The Stormwater Geodata Transfer Standard [draft version 0.6]

Guide to the materials and how to provide comments

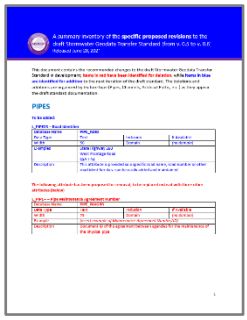
Released: June 28, 2021

Summary and context. The eventual goal of the Metro Stormwater Geodata Project is to create and publish a multi-purpose stormwater geodata standard that has been created with the input and expertise of the professional community who both creates and uses this kind of data. This document is intended to orient the viewer or user to the various resources and materials being published for public review and how to provide comments.

Second round of stakeholder and public review. The project has been in continuous operation and development since Spring 2018 and the present draft version of the standard (Version 0.6) is being offered for a 60-day public review period. This draft version reflects input, comments, suggestions, and recommendations of the professional community as collected during April-December 2020. This next iterative version is being offered again for second round of public review prior to being delivered the Geospatial Advisory Council's Standards Committee for their consideration as a candidate for review and approval (anticipated in late 2021)

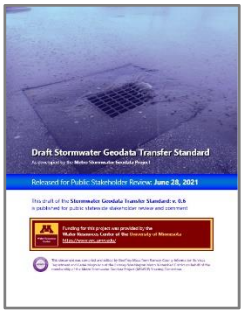
Guide to the documents forming the Stormwater Geodata Transfer Standard, draft 0.6 As this draft standard is large and complex, several concurrent documents contain the materials in contains. These are provided to assist and facilitate public review and comprehension of the detail contents of the standard.

Changes between version 0.5 and 0.6



This 34-page document lists out the specific changes recommended from the prior version and the updated version (Word.doc and PDF format).
The document is organized by features type: Pipes, Channels, Artificial Paths, etc. as they appear the main standard document. Of note, the changes are not to the general structure, rather, some features have been added, some removed, domains expanded and others moved to a place in the standard more suitable as per the review of the MSWGP Steering Team.

Draft Version 0.6 of the Stormwater Geodata Transfer Standard



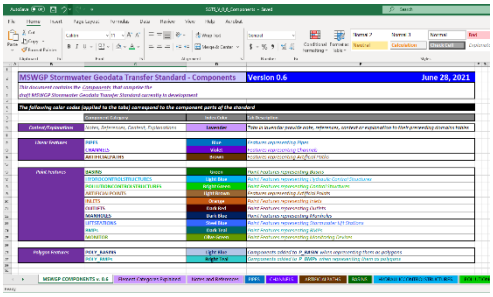
This 171-page document contains the complete draft version 0.6 document.

The document is organized by feature type: Pipes, Channels, Artificial Paths, etc. and each attribute listed is described in detail in addition to numerous illustrations and photos of specific examples of stormwater fixtures for context.

Additionally, each attribute is assigned a reference marker (e.g. **L_PIPE.6** for 'Pipe Lining', where L = linear feature, PIPE.6 = sixth attribute in the pipe feature, or **P_BASN.9** where P = point feature and BASN.9 = ninth attribute in the basin feature)

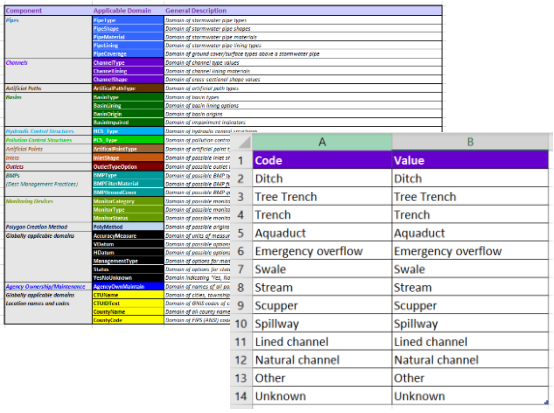
Excel spreadsheet version of Stormwater Geodata Transfer Standard, v. 0.6

An Excel spreadsheet version of the attributes in the standard is available. Each feature type is color coded to match those in the Word/PDF version of the document for easy cross referencing.



Excel spreadsheet version of domain values for the features in the Stormwater Geodata Transfer Standard, v. 0.6

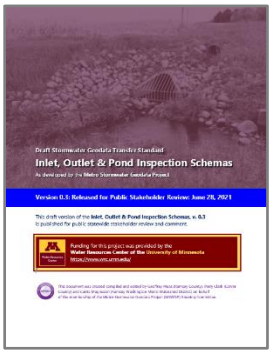
A significant feature of this data schema is the set of domain values for the various feature types and attributes. These are available in a spreadsheet that is color coded to match the other documents. Additionally, there are many notes and marginalia in each tab explaining what features are, what terms mean and why some features are included or excluded in a domain of values.



