WESTMINSTER

Post-Construction Stormwater Management Design Standards

PROJECT AND SITE INFORMATION

Project and Site Name:		**Project Location:**	
Owner Name:		**Total Site Acreage:**	
Date Submitted:		**Completion Date:**	
Existing Impervious Area:		**Proposed Impervious Area:**	
Description of Source Control or nonstructural BMPs:		**Does this project overlap multiple MS4 jurisdictions?**	▫ YES ▫ NO

Developer must complete and submit this form for each project that disturbs >1 acre.

Attach completed form(s) to Drainage Report.

4-STEP PROCESS FOR STORMWATER QUALITY MANAGEMENT (REQUIRED)

STEP	YES/NO	COMMENTS
STEP 1: Does the project employ runoff reduction practices by implementing low impact development (LID) strategies such as minimizing directly connected impervious area, implementing swales, rain gardens or permeable pavements?		
STEP 2: Does the project implement Best Manageemnt Practices (BMPs) that provide a Water Quality Capture Volume (WQCV) with slow release such as detention and retention ponds, sand filters, or permeable pavers with subsurface storage?		
STEP 3: Does the project stabilize drainage ways to maintain natural functions such as stream bank stabilization or drop structures?		
STEP 4: Does the project implement site specific or other source control BMPs (both structural and procedural) such as covering storage areas or removing pollutants?		

Select only ONE base or ONE constrained design standard below for each proposed BMP.

If multiple BMPs are needed, a separate form must be completed for each one detailing the portion of the project being addressed.

BASE DESIGN STANDARDS

		DESIGN DETAILS	YES	NO	COMMENTS
☐	**A) WQCV Standard** The control measure(s) is designed to provide treatment and/or infiltration of the WQCV and: 1) 100% of the applicable development site is captured, except the permittee may exclude up to 20%, not to exceed 1 acre, of the applicable development site area when the permittee has determined that it is not practicable to capture runoff from portions of the site that will not drain towards control measures. In addition, the permittee must also determine that the implementation of a separate control measure for that portion of the site is not practicable (driveway access that drains directly to the street). 2) Evaluation of the minimum drain time shall be based on the pollutant removal mechanism and functionality of the control measure implemented. Consideration of the drain time shall include maintaining vegetation	**Provides Treatment/infiltration of WQCV for 100% of the site?**	▫	▫	
		BMP Type:			
		OR			
		Provides for LESS THAN 100% of the site?	▫	▫	
		% of site not treated:			
		Acreage of site not treated:			
		Why is the excluded area impractical to treat?			
		Why is another BMP not practicable for the untreated area?			

	necessary for operation of the control measure.				
☐	**B) Pollutant Removal Standard** *The control measure(s) is designed to treat at a minimum the 80th percentile storm event. The control measure(s) shall be designed to treat stormwater runoff in a manner expected to reduce the event mean concentration of total suspended solids (TSS) to a median value of 30 mg/L or less and: 1) 100% of the applicable site is captured, except the permittee may exclude up to 20% not to exceed 1 acre of the applicable development site area when the permittee has determined that it is not practicable to capture runoff from portions of the site that will not drain towards control measures. In addition, the permittee must also determine that the implementation of a separate control measure for that portion of the site is not practicable (driveway access that drains directly to the street).*	**Meets design Standards and Requirements?**	☐	☐	
		BMP Type:			
		Storm Event:			
		TSS mg/L Reduction:			
		% Site Treated:			
		OR			
		Provides for LESS THAN 100% of the site?	☐	☐	
		% of site not treated:			
		Acreage of site not treated:			
		Why is the excluded area impractical to treat?			
		Why is another BMP not practicable for the untreated area?			

☐	**C) Runoff Reduction Standard** *The control measure(s) is design to infiltrate into the ground where site geology permits, evaporate, or evapotranspire a quantity of water equal to 60% of what the calculated WQCV would be if all impervious area for the applicable development site discharged without infiltration. This base design standard can be met through practices such as Green infrastructure.*	**Meets Design Standards and Requirements?**	☐	☐	
		% of site treated through runoff reduction:			
		BMP Type:			
☐	**D) Applicable Development Site Draining to a Regional WQCV Control Measure** *The regional WQCV control measure must be designed to accept drainage from the applicable development site. Stormwater from the site must not discharge to Waters of the State before being discharged to the regional WQCV control measure. It must be designed to provide treatment and/or infiltration of the WQCV for 100% of the tributary area.*	**Designed to accept drainage from site?**	☐	☐	
		Does stormwater discharge to Waters of the State before being discharged to Regional WQCV Control Measure?	☐	☐	**IF YES, GO TO NEXT DESIGN STANDARD.**
		Designed to provide treatment/infiltration for 100% of the tributary area?	☐	☐	
		OR			
		Provides for LESS THAN 100% of the site?	☐	☐	
		% of site not treated:			
		Acreage of site not treated:			
		Why is the excluded area impractical to treat?			
		Why is another BMP not practicable for the untreated area?			
☐	**E) Applicable Development Site Draining to a Regional WQCV Facility** *The regional WQCV facility is designed to accept the drainage from the applicable*	***The regional WQCV facility must be implemented, functional, and maintained following good engineering, hydrologic and***	☐	☐	

