STORMWATER MANAGEMENT DATA FORM GUIDANCE (Updated May 2020)

The Stormwater Management Data Form was developed by DPW for compliance with the reporting requirements of the County's MS4 permit, effective December 1, 2014 for all new grading permit applications.

The Department has updated the Data Form in May 2020. The updated form is available in Excel format in on the County Web Page at

https://www.aacounty.org/departments/inspections-and-permits/permit-center/forms-and-publications/. Changes include addition of maintenance responsibility and comments columns to the form.

The Department has updated the data form in May 2020. The latest version is 1.1/2020. Changes include addition of maintenance responsibility and comments columns to the form.

The updated Data Form shall be used on all new grading permit applications submitted on or after July 01, 2020. This is also required on revisions to grading permits when changes to the approved Data Form are proposed.

The following pages are from Appendix B of the MS4 permit, which includes the necessary information to complete several of the required fields for each facility, specifically MOE BMP Class and MOE BMP TYPE (pg. 36-38), and MOP LAND USE CODE (pg. 38-40). Note that not all of the information in Appendix B is needed to complete the form. The fields on the spreadsheet for STORM_ID and USGS 12-Digit HUC will be completed by DPW.

Appendix B - BMP Data Reporting and Codes

Reporting Requirements: Prior to this guidance, permittees were required to submit databases to MDE that conformed to Attachment A (Annual Report Databases) of their NPDES MS4 permit. More recently, there have been significant changes to both Maryland's stormwater management program (e.g., ESD) and the CBP reporting requirements. Recognizing these changes, MDE is developing a geodatabase to more efficiently collect and organize the information submitted as part of the NPDES MS4 annual reporting. When this geodatabase is complete, MDE will provide a user guide with specific instruction on the reporting and use of the database. Until this geodatabase is implemented, Table B.1 below, Urban Best Management Practices (BMPs) Associated with GIS Coverage, should be used to submit this information to MDE.

The BMP database will tabulate a list of all BMPs within a jurisdiction. However, the ESD to the MEP mandate requires numerous ESD practices to be installed throughout a site in order to meet stormwater requirements. In these cases, local jurisdictions may enter the system of ESD practices by specifying the number and type of BMPs used to meet the target rainfall requirements (PE_REQ). This data may be entered in the NUM_BMPS and ESD_MEP fields shown below.

B.1. Urban Best Management Practices (BMPs) Associated with GIS Coverage

Column Name	Data Kope	Size	Description
YEAR	NUMBER	4	Annual report year
MDE_STRU_ID	TEXT	8	Unique structure ID ¹
MD_NORTH	NUMBER	8	Maryland grid coordinate (NAD 83 meters) Northing
MD_EAST	NUMBER	8	Maryland grid coordinate (NAD 83 meters) Easting
WATERSHED8DGT	NUMBER	20	Maryland 8-digit hydrologic unit code
WATERSHED12DGT	NUMBER	20	USGS 12-digit hydrologic unit code
STRU_NAMB	TEXT	60	Name of structure
BMP_CLASS	TEXT	1	BMP classification category (see list of BMPs: B, S, or A)
BMP_TYPE	TEXT	-4	Type of BMP structure (see list of BMPs: enter code) ²
NUM_BMPS	NUMBER	4	Number of all BMPs used to meet PB_REQ
ESD_MEP	TEXT	75	Type of all BMPs used to meet PE_REQ
LAND_USB	NUMBER	3	Predominant land use ³
PBRMIT_NO	TEXT	10	Unique permit number
ADDRESS ·	TBXT	50	Structure address
CITY	TEXT.	15	Structure address
STATE	TBXT	2	Structure address
ZIP	NUMBER	10	Sinucture address
on_off_site	TEXT	3	On or offsite structure
CON_PURPOSE	TEXT	4	New development (NBWD), Redevelopment (RBDE), or Restoration (REST)
DRAIN_ARBA	NUMBER	8	Structure drainage area (acres)
IMP_ACRES	NUMBER	8	Structure impervious drainage area (acres)
TOT_DRAIN	NUMBER	8	Total site area (acres)
PE REQ	NUMBER	4	P _B required ⁵
PE_ADR	NUMBER		P _B addressed ⁶

