

February 27, 2023

Jon Kenning, Chief Water Protection Bureau Department of Environmental Quality PO Box 200901 Helena, MT 59620-0901

Subject: 2022 Small MS4 Annual Report: Individual Permit Number MT0031844

Dear Mr. Kenning:

Currently, the Montana Department of Transportation (MDT) holds the following small MS4 permits that are administratively extended under the 2010 MS4 General Permit: MTR040001 – Billings, MTR040002 – Bozeman, MTR040004 – Great Falls, MTR040005 – Kalispell, MTR040006 – Butte, MTR040007 – Missoula, MTR040009 – Helena, and MTR040010 – Yellowstone County.

In previous permit cycles, MDT held co-permittee status for each of the above permits except for MT040009 – Helena, which was sole permittee. During the 2015 renewal process, MDT made the decision to apply for an individual Montana Pollutant Discharge Elimination System (MPDES) permit. The application for this individual permit was submitted to your agency on November 24, 2014. A Notice of Completeness for MDT's application was received on December 19, 2014, providing the Individual MPDES Permit number MT0031844. The letter also provided notice under the Administrative Rules of Montana 17.30.1313 that our current permit authorizations would be administratively extended until such time your agency issues an individual permit.

Subsequent email correspondence with your agency in January 2016 indicated MDT had the option to submit one annual report under the individual permit MT0031844 to cover the currently administratively extended permit authorizations. For clarity and efficiency, MDT is submitting a single annual report. MDT's Storm Water Management Plan (SWMP) is applied uniformly statewide in all of Montana's small MS4s. By submitting one annual report for MDT's Individual Permit MT0031844, repetition of information will be eliminated. Any information specific to one permit will reference only that specific permit (i.e. MTR04--) or the MS4 Area.

MDT has extensive staff and a budget specifically devoted to environmental compliance and performance. Additionally, MDT staff are expected to participate in environmental compliance and stewardship activities in their work efforts. In 2022, MDT continued ongoing improvements in support of the MS4 program. Of note, MDT would like to highlight the following major achievements accomplished this past year:

- Provided a Comprehensive Storm Water Management Training class which reviewed the updated MDT MS4 management program.
- Issued a draft final SWMP in May 2022 and solicited additional public feedback;
- Developed an MDT facility and activity inventory;
- Completed an annual update to MDT's Illicit Discharge Detection and Elimination (IDDE) Investigation and Corrective Action Plan (CAP).
- Reconciled newly collected outfall data with historic data;
- Identified high priority areas and outfalls in accordance with IDDE CAP;
- Continued mapping data collection efforts for other storm water conveyances;
- Refined and updated MS4 maps which will include high priority designations and other pertinent mapping layers;
- Provided training for MDT environmental personnel on implementation of IDDE investigation and CAP, Emergency Response Plan, MDT's updated SWMP, and MS4 mapping data collection procedures;
- Finalized Facility Pollution Prevention Plan (FPPP) updates and provided site-specific training for MDT maintenance personnel on implementation;
- Planned training for MDT pre-construction personnel on Permanent Erosion and Sediment Control (PESC) and LID design components;
- Drafted protocols for identifying high-priority post-construction storm water management controls and inspection frequency;
- Updated MDT's external and internal MS4 websites;
- Investigated possibility of developing an online reporting tool specific to IDDE and storm water construction complaints;
- Prioritized funding with MDT Maintenance for implementation of additional Best Management Practices (BMP) at MDT facilities located in MS4s;
- Evaluated MDT's Maintenance Manuals and tracking systems for incorporation of MS4 operations and maintenance requirements;
- Coordinated with MDT Hydraulics to formalize processes associated with runoff reduction requirements for post-storm water management controls and finalized the LID analysis form;
- Initiated effort to develop storm water discharge monitoring program in anticipation of future permit requirements; and
- Created a yearly tracking calendar to facilitate MS4 management and oversight.

Additionally, MDT is continuing to evaluate potential MS4 program improvements. For 2023, several initiatives have been identified as follows:

- Incorporate an Illicit discharge and complaint reporting tool by December 31, 2023.
- Create an online storm water construction complaint reporting tool and incorporate by December 31, 2023. Track by the date incorporated to website.
- Develop MDT IDDE Field Guide.
- Develop Storm Water Management Plan Review Checklist.
- Update MDT's website in 2023 and include the ability to report complaints.
- Develop criteria for determining when offsite treatment will be allowed on MDT projects and conduct a formal review and approval process for these determinations.
- Develop an Inventory of post-construction management controls.
- Coordinate with Maintenance to develop a post-construction checklist.
- Develop a protocol, in coordination with MDT Maintenance Division, to determine priority and minimum inspection frequency for post-construction storm water controls.
- Coordinate with Maintenance to develop a post-construction checklist.
- Complete mapping for Facility Data that was collected for each MS4 facility in 2022.
- Develop and distribute a poster for use at MDT facilities showing the various pollutants associated with MDT facilities and best practices to manage them.
- Develop a list of potential non-storm water discharges identified as significant contributors of pollutants (i.e., illicit discharges).

Please find attached an original signature copy of the 2022 MPDES Small MS4 Annual Report Form (MS4-AR). Appendices are identified within the provided form and attached. The comprehensive annual report is signed and certified as a whole document.

If you have any questions or concerns, please contact Tom Gocksch at 406.444.9412 or Walt Ludlow at 406.444.9227. They will be pleased to assist you.

Tom S. Martin, P.E. Environmental Services Bureau Chief

Rail, Transit and Planning Division Administrator copies: Rob Stapley Highways and Engineering Division Administrator Dustin Rouse, P.E. Missoula District Administrator Bob Vosen, P.E. Butte District Administrator Geno Liva P.E. Great Falls District Administrator Jim Wingerter, P.E. Billings District Administrator (Acting) Mike Taylor, P.E. Kalispell Maintenance Chief Justun Juelfs Missoula Maintenance Chief Steve Felix Bozeman Maintenance Chief Ted Jones Butte Maintenance Chief Jim Pesanti Great Falls Maintenance Chief Harry Barnett **Billings Maintenance Chief** Tom Tilzey Missoula District Construction Engineer John Schmidt, P.E. Butte District Construction Engineer (Acting) Dave Cunningham, P.E. Rich Hibl, P.E. Great Falls District Construction Engineer Ted Thronson **Billings District Construction Supervisor** Michael Ivanoff, P.E. Missoula District Environmental Engineering Specialist Butte District Environmental Engineering Specialist Rich Nehl, P.E. Ben LaVoie, P.E. Great Falls District Environmental Engineering Specialist Terry Callahan, P.E. Billings District Environmental Engineering Specialist Andrew Fletcher Glendive District Environmental Engineering Specialist JD Buck, P.E. Statewide Environmental Engineering Specialist Jon Swartz Maintenance Division Administrator Doug McBroom Maintenance Operations Manager Mike Murolo Maintenance Facilities Manager Damian Krings, P.E. **Highways Engineer** Dave Hedstrom, P.E. Hydraulics Engineer Tom Martin, P.E. Environmental Services Bureau Chief Tom Gocksch, P.E. Environmental Services Engineering Section Supervisor Walter Ludlow, P.E. Field Services Unit Supervisor

			Agency Use					
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm Wa	ater Small MS	54 Annual Repor	•t Form			
This form is to be completed by each permittee or co-permittee authorized to discharge storm water under the <i>General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System (MS4)</i> . All authorized permittees or co-permittees are required to complete this Annual Report Form for each calendar year the facility is authorized as required in Part IV.I. of the General Permit and to submit it (postmarked) no later than March 1 st following the respective calendar year reporting period. For co-permittees authorized under one permit authorization and for co-permittees with multiple permit authorizations, you are required to complete this form and all items on it exclusively for your particular Small MS4 and Storm Water Management Program (SWMP) within your respective regulated Small MS4 area. The Department has attached instructions for this form in order to help with the completion of item responses. If additional space is needed for item responses, you may include attachments noting the section and item number.								
Section A - Per MS4 Annual Rep What size popula	mit Authorizatio port for Calendar Y ntion does your MS	n Number for Fa Year 34 serve?	acilityN $2 0 \frac{2}{2} \frac{2}{2}$ 0 (No Resident	1TR04 0 0 0 1 Population)				
Section B - Fac Small MS4 Name Zip Code 59107 Latitude 45.787 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Billings Zip Code 59101-59108;59111-59112;59114-5911 County Yellowstone Latitude 45.787397 Longitude -108.499947 Small MS4 Type: Federal State County City/Town Other							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Title Bureau Chief-Environmental Services Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879								
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as imp	paired on the Monta	una 303(d) List?]Yes 🗆 No			

	Agency Use							
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of ENVIRONMENTAL QUALITY							
FORM MS4-AR	MPDI	ES Storm V	Water Small MS	84 Annual Repor	•t Form			
This form is to be completed by each permittee or co-permittee authorized to discharge storm water under the <i>General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System (MS4)</i> . All authorized permittees or co-permittees are required to complete this Annual Report Form for each calendar year the facility is authorized as required in Part IV.I. of the General Permit and to submit it (postmarked) no later than March 1 st following the respective calendar year reporting period. For co-permittees authorized under one permit authorization and for co-permittees with multiple permit authorizations, you are required to complete this form and all items on it exclusively for your particular Small MS4 and Storm Water Management Program (SWMP) within your respective regulated Small MS4 area. The Department has attached instructions for this form in order to help with the completion of item responses. If additional space is needed for item responses, you may include attachments noting the section and item number.								
Section A - Per MS4 Annual Rep What size popula	mit Authorizatio port for Calendar Y ntion does your MS	n Number for Year 54 serve?	FacilityM $2 0 \frac{2}{2} \frac{2}{2}$ 0 (No Resident)	/TR04 0 0 0 2 Population)				
Section B - Fac Small MS4 Nam Zip Code 59718 Latitude 45.688 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Bozeman Zip Code 59715,59716,59719, and 59772 County Gallatin Latitude 45.68873 Longitude -111.03194 Small MS4 Type: Federal State ✓ County City/Town							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879								
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as i	mpaired on the Monta	nna 303(d) List?]Yes 🗌 No			

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	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm Wa	ater Small MS	84 Annual Repor	•t Form			
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Section A - Per MS4 Annual Rep What size popula	Section A - Permit Authorization Number for Facility MTR04 0 0 0 4 MS4 Annual Report for Calendar Year 2 0 2 2 What size population does your MS4 serve? 0 (No Resident Population)							
Section B - Fac Small MS4 Name Zip Code 5940 Latitude 47.523 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Great Falls Zip Code 59401 through 59406 County Gallatin Latitude 47.52378 Longitude -111.30896 Small MS4 Type: Federal State ✓ County City/Town Other							
Sman Wise Type. Federal								
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as imp	paired on the Monta	ana 303(d) List?]Yes 🗆 No			

	Agency Use							
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm Wa	iter Small M	84 Annual Repo	rt Form			
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Section A - Per MS4 Annual Rep What size popula	mit Authorizatio port for Calendar Y ntion does your MS	n Number for Fa Year 34 serve?	cility N $2 0 \frac{2}{2} \frac{2}{2}$ 0 (No Resident	/TR04 <u>0</u> <u>0</u> <u>5</u> Population)				
Section B - Fac Small MS4 Name Zip Code 59707 Latitude 48.197 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Kalispell Zip Code 59701 County Flathead Latitude 48.1978 Longitude -114.3161 Small MS4 Type: Federal State ✓ County City/Town Other							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879								
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as impa	aired on the Monta	ana 303(d) List?	🛛 Yes 🛛 No			

	Agency Use							
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm Wat	er Small MS	84 Annual Repoi	rt Form			
This form is to be completed by each permittee or co-permittee authorized to discharge storm water under the <i>General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System (MS4)</i> . All authorized permittees or co-permittees are required to complete this Annual Report Form for each calendar year the facility is authorized as required in Part IV.I. of the General Permit and to submit it (postmarked) no later than March 1 st following the respective calendar year reporting period. For co-permittees authorized under one permit authorization and for co-permittees with multiple permit authorizations, you are required to complete this form and all items on it exclusively for your particular Small MS4 and Storm Water Management Program (SWMP) within your respective regulated Small MS4 area. The Department has attached instructions for this form in order to help with the completion of item responses. If additional space is needed for item responses, you may include attachments noting the section and item number.								
Section A - Per MS4 Annual Rep What size popula	Section A - Permit Authorization Number for FacilityMTR04 0 006MS4 Annual Report for Calendar Year $2 0 2 2$ 2What size population does your MS4 serve?0 (No Resident Population)							
Section B - Fac Small MS4 Name Zip Code 5970 Latitude 45.968 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Butte Zip Code 59701 and 59702 County Silver Bow Latitude 45.9688 Longitude -112.5158 Small MS4 Type: Federal State ✓ County City/Town Other							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879								
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as impair	red on the Monta	nna 303(d) List?]Yes 🗌 No			

Agency Use								
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality WATER DROTECTION DUREAL							
FORM MS4-AR	MPDI	ES Storm W	ater Small M	S4 Annual Re	port Form			
This form is to be completed by each permittee or co-permittee authorized to discharge storm water under the <i>General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System (MS4)</i> . All authorized permittees or co-permittees are required to complete this Annual Report Form for each calendar year the facility is authorized as required in Part IV.I. of the General Permit and to submit it (postmarked) no later than March 1 st following the respective calendar year reporting period. For co-permittees authorized under one permit authorization and for co-permittees with multiple permit authorizations, you are required to complete this form and all items on it exclusively for your particular Small MS4 and Storm Water Management Program (SWMP) within your respective regulated Small MS4 area. The Department has attached instructions for this form in order to help with the completion of item responses. If additional space is needed for item responses, you may include attachments noting the section and item number.								
Section A - Per	mit Authorizatio	n Number for F	'acility	MTR04000	7			
MS4 Annual Rer	ort for Calendar V	^v ear	2022		<u> </u>			
What size popula	tion does your MS	54 serve?	0 (No Resident	Population)				
Section B - Fac Small MS4 Name Zip Code 59802 Latitude 46.866 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Missoula Zip Code 59802 County Missoula Latitude 46.86667 Longitude -114.0000 Small MS4 Type: Federal State ✓ County City/Town Other							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620								
	,							
Section D - Wa 1. Does your M	ter Quality Prior	ities aters listed as im	paired on the Mont	ana 303(d) List?	🗹 Yes 🗌 No			

