

## Draft Ranked List of 28 Possible Effectiveness Study Topics

<b>SWMP Element</b>	<b>Question or hypothesis</b> (total score out of a possible 100, assigned by subgroup)
Source Control	Construction site inspections are not effective at controlling sediments and turbidity from permitted construction sites (93)
Source Control	Education and inspection of private stormwater facilities does not affect water quality (83)
IDDE	Are IDDE program components effective at reducing pollutants? (81)
O&M – pollution prevention	Is there an optimal frequency for inspecting and cleaning catch basins based on land use or road size? (79)
IDDE	Receiving water body sampling does not confirm removal of an illicit connection or successful IDDE program (79)
LID	How effective are bioretention, bioinfiltration, biofiltration, rain gardens, and other LID measures at reducing storm flows and pollutant loads? (79)
Public Education	Permit required public education programs do not result in decreased loads of pollutants in stormwater (78)
Traditional BMPs	Basin scale comparison of BMP/LID effectiveness for hydrological and contaminant control (73)
LID	Can compost and planting specifications be adjusted to improve flow control and pollutant removal? (69)
Source Control	Business inspection and outreach are not effective source control techniques (65)
Public Education	Permit required public education programs promoting behavior change (pet waste pick up, reduced fertilizer use, proper car washing) do not result in increased awareness and behavior change (62)
LID	Are LID measures feasible in areas with tight soils or shallow groundwater? (60)
Traditional BMPs	Evaluating effective sizing criteria for vegetative filter strips (59)
LID	Is permeable pavement feasible for high-speed roads? Can recycled concrete be used as storage? (58)
Public Education	Publicizing the spill hotline does not result in an increase of spill reports by the public (57)
O&M – pollution prevention	Do catch basins contribute sufficient fecal coliform bacteria to affect TMDLs & how quickly do they recolonize? How do you manage the system to reduce fecal coliform bacteria? (56)
Public Education	The level of availability of LID information does not result in an increase in LID implementation (56)
Traditional BMPs	Ecological and intrinsic human benefits derived from maintained vs. unmaintained stormwater ponds (56)
Public Education	Commercial Property Maintenance technical assistance visits do not result in improved system maintenance, understanding of illicit discharges and awareness of where stormwater flows (55)

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Public Education	Car wash education does not result in fewer fundraiser car wash events or an increase in homeowner use of commercial car wash facilities (50)
Public Education	Public education of lake property owners about fertilizer use, pet waste pick up and over-irrigation will not reduce summer nuisance algae blooms (47)
Source Control	Nutrient management programs/IPM do not affect receiving water bodies (46)
Public Education	Private pond maintenance workshops do not result in increased pond maintenance (46)
Source Control	Does car washing on permeable pads result in ground water pollution? (45)
Public Education	Storm drain stenciling does not raise awareness about where stormwater goes or that it is minimally treated (42)
Traditional BMPs	Toxics transfer to nearshore from upland by stormwater infrastructure (42)
Public Education	Installation of pet waste stations does not result in reduced amounts of pet waste (39)
Traditional BMPs	Evaluating effectiveness of oil/water separators in driveway applications (39)

Next steps of subgroup prior to SWG approval of final list to submit to Ecology on September 21, 2011:

1. Refine and improve the wording of the questions/hypotheses for clarity and to inform the development of RFPs
2. Check to confirm that questions from Phase II permittees delivered to SWG staff after mid-May 2011 are included
3. Consider how/whether to address any perceived gaps such as: toxics/toxicity, watershed planning, basin-scale applications, permitted v. non-permitted areas