



# History of the SSC Program

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# MS4 Permit Components

The permits take a programmatic approach to control discharges from MS4s.

Stormwater
Management
Program (SWMP)

Mapping

**Public Involvement** 

Controlling Runoff from New Development

Stormwater Planning

Structural Controls (Phase I)

**Source Control** 

Illicit Discharges Detection & Elimination

Operations & Maintenance

Public Education & Outreach

Monitoring

Total Maximum Daily Load (TMDL) actions

**Ecology aims this program toward retrofitting** existing developed areas; and promotes planning and prioritization of these projects to reduce impacts to watershed hydrology and pollutant discharges from MS4s. Qualifying projects reduce or prevent negative water quality impacts from MS4s, and stormwater impacts inadequately controlled by other Permit requirements.

# History! Well, mostly...

• Where we've been

Where we are

Where we're going



# **History in One Slide**

Required a planning process

Identified qualifying project types

Introduced SSC Point Multipliers

**Defined LOE** 

**PCHB** Ruling

Directed ECY to define a Level of effort

SSC Science Synthesis Project

Planning and Reporting

Inform future requirements What is to come

**Current Program** 

Watershed based

First WA PHI Permits

First retrofit requirements

**Defined Program** 

Added reporting format

Introduced metrics for calculating benefit

Changes to LOE?

Different benefit metrics?

Upcoming policy conversations

Stay tuned...

### 1995

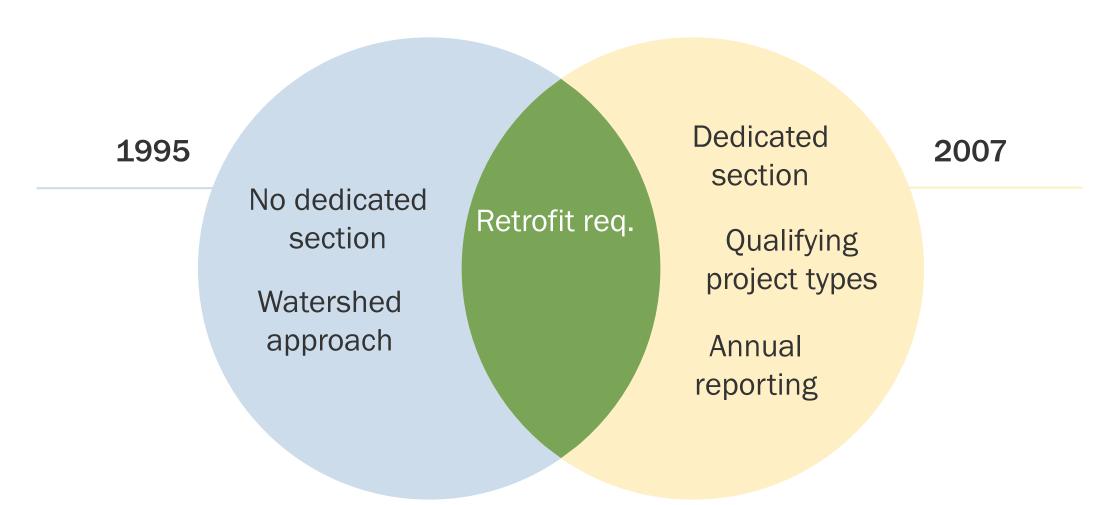
- First Permits issued
- PH I only
- Retrofits required
- No defined section

result of deicing activities;

- (4) A description of procedures to assure that flood management projects assess the impacts on the water quality of receiving water bodies and that existing structural flood control devices have been evaluated to determine if retrofitting the device to provide additional pollutant removal from storm water is feasible;
- (5) A description of a program to monitor pollutants in runoff from