			Agency Use					
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm W	ater Small M	84 Annual Repor	rt Form			
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Section A - Permit Authorization Number for Facility MTR04 0 0 9 MS4 Annual Report for Calendar Year 20222								
What size popula	ation does your MS	54 serve?	0 (No Resident	Population)				
Section B - Fac Small MS4 Nam Zip Code 59607 Latitude 45.589 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Helena Zip Code 59601 & 59602 County Lewis and Clark Latitude 45.58925 Longitude -111.9937 Small MS4 Type: Federal State ✓ County City/Town							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Title Bureau Chief-Environmental Services Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879 Pole Section Pole Section								
Section D - Wa 1. Does your M	Section D - Water Quality Priorities 1. Does your MS4 discharge to waters listed as impaired on the Montana 303(d) List? ☑ Yes							

		Ад	ency Use					
Permit No.:				Date Rec'd	Rec'd By			
	Montana Department of Environmental Quality							
FORM MS4-AR	MPDI	ES Storm Wat	ter Small MS	S4 Annual Repo	rt Form			
This form is to be completed by each permittee or co-permittee authorized to discharge storm water under the <i>General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System (MS4)</i> . All authorized permittees or co-permittees are required to complete this Annual Report Form for each calendar year the facility is authorized as required in Part IV.I. of the General Permit and to submit it (postmarked) no later than March 1 st following the respective calendar year reporting period. For co-permittees authorized under one permit authorization and for co-permittees with multiple permit authorizations, you are required to complete this form and all items on it exclusively for your particular Small MS4 and Storm Water Management Program (SWMP) within your respective regulated Small MS4 area. The Department has attached instructions for this form in order to help with the completion of item responses. If additional space is needed for item responses, you may include attachments noting the section and item number.								
Section A - Per MS4 Annual Rep What size popula	mit Authorization port for Calendar Y ation does your MS	n Number for Fac Tear 34 serve?	ility N 2 0 <u>2</u> <u>2</u> 0 (No Resident	/TR04 <u>0</u> <u>0</u> <u>1</u> <u>0</u> Population)				
Section B - Fac Small MS4 Name Zip Code 5910 Latitude 45.787 Small MS4 Type	Section B - Facility or Site Information (See instructions.): Small MS4 Name MDT MS4- Billings Zip Code 59101-59108;59111-59112;59114-5911 County Yellowstone Latitude 45.787397 Longitude -108.499947 Small MS4 Type: Federal State County City/Town Other							
Section C - Applicant (Owner/Operator) Information Contact Person: Name Tom Martin Owner or Operator Montana Dept. of Transportation Mailing Address PO Box 201011 City, State, and Zip Code Helena, MT 59620 Phone Number (406) 444-0879								
Section D - Wa 1. Does your M	S4 discharge to wa	ities aters listed as impai	ired on the Monta	ana 303(d) List?]Yes □No			

2.	If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each,
	and whether the TMDL assigns a wasteload allocation to your MS4. Use a new line for each impairment, and
	attach additional pages as necessary.

anach aughnonar pages as	necessaly.			
Impaired Water	Impairment	Approved TMDL	TMDL assigns MS4	s WLA to
See Appendix D	**See Appendix D**	🗆 Yes 🖾 No	□ Yes	✓ No
		🗆 Yes 🗹 No	□ Yes	🗹 No
		🗆 Yes 🗹 No	□ Yes	⊿ No
		🗆 Yes 🗹 No	\Box Yes	☑ No
		🗆 Yes 🗹 No	\Box Yes	⊿ No
		□ Yes ☑ No	\Box Yes	☑ No
		$\Box Yes \square No$		☑ No
		∐ Yes ∠ No	∐ Y es	✓ No
 What specific sources con Program? See Appendix L, Section D.3 re 	ntributing to the impairment(s) are garding specific sources targeted.	you targeting in your St	torm Water Ma	inagement
4. Do you discharge to any "	"high-quality waters" (as defined	in 75-5-103, MCA)?	🗹 Yes	🗆 No
5. Are you implementing ad- integrity?	ditional specific provisions to ens	ure their continued	✓ Yes	🗆 No
If yes, what are they?				
MDT contractors are contract	ually obligated to follow all applicable	e water quality protection la	aws.	
Section E - Public Education	on and Public Participation	nts and sources of those		
pollutants?	sogram targeting specific ponuta	its and sources of mose	✓ Yes	🗆 No
2. If yes, what are the specif	ic sources and/or pollutants addre	ssed by your public edu	cation program	?
Litter, vehicle fluid leaks, salt/	/sediment from sanding operations, a	and sediment from MDT co	onstruction proje	cts.
 Note specific successful <u>o</u> publications) fully or part We currently do not have qua 	<u>outcome(s)</u> (e.g., quantified reduct ially attributable to your public ec intified outcomes.	ion in fertilizer use; Do lucation program during	Not List tasks, this reporting	events, period.
4. Do you have an advisory stakeholders that provides	committee or other body comprises regular input on your SWMP?	ed of the public and othe	er 🗆 Yes	⊡ No
1	5 1 5 5	see Appendix L, Section E.	.4 for additional i	nformation
Section F - Construction	_			
1 Do you have an ordinanc	e or other regulatory mechanism	stinulating		
Erosion and sediment cou	e of other regulatory meenumsing		✓ Yes	□ No
		See Appendix L,		
Other construction waste	control requirements?	Section F.1 for detai		
Requirement to submit co	onstruction plans for review?	iniornation.		
MS4 enforcement author	ity?		✓ Yes	∐ No
2. Do you have written proc	cedures for:			
Reviewing construction r	olans?	See Appendix I	✓ Yes	🗆 No
Performing inspections?		Section F.2 for detai	iled 🗹 Yes	🗆 No
Responding to violations'	9	information.	☑ Yes	□ No

🗆 No

☑ Yes

3. Identify the number of active construction sites, greater than or equal to 1 acre, in operation in your jurisdiction at any time during the reporting period. See Appendix L, F.3						
4.	How many	of the sites identified in F	3. did you inspec	t during this reporting period?	See Appendiz	x L, F.4
5. S	Describe, o See Appendix	on average, the frequency x L, Section F.5	with which your S	WMP conducts construction si	te inspection	S.
6.	Do you pri	oritize certain construction	n sites for more fre	equent inspections?	✓ Yes	□ No
S	If yes, bas See Appendix	ed on what criteria? x L, Section F.6				
7.	Identify wh constructio	nich of the following types on activities, indicate the m	of enforcement a umber of actions,	ctions you used during the repo or note those for which you do	orting period not have aut	for hority:
	□ Yes	Notice of violation	#0 (zero)	No Authority 🗹		
	□ Yes	Administrative fines	#0 (zero)	No Authority 🗹		
	□ Yes	Stop Work Orders	#0 (zero)	No Authority 🗆		
	□ Yes	Civil penalties	#0 (zero)	No Authority 🗹		
	<u> </u>	Criminal actions	#0 (zero)	No Authority 🔽		
	☐ Yes	Administrative orders	#0 (zero)	No Authority 🗹		
	✓ Yes	Other Contract Enlorce	#0 (Zero)			
9. <u>N</u> 10.	 8. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in					
Sec 1.	tion G - Il Have you	llicit Discharge Eliminati	on tfalls and receivin	g waters of your storm sewer	☑ Yes	□ No
2.	Have you of storm sewe	completed a map of all sto er system?	rm drain pipes and	d other conveyances in the	□ Yes	☑ No
3	Identify th	a number of outfalls in vo	ur storm sawar sy	stem See Appendix L, G.3.		
5.	Number of	f Major outfalls Appendix	L, G.3 N	umber of Minor Outfalls Appe	- endix L, G.3	
	Are these t	numbers estimated or mea	Int		,	
1	Do you ha	ve decumented procedure	including frague	now for corooning outfollo?	Yes	🗖 No
4.	Do you na	ve documented procedures	s, menualing freque	See Appe	ndix L, Sectior	ו G.4.
5.	Of the outh period? S	falls identified in G.3., how see Appendix L, G.5.	w many were scree	ened for dry weather discnarge	s during this	reporting
6.	Of the outh you obtain	falls identified in G.3., how ed MS4 permit coverage?	w many have been All of them	screened for dry weather discl	harges at any	time since
7. T	What is yo size/type. The DEES pe	our frequency for screening prform dry weather screening	g outfalls for illicit at each outfall once	t discharges? Describe any var e per permit cycle per BMP-IDDE	iation based	on VMP.

8. D ill	Do you have an ordinance or other regulatory mechanism that effectively prohibitslicit discharges?See Appendix L, Section G.8 for detailed information.	□ Yes	☑ No
9. D	To you have an ordinance or other regulatory mechanism that provides authority for out to take enforcement action and/or recover costs for addressing illicit discharges?	□ Yes	☑ No
10 D	See Appendix L, Section G.9 for	detailed info	rmation.
10. D	5 - See App. O-9 & O-10	:overed?	
11. O el	Of those illicit discharges/illegal connections that have been discovered or reported, how r liminated? 2	nany have	been
12. H 	Iow often do municipal employees receive training on the illicit discharge program? Fraining is to be performed annually for key personnel.		
Sectio	on H - Storm Water Management for Municipal Operations		
1. H	lave storm water pollution prevention plans (or an equivalent plan) been developed for:		
А	All public parks, ball fields, other recreational facilities and other open spaces?	🗆 Yes	🗹 No
А	All municipal construction activities, including those disturbing less than 1 acre?	☑ Yes	🗆 No
А	All municipal turf grass/landscape management activities?	🗆 Yes	☑ No
А	All municipal vehicle fueling, operation and maintenance activities?	✓ Yes	🗆 No
А	All municipal maintenance yards?	✓ Yes	🗆 No
А	All municipal waste handling and disposal areas?	🗆 Yes	🗸 No
Other M	r DT is not a municipality. Items checked 'no' are not under MDT jurisdiction. See Appendix L, H.1	for more info	D.
2. A	are storm water inspections conducted at these facilities?	☑ Yes	— □ No
3. If	f yes, at what frequency are inspections conducted? MDT facilities are inspected monthl	y per FPPP	
4. Li	ist activities for which operating procedures or management practices specific to storm wave been developed (e.g., road repairs, catch basin cleaning).	ater manag	gement
Ple	ease see Appendix L, Section H.4 for more information.		
5. D in	Oo you prioritize certain municipal activities and/or facilities for more frequent aspection?	□ Yes	🗹 No
6. If	f yes, which activities and/or facilities receive most frequent inspections?		
N//	Ά		
7. D	The original employees and contractors overseeing planning and implementation f storm water-related activities receive comprehensive training on storm water	🛛 Ves	— □ No
m	nanagement? See Appendix L, Section H.7 for detailed information.	. 105	
8. If	f yes, do you also provide regular updates and refreshers?	☑ Yes	🗆 No
9. If	f so, how frequently and/or under what circumstances?		
Pe	ertinent MDT employees are provided with training at least once per permit cycle with updates as	needed.	

Sec	tion I - Long-term (Post-Construction) Storm Water Measures	See Appendix I		
1.	Do you have an ordinance or other regulatory mechanism to require:	Section I.1 for detai	led	
	Site plan reviews for storm water/water quality of all new and re-develo	pment	☑ Yes	🗆 No
	Long-term operation and maintenance of storm water management cont Retrofitting to incorporate long-term storm water management controls	rols? ?	☑ Yes ☑ Yes	□ No □ No
2. N	If you have retrofit requirements, what are the circumstances/criteria? IDT requirements are specified in the Permanent Erosion and Sediment Contro	l Manual (PESC Mar	nual).	
3. 	What are your criteria for determining which new/re-development storm all projects, projects disturbing greater than one acre, etc.) Il projects under MDT jurisdiction within a MS4 area are reviewed.	i water plans you w	vill review	r (e.g.,
4.	Do you require water quality or quantity design standards or performance either directly or by reference to a Montana or other standard, be met for development and re-development?	e standards, r new	🗹 Yes	□ No
5.	Do these performance or design standards require that pre-development	hydrology be met f	for:	
	Flow volumes?		□ Yes	🛛 No
	Peak discharge rates?		🗹 Yes	□ No
	Discharge frequency?		🗹 Yes	🗆 No
	Flow duration?		□ Yes	🗹 No
6. ⊦	Please provide the URL/reference where all post-construction storm wat found. ydraulics, PESC, and Maintenance Manuals (http://www.mdt.mt.gov/publication	er management sta ns/manuals.shtml)	ndards ca	n be
7.	How many development and redevelopment project plans were reviewed assess impacts to water quality and receiving stream protection? 1009	d during the reporti % - See Appendix L,	ng period I.7	to
8.	How many of the plans identified in I.7. were approved? <u>100% - See</u>	Appendix L, I.8		
9.	How many privately owned permanent storm water management practic the reporting period? <u>N/A - Not within MDT authority</u>	es/facilities were in	nspected c	luring
10.	How many of the practices/facilities identified in I.9. were found to have N/A	e inadequate mainte	enance?	
11.	How long do you give operators to remedy any operation and maintenan inspections?	ce deficiencies ide	ntified du	ring
	eficiencies are to be corrected as soon as practicable considering pertinent fac	tors, such as safety.		
12.	Do you have authority to take enforcement action for failure to properly maintain storm water practices/facilities?	operate and	☑ Yes	🗆 No
	If yes, what authority?			
F	lease see Appendix L, Section I.12.			
13.	How many formal enforcement actions (i.e., more than a verbal or writte adequately operate and/or maintain storm water management practices?	en warning) were ta 0 (zero)	aken for fa	ailure to

14.	Do you use an electronic tool (e.g., construction BMPs inspections and	GIS, database, sprea	adsheet) to	track post-	✓ Yes □ No		
15.	Do all municipal departments and/o	r staff (as relevant)	have acces	ss to this tracking	Information ✓ Yes □ No		
16.	How often do municipal employees	receive training on	the post-co	onstruction program?	As Needed		
Sec	tion J - Storm Water Managemer	nt Program Resour	ces				
1.	What was the annual expenditure to MS4 specific budget not tracked	implement MS4 pe ee Appendix L, Sectio	rmit requi	rements this reporting	period?		
2.	What is next year's budget for imple	ementing the require	ements of	your MS4 MPDES per	mit? Undetermined		
3.	This year what is/are your source(s) percentage) derived from each?	of funding for the N	MS4 SWM	IP, and annual revenue	e (amount or		
	Source: MDT Environmental Services	Buleau Buugei		Amount \$	OR %		
	Source. MDT Maintenance Budgets			Amount \$	OR %		
		nighway design and co	onstruction	Amount \$	OR %		
4.	How many FTEs does your municip implementing the Storm Water Mar responsibilities)?	bality devote to the S agement Program;	Storm Wat not munici	er Management Progra pal employees with ot	am (specifically for her primary		
5	Do you share Storm Water Manager	L, Section J.4	mentation	responsibilities			
5.	with any other entities?	ment i rogram impre		responsionnes	∐ Yes 🗹 No		
Ent N/A	ity Activity/	Task/Responsibility		Your Oversight/Accou	ntability Mechanism		
Sec	tion K - Evaluating/Measuring P	rogress					
1.	 What indicators do you use to evaluate the overall effectiveness of your Storm Water Management Program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall Storm Water Management Program, such as macro-invertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc. 						
Ind	licator	(year)	Frequence	ey	Locations		
	·						
2.	What environmental quality trends Management Program? Reports or s they may be found on the Web.	have you documente summaries can be at	ed over the tached electron	e duration of your Stor ctronically, or provide	m Water the URL to where		

Section L - Additional Information

In the space below, please include any additional information on the performance of your MS4 Storm Water Management Program. If providing clarification to any of the questions on this form, please provide the question number (e.g., I.5.) in your response.