IMP_ACRES_REST	NUMBER	4	Equals IMP_ACRES when PE_ADR = 1 inch (for restoration only)	
RCN_PRE	NUMBER	2	Runoff cutve number (weighted) ⁷	
RCN_POST	NUMBER	2	Runoff curve number (weighted) ⁷	
RCN_WOODS	NUMBER	2	Runoff curve number (weighted) ⁷	
APPR_DATE	DATE/TIME	8	Permit approval date	
BUILT_DATE	DATE/TIME		As Built completion date	
GEN_COMNT	TEXT		General comments	
AND STANDED	TIONALDA	PA RE	QUIKEMENTS FOR ALL ALTERNATIVE BMPS	
TN_RED	NUMBER	12	Total load reduced after restoration (lbs)	
TP_RED	NUMBER	12	Total load reduced after restoration (lbs)	
TSS_RED	NUMBER		Total load reduced after restoration (lbs)	
IN_TOYD	NUMBER		Load before restoration (lbs)	
TP_LOAD	NUMBER		Load before restoration (lbs)	
TSS_LOAD	NUMBER		Load before restoration (lbs)	
PROJECT_LENGTH	NUMBER	6	For stream restoration, shoreline stabilization, or outfall stab in feet	
ACRES_SWEPT	NUMBER	6	Acres swept for street sweeping	
TIMES_SWEPT	NUMBER	6	Number of times per year area is swept	
ACRES_PLANTED	NUMBER	6	Acres of trees planted on urban impervious (IMPF)	
ACRES_PLANTED	NUMBER	6	Acres of trees planted on pervious (FPU)	
IMPERV_ACR_REM	NUMBER		Impervious acres removed to pervious land (IMPP)	
EQ_IMP_ACRES	NUMBER	6	Equivalent impervious acres treated by alternative BMP (see Table 7)	
a Para San Add	UTIONALIDA	TATU	QUITEMENTS FOR STREAM RESTORATION	
NAME_OF_PROJECT	TEXT		Name of project	
DESCR_OF_PROJECT	TEXT	75	Brief description of project	
PERCENT_IMPERV	NUMBER		Watershed percent imperviousness	
TSS_LOAD	NUMBER	12	Watershed TSS load before restoration (lbs/year)	
IN_LOAD	NUMBER	12	Watershed TN load before restoration (lbs/year)	
TP_LOAD	NUMBER	12	Watershed TP load before restoration (lbs/year)	
PROTOCOL(S) OR INTERIM RATE	, TBXT	8	Protocol 1 (P1), Protocol 2 (P2), Protocol 3 (P3); or interim rate (IR)	
TSS_RED_P1	NUMBER	10	TSS load reduction (lbs/year) for P1	
TN RED P1	NUMBER		TN load reduction (lbs/year) for P1	
TP_RED_P1	NUMBER	10	TP load reduction (lbs/year) for P1	
PRELENGTH_LT	NUMBER		Left side pre-restoration stream length connected to floodplain where bank height ratio is 1.0 or less	
PRBLENGTH_RT	NUMBER		Right side pre-restoration stream length connected to floodplain where bank height ratio is 1,0 or less	
PREWIDTH_LT	NUMBER	10	The left side pre-restoration stream width taken from the thalweg to the edge of connected side of stream, as indicated by bank height ratio of 1.0 or less	
PREWIDTH_RT	NUMBER		The right side pre-restoration stream width taken from the thalweg to the edge of connected side of stream, as indicated by bank height ratio of 1.0 or less	
POSTLENGTH_LT	NUMBER	10	Loft side post restoration stream length connected to floodplain where bank height ratio is 1.0 or less	
POSTLENGTH_RT	NUMBER	10	Right side post restoration stream length connected to floodplain where bank height ratio is 1.0 or less	
POSTWIDTH_LT	NUMBER	10	The left side post restoration stream width taken from the thalweg to the edge of connected side of stream, as indicated by bank height ratio	

