

**Lower Raritan Watershed Management Area
Land Use, Wastewater & Water Supply Subcommittee
Strategy Worksheet LRLU-S3A5
Strategy Worksheet LRSW-S4A3**

<p>Strategy Name: Incentives for Incorporation of BMPs LRLU-S3A5. Create a system of financial or other incentives for incorporating BMPs, reducing NPS loads, etc. beyond current standards in development and redevelopment projects. LRSW-S4A3. Create a system of financial or other incentives for incorporating BMPs, reducing NPS loads, etc. beyond current standards in development and redevelopment projects.</p>	<p>Strategy Priority: (H/M/L) LRLU-S3A5 = L LRSW-S4A3 = M</p>
<p>Objectives Addressed by Strategy: LRLU-O3A. By 2004, municipalities shall help protect environmental resources and mitigate environmental impacts by requiring a thorough examination of environmental impacts from applicants for development or redevelopment projects. LRSW-O4A. By 2008, watershed-based stormwater management plans will be adopted to guide the control of stormwater from new development and redevelopment and guide the improvement and maintenance of existing stormwater systems. LRLM-O2B. Nutrient loading in the Lower Raritan WMA will be at a level that causes no adverse impacts to water designated for human consumption, recreation purposes or wildlife health following the implementation of the watershed management plan. Where standards are currently met, there shall be no degradation. LRLM-O2C. Sediment loading and turbidity in the Lower Raritan WMA will be at a level that causes no adverse impacts to water designated for human consumption, recreation purposes or wildlife health following the implementation of the watershed management plan. Where standards are currently met, there shall be no degradation. LRLM-O2D. Loadings of pesticides, heavy metals, road salts, deicing agents and other pollutants in the Lower Raritan WMA will be at a level that causes no adverse impacts to water designated for human consumption, recreation purposes or wildlife health following the implementation of the watershed management plan. Where standards are currently met, there shall be no degradation. LRLM-O2E. Fecal Coliform loading in the Lower Raritan WMA will be at a level that causes no adverse impacts to water designated for human consumption, recreation purposes or wildlife health following the implementation of the watershed management plan. Where standards are currently met, there shall be no degradation. LRLI-O1B. By 2004, 50% of the municipalities and all four counties in the Lower Raritan will be formally participating in and coordinating their efforts for implementation of the watershed plan.</p>	<p>Strategy Schedule: (Begin/End)</p>
<p>Narrative Description of Strategy: Development pressure and suburban sprawl are converting a great deal of forested and agricultural land to urban land uses within the WMA. Along with urban land uses comes an increase in impervious cover that increases stormwater runoff, decreases ground water recharge and baseflow, and degrades water quality of surface and ground water resources. New urban land also increases the number of bridges over streams, increases the number of stormwater outfall structures that discharge to streams, and physically alters the stream corridor. The surface waters of the WMA have documented pollutant loadings from non-point sources. The construction of housing and roads, known sources of sediment loading, along with runoff from the suburban landscape and storm drains, known sources of nutrient, fecal coliform bacteria and sediment loading, all contribute to the suburban non-point source pollution. Primary concerns within the WMA include fecal coliform and phosphorus.</p> <p>Incentives have been utilized to encourage the implementation of BMPs on agricultural land for some time. These incentives primarily focus on cost-sharing strategies. This strategy involves the identification and implementation of incentives to encourage entities to go beyond current standards for controlling NPS in development and redevelopment projects. The types of NPS that may be affected by regulatory, financial or social recognition incentives and correlating management practices will be identified. A method for tracking results will also be implemented.</p>	
<p>Areawide WQM Plan Consistency Determination Issues: Potential TMDL implementation tool to avoid new loadings to water quality limited streams.</p>	

LRLU-S3A5 & LRSW-S4A3: Incentives for Incorporation of BMPs

Action Plan (Steps or Tasks)	Responsible Parties for Planning, Design & Implementation ¹	Responsible Parties for Oversight	Resource Needs ²	Committed or Recommended Resources	Major Challenges and Opportunities	Evaluation Method & Indicators	Schedule and Milestones for Implementation
1. Identify types of NPS of concern to the Basin that can be and are affected by incentives (i.e. regulatory, financial, social recognition) and the management practices that could be used to exceed regulatory requirements.	C: R: Rutgers University, NJDEP, LRLU, LRSW, LRLM (if active) ³ , NRCS, SCDs, NJDA-SSCC, NJRC&D	C: R: LRMC-WRA LRWMG LRWMAC ⁴	L	C: R: 319 grants, 604b grants, foundations, interest group associations, existing resources		Identification of NPS types affected by incentives and applicable management practices	
2. Develop a method that will validate or confirm that performance goes beyond just a theoretical measure. (i.e., NY and MA have only assigned theoretical removal rates)	C: R: Rutgers University, NJDEP, LRLU, LRSW, NRCS, SCDs, NJDA-SSCC, NJRC&D	C: R: LRMC-WRA LRWMG LRWMAC	L	C: R: 319 grants, 604b grants, foundations, interest group associations	Challenge: Lack of data on BMP efficiencies	Development of method	
3. Through a review of projects and literature, identify incentives that are applicable to the identified NPS categories. See: LRLI-S1B2: Incentives & Economic Rationales for Watershed Protection	C: R: Rutgers University, NJDEP, LRLU, LRSW, LRLI	C: R: LRMC-WRA LRWMG LRWMAC	L	C: LRLI-S1B2 R: 319 grants, 604b grants, foundations, interest group associations, existing resources		Completion of review and list of incentives	
4. Identify and review existing award or certification programs for use of BMPs and watershed-friendly practices. See: LRLI-S1B2: Incentives & Economic Rationales for	C: R: LRLU, LRLI	C: R: LRMC-WRA LRWMG LRWMAC	L	C: LRLI-S1B2 R: University research project, foundation grants, existing resources		Completion of review and identification of appropriate programs for use in the Lower Raritan	