Please see Appendix L for additional information.

Section M - Additional Detailed Information: Storm Water Discharge Monitoring

In the space below, please provide the "Evaluation of Storm Water Quality Monitoring Test Results" based on the requirements in Part IV.A.6. of the General Permit. Please also use this space to describe and evaluate any other storm water discharge monitoring which may have occurred during this reporting period.

Per Part IV.A.5 of the 2010 General Permit, MDT is not required to provide Storm Water Quality Monitoring.

Section N - Additional Detailed Information: Summary of Compliance and/or Status of SWMP

Please provide a summary of compliance with respect to General Permit requirements, and the development/implementation of your SWMP. In this section, each permittee must describe the status of SWMP activities and components. Responsible persons, agencies, departments or co-permittees must be included. Each activity/component must specify established goals or performance standards. *(See instructions.)*

Minimum Control Measure Name	General Permit Condition Item Number	SWMP Activity or Component Name	Brief Description of SWMP Activity or Component	Responsible Agency, Department, or Organization; and Person or Position	Development of SWMP Item Completed and/or In Effect (Yes or No, Explain)	Measurable Goal or Performance Standard Utilized
Public Education and Outreach on Storm Water Impacts	II.B.1.					
Public Involvement/ Participation	II.B.2.	*: S	*Please see upplementa	Appendix I informatio	N for n. **	
Illicit Discharge Detection and Elimination (IDDE)	II.B.3.					
Construction Site Storm Water Runoff Control	II.B.4.					
Post- Construction Storm Water Management in New Development and Redevelopment	II.B.5.					
Pollution Prevention/Good Housekeeping for Municipal Operations	II.B.6.					

Section O - Additional Detailed Information: Summary of Activities and Description of SWMP Effectiveness During Past Year

Please describe the previous year's activities for the actual implementation of your SWMP and highlight the SMWP's effectiveness, preferably using quantitative indicators. *(See instructions.)*

SWMP Activity or Component Name				
Minimum Control Measure Name (If Applicable)				
General Permit Condition Item Number (If Applicable)	**Ple supp	ase see Appe lemental inforr	ndix O for mation. **	
Brief Description of Planned SWMP Action Taken				
Responsible Agency, Department, or Organization; and Person or Position				
Measurable Goal or Performance Standard Utilized				
Quantitative Indicators Used and Results				
Impact On SWMP Effectiveness				

Section P - Additional Detailed Information: Planned Activities and Changes During Next Year

In attached documentation, please describe activities planned for the next year for the actual implementation of your SWMP, highlighting any changes made to improve control measures and SWMP effectiveness. *(See instructions.)*

SWMP Activity or Component Name Minimum Control Measure Name (If Applicable)	MDT has applied for a Individual Permit; MDT's SWMP and associated BMPs will be evaluated/updated in accordance with the requirements as listed in the Individual Permit. **Please see Appendix P for additional info.**			
General Permit Condition Item Number (If Applicable)				
Brief Description of Planned SWMP Action Taken				
Responsible Agency, Department, or Organization; and Person or Position				
Measurable Goal or Performance Standard Utilized				

Section Q - CERTIFICATION

Applicant Information: This form must be completed, signed, and certified as follows (see Section V.K. of the General Permit):

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Applicants Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

including the possibility of fine and impriso	nment for knowing violations. [75-5-633, MC	A]
A. Name (Type or Print)		
Tom Martin		
B. Title (Type or Print)		C. Phone No.
Chief - Environmental Services Bureau		(406) 444-0879
D. Signature	REVIEWED/ALITHORIZED	E. Date Signed
Ja	By Tom Martin at 2:52 pm, Feb 27, 2023	
The Department will not process this form u	until all of the requested information is supplie	ed. Return this form to:

Department of Environmental Quality Water Protection Bureau PO Box 200901 Helena, MT 59620-0901 (406) 444-3080

APPENDIX D

WATER QUALITY PRIORITIES

The Montana Department of Environmental Quality's (MDEQ) Clean Water Act Information Center (CWAIC) was accessed on January 19, 2022, to verify impaired water(s) and associated impairment(s) within each Municipal Separate Storm Sewer System (MS4). The CWAIC mapping features and detailed water quality summaries were used to verify impaired waters within the MS4 boundaries as identified in Montana Department of Transportation's (MDT) MS4 maps. Approved Total Maximum Daily Load (TMDL) documents, as well as MDEQ's 2017 *General Permit for Storm Water Discharges Associated with Small Municipal Separate Storm Sewer Systems* (MDEQ, 2017), were also accessed to verify Waste Load Allocations (WLA) for each MS4. For those causes of impairment with a TMDL and a WLA designated as not applicable (N/A) in the table below, a TMDL and WLA would not be developed for this cause of impairment but would be developed for an associated pollutant (e.g., algae would not have a WLA, but a WLA would be developed for nitrogen and phosphorus.) The following tables outline the findings specific to each MDT Permit Authorization.

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL ¹	TMDL Assigned WLA to MS4
Canyon Creek (MT43F002_021)	Yes	Flow regime modification	N/A	N/A
		Algae	N/A	N/A
		Arsenic	No	TBD
		Benthic Macroinvertebrates	N/A	N/A
Vallowstopa Pivor		Dissolved Oxygen	No	TBD
(MT43F001 010)	Yes	Eutrophication	No	TBD
(Oil and Grease	No	TBD
		Periphyton (Aufwuchs) Indicator Bioassessments	N/A	N/A
		Sediment	No	TBD
		Cause Unknown	N/A	N/A
		Chlorophyll-a	N/A	N/A
Vallowstopa Divor		Nitrate/Nitrite (Nitrite + Nitrate as N)	No	TBD
	Yes	Oil and Grease	No	TBD
(1011451001_0117		Other anthropogenic substrate alterations	N/A	N/A
		Physical substrate habitat alterations	N/A	N/A

MDT Permit Authorization: MTR040001 Billings MS4

N/A = Not Applicable

¹ Yellowstone Watershed is listed as a MDEQ priority area scheduled for TMDL completion after 2022.

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL	TMDL Assigned WLA to MS4 ²
Bridger Creek	No	Chlorophyll-a	N/A	N/A
(MT41H003_110)	NO	Nitrate/Nitrite (Nitrite + Nitrate as N)	Yes	Yes*
		Algae	N/A	N/A
Bear Creek	No	Alteration in stream-side or littoral vegetative covers	N/A	N/A
(WI141H003_081)		Phosphorus (Total)	Yes	Yes*
		Sedimentation-Siltation	Yes	Yes**
East Gallatin River	Vac	Nitrogen (Total)	Yes	Yes*
(MT41H003_010)	res	Phosphorus (Total)	Yes	Yes*
Mandeville Creek	Yes	Nitrogen (Total)	Yes	Yes*
(MT41H003_021)		Phosphorus (Total)	Yes	Yes*
		Alteration in stream-side or littoral vegetative covers	N/A	N/A
Sourdough		Chlorophyll-a	N/A	N/A
(Bozeman Creek)	Yes	Escherichia coli	Yes	Yes*
(W1141H003_040)		Nitrogen (Total)	Yes	Yes*
		Sedimentation-Siltation	Yes	Yes**

МОТ	Dormit	Authorization.	MTR0/0002	Bozeman	МСЛ
	Permit	Authorization.	IVI I KU4UUUZ	Dozeman	10134

*The MS4s were assigned a WLA of 0 pounds per day (lbs/day) when the storm water system is not activated. When the storm water system is activated, MDEQ assumes the WLAs are met by adhering to the permit requirements and using monitoring as an adaptive management approach to minimize pollutant loads (MDEQ, 2017).

**Percent reduction allocations were developed for the MS4s. MDEQ assumes adhering to permit Best Management Practices (BMPs) and other requirements equates to meeting the WLAs (MDEQ, 2017).

N/A = Not Applicable

² Per MDEQ's 2017 *General Permit for Storm Water Discharges Associated with Small Municipal Separate Storm Sewer Systems* (MDEQ, 2017), WLAs apply to all MS4s that were co-permittees at the time of the *Lower Gallatin Planning Area TMDLs and Framework Water Quality Improvement Plan* (MDEQ, 2013) development; therefore, WLAs are aggregated and not individually assigned to each MS4.

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL ³	TMDL Assigned WLA to MS4
		Chromium (total)	No	TBD
		Mercury	No	TBD
Missouri Pivor		Physical substrate habitat alterations	N/A	N/A
(MT410001 011)	Yes	Polychlorinated biphenyls	No	TBD
(1011410001_011)		Sedimentation-Siltation	No	TBD
		Selenium	No	TBD
		Turbidity	No	TBD
Missouri River (MT41Q001_022)	Yes	Sedimentation-Siltation	No	TBD
	No	Lead	No	TBD
Sand Coulee Creek		Salinity	No	TBD
(101141Q002_040)		Zinc	No	TBD
		Flow regime modification	N/A	N/A
Curra Discon		Nitrogen (Total)	Yes	No
Sun Kiver (NATA1K001, 020)	Yes	Phosphorus (Total)	Yes	No*
(101141K001_020)		Sedimentation-Siltation	Yes	No
		Total Suspended Solids (TSS)	Yes	No

MDT Permit Authorization: MTR040004 Great Falls MS4

*Although no MS4 WLAs were developed for the Lower Sun River, to meet the intent of the TMDL goals and future recommendations, Great Falls MS4 must follow their permit requirements, evaluate potential impacts to impaired receiving waters, and utilize monitoring to implement an adaptive management approach to minimize pollutant loads (MDEQ, 2017).

N/A = Not Applicable

³ Missouri River – Three Forks to Marias Watershed is listed as a MDEQ priority area scheduled for TMDL completion after 2022.

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL	TMDL Assigned WLA to MS4
		Flow regime modification	N/A	N/A
Middle Achley Creek		Nitrogen (Total)	Yes	Yes*
	Yes	Phosphorus (Total)	Yes	Yes*
(1011700002_020)		Sedimentation-Siltation	Yes	Yes*
		Temperature	Yes	No**
		Alteration in stream-side or littoral vegetative covers	N/A	N/A
		Chlorophyll-a	N/A	N/A
Lower Ashley Creek	Yes	Dissolved Oxygen	Yes	No
(MT76O002_030)		Nitrate-Nitrite (Nitrite + Nitrate as N)	Yes	No
		Nitrogen (Total)	Yes	Yes*
		Phosphorus (Total)	Yes	Yes*
		Sedimentation-Siltation	Yes	Yes*
		Temperature	Yes	No**
		Alteration in stream-side or littoral	N/A	N/A
		Arsenic	No	TBD
		Dissolved Oxygen	Yes	No
Spring Creek	Vee	Flow Regime Modification	N/A	N/A
(MT760002_040)	Yes	Nitrate-Nitrite (Nitrite + Nitrate as N)	Yes	No
		Nitrogen (Total)	Yes	Yes*
		Phosphorus (Total)	Yes	Yes*
		Physical substrate habitat alterations	N/A	N/A
Stillwater River	Yes	Alteration in stream-side or littoral vegetative covers	N/A	N/A
(MT76P001_010)	165	Sedimentation-Siltation	Yes	Yes*

MDT Permit Authorization: MTR040005 Kalispell MS4

*Percent reduction allocations were developed for the City of Kalispell MS4. MDEQ assumes adhering to permit BMPs and other requirements equates to meeting the WLAs (MDEQ, 2017).

**Although no MS4 WLAs were developed for Ashley Creek, to meet the intent of the TMDL goals and future recommendations, City of Kalispell MS4 must follow the minimum control measures provided in the MPDES permit authorization for permit MTR04005, or any subsequent permit renewals (MDEQ, 2014).