•			of 1.0 or less	
POSTWIDTH_RT	NUMBER		The right side post restoration stream width taken from the thalweg to the edge of connected side of stream, as indicated by bank height ratio of 1.0 or less	
TSS_RBD_P2	NUMBER	10	TSS load reduction (lbs/year) for P2	
TN_RED_P2	NUMBER	10	TN load reduction (lbs/year) for P2	
TP_RBD_P2	NUMBER	10	TP load reduction (lbs/year) for P2	
UP_DRAIN_AREA	NUMBER	6	Upstream area draining to stream restoration project	
PP_WETLAND_ARBA	NUMBER	б	Area (acres) of floodplain/wetland connected to stream	
RATIO_FP_UPDA	NUMBER	3	Ratio of FP_WETLAND_ARBA to UP_DRAIN_ARBA	
TSS_RFF_P3	NUMBER	10	TSS loading rate reduction efficiency (percent) for P3	
TN_EFF_P3	NUMBER	10	TN loading rate reduction efficiency (percent) for P3	
TP_RPF_P3	NUMBER	10	TP loading tate reduction efficiency (percent) for P3	
TSS_RED_P3	NUMBER	10	TSS load reduction (lbs/year) for P3	
TN_RED_P3	NUMBER	10	TN load reduction (lbs/year) for P3	
TP RED P3	NUMBER	10	TP load reduction (lbs/year) for P3	
TSS_RED_IR	NUMBER	10	TSS load reduction (lbs/year) for IR	
IN_RED_IR	NUMBER	10	TN load reduction (lbs/year) for IR	
TP_RED_IR	NUMBER	10	TP load reduction (lbs/year) for IR	
REASON FOR USING INTERIM RATE	TEXT		Brief explanation of why interim rate was used in place of protocols	
			PTION/MAINDINANGEDATA	
			EVELOPMENTER BEROEIT AND AUTERNATIVIE BMRS	
BMP_STATUS	TEXT		Pass/Pail '	
LAST_INSP_DATE	DATE/TIME	8	Last inspection date	
MAIN_DATE	DATE	- 8	Last dato maintenance was performed	
RBINSP_STATUS	DATE/TIME	4	Pass/Pait	
RBINSP_DATA	DATE/TIME	4	Reporting Year	
RBPORTING YBAR	TEXT	8	Date last change made to this record	
GEN_COMNT	TEXT	60	General comments	

MDE Approved BMP Classifications

HADE EXPLOYED THE CHASHICHEOUS				
TESD BATES AND THE STATE OF THE				
Category	Code	Code Description		
ZKliemauyeSmiages(A)				
B	AGRE	Green Roof – Extensive		
В	AGRT	Green Roof - Intensive		
В.	ÅPRP	Permeable Pavements		
E	ARTF	Reinforced Turf		
Noustrichtal Teami	giles (N)			
В	NDRR	Disconnection of Rooftop Runoff		
В	NDNR	Disconnection of Non-Rooftop Runoff		
B	NSCA	Sheetflow to Conservation Areas		
Mitroshinichas(M)				
В	MRWH	Rainwater Harvesting		
B	MSGW	Submerged Gravel Wetlands		
В	MILS	Laudscape Infiltration		
B	MIBR	Infiltration Berms		
В	MIDW	Dry Wells		
В	MMBR	Micro-Bloretention		