### Changes between the 1995 and 2007 Permits

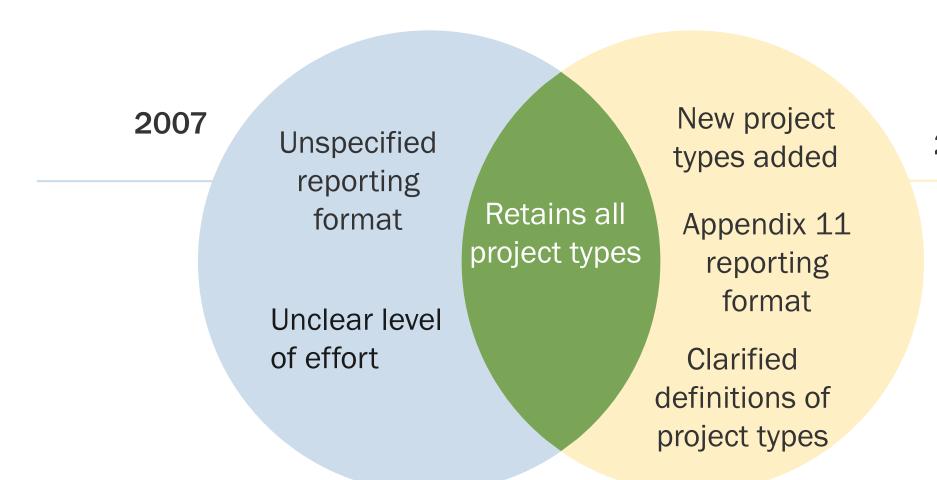


## 2008

• PCHB ruling, issued August 7, 2008



### Changes between the 2007 and 2013 Permits



Key Element	2007-2013	2013-2019
SSC Projects/Activities	<ul> <li>Regional flow control facilities.</li> <li>Water quality treatment facilities.</li> <li>Facilities to trap and collect contaminated particulates.</li> <li>Retrofit existing stormwater facilities.</li> <li>Rights-of-way, or other property acquisition to provide additional water quality and flow control benefits.</li> <li>Other means to address impacts:         <ul> <li>Reduction or prevention of hydrologic changes through use of on-site (infiltration &amp; dispersion) stormwater management BMPs and site design techniques.</li> <li>Riparian habitat acquisition.</li> <li>Restoration of forest cover &amp; riparian buffers.</li> </ul> </li> </ul>	<ol> <li>New flow control facility, including LID BMPs.</li> <li>New treatment facility (or treatment and flow control facility), including LID BMPs.</li> <li>Retrofit of existing treatment and/or flow control facility.</li> <li>Property acquisition for water quality and/or flow control benefits (not associated with future facility).</li> <li>Maintenance with Capital construction costs ≥ \$25,000.</li> <li>Property acquisition for riparian habitat.</li> <li>Restoration of forest cover.</li> <li>Restoration of riparian buffer.</li> <li>Floodplain connection projects on water bodies that are not flow control exempt per Appendix 1.</li> <li>Capital projects related to MS4 which implement an Ecologyapproved basin or watershed plan.</li> <li>Other actions to address stormwater runoff into or from MS4 not otherwise required in S5.C.</li> </ol>



#### Phase I Municipal Stormwater Permit

#### **APPENDIX 11 – Structural Stormwater Controls Project List**

The annual reporting requirement described in S5.C.6.c must follow the format and instructions provided in this appendix. Once placed on the list, projects must remain on the list throughout the permit cycle even if the project is cancelled.

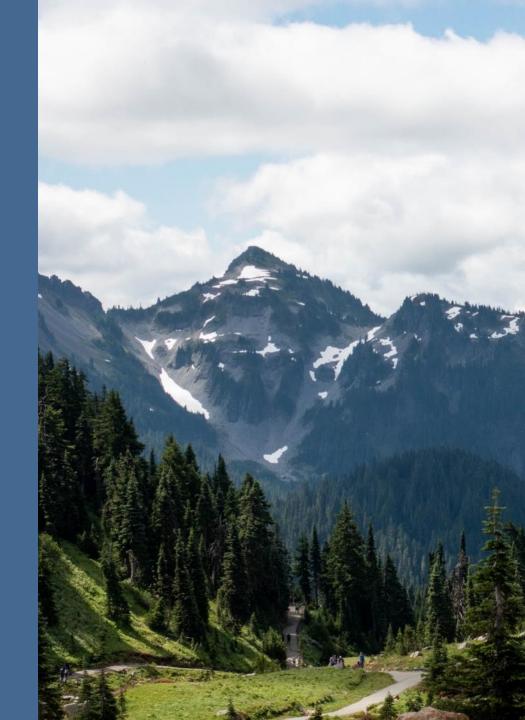
Project		Start		End	Cost	Fund	unding (%) WQ Benefit ਾ (Est. TSS or ( ਤੋਂ ਵੱਚ TS reduction		(Est. Avg. %	Benefit	Retrofit	Other	Monitoring Planned		Receiving water body		
Name	Type <sup>1</sup>	Year	Status <sup>2</sup>	Year	Estimate <sup>3</sup>	7	ž	Fe	lbs/yr) <sup>4</sup>	reduction)5	Option #	Incentive <sup>6</sup>	benefit	(yes/no)	(X,Y)	name	Comments
XYZ Pond	2	2013	4	2015	\$75K	50	25	25	0.1	75%	1	0.345	Demo project	yes	47/-122	Wet Creek	EXAMPLE ONLY