N/A = Not Applicable

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL	TMDL Assigned WLA to MS4
		Arsenic	Yes	Yes*
		Cadmium	Yes	Yes*
	Yes	Copper	Yes	Yes*
		Lead	Yes	Yes*
		Mercury	Yes	Yes*
SIIVER BOW CREEK*		Nitrate	Yes	No
(101700005_020)		Nitrogen (Total)	Yes	Yes**
		Phosphorus (Total)	Yes	Yes**
		Physical substrate habitat alterations	N/A	N/A
		Sedimentation-Siltation	Yes	Yes***
		Zinc	Yes	Yes*

MDT Permit Authorization: MTR040006 Butte MS4

*The WLAs in lbs/day were assigned to the Butte-Silver Bow MS4. MDEQ assumes adhering to permit BMPs and other requirements equates to meeting the WLAs (MDEQ, 2017).

** The Butte-Silver Bow MS4 was assigned a WLA of 0 lbs/day when the storm water system is not activated. When the storm water system is activated, MDEQ assumes the WLAs are met by adhering to the permit requirements and using monitoring as an adaptive management approach to minimize pollutant loads (MDEQ, 2017).

***Percent reduction allocations were developed for the Butte-Silver Bow MS4. MDEQ assumes adhering to permit BMPs and other requirements equates to meeting the WLAs (MDEQ, 2017).

N/A = Not Applicable

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL	TMDL Assigned WLA to MS4
Bitterroot River	Voc	Alteration in stream-side or littoral vegetative covers	N/A	N/A
(MT76H001_030)	Tes	Lead	Yes	No
		Temperature	Yes	No
		Alteration in stream-side or littoral vegetative covers	N/A	N/A
		Arsenic	Yes	No
		Cadmium	Yes	No
		Chlorophyll-a	N/A	N/A
Clark Fork River	No	Copper	Yes	No
(MT76E001_010)	NO	Iron	Yes	No
		Lead	Yes	s No
		Mercury	Yes	No
		Nitrogen (Total)	Yes	No
		Phosphorus (Total)	Yes	No
		Zinc	Yes	No
	Chlorophyll-a Copper Iron	Chlorophyll-a	Yes	No
		Copper	Yes	Yes*
		Iron	Yes	Yes*
	Yes	Lead	Yes	Yes*
(101176101001_020)		Nitrogen (Total)	Yes	No
		Organic Enrichment	Yes	No
		Phosphorus (Total)	Yes	No
		Arsenic	Yes	Yes*
		Cadmium	Yes	Yes*
Clark Fork River		Copper	Yes	Yes*
	Yes	Iron	Yes	Yes*
		Lead	Yes	Yes*
		Eutrophication	Yes	Yes*
		Zinc	Yes	Yes*
		Alteration in stream-side or littoral vegetative covers	N/A	N/A
		Algae	N/A	N/A
Grant Creek		Flow regime modification	N/A	N/A
(MT76M002_130)	Yes	Nitrate/Nitrite (Nitrite + Nitrate as N)	Yes	Yes*
		Nitrogen (Total)	Yes	Yes*
		Sedimentation-Siltation	Yes	No Yes* Yes* Yes* Yes* Yes* Yes* N/A N/A N/A N/A Yes* Yes* Yes* Yes*
		Temperature	Yes	Yes

	MDT	Permit	Authorization:	MTR040007	Missoula MS4
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*Percent reduction allocations were assigned to the Missoula MS4. MDEQ assumes adhering to permit BMPs and other requirements equates to meeting the WLAs (MDEQ, 2017).

N/A = Not Applicable

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL	TMDL Assigned WLA to MS4	
		Alteration in stream-side or littoral vegetative covers	N/A	N/A	
		Ammonia (Un-ionized)	No	TBD	
		Arsenic	Yes	No	
		Cadmium	Yes	No	
Driekh: Deer Creek		Copper	Yes	No	
	Voc	Lead	Yes	No	
(1011411000_050)	res	Flow regime modifications	N/A	N/A	
		Nitrogen (Total)	Yes	No*	
		Phosphorus (Total)	Yes	No*	
		Physical substrate habitat alterations	N/A	N/A	
		Sedimentation-Siltation	Yes	No*	
	Temperature Zinc	Temperature	No	TBD	
		Zinc	Yes	No	
		Alteration in stream-side or littoral vegetative covers	N/A	N/A	
		Arsenic	Yes	No	
		Cadmium	Yes	No	
Prickly Pear Creek	Voc	Copper	Yes	No	
(MT41I006_040)	res	Lead	Yes	No	
		Physical substrate habitat alterations	N/A	N/A	
		Sedimentation-Siltation	Yes	No*	
		Temperature	Yes	No	
		Zinc	Yes	No	
Tenmile Creek (MT41I006_143)		Alteration in stream-side or littoral vegetative covers	N/A	N/A	
		Arsenic	Yes	No	
			Cadmium	Yes	No
			Copper	Yes	No
		Lead	Yes	No	
	No	Flow regime modifications	N/A	N/A	
		Nitrogen (Total)	Yes	No*	
		Eutrophication	Yes	No	
		Phosphorus (Total)	Yes	No*	
		Sedimentation-Siltation	Yes	No*	
		Zinc	Yes	No	

	MDT Permit	Authorization:	MTR040009	Helena	MS4
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*Although no MS4 WLAs were developed for Tenmile Creek and Prickly Pear Creek, to meet the intent of the TMDL goals and future recommendations, Helena MS4 must follow their permit requirements, evaluate potential impacts to impaired receiving waters, and utilize monitoring to implement an adaptive management approach to minimize pollutant loads (MDEQ, 2017).

N/A = Not Applicable

Impaired Water	MDT Outfall Discharging to Waterbody?	Impairment	Approved TMDL ⁴	TMDL Assigned WLA to MS4
Yellowstone River (MT43F001_010)		Algae	N/A	N/A
		Arsenic	No	TBD
		Benthic Macroinvertebrates	No	TBD
		Dissolved Oxygen	No	TBD
	Yes	Eutrophication	No	TBD
		Oil and Grease	No	TBD
		Periphyton (Aufwuchs) Indicator Bioassessments	cator No	TBD
		Sediment	No	TBD
		Cause Unknown	N/A	N/A
Yellowstone River (MT43F001_011)		Chlorophyll-a	N/A	N/A
		Nitrate/Nitrite (Nitrite + Nitrate as N)	No	TBD
	Yes	Oil and Grease	No	TBD TBD TBD TBD TBD TBD N/A TBD TBD TBD N/A N/A
		Other anthropogenic substrate alterations	N/A	N/A
		Physical substrate habitat alterations	N/A	N/A

MDT Permit Authorization: MTR040010 Yellowstone County MS4

N/A = Not Applicable

⁴ Yellowstone Watershed is listed as a MDEQ priority area scheduled for TMDL completion after 2022.

APPENDIX L

ADDITIONAL INFORMATION

Section D. Water Quality Priorities

D.3. Pollutant sources targeted in MDT's Storm Water Management Program include fertilizer, litter, vehicle fluid leaks, salt and sediment from sanding operations, and sediment from MDT construction projects. Educational, training, plan and policy documents have been developed to address these pollutant sources through various means, including:

- Trash, petroleum products, tire wear pollutants, transportation-related spills, RV septic waste, livestock transport waste.
- Fertilizers, pet waste, fats and greases, floor wax, household waste, used oil, wash water, yard waste, paints, chlorine.
- Deicing materials, sanding, fertilizer, petroleum products, paints.
- Indirect construction related discharge.
- Indirect post-construction related discharges.

Section E. Public Education and Public Participation

E.4. In 2022, MDT solicited public input to its existing Storm Water Management Program (SWMP) through MDT's public involvement process. This process included a public notice to all MS4s, social media posts, a dedicated webpage on MDT's website requesting SWMP feedback, and a notice to the MS4 working group participants. MDT revised its SWMP in 2022 and provided public notice for 30-days and response to comments prior to finalizing.

Unlike a city or county, MDT does not have its own "citizens" to engage. Instead, users of MDT facilities are transient through the MDT system. As such, MDT's public education efforts typically include social media posts to educate and seek input from a wider audience (i.e., roadway users).

Section F. Construction

F.1. MDT does not have ordinances or regulatory mechanisms of its own. To qualify for federal funding, MDT must comply with all applicable federal regulations. The Federal Highway Administration (FHWA) has requirements specifically related to erosion and sediment control during construction. MDT implements contract provisions to obligate MDT contractors to comply with applicable environmental laws, as well as FHWA's erosion and sediment control requirements. In February 2021, MDT finalized and distributed MS4-specific guidance for Plans, Specifications, and Estimates review to ensure inclusion of MS4-required special provisions into contract documents before projects are let for advertising and construction. Additionally, in December 2021, MDT finalized an Enforcement Response Plan (ERP) that outlines enforcement tools available to MDT for potential noncompliance occurring at MDT-administered construction projects and that provides the framework addressing and reporting noncompliance.

F.2. In February 2016, MDT developed MS4-specific written construction and post-construction inspection procedures for environmental staff in order to better define MS4 construction review and inspection targets. MDT's construction contracts require contractors to obtain Montana Pollutant Discharge Elimination System (MPDES) stormwater construction general permit coverage for projects that result in disturbances of 1 or more acres. Contractors are required to perform self-inspections for the purpose of complying with the construction general permit and to provide copies of their MPDES permit package and inspection reports to MDT. Once physical work at the site commences, these projects are slated for oversight inspections by the District Environmental Engineering Specialists (DEES). The DEES must review the contractor's erosion control plan during the initial inspection. The DEES will evaluate the project type, disturbance activities, proximity to waterbodies, and contractor performance to determine the appropriate DEES' oversight inspection frequency. MDT construction personnel also

perform ongoing inspections of construction sites, including BMPs, as part of their regular duties. Findings, along with recommended DEES oversight inspection frequency and rational, are documented in a written environmental inspection report and shared with MDT construction personnel and the Field Services Engineer (FSE). If deficiencies are observed, the contractor will be notified and requested to return to contract compliance. In 2021, MDT finalized an ERP that outlines withholding of payment, stop work orders, assessment of contract time, and other ways of intervening if the contractor fails to follow contract provisions.

F.3, F.4. The following table describes the number of active construction sites in each MS4 disturbing 1 or more acres, as well as the number of any construction sites that were inspected in the MS4s in 2022.

MS4 AREA	ACTIVE CONSTRUCTION SITES ≥1 ACRE IN 2022	NO. CONSTRUCTION SITES INSPECTED IN 2022
MTR040001 (BILLINGS)/MTR040010	2	4
(YELLOWSTONE CO)		
MTR040002 (BOZEMAN)	0	0
MTR040004 (GREAT FALLS)	3	5
MTR040005 (KALISPELL)	0	2
MTR040006 (BUTTE)	0	2
MTR040007 (MISSOULA)	1	4
MTR040009 (HELENA)	0	1

F.5, F.6. The DEES, MDT construction staff, and contractors all perform construction site inspections on MDT projects. For projects that require MPDES construction storm water permit coverage within an MS4, the DEES are required to conduct an initial oversight inspection when physical work at the site commences. After this initial inspection, the DEES inspection frequency is dependent upon an evaluation of the project type, disturbance activities, proximity to waterbodies, contractor performance, etc. Projects with a greater potential for discharge are targeted for more frequent inspections. Once construction is complete and the contract finalization process has been initiated, the DEES conduct an MPDES walk-through with MDT construction and maintenance staff, as well as the contractor. This walk-through process is intended to ensure that post-construction BMPs are adequate and functioning properly until such time final stabilization is achieved.

F.8. Currently, construction personnel track contract issues through AASHTOWARE, an electronic management system. Additionally, MDT environmental staff use an Excel spreadsheet to track MS4 program items, such as construction project inspections and storm water compliance. This Excel spreadsheet has been expanded to include additional information related to inspection findings and contractor performance.

F.10. The DEES provide storm water training at MDT Construction and Maintenance staff meetings within their respective districts at least once per year. Construction and maintenance personnel are also encouraged to complete MDT's on-line SWPPP Administrator and Water Permitting/BMP training programs, which were updated in 2019. DEES and the Statewide Environmental Engineering Specialist (SEES) attend outside training courses, as necessary, for continuing education purposes.

Section G. Illicit Discharge Elimination

G.3, G.4., G.5. MDT's documentation for outfall screening procedures, including frequency, is specified in MDT's Illicit Discharge Detection and Elimination (IDDE) Investigation and Corrective Action Plan

(CAP) which was finalized in 2021. This CAP includes an updated Outfall Visual Assessment form and an illicit discharge incident report form to ensure consistent collection of data. The table below details the number and type of outfalls for each MS4, as well as the number screened in 2022.

MS4 AREA	2022 TOTAL	2022 NO. OF MAJOR	2022 NO. OF MINOR	NO. SCREENED
	OUTFALLS	OUTFALLS	OUTFALLS	IN 2022
MTR040001 (BILLINGS) & MTR40010	23	4	19	17
(YELLOWSTONE CO)				
MTR040002 (BOZEMAN)	14	4	10	4
MTR040004 (GREAT FALLS)	2	1	1	2
MTR040005 (KALISPELL)	10	2	8	5
MTR040006 (BUTTE)	21	3	18	5
MTR040007 (MISSOULA)	24	9	15	18
MTR040009 (HELENA)	9	1	8	8

In 2021, MDT updated and completed mapping of MS4 outfalls statewide using procedures outlined in MDT's *MS4 Outfall Inventory Guidance*. In 2022, this new list of outfalls underwent quality control checks. The new list has been verified, and will be used for future dry weather screening activities and will be provided to MDEQ for assistance in drafting MDT's individual permit.

G.8, G.9. The Montana Legislature did not intend for MDT to function as a regulatory body. As a result, MDT's authority is limited to the statute and rules listed below:

- 27-1-202, Montana Code Annotated (MCA). Right to compensatory damages;
- 27-19-104, MCA. Contents of complaint -- action for injunction by an association;
- 61-10-154, MCA. Department of transportation to adopt motor carrier safety standards -enforcement -- designation of peace officers -- duties -- violations;
- Administrative Rules of Montana (ARM) 18.3.104. Reasons for Debarment.

