

## New Raritan Basin Surface Water Supply Facility Strategy Worksheet: RB-S4

<b>Strategy:</b> Finance and construct a new Raritan Basin surface water supply facility in conformance with the NJ Statewide Water Supply Plan to meet projected reasonable and necessary demands in surface water supplies.	Strategy Priority: M (H/M/L)
<b>Objectives Addressed by Strategy:</b> <b>MWS-01A:</b> By 2006, allocation of all waters by watershed, subwatershed and regional aquifer so that ecological resources are fully sustained, and reasonable human needs for residential, agricultural, industrial, commercial, recreational and water supply are met and limited to safe and dependable supplies of surface and ground waters <b>LRLU-04B:</b> By 2012, development will be limited to the sustainable capacity of the water supply and its infrastructure. The water supply infrastructure shall be managed to maintain, protect and improve water resources.	Strategy Schedule: 2003-2020 (Begin/End)
<b>Narrative Description of Strategy:</b> The NJ Statewide Water Supply Plan (1996) indicated a future need for a new surface water supply project in the Raritan Basin within the plan horizon of 2040, and recommended that demands be tracked over time to determine whether the schedule should be advanced. Two projects were selected as preferred alternatives: Kingston Quarry Reservoir and Confluence Pumping Station. The former would use the site of an active quarry in Franklin Township next to the D&R Canal as a reservoir, once quarry operations created a large storage pool. The latter would pump water from the confluence of the North and South Branches of the Raritan River to Round Valley Reservoir. Both were deemed cost-effective and environmentally acceptable projects. Recent analyses of Raritan water demands, plus experiences from the last drought where Northeast New Jersey supplies were augmented using Raritan Basin water, indicate that one of these two projects may be needed in the next 20 years. Given the length of time necessary to construct such major facilities, action is needed to further plan and design the facilities; construction would not start for some time. This strategy would have NJDEP authorize the NJ Water Supply Authority to officially take responsibility for these projects, as anticipated by the 1996 Plan, and move forward into planning and design work, with eventual construction at an appropriate time.	
<b>Areawide WQM Plan Consistency Determination Issues:</b> None	

Action Plan (Steps or Tasks)	Responsible Parties for Planning, Design & Implementation	Responsible Parties for Oversight	Resource Needs (L,M,H,VH)	Committed or Recommended Resources	Major Challenges and Opportunities	Evaluation Method & Indicators	Schedule and Milestones for Implementation
1. NJDEP authorizes NJWSA to formally accept responsibility for the Kingston Quarry and Confluence Pumping Station projects.	C: R: NJDEP	C: R: NJDEP	L	C: R: Existing resources		Delegation letter	2003
2. NJWSA Board of Commissioners accepts the delegation of authority and assigns responsibility to staff for implementation	C: R: NJWSA	C: R: NJDEP	L	C: R: Existing resources		Consent and assignment	2003

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Page 2 of 2

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3. NJWSA negotiates with Trap Rock Quarries, Inc., regarding the timing of availability for Kingston Quarry (first and second pools) and enters into an appropriate agreement	C: R: NJWSA	C: R: NJDEP	L	C: R: Existing resources	Timing by which quarry is available for reservoir use (estimated at 2019 for Pool 1 and 2040 for Pool 2; of 7 and 10 billion gallons)	Agreement	2003-2004
4. NJWSA develops more detailed project plans, schedules project phases, and develops preliminary designs and cost estimates for projects in anticipation of construction	C: R: NJWSA	C: R: NJDEP	H-VH	C: R: Water Supply Bond loans (to be repaid through water charges)		Final plans	Depends on water demand trends
5. NJWSA selects the preferred project in consultation with NJDEP and Raritan customers, completes detailed designs, secures funding and permits	C: R: NJWSA	C: R: NJDEP	M-H	C: R: Water Supply Bond loans (to be repaid through water charges)	Cost structure, financing and repayment plan for reservoir	Funding Permits	
6. NJWSA constructs preferred project based on schedules to assure sufficient surface water supply to the Raritan Basin and other users	C: R: NJWSA	C: R: NJDEP	VH+	C: R: Water Supply Bond loans (to be repaid through water charges)		Complete project	