	A	B
1	Code	Value
2	Ditch	Ditch
3	Tree Trench	Tree Trench
4	Trench	Trench
5	Aquaduct	Aquaduct
6	Emergency overflow	Emergency overflow
7	Swale	Swale
8	Stream	Stream
9	Scupper	Scupper
10	Spillway	Spillway
11	Lined channel	Lined channel
12	Natural channel	Natural channel
13	Other	Other
14	Unknown	Unknown

Inlet/Outlet/Basin Inspection Schema, draft v.0.3

In addition to the stormwater geodata standard, the MSWGP project has also produced an inspection schema for inlets, outlets and basins to assist in MS4 reporting documentation. A 41-page Word.doc and PDF of this inspection schema are available as well as Excel spreadsheet versions. The changes between v. 0.2 to v. 0.3 were predominantly very minor editing and typographical corrections.



MS4 INLET INSPECTION SCHEMA [V. 0.3, DRAFT]

Element #	Name/Alias	Database Name	Type
MS4_IN.PK	Primary Key (ID of Inspection Report)	IN_PKEY	Text
MS4_IN.FK	Foreign Key (ID of Asset Inspected)	IN_FKEY	Text
MS4_IN.01	Inspection Date	INSP_DATE	Date
MS4_IN.02	Inspector	IN_INSPEC	
MS4_IN.03	Agency	IN_AGENCY	
MS4_IN.04	Temperature	IN_TEMP	
MS4_IN.05	Rainfall in Last 24hrs	IN_RAIN24	
MS4_IN.06	Rainfall in Last 48hrs	IN_RAIN48	
MS4_IN.07	Flow Present	IN_FLOWPRE	
MS4_IN.08	Flow Description	IN_FLOWDESC	
MS4_IN.09	Odor	IN_ODOR	
MS4_IN.10	Odor Severity	IN_ODORSV	
MS4_IN.11	Color	IN_COLOR	
MS4_IN.12	Color Severity	IN_COLORSV	
MS4_IN.13	Turbidity Severity	IN_TURBSV	

MS4 OUTLET INSPECTION SCHEMA [v. 0.3, DRAFT]

Element #	Name/Alias	Database Name	Type	Width
MS4_OUT.PK	Primary Key (ID of Inspection Report)	O_PKEY	Text	150
MS4_OUT.FK	Foreign Key (ID of Asset Inspected)	O_FKEY	Text	150
MS4_OUT.01	Inspection Date	O_INSDATE	Date	Default
MS4_OUT.02	Inspector	O_INSPCR	Text	
MS4_OUT.03	Agency	O_AGENCY	Text	
MS4_OUT.04	Presence of Outfall	O_OUTFALL	Text	
MS4_OUT.05	Temperature	O_TEMP	Doub	
MS4_OUT.06	Rainfall in Last 24hrs	O_RAIN24	Doub	
MS4_OUT.07	Rainfall in Last 48hrs	O_RAIN48	Doub	
MS4_OUT.08	Submerged	O_SUB	Text	
MS4_OUT.09	Sediment	O_SEDIM	Text	
MS4_OUT.10	Flow Present	O_FLOWPRES	Text	
MS4_OUT.11	Flow Description	O_FLOWDSC	Text	
MS4_OUT.12	Odor	O_ODOR	Text	
MS4_OUT.13	Odor Severity	O_ODORSV	Text	

MS4 POND INSPECTION SCHEMA [DRAFT, v. 0.3]

Element #	Field Name	Database Name	Type	Width
MS4_PB.PK	Primary Key	PB_PKEY	Text	150
MS4_PB.FK	Foreign Key	PB_FKEY	Text	150
MS4_PB.01	InspectionDate	PB_INSDATE	Date	Default
MS4_PB.02	Inspector	PB_INSPECT	Text	254
MS4_PB.03	Agency	PB_AGENCY	Text	254
MS4_PB.04	Temperature	PB_TEMP	Double	Default
MS4_PB.05	Weather	PB_WEATHER	Text	254
MS4_PB.06	OutletWoodyGrowth	PBO_WOODG	Text	2
MS4_PB.07	OutletStructures	PBO_STRUCT	Text	2
MS4_PB.08	OutletUndercutting	PBO_UNDERCT	Text	2
MS4_PB.09	OutletErosion	PBO_EROSN	Text	2
MS4_PB.10	OutletRiprap	PBO_RIPRAP	Text	2
MS4_PB.11	OutletSediment	PBO_SEDIMT	Text	2

Providing comments on the draft data standard materials. The MSWGP Steering Team welcomes input, recommendations, suggestions, and feedback from the entire stakeholder community on how to improve these materials. Please send your comments, suggestions, questions, and input to:

Geoffrey Maas, Senior Geospatial Business Analyst
Ramsey County Information Services
geoffrey.maas@co.ramsey.mn.us