In 2021, MDT developed an ERP which identifies the enforcement tools for the transportation public and MDT's contractors as well as the escalation process and schedule. MDT follows a procedure of contacting the responsible party and asking them to address the illicit discharge for minor violations with low potential to impact water quality. If this procedure does not resolve the discharge, or there are egregious violations with a potential to impact water quality, it will be reported to the appropriate regulatory agencies of City or County Government and/or MDEQ in accordance with MDT policy and applicable laws. MDT will implement enforcement using contract administration tools for MDT-administered construction projects. Training on the new IDDE CAP and ERP was completed in 2022.

Section H. Storm Water Management for Municipal Operations

H.1. MDT does not own or operate public parks, balls fields, other recreational facilities and open spaces, or waste handling and disposal areas. FPPPs are in place for all MDT maintenance facilities located within an MS4. Additionally, Spill Pollution Controls and Countermeasure (SPCC) plans are in place for primary maintenance facilities that meet petroleum storage regulatory thresholds. If construction activities at an MDT facility occurs, the contractor is contractually obligated to adhere to applicable permit requirements including the construction general permit for activities that disturb 1 acre or more.

Maintenance personnel perform and document monthly FPPP inspections at these facilities. The DEES also conduct annual FPPP reviews and document findings in a report. The annual FPPP reports are used to identify and prioritize funding opportunities for MDT maintenance facility site improvements. In 2021, MDT finalized its FPPP Update and Training procedure and initiated updates to each of MDT's
existing FPPPs and associated inspection checklists. MDT finalized the FPPP updates in 2022 and offered site-specific FPPP training to maintenance personnel.

H.4. All current MDT maintenance facilities within an MS4 have a FPPP in place. The FPPPs provide guidelines for storm water management at MDT facilities and their respective inspection frequencies. All MDT facilities are currently on a monthly FPPP inspection schedule. MDT updated and finalized these FPPPs in 2022.

Additional BMPs for maintenance activities are included in MDT's Maintenance Operations and Procedures Manual. A site-specific O&M Manual has also been developed for the stormwater system associated with the KBP-Foys Lake Road interchange project in Kalispell.

H.7. MDT provides its employees with training specific to storm water. As discussed in Section F, the DEES provide storm water training at MDT Construction and Maintenance staff meetings within their respective districts at least once per year. Construction and maintenance personnel are also encouraged to complete MDT's on-line SWPPP Administrator and Water Permitting/BMP training programs, which were updated in 2019. Additionally, MDT contractors are contractually obligated to adhere to applicable permit requirements including the construction general permit requirement for a certified SWPPP administrator. Detailed, comprehensive storm water training is required to become a certified SWPPP Administrator.

Section I. Long-term (Post-Construction) Storm Water Measures

I.1. MDT does not have regulatory authority to create or enforce ordinances. However, to qualify for federal funding, MDT must comply with applicable federal regulations.

At 23 Code of Federal Regulations (CFR) Part 650, Subpart B, FHWA has requirements specifically related to erosion and sediment control on highway projects. In order to meet these federal regulations, MDT developed and implemented Permanent Erosion and Sediment Control (PESC) Design Guidelines (last updated January 2018), which include evaluation of Low Impact Development (LID) practices for consideration in project design. Specific LID proposals are documented on an MS4 LID form during project development and are incorporated into design plans. The design team reviews these plans at various stage of project development (e.g., 30%, 60%, 95% design) to ensure PESC and LID considerations are adequately addressed. MDT has drafted a revision to the LID form that will be used as a plan review checklist for consistent review of plans for MDT projects to document compliance with state and local post-construction requirements. MDT is in the process of updating a new LID review form.

Once projects are constructed, BMPs associated with operation and maintenance of these long-term storm water controls are addressed in Section E of MDT's Maintenance Operations and Procedures Manual. MDT will be evaluating MDT's Maintenance Manual to ensure it can meet the general MS4 operations and maintenance requirements and will identify modifications to the existing tracking database for documenting inspection and maintenance actions.

For private developments requesting access and/or encroachment onto MDT right-of-way, MDT conducts site plan reviews addressing storm water quantity. Through this review, storm water controls may be required as a condition of the approach and/or encroachment permit.

I.7, I.8. The MDT project development process, from project nomination through design to actual construction, is long and complex. During this process, one project may be reviewed multiple times per year over the course of several years. The need for incorporation of PESC and LID measures is evaluated continuously throughout project design. Section 2.0 of the PESC Manual details the evaluation

and design process. MDT implements a statewide process to analyze the appropriateness of incorporating LID Practices into project designs.

I.12. MDT routinely designs PESC and/or LID measures into the contract plans, as necessary. MDT is able to withhold payment or shut down construction operations if a contractor fails to construct, operate, and/or maintain these measures according to the contract documents. When construction is complete, a project may stay under MDT jurisdiction. In those cases, the operation and maintenance of the storm water facilities, such as a retention basin, may fall to MDT maintenance staff. Some projects, once complete, are returned to local government at which point the city/county takes over responsibility and would have the authorities granted under their Small MS4 program.

I.14. Currently, maintenance personnel track issues through an in-house electronic Maintenance Management System (MMS). Additionally, MDT Environmental personnel utilize an Excel tracking spreadsheet for MS4 program items. MDT is currently exploring ways to improve the process of tracking required data.

Section J. Storm Water Management Program Resources

J.1. MDT has extensive staff and a budget specifically devoted to environmental compliance and performance. Additionally, MDT staff are expected to participate in environmental compliance and stewardship activities in their work efforts. Current budget tracking does not allow separation of total values for MS4 compliance and implementation of the SWMP. That said, ongoing improvements occurred in 2022 in support of the MS4 program and include the following:

- Provided a Comprehensive Storm Water Management Training class which reviewed the updated MDT MS4 management program.
- Issued a draft final SWMP in May 2022 and solicited additional public feedback;
- Developed an MDT facility and activity inventory;
- Completed an annual update to MDT's Illicit Discharge Detection and Elimination (IDDE) Investigation and Corrective Action Plan (CAP).
- Reconciled newly collected outfall data with historic data;
- Identified high priority areas and outfalls in accordance with IDDE CAP;
- Continued mapping data collection efforts for other storm water conveyances;
- Refined and updated MS4 maps which will include high priority designations and other pertinent mapping layers;
- Provided training for MDT environmental personnel on implementation of IDDE investigation and CAP, Emergency Response Plan, MDT's updated SWMP, and MS4 mapping data collection procedures;
- Finalized Facility Pollution Prevention Plan (FPPP) updates and provided site-specific training for MDT maintenance personnel on implementation;
- Planned training for MDT pre-construction personnel on Permanent Erosion and Sediment Control (PESC) and LID design components;
- Drafted protocols for identifying high-priority post-construction storm water management controls and inspection frequency;
- Updated MDT's external and internal MS4 websites;
- Investigated possibility of developing an online reporting tool specific to IDDE and storm water construction complaints;
- Prioritized funding with MDT Maintenance for implementation of additional Best Management Practices (BMP) at MDT facilities located in MS4s;
- Evaluated MDT's Maintenance Manuals and tracking systems for incorporation of MS4 operations and maintenance requirements;

- Coordinated with MDT Hydraulics to formalize processes associated with runoff reduction requirements for post-storm water management controls and finalized the LID analysis form;
- Initiated effort to develop storm water discharge monitoring program in anticipation of future permit requirements; and
- · Created a yearly tracking calendar to facilitate MS4 management and oversight.

J.4. MDT planning, design, construction, and maintenance staff all share responsibilities in implementing MDT's MS4 program. Within MDT's Environmental Services Bureau, 14 staff members are specifically charged with educating MDT personnel and ensuring MS4 program requirements are adhered to statewide. The updated chart below graphically depicts MDT's current MS4 program structure.

The Statewide MS4 Coordinator (also referred to as the MS4 Data Manager) tracks data and facilitates consistency between MDT's multiple MS4 areas. The Environmental Engineering Section Supervisor provides MS4 program management. The Environmental Services Bureau Chief provides program oversight. The FSE and DEES provide MS4 support related to construction and maintenance activities. MDT maintenance and construction staff carry out many duties in support of the MS4 program. The PDEs provide MS4 support related to the pre-construction and developer activities. MDT design and system impact staff carry-out many duties in support of the MS4 program.



APPENDIX N

ADDITIONAL DETAILED INFORMATION: SUMMARY OF COMPLIANCE AND/OR STATUS OF SWMP

SWMP Activity or	MDT Website (Internal/External)	MDT Social Media Posts	MDT Newsline
Component Name	BMP-PEOIP-01	BMP-PEOIP-02	BMP-PEOIP-03
Minimum Control	Public Education and Outreach on Storm	Public Education and	Public Education and
Measure Name (If	Water Impacts & Public	Outreach on Storm Water	Outreach on Storm Water
Applicable)	Involvement/Participation	Impacts	Impacts
General Permit	II.B.1/II.B.2	II.B.1	II.B.1
Condition Item			
Number (If			
Applicable)			
Brief Description	Develop and utilize a website to provide a	Create awareness of storm	Create awareness amongst
of Planned SWMP	variety of storm water educational materials	water specific issues by	MDT stakeholders of
Action Taken	for the public and MDT employees.	utilizing MDT social	storm water related issues.
		media sites (e.g.,	
		Facebook, Instagram).	
Responsible	MDT - SEES	MDT - SEES	MDT - SEES
Agency,			
Department, or			
Organization; and			
Person or Position			
Development of	Yes	Yes	No (MDT Stormwater
SWMP Item			article did not get included
Completed and/or			in 2022 Newsline)
In Effect (Yes/ No)			
Measurable Goal	MDT will increase the number of website	This BMP will be	MDT will publish one
or Performance	visits each year. The number of website	measured by posting 4	storm water related article
Standard Utilized	visits per calendar year will be recorded and	storm water and I illicit	each year in MD1
	reported in the Annual Report.	discharge educational	Newsline.
	MDT will review the website for surrance	Near	The distribution numbers
	of information and make undates by April	year.	will be treeked and
	1 st annually. This will be tracked by	The number of followers	reported in the Annual
	providing a summary of the identified	likes and comments per	Report
	changes and the date the website was	vear will be tracked and	Report.
	undated	reported in the Annual	
	upunou.	Report	
	MDT will develop and publish annual	report	
	report or summary on website. Track by the		
	date incorporated to website.		
	MDT will create an online SWMP feedback		
	reporting tool and incorporate by December		
	31, 2022. Track by the date incorporated to		
	website.		
	MDT will create an online illicit discharge		
	reporting tool and incorporate by December		
	31, 2023. Track by the date incorporated to		
	website.		
	Create an online storm water construction		
	complaint reporting tool and incorporate by		
	December 31, 2023. Track by the date		
	incorporated to website.		

SWMP Activity	Public Outreach Events	Public Feedback	Adopt-A-Highway
or Component	BMP-PEOIP-04	BMP-PEOIP-05	BMP-PEOIP-06
Name			
Minimum Control	Public Education and Outreach on Storm	Public Involvement/	Public Involvement/
Measure Name (If	Water Impacts	Participation	Participation
Applicable)			
General Permit	II.B.1	II.B.2	II.B.2
Condition Item			
Number (If			
Applicable)			
Brief Description	Provide presentations on storm water issues	MDT will issue news	MDT administers a
of Planned	at schools/universities, conferences, civic	releases annually in each	statewide program where
SWMP Action	clubs, libraries, businesses, etc.	MS4 soliciting public	volunteers sign a contract
Taken		feedback on the SWMP.	to provide clean up
			services for a section of
			highway.
Responsible	MDT - DEES	MDT - EESS	MDT - Adopt-A-Highway
Agency,			Program Manager
Department, or			
Organization; and			
Person or Position			
Development of	Yes	Yes	Yes
SWMP Item			
Completed and/or			
In Effect (Yes/No)			
Measurable Goal	Participate in one event each year in each	MDT will issue a 30-day	MDT will maintain or
or Performance	MS4, provide printed materials, and solicit	public notice in each MS4	increase the number of
Standard Utilized	input at each event using the SWMP	soliciting public feedback	miles adopted each year
	feedback form.	on the SWMP by June	under the Adopt-A-
		30^{th} of each year.	Highway program.
	The date, location, and number of people in		
	attendance to the event will be tracked.	Date(s) of the public	The number of miles
	Additionally, the type and number of	notice and the feedback	adopted within each MS4
	printed materials and the number of	received will be reported	will be reported in the
	completed feedback forms and comments	in the Annual Report.	Annual Report.
	received will be tracked.		
	Identify and plan events by March 30 th and		
	conduct the event by December 31 st of each		
	year.		

SWMP Activity	Montana Storm Water Conference	Erosion Control Contractor Stakeholder Group
or Component	Participation	BMP-PEOIP-08
Name	BMP-PEOIP-07	
Minimum	Public Education and Outreach on Storm	Public Involvement and Participation
Control Measure	Water Impacts & Public	-
Name (If	Involvement/Participation	
Applicable)	_	
General Permit	II.B.1/II.B.2	II.B.2
Condition Item		
Number (If		
Applicable)		
Brief Description	MDT personnel to participate in statewide	Create an MDT erosion control subcontractor
of Planned	conference, when offered.	stakeholder group to discuss storm water concerns and
SWMP Action		innovations.
Taken		
Responsible	MDT - EESS, FSE, DEES, Hydraulics	MDT - FSE
Agency,	Engineer	
Department, or		
Organization;		
and Person or		
Position		
Development of	Yes	No (Plan to complete in 2023)
SWMP Item		
Completed		
and/or In Effect		
(Yes/No)		
Measurable Goal	MDT will participate in the Montana Storm	MDT will develop an erosion control subcontractor
or Performance	Water Conference, when offered. The	stakeholder group that meets annually to discuss storm
Standard	conference attended and MDT attendance	water concerns and innovations.
Utilized	information will be reported in the Annual	
	Report.	This group is to be implemented by December 31,
		2023, and stakeholder group participants and meeting
		allendance will be reported in the Annual Report.