	development site. Stormwater from the site may discharge to a Waters of the State before being discharged to the regional WQCV facility. Before discharging to waters of the State, 20% of the total impervious surface of the applicable development site must drain to a RPA covering an area equal to 10% of the unconnected impervious surface area draining to it. The control measure must be designed in accordance with a design manual identified by the permittee (USDCM Vol 3 Preferred). In addition, the stream channel between the discharge point of the applicable development site and the Regional WQCV Facility must be stabilized.	***pollution control practices***			
		The regional WQCV facility must be designed and maintained for 100% WQCV for its entire drainage area.	☐	☐	
		The regional WQCV facility must have capacity to accommodate the drainage from the applicable development site	☐	☐	
		The regional WQCV facility must be designed and built to comply with all assumptions for the development activities planned by the permittee within its drainage area including the imperviousness of its drainage area and the applicable development site.	☐	☐	
		Evaluation of the minimum drain time shall be based on the pollutant removal mechanism and functionality of the facility. Consideration of drain time shall include maintaining vegetation necessary for operation of the facility.	☐	☐	
		Regional facilities must be designed, constructed, and implemented with flood control and water quality as the primary use. Recreational ponds and reservoirs may not be considered Regional Facilities. Water bodies listed by name in surface water quality classifications and standards regulations may not be considered regional facilities.	☐	☐	
		Square Footage of site treated in Regional WQCV Facility:			
		Square Footage of unconnected impervious area going to receiving pervious area (RPA ≥10% of UIA):			
		Square Footage of receiving pervious area:			
		Stream Channel Stabilized? (include documentation)	☐	☐	
		Stream Reach:			
		Method of Stabilization:			
		Name and Location of Regional WQCV Facility:			
		RPA BMP Type:			
		Regional WQCV Facility Type:			

CONSTRAINED SITE DESIGN STANDARDS

CONSTRAINED DESIGN STANDARDS	DESIGN DETAILS	YES	NO	COMMENTS

REQUIRED	**F) Constrained Redevelopment Site Standards** *The applicable redevelopment site is for a site that has greater than 75% impervious area, and the permittee has determined that is it not practicable to meet any of the base design standards. The permittee's determination shall include an evaluation of the applicable redevelopment sites ability to install a control measure without reducing surface area covered with the structures .*	**The applicable redevelopment site has greater than 75% impervious area?**	☐	☐	
		Provide an evaluation of the infeasibility of Base Design Standards and justification for use of Constrained Site Standard.			
☐	**Constrained WQCV Standard** *The control measure(s) is designed to provide treatment of the WQCV for the area captured. The captured area shall be 50% or more of the impervious area of the applicable redevelopment site. Evaluation of the minimum drain time shall be based on the pollutant removal mechanism and functionality of the control measure implemented.*	**Provides Treatment of WQCV?**	☐	☐	
		BMP Type:			
		% of site treated:			
☐	**Constrained Pollutant Removal Standard** *The control measure is designed to provide treatment for the 80th percentile storm event. The control measure(s) shall be designed to treat stormwater runoff in a manner expected to reduce the event mean concentration of total suspended solids (TSS) to a median value of 30 mg/L or less.* *A minimum of 50% of the applicable development area including 50% or more of the impervious area of applicable development area shall drain to the control measure(s). This standard does not require that 100% of the applicable redevelopment site area be directed to a control measure(s) as long as the overall removal goal is met or exceeded.*	**Meets Design Standards and Requirements for TSS removal?**	☐	☐	
		BMP Type:			
		% of site treated:			
		TSS mg/L treated:			
☐	**Constrained Runoff Reduction Standard** *The control measure(s) is designed to infiltrate, evaporate, or evapotranspire, through practices such as green infrastructure, a quantity of water equal to 30% of what the calculated WQCV would be if all impervious area for the applicable redevelopment site discharged without infiltration.*	**Meets Design Standards and Requirements for infiltration?**	☐	☐	
		BMP Type:			
		% of site treated:			

This Post-Construction Stormwater Management Design Standards form is to be completed to address water quality requirements only. Flood control may also be required and should be included in project proposals.

DATE	REVISION
06/27/2019	City of Westminster