LRLU-S3A5 & LRSW-S4A3: Incentives for Incorporation of BMPs

Action Plan (Steps or Tasks)	Responsible Parties for Planning, Design & Implementation ¹	Responsible Parties for Oversight	Resource Needs ²	Committed or Recommended Resources	Major Challenges and Opportunities	Evaluation Method & Indicators	Schedule and Milestones for Implementation
Watershed Protection							
5. Convene meetings with representatives of the NPS categories to evaluate or develop incentive/reward/certification programs keyed to those NPS sources, or improve existing programs to encourage entities to go above or beyond the current standards.	C: R: Interest group associations, Rutgers University, NJDEP	C: R: LRMC-WRA LRWVG LRWVAC	L	C: R: 319 grants, 604b grants, foundations, interest group associations, existing resources	Challenge: Identifying the level of incentive that will achieve results most cost effectively	Meetings held Number of participants Quality of outputs	
6. Develop a system to track implementation of BMPs and the use of incentive programs. See: LRLM-S2A4: Monitoring System to Track BMP Implementation and Success, LRSW-S4A4: Tracking Effectiveness of BMPs and LRLI-S1B2: Incentives & Economic Rationales for Watershed Protection	C: R: Raritan Plan coordinators, NJDEP, Rutgers University	C: R: LRMC-WRA LRWVG LRWVAC	L-M	C: LRLM-S2A4, LRSW-S4A4, LRLI-S1B2 R: 319 grants	Challenge: Tracking of NPS controls is difficult	Completion of system Number of participants enlisted	
7. Implement the incentives, track progress and evaluate results.	C: R: Counties, municipalities, Interest group associations (e.g. Farm Bureau, League of Municipalities), LRLU, LRSW, NJDEP, Rutgers University	C: R: LRMC-WRA LRWVG LRWVAC	Variable by NPS reduction incentive	C: R: NPS, 319 grants, local grants, non-governmental organizations	Challenge: Getting buy-in from NPS producers	Number of projects/NPS controlled beyond regulatory requirements	

LRLU-S3A5 & LRSW-S4A3: Incentives for Incorporation of BMPs

Action Plan (Steps or Tasks)	Responsible Parties for Planning, Design & Implementation ¹	Responsible Parties for Oversight	Resource Needs ²	Committed or Recommended Resources	Major Challenges and Opportunities	Evaluation Method & Indicators	Schedule and Milestones for Implementation
---------------------------------	--	-----------------------------------	-----------------------------	------------------------------------	------------------------------------	--------------------------------	--

See:
 LRLM-S2B2: Nutrient Reduction Plan
 LRLM-S2C2: Sediment Reduction Plan
 LRLM-S2D2: Pollutant Reduction Plan for Non-conventional Pollutants
 LRLM-S2E2: Fecal Coliform Reduction Plan

¹C = Committed, R = Recommended

² General Estimates: Low = \$5,000 - \$50,000; Moderate = \$50,000 - \$250,000; High = \$250,000 - \$1 million; Very High = over \$1 million

³ All qualifiers #1 (e.g. if active) for subcommittees apply throughout the action plan.

LRLU = Lower Raritan Land Use, Wastewater & Water Supply Subcommittee

LRSW = Lower Raritan Stormwater/Flooding Subcommittee

LRLI = Lower Raritan Legal, Institutional & Implementation Subcommittee

TMDL = Total Maximum Daily Load

NRCS = Natural Resources Conservation Service

NJDA-SSCC = NJ Department of Agriculture – State Soil Conservation Committee

⁴ LRMC-WRA = Lower Raritan-Middlesex County Water Resources Association

LRWMAC = Lower Raritan Watershed Management Area Committee or equivalent

LRLM = Lower Raritan Land Management & Open Space Subcommittee

BMP = Best Management Practice

NJDEP = New Jersey Department of Environmental Protection

NJRC&D = North Jersey Resource Conservation & Development Council

LRWVG = Lower Raritan Watershed Management Group