- Allow for a comparison of WQ and hydrological benefits
- Quantify those benefits
- Provide basis for a defined level of effort

2013

# Leading up to 2019...







## Calculating the current LOE

Appendix 11 submittals

Stormwater Financial Assistance Program (SFAP)

Preliminary draft feedback

# **Current Reporting**

Table 1: SSC Project List Template

Project Name	Project Type	Status	Cost Est.	Basin Area (ac)	LID Equiv. Area	LID Point Factor	RT Equiv. Area	RT Point Factor	FC Equiv. Area	FC Point Factor	Other Project Area- Ac or mi	Other Point Factor	Total SSC Program Points	Lat / Long (X,Y)	Receiving waterbody name

#### Notes:

- Project Type #11 may involve projects that are not maintenance activities addressed in this document. For such
  projects, Ecology expects that the SSC Program Points can be calculated based on the project's quantified water
  quality benefit as assigned to Project Types 1 3.
- 2. Multiply SSC point total by 0.10 for completed capital projects related to the MS4 which implement an Ecology-approved basin plan (refer to Permit Appendix 1, Section 7) or Watershed-Scale Stormwater Plan from the 2013 Phase I Municipal Stormwater Permit, Special Condition S5.C.5.c, or a TMDL (refer to Appendix 2), or an Ecology-approved Adaptive Management Plan (refer to Permit's Special Condition S4F and Appendix 13). Cite the specific plan associated with the project in the 'Comments' field of Table 1.
- Multiply SSC point total by 0.10 for completed capital projects related to the MS4 which occur in overburdened communities.
- 4. Use the appropriate area or length unit (acres, curb miles, linear feet) for Project types 5 through 11.

**Table 3: SSC Program Point Multipliers** 

Relevant Project Type #s	Project Achievement Description	SSC Program Point Multipliers					
#1 & #4	Flow Control	1.0 times Flow Control Equivalent area					
#1 & #4	Flow Control in a known flow control problem area.	1.5 times Flow Control Equivalent area					
#2 & #4	Runoff Treatment	1.0 times Runoff Treatment Equivalent area					
#2 & #4	Runoff Treatment in a known water quality problem area	1.5 times Runoff Treatment Equivalent area					
#2 & #4	Achieves Enhanced or Phosphorus Treatment	2.0 times Runoff Treatment Equivalent area					
#2 & #4	Meets WQ standards for target pollutant	2.5 times Runoff Treatment Equivalent area					
#3	Provides LID Performance (i.e. On-site infiltration to manage low flows)	1.5 times LID Equivalent area					
#5	Property Acquisition	0.50 times acres acquired					
#6 & #11	Maintenance with capital construction costs ≥ \$25,000 or other maintenance actions per S5.C.7.a.ii.(e).	0.25 times the area served by the maintenance activity, or 0.25 times (curb miles swept x (# events/year-1)), or 0.025 times the linear feet of lines cleaned.					
#7	Restoration of Riparian Buffer	0.35 times acres restored					
#8	Restoration of Forest Cover	0.25 times acres restored					
#9	Floodplain Reconnection	0.10 times acres reconnected, with a maximum of 200 points					
#10	Permanent removal of impervious surfaces	1.0 times the sq. ft. of impervious surface removed					



### Changes between the 2013 and 2019 Permits

2013

Reporting of WQ benefit, Hydro benefit and incentive points

Retains all project types

High level of reporting

Refined and clarified project types

Appendix modified

SSC Program
Points

2019

## **SSC Science Synthesis Project**

Completed June, 2021

- Three elements:
  - Benefit Questions
  - Application Questions
  - Policy Discussions



# **PAC Composition**

- 6 PH I
- 1 WSDOT
- 1 PH I Port
- 5 PH II
- 2 NGO
- Ecology

### SSC PAC

 To discuss and provide recommendations to help inform the SSC requirements, specifically in terms of a a system for quantifying SSC requirements and the level of effort in Ecology's Municipal Stormwater Permit reissuance. The recommendations generated by PAC will be submitted to Ecology.

