Table 4-1. Selection Matrix for Best Management Practices	Targeted Pollutants					Physical Constraints							
	Sediment	Phosphorus	Trace Metals	Bacteria	Petroleum Hydrocarbons	Drainage area (acres)	Maximum slope (%)	Minimum depth to bedrock, ft	Depth to high water table, ft	SCS soil type[1]	Use with freeze/thaw cycle	Drainage/flood control	Expected life[2]
Stormwater Filters													
Vegetated swale	65%	15%	◖	○	◖	15	4	3	2	BCD	Fair	Yes	Permanent
Bioretention swale	75%	30%	●	◖	●	5	4	3	3	AB	Fair	Yes	Permanent
Vegetative filter strip	50%	40%	◖	◖	◖	5	6	5	3	BCD	Fair		Permanent
Sand filter	85%	55%	◖	◖	◖	5(inlets) 50 (basin)	6	3	3	NA	Fair	Yes	25 yrs
Compost filter	95%	40%	●	◖	●	1	6	NA	NA	NA	Fair		20+ yrs
Catchbasin insert	35%	5%	◖	○	◖	0.1	NA	NA	NA	NA	Fair		
Media filter	●	50%	●	◖	●	According to manufacturer's specifications				NA	Fair		20+ yrs
Infiltration Facilities													
Infiltration trench	75%	65%	●	●	●	10	15	3	3	AB	Fair		10 yrs
Bioretention basin	90%	75%	●	●	●	5	2	3	3	AB	Fair	Yes	25 yrs
Porous pavement	85%	64%	●	●	◖	0.25-10	2	2-5	2-5	AB	Fair	No	
Detention Facilities													
Wet pond (conventional pollutants)	80%	45%	●	◖	◖	15-20	10	3	2	CD	Good	Yes	Permanent
Wet pond (nutrient control)	80%	65%	●	◖	◖	5-20	5	3	2	CD	Fair	Yes	Permanent
Wet extended detention pond	80%	65%	●	◖	◖	10-50	10	3	2	CD	Good	Yes	Permanent
Dry extended detention pond	45%	25%	◖	○	◖	10-50	10	6	4	ABC	Good	Yes	Permanent

Table 4 -1. Selection Matrix for Best Management Practices (cont.)	Targeted Pollutants					Physical Constraints							
	Sediment	Phosphorus	Trace Metals	Bacteria	Petroleum Hydrocarbons	Drainage area (acres)	Maximum slope (%)	Minimum depth to bedrock, ft	Depth to high water table, ft	SCS soil type[1]	Use with freeze/thaw cycle	Drainage/flood control	Expected life[2]
Biodetention basin	75%	45%	●	◖	●	25-50	5	3	2	CD	Fair	Yes	Permanent
Presettling/sedimentation basin	60%	30%	◖	○	○	10+	10	3	2	CD	Good		Permanent
Wet vault/tank	60%	30%	◖	○	○	5	15	12	12	ABC	Fair	Yes	Permanent
Other Structural Controls													
Oil/water separator	15%	5%	◖	○	●	1	15	8	8	ABC	Fair		20+ yrs
Swirl concentrator	35%	15-20%	◖	○	◖	According to manufacturer's specifications				NA	Fair		
Level spreader	NA	NA	○	○	○	5	1	NA	NA	ABCD	Fair	Yes	

● = very effective, removes > 70% of pollutant ◖ = moderately effective, removes 25-70% of pollutant ○ = least effective, removes < 25% of pollutant

N/A = Not applicable

[1] NRCS soil types (A,B,C,D) range from A = high infiltration to D = little or no infiltration

[2] Longevity data collected from various sources, including Panhandle Health District 1996, Boise City 1997, and EPA 1993. The numbers shown represent industry guidelines; the actual life expectancy is dependent on proper design, placement, and maintenance of BMPs.

The pollutant removal efficiencies given above are for planning purposes only. Actual removal rates are dependent on specific site characteristics, maintenance, and other factors. The following sources were used to determine the most likely average removal rate for conditions prevalent in

Idaho: California 1993, Debo and Reese 1995, King County 1994, King County 1995, Maine 1995, Minnesota 1989, Panhandle Health District 1996, Portland 1991, and USEPA 1995.