B MSWG Grass Swale B MSWG Wet Swale B MSWW Wet Swale B MSWB Bio-Swale Structure Developed S PWBD Extended Detention Structure, Wet S PWBT Retention Pond (Wet Pond) S PMS Multiple Pond System S PMS Multiple Pond System S PMS Micropool Extended Detention Pond Weijhirts (W) S WSHW Shallow Marsh S WSHW Shallow Marsh S WRDW BD — Wetland S WPKT Pocket Wetland Binitication (t) S WRTW Not Pond — Wetland S WFKT Pocket Wetland Binitication (t) S JBAS Infiltration Basia S ITRN Infiltration Trench Biffeeing Systems (F)) S FSND Sand Fifter S FPRR Perimeter (Sand) Filter S FPRR Perimeter (Sand) Filter S FORG Organic Filter (Peat Filter) S FBIO Bioretention S Dioretention S OWSW Wet Swale Oibrytheudiss (C) S XDBD Batended Detention Structure, Dry S XDBD Other		13		
B MSWB Bio-Swale B MSWB Bio-Swale B MSWB Bio-Swale B MSWB Bio-Swale B MENP Enhanced Filters Structural Bist INS Rollis (P) S PWBD Extended Detention Structure, Wet S PWBT Retention Pond (Wet Pond) S PMBD Multiple Pond System S PFKT Pocket Pond S PMBD Micropool Extended Detention Pond Weblank (W) S WSHW Shallow Marsh S WRDW BD - Wetland S WPWS Wet Pond - Wetland S WPWS Wet Pond - Wetland S WPKT Pocket Wetland S IBAS Infiltration Basin S ITRN Infiltration Trench Bilineau (N) S PBIO Bloretention S PBIO Bloretention S PFRR Perlineter (Sand) Filter S PORG Organic Filter (Peat Filter) S PBIO Bloretention S PBIO Bloretenti	В	MRNG	Rain Gardens	
B MSWB Bio-Swale Bhanced Filters Standing Balance Blook (E) S PWBD Extended Detention Structure, Wet S PWBT Retention Pond (Wet Pond) S PWBT Retention Pond (Wet Pond) S PPKT Pocket Pond S PPKT Pocket Pond S PMBD Micropool Extended Detention Pond Wednitis (W) S WSHW Shallow Marsh S WFDW RD Wetland S WPWS Wet Pond — Wetland S WPWS Wet Pond — Wetland S WPKT Pocket Wetland Bittletation(I) S JBAS Infiltration Basin S JTRN Infiltration Trench Bilitration Systems (B) S PBIO Bloretention S FSND Sand Filter S PPBR Perimeter (Sand) Filter S PPBR Perimeter (Sand) Filter S PBIO Bloretention S FORG Organic Filter (Peat Filter) S PBIO Bloretention S PBIO Bloretention S S PBIO Bloretention S FORG Organic Filter (Peat Filter) S PBIO Bloretention S S PBIO Bloretention S S PBIO Bloretention S S PBIO Bloretention S PBIO Bloretention S S PBIO Bloretention Open Claudis (C) S DDSW Dry Swale S OWSW Wet Swale Oilbe Chrutica (C) S XDRD Extended Detention Structure, Dry Pond) S XDRD Extended Detention Structure, Dry Pload Management Area S XOGS Oil Gril Separator				
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S XOGS Oli Grit Separator	\$	XFLD		
		XOGS		
	S	XOTH		

MDE Approved Alternative BMP Classifications

	MDE Approved Alternative Dist. Classifications		
AND INVITED (A)	Code la	2:Gaile Description	
A	MSS	Mechanical Street Sweeping	
A	VSS	Regenerative/Vacuum Street Sweeping	
A	IMPP	Impervious Surface Blimination (to pervious)	
A	IMPF	Impervious Surface Elimination (to forest)	
A	FPU	Planting Trees or Forestation on Pervious Urban	
A	CBC	Catch Basin Cleaning	
A	SDV	Storm Drain Vacuuming	
A	STRE	Stream Restoration	
Λ	OUT	Outfall Stabilization	
A	SPSC	Regenerative Step Pool Storm Conveyance	
A	SHŞT	Shoreline Management	
A	SEPP	Septic Pumping	
Λ	SRPD	Septic Denitrification	

	A	SEPC	Septic Connections to WWTP	
-	21.7			

Notes:

- Use unique simeture identification codes listed below 1.
- For BSD to MEP, enter the most predominant BMP type
- Use Maryland Office of Planning (MDP) land use codes listed below 3.
- 4. GIS shapefile required
- Rainfell target (from Table 5.3, Design Manual pp.5,21-22) used to determine ESD goals and size practices (for new development or redevelopment). If practice is for restoration, then PB_REQ is 1 inch. 5.
- Rainfell addressed (using both BSD techniques and practices, and structural practices) by the BMPs within the drainage area Optional information should be submitted if available,

Unique Structure Identification Codes: Each stormwater best management structure or water quality improvement project will need a unique identification code. For management of these data statewide it is necessary that these codes also indicate the jurisdiction where they are implemented. Please use the County, City, or State abbreviations listed below as part of each structure's unique identification code.

unisitetim	Codecus
Anne Arundel County	AA
Baltimore City	BC
Baltimore County	BA
Carroll County	CA
. Charles County	CH
Frederick County	FR
Harford County	HA
Howard County	HO
Prince George's County	PG
Montgomery County	MO
Maryland State Highway Administration	· SHA