SWMP Activity	Non-Storm Water Discharge	Storm Sewer System Mapping
or Component	Identification	BMP-IDDE-02
Name	BMP-IDDE-01	
Minimum	IDDE	IDDE
Control Measure		
Name (If		
Applicable)		
General Permit	II.B.3	II.B.3
Condition Item		
Number (If		
Applicable)		
Brief Description	Determine which potential non-storm water	Develop an interactive geographical information
of Planned	discharges or flows are significant and	system (GIS)-based MS4 storm sewer map that shows
SWMP Action	insignificant contributors of pollutants to the	locations of storm sewer system components within
Taken	MS4.	each MS4.
Responsible	MDT - SEES	MDT - SEES, DEES, Geospatial Analyst
Agency,		
Department, or		
Organization;		
and Person or		
Position		
Development of	No (Plan to complete 2023)	Yes
SWMP Item		
Completed		
and/or In Effect		
(Yes/No)		
Measurable Goal	Develop a list of potential non-storm water	Complete and update storm sewer system maps for
or Performance	discharges identified as significant	each MS4 illustrating storm sewer system components
Standard	contributors of pollutants (i.e., illicit	including outfall locations, inlets, open channels,
Utilized	discharges). Document list in SWMP, along	subsurface conduits/pipes, dry wells, manholes, and
	with associated pollutants and local controls.	other similar discrete conveyances utilizing online
	Incorporate in SWMP by December 31,	interactive GIS mapping tool. Include mapping
	2023.	elements for receiving waters and high priority
		areas/outfalls. Complete maps by December 31, 2023,
	Annually assess list of non-stormwater	and update annually thereafter.
	discharges identified as significant	
	contributors and update SWMP. Beginning	Annually review agreements with cities and counties to
	in 2025, conduct annual review by March 1st	determine changes to MD1's storm sewer
	of each year. Incorporate updates into	infrastructure responsibility. Provide any updates to
	Swimp by September 30th of each year.	agreements in the stormwater responsibility table and
		report in the Annual Report.
	discharges identified as non-stormwater	Undete MS4 houndary information of described in
	contributors that will not be addressed as	MDT's Manning Undate Proceeding COD Approximation
	illight discharges and under SWMD	report the date the man was undeted
	Conduct annual review by March 1st of each	report the date the map was updated.
	veer Incorporate undates into SWMD by	Collect new menning data elements as described in
	Sentember 20th of each year	MDT's Manning Undata Procedure SOD appually
	September 50th of each year.	Report the date the elements are incorporated into the
	Document compliance in Annual Depart	MS4 manning tool
	Document compliance in Annual Report.	19154 mapping tool.

SWMP Activity or	High Priority Assessment	IDDE Investigation and Corrective Action Plan
Component Name	BMP-IDDE-03	(CAP) BMP-IDDE-04
Minimum Control	IDDE	IDDE
Measure Name (If		
Applicable)		
General Permit	II.B.3	II.B.3
Condition Item		
Number (If		
Applicable)		
Brief Description of	Identify areas and outfalls that are most likely	Identifies processes that MDT uses to locate the
Planned SWMP	to contribute pollutants to the MS4.	source of an illicit discharge and select the
Action Taken		appropriate corrective action.
Responsible	MDT - SEES	MDT - EESS, DEES
Agency,		
Department, or		
Organization; and		
Person or Position		
Development of	No (Plan to complete 2023)	Yes
SWMP Item		
Completed and/or		
In Effect (Yes/No)		
Measurable Goal	MDT will identify high priority areas and	Implement procedures described in MDT's IDDE
or Performance	outfalls in each MS4 as described in MDT's	CAP. Track illicit discharge investigations and
Standard Utilized	IDDE CAP. High Priority outfall designation	corrective action data.
	will be completed by December 31, 2023.	
	Update in accordance with MD1's IDDE	Update MD1's IDDE CAP annually and report the
	CAP, which states the criteria for determining	date the guidance was updated.
	high priority outfalls is completed once per	
	permit cycle with the exception of review of	
	dry weather screening for illicit discharges	
	which is completed annually.	
	Paviaw statewide dry weather screening	
	information and illigit discharge incident	
	reports to identify whether there are newly	
	identified high priority outfalls. Report any	
	changes to the High Priority outfall	
	designation in the Annual Report	
	accision in the runnum report.	
	which is completed annually. Review statewide dry weather screening information and illicit discharge incident reports to identify whether there are newly identified high priority outfalls. Report any changes to the High Priority outfall designation in the Annual Report.	

SWMP Activity or	Enforcement Response	Dry Weather Screening	IDDE Field Guidance
Component Name	Plan (ERP)	BMP-IDDE-06	BMP-IDDE-07
1	BMP-IDDE-05		
Minimum Control	IDDE	IDDE	IDDE
Measure Name (If			
Applicable)			
General Permit	II.B.3	II.B.3	II.B.3
Condition Item			
Number (If			
Applicable)			
Brief Description of	Identifies policies and	Inspect outfalls during dry	Develop guidance to assist MDT
Planned SWMP	procedures for MDT to exert	weather to detect illicit	personnel with detection and
Action Taken	authority over MS4 users.	discharges and connections into	elimination of illicit discharges
		the MS4.	into the MS4.
Responsible	MDT - DEES, EESS	MDT - DEES	MDT - SEES
Agency.			
Department, or			
Organization: and			
Person or Position			
Development of	Yes	Ves	No (Plan to complete 2023)
SWMP Item			
Completed and/or			
In Effect (Yes/No)			
Measurable Goal	Implement procedures	Conduct dry weather screening	MDT will develop an IDDE
or Performance	described in MDT's ERP.	at each high priority outfall	Field Guide that is designed to
Standard Utilized	Report enforcement action	annually.	assist MDT personnel with
	data.		detection and elimination of
		Conduct dry weather screening	illicit discharges into the MS4.
	Review written policies and	at each outfall at least once	8
	procedures identified in	every five years.	Develop field guidance by
	MDT's ERP and update once	5 5	December 31, 2023, and track
	every 5 years (i.e., permit	The screenings will be tracked	distribution numbers.
	cvcle).	utilizing MDT's Outfall Visual	
	-9)	Assessment Form.	

SWMP Activity or	Storm Water Control Contract	Stormwater Management Plan Review Checklist
Component Name	Provisions	BMP-CONST-02
	BMP-CONST-01	
Minimum Control	Construction Site Runoff Control	Construction Site Runoff Control
Measure Name (If		
Applicable)		
General Permit	II.B.4	II.B.4
Condition Item		
Number (If		
Applicable)		
Brief Description of	MDT will use contractual	MDT will utilize a stormwater management plan review
Planned SWMP	agreements to ensure that projects	checklist to confirm completeness of the CGP SWPPP
Action Taken	are constructed in a manner that	packages prepared by contractors.
	complies with federal, tribal, state,	
	and local regulations.	
Responsible	MDT - EESS, FSE, PDEs	MDT - FSE, DEES
Agency,		
Department, or		
Organization; and		
Person or Position	Vas	No (Dian to complete 2022)
Development of	res	No (Plan to complete 2023)
Swinr Item Completed and/or		
In Effect (Ves/No)		
Measurable Coal	Undate and maintain standard	Develop a storm water management plan review checklist that
or Performance	special provisions for Storm Water	documents technology based effluent limitation requirements
Standard Utilized	Permitting Requirements Under the	specified in the most current MPDES CGP. This checklist
	MPDES and Protection of Storm	will be used to confirm completeness of the CGP SWPPP
	Water Drainage System and	packages prepared by contractors. Complete checklist by
	Compliance with Local Permit	December 31, 2023.
	Requirements. Report date special	
	provision(s) last updated.	Beginning January 1, 2024, for projects within MS4s that
		require MPDES CGP authorization, utilize a stormwater
	Update MDT's Erosion and	management plan review checklist to confirm completeness of
	Sediment Control BMP Manual as	the CGP SWPPP packages prepared by contractors. Report
	needed to address new or changed	projects let in each MS4 that require MDPES CGP
	regulatory requirements and/or	authorization, date the checklist is completed and any findings
	BMP specifications. Report date	in Annual Report after January 1, 2024.
	manual was last updated.	
	Ensure all projects let in MS4s	
	contain the standard special	
	plans Specifications and Estimates	
	(PS&F) Proving Guidance for	
	Projects Located in MS4s SOD	
	Track all projects let in each MS4	
	and verify that required special	
	provisions are included in contract	
	documents	
	These goals are to be reported in the	
	Annual Report.	
		1

SWMP Activity or	Environmental Construction Oversight Inspections	ERP
Component Name	BMP-CONST-03	BMP-CONST-04
Minimum Control Measure Name (If Applicable)	Construction Site Runoff Control	Construction Site Runoff Control
General Permit Condition Item Number (If Applicable)	II.B.4	II.B.4
Brief Description of Planned SWMP Action Taken	MDT environmental and construction personnel inspect features as they are being constructed to ensure that they are constructed according to the contract documents and to ensure compliance with federal, tribal, state, and local laws.	Identifies policies and procedures for MDT to exert authority over MDT contractors.
Responsible Agency, Department, or Organization; and Person or Position	MDT - FSE, DEES, EPM and Construction Crews	MDT - EESS, DEES
Development of SWMP Item Completed and/or In Effect (Yes/No)	Yes	Yes
Measurable Goal or Performance Standard Utilized	 For MDT-administered construction projects, the EPM and/or MDT construction crew will inspect all BMPs biweekly and document findings in BMP Inspection Report. Track in AASHTOWARE and perform periodic audit of records in database. Update MDT's <i>MS4 Construction and Post- Construction DEES Inspection Procedure</i> SOP and environmental construction oversight inspection checklist as needed to address new or changed regulatory requirements. Report the date of updates in Annual Report. 	Implement procedures described in MDT's ERP. Review written policies and procedures identified in MDT's ERP and update once every 5 years. Track date of review and date guidance updated.
	Complete environmental construction oversight inspections in accordance with MDT's <i>MS4 Construction</i> <i>and Post Construction DEES Inspection Procedure</i> SOP. Document findings using Environmental Construction Inspection form. Report active construction projects in MS4s, date(s) of environmental oversight inspection(s) and findings, including associated MPDES CGP authorization number, location, size and topography of site, and proximity of site to waterbodies. Document compliance in the Annual Report.	

SWMP Activity or	Final Walk-Through	Program Evaluation
Component Name	BMP-CONST-05	BMP-CONST-06
Minimum Control	Construction Site Runoff Control	Construction Site Runoff Control
Measure Name (If		
Applicable)		
General Permit	II.B.4	II.B.4
Condition Item		
Number (If		
Applicable)		
Brief Description of	During the project finalization process,	Discuss and solicit feedback on stormwater-related
Planned SWMP	conduct a final MPDES walk-through for	issues and suggested program improvements.
Action Taken	projects that require MPDES CGP	
	coverage. Ensure BMPs are installed and	
	functioning properly. For sites that have not	
	yet reached final stabilization, transfer CGP	
	coverage from contractor to MDT	
	maintenance or a local entity.	
Responsible	MDT - DEES	MDT - DEES, SEES
Agency,		
Department, or		
Organization; and		
Person or Position		
Development of	Yes	Yes
SWMP Item		
Completed and/or		
In Effect (Yes/No)		
Measurable Goal	For projects that require MPDES CGP	Attend at least one MDT District EPM meeting per
or Performance	authorization, conduct a final walk-through	year to discuss stormwater-related issues and solicit
Standard Utilized	inspection in accordance with MD1's MS4	feedback on suggested program improvements.
	Construction and Post-Construction DEES	Document feedback using SWMP feedback form(s)
	Inspection Procedure SOP. Document	and/or through meeting summary. I rack date and
	MDDES (MDDES Demait Wells through	location of EPW meeting, attendees, topics covered,
	MPDES/NPDES Permit waik-inrough	and leedback received. Report annually.
	Iorms, or with MPDES/NPDES Final Stabilization Ingraction form for projects	Annually review feedback and determine if there are
	stabilization inspection form for projects	Annually review recuback and determine if there are
	where COT termination is proposed.	appropriate stormwater program staff and whether
	Track projects let in each MS4 that require	changes to the SWMP are recommended
	MDPES CGP authorization date of	
	Preliminary and Final Walk-through	
	inspections and date project closed out	
	Report annually.	

SWMP Activity or	Construction Site Storm Water Management	Construction Site Personnel Training
Component Name	Public Input	BMP-CONST-08
	BMP-CONST-07	
Minimum Control	Construction Site Runoff Control	Construction Site Runoff Control
Measure Name (If		
Applicable)		
General Permit Condition	II.B.4	II.B.4
Item Number (If		
Applicable)		
Brief Description of	Address storm water complaints identified by the	Train MDT personnel in the selection,
Planned SWMP Action	public via MDT's website, social media sites,	implementation, inspection, and
Taken	and/or phone calls.	maintenance of storm water BMPs.
Responsible Agency,	MDT - EPM, DEES	MDT - DEES/SEES
Department, or		
Organization; and Person		
or Position		
Development of SWMP	No (Plan to implement 2023)	Yes
Item Completed and/or In		
Effect (Yes/No)		
Measurable Goal or	Address storm water complaints identified by the	Conduct routine construction site
Performance Standard	public via MDT's website and/or phone calls.	SWPPP training in accordance with
Utilized	Enlist assistance from DEES to resolve. Track	Section 2.2.2 of the MDT SWMP
	project, location, feedback received, and	document.
	resolution.	
		DEES to conduct annual training event
	When requested by EPM, conduct an	at district level during EPM meetings
	environmental construction oversight inspection	and section meetings for maintenance
	within 14 days of the complaint. Document	personnel.
	findings using Environmental Construction	
	Inspection form.	
	Implement these goals by December 31, 2023,	
	and provide documentation for Annual Report	
	thereafter.	

