementation of source identification information repository (SIDIR)**

SWG oversight will be helpful for defining and implementing the process for developing the information repository described in our October 2010 recommendations. In February 2012 the SWG approved a scoping memo that defined the Source Identification Information Repository (SIDIR) as having two main components: Methods and Approaches, and Results and Findings. The memo also envisions a peer network for sharing information. The subgroup will continue to make recommendations about developing the content of SIDIR. These new recommendations will provide a foundation for the development and implementation of the SIDIR in 2015.

- The Field Screening Manual currently being developed by King County under a GROSS grant will be a key entry in SIDIR Methods/Approaches and a helpful starting point for identifying new guidance documents that need to be included or developed. Other existing and evolving resources will continue to be reviewed and considered as well.
- The NPDES permits that were issued last year include a requirement that permittees submit IDDE findings with their annual reports. The subgroup might review and advise Ecology on a voluntary reporting form for permittees to use in 2014 for their 2015 annual reports; the process to develop the form should define the basic types of information that are needed for SIDIR Results/Findings.

Subgroup: Source Identification

Deliverables: Identify new subgroup chair or co-chairs.  
Review new IDDE Field Screening Manual and recommend additional  
information needs to build on that effort.  
Recommendations for a voluntary annual report form for permittees  
New recommendations on the content of SIDIR.

Timeline: Identify new subgroup chair at next subgroup meeting  
Report form in first half of 2013; additional methods/approaches info late 2013  
Specific timing of deliverables will be opportunistic, as more resources are made  
available and as documents are made available for review

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## Task 11: Define Monitoring Needs Related to Roads and Highways

In May 2012, the SWG launched the Roads and Highways Subgroup and directed it to: *Take a holistic approach to defining monitoring needs related to roads and highways across the full spectrum of urban to rural roads in Puget Sound, and to make specific recommendations as to how WSDOT's permit-required monitoring should address a subset of those needs. The big picture of monitoring needs should include status and trends monitoring, effectiveness studies, and source control.*

Subgroup: Roads and Highways

Deliverables:

- Stormwater management monitoring strategy for roads and highways including, but not limited to:
  - Priority BMP effectiveness studies
  - Priority source identification and diagnostic studies
  - Priority characterization studies
  - Additional monitoring needs, if any, specific to the Puget Sound basin (e.g., do any other road and highway-related parameters need to be included for analysis at Puget Sound status and trends sites?)
- Recommendations for monitoring requirements to consider for inclusion in:
  - The 2014 reissued WSDOT municipal stormwater permit
  - Future reissuance of other stormwater permits
  - At Puget Sound status and trends monitoring sites

Timeline:

- January to Mid-March 2013: subgroup hones in on priority road and highway-related research needs and discusses WSDOT and non-WSDOT stormwater monitoring (permit and non-permit driven) efforts related to roads and highways
- March 20, 2013: subgroup progress briefing to SWG
- April to Mid-June 2013: subgroup continues to develop and refine recommendations
- June 12, 2013: subgroup presents draft recommendations to the SWG
- Mid-June 2013: WSDOT and Ecology begin conversations regarding monitoring requirements for the reissued WSDOT municipal stormwater permit in 2014; issues emerging from these discussions shared with subgroup
- Mid-June to Mid-September: subgroup further refines recommendations
- Early September: WSDOT share draft WSDOT water year 2011 monitoring report with subgroup
- September 18, 2013: Anticipated SWG approval of subgroup recommendations
- Fall 2013: SWG submits recommendations to Ecology

# STORMWATER WORK GROUP

## APPENDIX TO THE 2013-2014 WORK PLAN: PROPOSED SWG MEETING DATES AND AGENDA ITEMS

The SWG will meet on the following dates in 2013-2-2014 to discuss the following general topics from 9:00 am to 12:00 pm at the USGS office at 934 Broadway in Tacoma. Meetings may occasionally be extended to 1:00pm or later as warranted by the work group's need to discuss and approve recommendations under development.

Note: Revisions to this Appendix are still under construction ☺

### January 16, 2013

- Select chair and vice-chair (Task 1)
- Approve 2013-2014 work plan (Task 1)
- Discuss timing of RSMP small streams status and trends monitoring (Task 4)
- Tee up decision on whether to use caged or wild mussels for RSMP sampling (Task 5)
- Discuss data management recommendations (Tasks 2, 4, 5, 9, 10, 11)
- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)
  - Discuss Toxics Workgroup inventory, gap analysis, and prioritization

### February 2013

- No SWG meeting

### March 20, 2013

- Hear about mussel survey project & decide whether to use caged or wild mussels for RSMP sampling (Task 5)
- Discuss agricultural runoff effectiveness monitoring recommendations (Task 9)
- Hear findings of effectiveness literature review syntheses (Tasks 2 and 6)
- Be briefed on progress of Roads and Highways Subgroup (Task 11)
- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)

### April 2013

- No SWG meeting

### May 1, 2013

- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)

### June 12, 2013

- Discuss recommendations for monitoring Roads and Highways (Task 11)
- Hear findings of second phase stream gauging network analyses (Task 4)
- Hear update on web posting of effectiveness literature review syntheses (Tasks 2 and 6)
- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)

### July 2013

- No SWG meeting

### August 2013

- No SWG meeting

### September 18, 2013

- Discuss overall agricultural runoff monitoring strategy implementation recommendations (Task 9)
- Approve recommendations for monitoring Roads and Highways (Task 11)
- Discuss SIDIR results/findings reporting form for voluntary use by permittees in 2014 (Task 10)

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- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)

### **October 2013**

- No SWG meeting

### **November 13, 2013**

- Approve
- Discuss work plan updates and direct subgroups to propose specific 2014-2015 work plan updates (Task 1)
- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)

### **December 2013**

- No SWG meeting

### **January 15 or 22, 2014**

- Approve 2014-2015 work plan updates (Task 1)
- Determine messages and timing for next SWG Reporter (Task 6)
- Hear status of implementing this work plan (Task 1)
- Hear from PSEMP Steering Committee and other work groups (Task 7)