MDP Land Use/Land Cover

10 Urban Built-up

- 11 Low Density Residential-Detached single family/duplex dwelling units, yards, and associated areas. Areas of more than 90 percent single family/duplex dwelling units, with lot sizes less than five acres but at least one-half acres (0.2 dwelling units/acre to 2 dwelling units/acre).
- 12 Medium Density Residential Detached single family/duplex, attached single unit row housing, yards, and associated areas. Areas of more than 90 percent single family/duplex units and attached single unit row housing, with lot sizes of less than one-half acre but at least one-eighth acre (2 dwelling units/acre to 8 dwelling units/acre).
- 13 High Density Residential Attached single unit row housing, garden apartments, high rise apartments/condominiums, mobile home and trailer parks. Areas of more than 90 percent high density residential units, with more than 8 dwelling units/acre.
- 14 Commercial Retail and wholesale services. Areas used primarily for the sale of products and services, including associated yards and parking areas.
- 15 Industrial Manufacturing and industrial parks, including associated warehouses, storage yards, research laboratories, and parking areas.

- 16 Institutional Elementary and secondary schools, middle schools, junior and senior high schools, public
 and private colleges and universities, military installations (built-up areas only, including buildings and storage,
 training, and similar areas) churches and health facilities, correctional facilities, and government offices and
 facilities that are clearly separable from the surrounding land cover.
- 17 Extractive Surface mining operations, including sand and gravel pits, quarries, coal surface mines, and deep coal mines. Status of activity (active vs. abandoned) is not distinguished.
- 18 Open Urban Land Urban areas whose use does not require structures, or urban areas where non-conforming uses characterized by open land have become isolated. Included are golf courses, parks, recreation areas (except associated with schools or other institutions), cemeteries, and entrapped agricultural and undeveloped land within urban areas.
- 191 Large Lot Subdivision (Agriculture) Residential subdivisions with lot sizes less than 20 acres but at least 5 acres, with a dominant land cover of open fields or pasture.
- 192 Large Lot Subdivision (Forest) Residential subdivisions with lot sizes less than 20 acres but at least 5 acres, with a dominant laud cover of deciduous, overgreen or mixed forest.

20 Agriculture

- 21 Cropland Field and forage crops.
- 22 Pasture Land used for pasture, both permanent and rotated: grass.
- 23 Orchards/Vineyards/Hortlculture Areas of intensively managed commercial bush and tree crops, including areas used for fruit production, vineyards, sod and seed farms, nurseries, and green houses.
- 24 Feeding Operations Cattle or hog feeding lots, poultry houses, and holding lots for animals, and
 commercial fishing areas (including oyster beds).
- 241 Recding Operations Cattle or hog feeding lots, poultry houses, and holding lots for animals.
- 242 Agricultural Building Breeding and training facilities, storage facilities, built-up areas associated with a
 farmstead, small farm ponds, and commercial fishing areas.
- 25 Row and Garden Crops Intensively managed track and vegetable farms and associated areas.

40 Forest

- 41 Deciduous Forest Forested areas in which the trees characteristically lose their leaves at the end of the
 growing season. Included are such species as oak, hickory, aspen, sycamore, birch, yellow poplar, clim, maple,
 and cypress.
- 42 Evergreen Forest Forested areas in which the trees are characterized by persistent foliage throughout the
 year. Included are such species as white pine, pond pine, hemlock, southern white cedar, and red pine.
- 43 Mixed Forest Forested areas in which neither decidnous or evergreen species dominate, but in which there is a combination of both types,
- 44 Brush Areas that do not produce timber or other wood products but may have out-over timber stands, abandoned agriculture fields, or pasture. These areas are characterized by vegetation types such as sumac, vines, rose, brambles, and tree seedlings.
- 50 Water Rivers, waterways, reservoirs, ponds, bays, estuaries, and ocean,

60 Wetlands - Forested and non-forested wetlands, including tidal flats, tidal and non-tidal marshes, and upland swamps and wet areas.

70 Barren Land

- 71 Beaches Extensive shoreline areas of sand and gravel accumulation, with no vegetative cover or other land use.
- 72 Bare Exposed Rock Areas of bedrock exposure, scarps, and other natural accumulations of rock without vegetative cover.
- 73 Bare Ground Areas of exposed ground caused naturally, by construction, or other cultural processes.

80 Transportation - Transportation features include major highways, light rail or metro stations and large "Park N Ride" lots, generally over ten acres in size. Major highways were defined a those appearing on the State Highway maps as Controlled Access Highways or Primary Highways.