Component Name DMT-FOST-02 Minimum Control Measure Name (If Applicable) Post-Construction Site Storm Water Post-Construction Site Storm Water Management Applicable) Review projects to determine if the project is ong-term revision associated with highway- related storm water runoff. Describe procedures and methods used to address ong-term revision associated with highway-related storm water runoff. Responsible Agency, Department, or Organization: and Person or Position MDT - PDEs MDT - Road Designers, District Hydraulies Engineer, PDEs, Hydraulies Engineer Wessurable Goal or Performance of disturbance is expected to be over the applicable regulatory threshold(s). MDT - Road Designers, District Hydraulies Engineer, PDEs, Hydraulies Engineer Measurable Goal or Performance disturbance is expected to be over the applicable regulatory threshold(s). PDEs will review 100% of MDT administered construction projects to determine if the project is in an MS4, whether the project's environmental assessment, or environmental documentition and environmental document (e.g., categorical exclusion, environmental assessment, or environmental assessment, or environmental assessment, or environmental assessment, or environmental documentition and environmental documentation and environmental documentation and environmental documentation and environmental documentation an	SWMP Activity or	Identify Regulated Projects	PESC Design
Minimum Control Masagement Post-Construction Site Storm Water Management Post-Construction Site Storm Water Management Applicable II.B.5 II.B.5 General Permit Condition Item Number (If Applicable) II.B.5 II.B.5 Brief Description of Planned SWMP Action Taken Review projects to determine if the project is in an MS4, whether the project is considered are or disturbance is expected to be over the applicable regulatory threshold(s). Describe procedures and methods used to address Iong-term erosion associated with highway construction and the resultant highway-related storm water runoff. Responsible Agency, Department, or Organization; and Person or Position Development of Standard Utilized MDT - PDEs MDT - Road Designers, District Hydraulies Engineer, PDEs, Hydraulies Engineer Measurable Goal or Performance Standard Utilized PDEs will review 100% of MDT administered construction projects to determine if the project is considered a new or redevelopment project, and whether the area of disturbance is expected to be over the applicable regulatory threshold(s). The PDEs will document this determination in the project is considered an are or etacleoprical exclusion, environmental assessment, or environmental assessment, or environmental asprosch permit application environmental document (e.g., categorical exclusion, environmental asprosch permit application environmental document (e.g., categorical exclusion, environmental documentation and environmental appropriate MS4-related information to in induded in the permit issuance correspondence. In coordination with MDT Environmental documentation and environmental checklists	Component Name	BMP-POST-01	BMP-POST-02
Measure Name (If Applicable) Management General Permit Condition Item II.B.5 Brief Description of Planned SWMP Action Taken Review projects to determine if the project is in an MS4, whether the project is considered a new or redevelopment project, and whether the area of disturbance is expected to be over the applicable of Degartment, or Organization; and Person or Position Describe procedures and methods used to address long-term crosion associated with highway-related storm water runoff. Responsible Agency, Department, or Organization; and Person or Position MDT - PDEs MDT - Road Designers, District Hydraulies Engineer, PDEs, Hydraulies Engineer Development of SWMP Item Comfleted and/or in Effect (Yes/No) PDEs will review 100% of MDT administered construction projects to determine if the project is in an MS4, whether the area of disturbance is expected to be vor the applicable regulatory threshold(s). The PDEs will document this determination in the project's environmental document ad approach permit application environmental document (e.g., categorical exclusion, environmental assessment, or environmental assessment, or environmental assessment, or environmental assessment, or environmental assessment, or environmental assessment, or environmental impact statement.) Evaluate projects throughout project development and ensure PESC considered and MDT 's <i>PESC Design</i> crudualer as an aceded to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated. PDEs will review 100% of the encroachment and approach permit application environmental document and approach permit application in tracking spreadsplects. Document In	Minimum Control	Post-Construction Site Storm Water	Post-Construction Site Storm Water Management
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Measurable Goal or Performance Standard UtilizedPDEs will review 100% of MDT administered construction projects to determine if the project is in an MS4, whether the project is considered a new or redevelopment project, and whether the area of disturbance is expected to be over the applicable regulatory threshold(s). The PDEs will document this determination in the project's environmental document (e.g., categorical exclusion, environmental assessment, or environmental impact statement.)Evaluate projects in accordance with MDT's PESC Design Guidelines. Document recommendations in milestone reports.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.Evaluate projects in accordance with MDT's PESC Design Guidelines. Assist in selection of appropriate PESC treatment for various types of erosion. In coordination with Road Design, develop plans and specifications for selected PESC.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated. Document compliance in the Annual Report.	In Effect (Yes/No)		
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Standard Utilizeddetermine if the project is in an MS4, whether the project is considered a new or redevelopment project, and whether the area of disturbance is expected to be over the applicable regulatory threshold(s). The PDEs will document this determination in the project's environmental document (e.g., categorical exclusion, environmental assessment, or environmental impact statement.)milestone reports.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated. Document compliance in the Annual Report.	or Performance	administered construction projects to	Design Guidelines. Document recommendations in
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of disturbance is expected to be over the applicable regulatory threshold(s). The PDEs will document this determination in the project's environmental document (e.g., categorical exclusion, environmental assessment.)various types of erosion. In coordination with Road Design, develop plans and specifications for selected PESC.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination in coordination with Road Design, develop plans and specifications for selected PESC.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentIn coordination with Road Design, develop plans and specifications for selected PESC.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated.Document compliance in the Annual Report.		redevelopment project, and whether the area	Assist in selection of appropriate PESC treatment for
 application regulation regulation in the project's environmental document (e.g., categorical exclusion, environmental assessment, or environmental impact statement.) PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence. Track completion of environmental checklists in tracking spreadsheets. Document Design, develop plans and specifications for selected PESC. Review projects throughout project development and ensure PESC considered and incorporated into projects as appropriate. In coordination with MDT Environmental Engineering Section, update MDT's <i>PESC Design Guidelines</i> as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated. Document compliance in the Annual Report. 		of disturbance is expected to be over the	Design develop plans and specifications for selected
 win document and document (e.g., categorical exclusion, environmental assessment, or environmental impact statement.) PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence. Track completion of environmental checklists in tracking spreadsheets. Document 		will document this determination in the	PESC
project of environmental categorical exclusion, environmental assessment, or environmental impact statement.)Review projects throughout project development and ensure PESC considered and incorporated into projects as appropriate.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument compliance in the Annual Report.		project's environmental document (e.g.	TESC.
assessment, or environmental impact statement.)ensure PESC considered and incorporated into projects as appropriate.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument compliance in the Annual Report.		categorical exclusion, environmental	Review projects throughout project development and
statement.)projects as appropriate.PDEs will review 100% of the encroachment and approach permit application environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.In coordination with MDT Environmental Engineering Section, update MDT's PESC Design Guidelines as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument correspondence.		assessment, or environmental impact	ensure PESC considered and incorporated into
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environmental checklists for projects located within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence. <i>Guidelines</i> as needed to address new or changed regulatory requirements and/or design guidelines. Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument compliance in the Annual Report.		and approach permit application	Engineering Section, update MDT's PESC Design
within an MS4. The PDEs will provide appropriate MS4-related information to be included in the permit issuance correspondence.regulatory requirements and/or design guidelines. Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument compliance in the Annual Report.		environmental checklists for projects located	Guidelines as needed to address new or changed
appropriate MS4-related information to be included in the permit issuance correspondence.Report date manual last updated.Track completion of environmental documentation and environmental checklists in tracking spreadsheets. DocumentDocument compliance in the Annual Report.		within an MS4. The PDEs will provide	regulatory requirements and/or design guidelines.
included in the permit issuance Document compliance in the Annual Report. Track completion of environmental Document compliance in the Annual Report. Track completion and environmental checklists in tracking spreadsheets. Document		appropriate MS4-related information to be	Report date manual last updated.
correspondence. Document compliance in the Annual Report. Track completion of environmental documentation and environmental checklists in tracking spreadsheets. Document Document compliance in the Annual Report.		included in the permit issuance	
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I compliance in the Annual Report.		compliance in the Annual Report	
a commutance in the Americal Variant		documentation and environmental checklists in tracking spreadsheets. Document	

SWMP Activity	Low Impact Development (LID) Practice	Offsite Treatment Criteria and Formal
or Component	Analysis	Review/Approval Process
Name	BMP-POST-03	BMP-POST-04
Minimum	Post-Construction Site Storm Water	Post-Construction Site Storm Water Management
Control Measure	Management	
Name (If		
Applicable)		
General Permit	II.B.5	II.B.5
Condition Item		
Number (If		
Applicable)		
Brief Description	Evaluate LID techniques for MD1	Develop and apply criteria for determining when
of Planned	construction projects and at its facilities	offsite treatment may be allowed.
SWMP Action	within the MS4 areas when upgrades to the	
такеп	radevelopment takes place	
Responsible	MDT - EESS PDEs District Hydroulies	MDT FESS Hydraulies Engineer SEES
Agonov	Engineers	MD1 - EESS, Hydraunes Engineer, SEES
Agency, Department or	Engineers	
Organization.		
and Person or		
Position		
Development of	No (Plan to complete 2023)	No (Plan to complete 2023)
SWMP Item		
Completed and/or		
In Effect (Yes/No)		
Measurable Goal	In coordination with MDT Hydraulics	Develop criteria for determining when offsite treatment
or Performance	Section, the EESS will update and maintain	will be allowed on MDT projects and a formal review
Standard Utilized	LID Practice Analysis form as needed to	and approval process for these determinations.
	address new or changed regulatory	Complete criteria and process by December 31, 2023.
	requirements and changes to project	
	development procedures.	Starting January 1, 2024, maintain an inventory of
		regulated projects that utilize off-site treatment for
	Identify in environmental document projects	post-construction storm water runoff. Irack projects
	that require an LID Practice Analysis and	and document in Annual Report starting January 1,
	work with District Hydraulics Engineer to	2025.
	document conclusions.	
	For 100% of identified projects District	
	Hydraulics engineers will complete the LID	
	Practice Analysis form to document how	
	post-construction runoff from the first 0.5	
	inches of rainfall is being managed	
	Track dates of updated form and projects	
	that require an LID analysis for Annual	
	Report.	

SWMP Activity	Post-Construction Storm Water Control Inspections	Federal Re-Vegetation
or Component	BMP_POST_05	Managamant Program
Namo		PMD DOST 06
Name		DMP-POSI-00
Minimum	Post-Construction Site Storm Water Management	Post-Construction Site Storm Water
Control Measure		Management
Name (If		
Applicable)		
General Permit	II.B.5	II.B.5
Condition Item		
Number (If		
Applicable)		
Brief Description	Consistently and thoroughly inspect PESC features	Provide additional revegetation
of Planned	consistently and aloroughly inspect r lise reduces.	efforts when necessary to reach final
SWMP Action		stabilization for aligible projects
Swirr Action		stabilization for engible projects.
Taken D "L		MDT OFFO D 1 /
Responsible	MDT - EPM and Construction Crews, Maintenance Section	MDT - SEES, Reclamation
Agency,	Personnel, DEES	Specialist
Department, or		
Organization;		
and Person or		
Position		
Development of	Yes	Yes
SWMP Item		
Completed and/or		
In Effect (Ves/No)		
Moosurable Cool	For MDT administered construction projects where post	Appually, the SEES will identify
Measurable Goal	For MD1-administered construction projects where post-	Annually, the SEES will identify
or Performance	construction storm water controls are installed, the EPWI and/or	projects with open CGP permits
Standard Utilized	MD1 construction crew will inspect all BMPs bi-weekly and	held by MDT for more than two
	document findings in BMP Inspection Report. Track in	growing seasons. The SEES will
	AASHTOWARE and perform periodic audit of results in the	provide the list to the FSE and
	database.	Reclamation Specialist for
		consideration of project nomination
	For projects where MDT is authorized to discharge under the	under the ESB-administered federal
	MPDES CGP, maintenance section personnel will inspect post-	re-vegetation program. Track
	construction storm water controls (i.e. permanent erosion and	identified project name MDPES
	sediment controls) in accordance with permit requirements	CGP authorization number and
	Inspections will be documented using DEO's self inspection	recommended improvement(s)
	Inspections will be documented using DEQ 8 sen-inspection	Description of the second seco
	report form. Perform periodic audit of maintenance SwPPP	Report number of projects
	accuments and document compliance in Annual Report.	nominated in Annual Report.
	For other post-construction storm water control inspections,	For projects nominated within
	maintenance section personnel will conduct routine inspections	MS4s, the reclamation specialist
	in accordance with agreements, MDT's Maintenance Manual,	will determine if improvements to
	and site-specific O&M Manuals, as applicable. Findings will	storm water run-off control and
	be documented in Maintenance Management System (MMS).	infiltration can be improved with
	Track in MMS and perform periodic audit of records in	further re-vegetation using the
	database	Federal Revegetation Management
		Program If improvements are
	For projects that have reached final stabilization and	identified the real mation areasi-list
	For projects that have reached final stabilization and	identified, the reclamation specialist
	termination under the CGP is proposed, the DEES will inspect	will develop and let a contract under
	the site and document findings with MPDES/NPDES Final	this program. Report Dates(s) and
	Stabilization Inspection form. For MDT authorizations, the	location(s) of projects let under
	DEES will also complete a Notice of Termination. Record	Federal Revegetation Management
	project name, MDPES CGP authorization number. date(s)	Program in an MS4for Annual
	inspected, final stabilization determination date NOT issued	Report.
L	mapered, mar successful determination, date 1101 issued.	Poin

SWMP Activity	ERP	Post-Construction Storm Water Control
or Component	BMP-POST-07	Inventory
Name		BMP-POST-08
Minimum	Post-Construction Site Storm Water	Post-Construction Site Storm Water Management
Control Measure	Management	
Name (If		
Applicable)		
General Permit	II.B.5	II.B.5
Condition Item		
Number (If		
Applicable)		
Brief Description	Identifies policies and procedures for MDT to	Maintain an inventory of post-construction storm
of Planned	exert authority over MDT contractors.	water management controls.
SWMP Action		
Taken		
Responsible	MDT - EESS, DEES	MDT - SEES
Agency,		
Department, or		
Organization;		
and Person or		
Position		
Development of	Yes	No (Plan to complete 2023)
SWMP Item		
Completed and/or		
In Effect (Yes/No)		
Measurable Goal	Implement procedures described in MDT's ERP.	Beginning January 1, 2023, develop and maintain
or Performance		an inventory of post-construction storm water
Standard Utilized	Review written policies and procedures	controls utilizing information contained in
	identified in MDT's ERP and update as needed.	milestone reports, hydraulics reports, LID Practice
	Update once every 5 years (i.e., permit cycle).	Analysis form, and construction plans and
		specifications. Record for Annual Report starting
		January 1, 2024.

SWMP Activity	Inspection Prioritization	Program Evaluation	
or Component	BMP-POST-09	BMP-POST-10	
Name			
Minimum	Post-Construction Site Storm Water Management	Post-Construction Site Storm Water	
Control Measure		Management	
Name (If		management	
Annlicable)			
General Permit	IIB5	IIB5	
Condition Item	11.0.0	11.D.3	
Number (If			
Annlicable)			
Ref Description	Utilize a protocol to determine priority and minimum	Discuss and solicit feedback on	
of Planned	inspection frequency of post construction storm water	stormwater-related issues and	
SWMP Action	management controls	suggested program improvements	
Taken	indiagement controls.	suggested program improvements.	
Responsible	MDT - FSF Maintenance Division Operations Manager	MDT - DEES SEES	
Agency	SEES DEES		
Denartment or			
Organization.			
and Person or			
Position			
Development of	No (Donin involution 2022)	V	
Development of	No (Begin implementation 2023)	res	
Swivir Item Completed and/or			
Lompleted and/or			
In Effect (Yes/NO)	In accordination with MDT Maintenance Division develop a	DEES to attend at least and MDT	
or Performance Standard Utilized	protocol to determine priority and minimum inspection frequency for post-construction storm water controls. Priority must be based on potential water quality impacts, with consideration for the operation and maintenance needs, proximity to waterbodies, drainage area treated, land use type, and location within an impaired watershed. Complete by December 31, 2023. In coordination with MDT Maintenance Division, develop a post-construction storm water control inspection checklist for incorporation into MMS. Complete by December 31, 2023.	Maintenance Division section person meeting per year to discuss stormwater-related issues and solicit feedback on suggested program improvements. Document feedback using SWMP feedback form(s) and/or through meeting summary. Report meeting metrics in Annual Report. SEES to annually review feedback	
	With financial support from ESB, incorporate additional fields into MMS to capture post-construction storm water control inspection information. Communicate inspection requirements to maintenance personnel. Complete by December 31, 2024. Update post-construction storm water control inventory with priority ranking and minimum inspection frequency. Report priority ranking and inspection frequency in Annual Report starting January 1, 2025. Communicate with maintenance section personnel the post- construction storm water control inspection frequency and assist with inspections as requested. Track dates of communication and assistance, maintenance personnel involved and perform periodic audit of records in MMS	and determine if there are topics that need to be discussed further with appropriate stormwater program staff and whether changes to the SWMP are recommended. Provide review of feedback in Annual Report to see if changes are necessary.	

SWMP Activity or Component	Post-Construction Site Personnel Training	
Name	BMP-POST-11	
Minimum Control Measure	Post-Construction Site Storm Water Management	
Name (If Applicable)		
General Permit Condition Item	II.B.5	
Number (If Applicable)		
Brief Description of Planned	Train MDT personnel in the selection, implementation, inspection, and maintenance of	
SWMP Action Taken	storm water BMPs.	
Responsible Agency,	MDT - EESS, Highways Engineer	
Department, or Organization;		
and Person or Position		
Development of SWMP Item	Yes	
Completed and/or In Effect		
(Yes/No)		
Measurable Goal or	MDT will conduct routine post-construction storm water training to educate plan	
Performance Standard Utilized	reviewers and inspectors on PESC and LID design, construction, and maintenance	
	requirements in accordance with Section 2.2.3 of MDT's SWMP document. To be	
	completed once every 5 years (i.e., permit cycle).	

SWMP Activity	MDT Facility and Activity Inventory	MDT Facility and Activity Mapping
or Component	BMP-PPGH-01	BMP-PPGH-02
Name		
Minimum	Pollution Prevention / Good	Pollution Prevention / Good Housekeeping
Control	Housekeeping	
Measure Name		
(If Applicable)		
General Permit	II.B.6	II.B.6
Condition Item		
Number (If		
Applicable)		
Brief	Develop and maintain inventory of MDT-	Add MDT facilities to MS4 maps.
Description of	owned and operated facilities and	
Planned SWMP	activities.	
Action Taken		
Responsible	MDT - SEES	MDT - SEES, Geospatial Analyst
Agency,		
Department, or		
Organization;		
and Person or		
Position		
Development of	Yes	Yes
SWMP Item		
Completed		
and/or In Effect		
(Yes/No)		
Measurable	Develop and maintain an inventory of	Complete and update MS4 maps illustrating the
Goal or	MDT-owned or operated facilities and	location of each facility and activity identified in
Performance	activities that have the potential to	the MDT Facility and Activity Inventory.
Standard	contribute contaminants to the MS4.	Complete maps by December 31, 2023, and
Utilized	Develop inventory by December 31,	update annually.
	2022, and update annually.	

SWMP Activity or	FPPPs and Spill Prevention, Controls, and Countermeasures (SPCCs)	
Component Name	BMP-PPGH-03	
Minimum Control	Pollution Prevention / Good Housekeeping	
Measure Name (If		
Applicable)		
General Permit	II.B.6	
Condition Item		
Number (If		
Applicable)		
Brief Description	Develop and implement FPPPs to identify facility-specific potential pollutant sources,	
of Planned SWMP	associated BMPs, and inspection protocols. Incorporate SPCC plans into the FPPPs for	
Action Taken	facilities with a total aboveground oil storage capacity greater than 1,320 gallons.	
Responsible	MDT - FSE, DEES, SEES, Maintenance Chief, FPPP Inspector	
Agency,		
Department, or		
Organization; and		
Person or Position		
Development of	Yes	
SWMP Item		
Completed and/or		
In Effect (Yes/No)		
Measurable Goal	Ensure each MDT facility located within an MS4 has a site-specific FPPP. If the facility	
or Performance	also has an SPCC plan, ensure it is appended to the FPPP. Update in accordance with	
Standard Utilized	MDT's FPPP Update and Training Procedure SOP.	
	Ensure FPPP is implemented and assign FPPP Inspector.	
	Review FPPP and conduct monthly inspections of the facility. Complete FPPP Inspection	
	Checklist monthly.	
	Review monthly inspection forms and ensure corrective action(s) taken.	
	Review inspection forms and confirm identified corrective actions have occurred. Maintain central repository of inspection and FPPP documents. Distribute documents in accordance with MDT's <i>FPPP Inspection Transmittal Procedure</i> SOP. Complete Monthly.	
	Document compliance in the Annual Report.	

SWMP Activity or	Facility Storm Water Control	Facility Storm Water	Field and Facility
Component Name	Updates	Awareness Posters	Personnel Training
	BMP-PPGH-04	BMP-PPGH-05	BMP-PPGH-06
Minimum Control	Pollution Prevention / Good	Pollution Prevention /	Pollution Prevention / Good
Measure Name (If	Housekeeping	Good Housekeeping	Housekeeping
Applicable)			
General Permit	II.B.6	II.B.6	II.B.6
Condition Item			
Number (II			
Applicable) Description of	Establishes funding mignitization for	Cuasta stama vystan	Educate staff recording storm
Planned SWMP	storm water control enhancements at	BMP poster for use at	water characteristics water
Action Taken	existing MDT facilities	MDT maintenance	quality issues and individual
Tittion Tuntin		facilities.	responsibilities regarding the
			implementation of the Statewide
			SWMP, FPPPs, SPCC plans, and
			associated SOPs.
Responsible	MDT - DEES, SEES, FSE, EESS,	MDT - SEES	MDT - DEES, SEES
Agency,	Facilities Bureau Chief		
Department, or			
Organization; and			
Person or Position			
Development of	Yes	No (Plan to complete	Yes
SWMP Item		2023)	
Completed and/or			
Massurable Coal	DEES conduct on onsite review of	Develop a poster for	Conduct site specific FDDD
or Performance	each facility and complete the Annual	Use at MDT facilities	training in accordance with
Standard Utilized	FPPP Inspection Summary form in	showing the various	MDT's FPPP Undate and
Standard Othizta	accordance with the <i>FPPP Undate and</i>	pollutants associated	Training Procedure SOP and
	Training Procedure SOP. Identify	with MDT facilities	Section 2.2.4 of MDTs SWMP
	recommended storm water control	and best practices to	document. To be completed every
	updates. Complete annually by end of	manage them.	3 years.
	year.	Complete and	
		distribute poster by no	Develop an on-line IDDE training
	SEES, FSE, EESS review each of the	later than December	program for use by MDT field
	Annual FPPP Inspection Summary	31, 2023.	personnel. Incorporate
	forms and prioritize funding for		requirements described in Section
	undered. To be completed by April 1st		2.2.4 of MD1s S wMP document.
	appually		2024
	annaany.		2027.
	Annually meet to prioritize facility		
	projects for funding that will benefit		
	water quality in the MS4s (e.g., vehicle		
	wash bays, secondary containment,		
	salt/sand shed, handling and storage,		
	etc.) and develop a schedule for		
	Implementation. ESB funding will be		
	provided for facility projects that will		
	be completed within the schedule.		
	wheeling to be held by May 1 st		
	annually.	1	

Component Name SOPs BMP-PPGH-08 BMP-PPGH-09 Minimum Control Pollution Prevention / Good Pollution Prevention / Good Pollution Prevention / Good	1
Minimum Control Pollution Prevention / Good Pollution Prevention / Good Pollution Prevention / Good	1
Measure Name (If Housekeeping Housekeeping Housekeeping	L
Applicable)	
General Permit II.B.6 II.B.6 II.B.6	
Condition Item	
Number (If	
Applicable)	
Brief Description of Review and update MD1's Implement a street sweeping MD1 will evaluate the win	ter
Action Taken SOPs to address new or streets and roadways maintenance feasible ways to transition t	0
changed regulatory yards, and parking areas that MDT more environmentally frien	dly
requirements and/or design is responsible for maintaining. The methods.	5
guidelines. street sweeping frequency depends	
on need and travel volumes.	
Sweepers also respond to certain	
types of spills that require clean-	
up. Responsible MDT - Maintenance MDT - Maintenance Personnel MDT - FESS ESE	
Agency. Division Operations	
Department, or Manager, EESS	
Organization; and	
Person or Position	
Development of Yes Yes Yes	
SWMP Item	
Completed and/or In Effect (Ves/Ne)	
In Effect (Yes/NO) Measurable Coal In coordination with MDT Sween 100% of the facilities and Review Winter Maintenanc	0
or Performance Environmental Engineering MDT maintained roads within Plans for areas/sections loc	nted
Standard Utilized Section, update MDT's small MS4s a minimum of one in MS4s. Make	
Maintenance Operations time each year. Recycle sanding recommendations for	
and Procedures Manual as materials whenever feasible. Track environmental consideration	18,
needed to address new or miles swept, year and location. as appropriate.	
changed regulatory Report in Annual Report.	
guidelines. Update once every 5 years (1.e.,
Develop written SOPs	
and/or site-specific O&M	
Manuals when needed to	
address new or changed	
regulatory requirements	
and/or design guidelines.	
Update once every 5 years (i.e. permit cycle)	

SWMP Activity or	Roadside Weed Management
Component Name	BMP-PPGH-010
Minimum Control	Pollution Prevention / Good Housekeeping
Measure Name (If	
Applicable)	
General Permit	II.B.6
Condition Item	
Number (If	
Applicable)	
Brief Description of	Minimize the use of chemical spraying for roadside weed management.
Planned SWMP	
Action Taken	
Responsible	MDT - Reclamation Specialist
Agency,	
Department, or	
Organization; and	
Person or Position	
Development of	Yes
SWMP Item	
Completed and/or	
In Effect (Yes/No)	
Measurable Goal	Work with maintenance personnel to encourage mechanical mowing vegetation management
or Performance	whenever possible. For instances when chemical spraying is necessary, follow the
Standard Utilized	recommendations outlined in MDT's Statewide Integrated Roadside Vegetation Management Plan
	and conduct spraying under the supervision of a licensed chemical applicator.
	Contact maintenance once every 5 years (i.e., permit cycle).

APPENDIX O

ADDITIONAL DETAILED INFORMATION: SUMMARY OF ACTIVITES AND DESCRIPTION OF SWMP EFFECTIVENESS DURING PAST YEAR

Appendix O – Summary of Activities and Descriptions of SWMP Effectiveness During Past Year

For MDT MS4 purposes, MDT's Billings DEES functions are the same for both Billings and Yellowstone County. Many of the
activities MDT completed do not provide a distinction between Billings and Yellowstone County. Some activities may be
identical between these two (2) MS4s or listed as Billings/Yellowstone County MS4.

SWMP Activity or	Website (Internal/External)		
Component Name	BMP-PEOIP-01		
Minimum Control	Public Education and Outreach on Storm Water Impacts & Public		
Measure Name (If	Involvement/Participation		
Applicable)			
General Permit	II.B.1/II.B.2		
Condition Item			
Number (If Applicable)			
Brief Description of	Develop and utilize a website to provide a variety of storm water educational materials		
Planned SWMP	for the public and MDT employees.		
Action Taken			
Responsible Agency.	MDT - SEES		
Department, or			
Organization: and			
Person or Position			
Measurable Goal or	MDT will increase the number of website visits each year. The number of		
Performance	website visits per calendar year will be recorded and reported in the Annual		
Standard Utilized	Report.		
	 MDT will review the website for currency of information and make updates by 		
	April 1 st annually. This will be tracked by providing a summary of the identified		
	changes and the date the website was updated.		
	MDT will develop and publish annual report or summary on website. Track by		
	the date incorporated to website		
	 MDT will create an online SWMP feedback reporting tool and incorporate by 		
	December 31, 2022, Track by the date incorporated to website		
	 MDT will create an online illigit discharge reporting tool and incorporate by 		
	 MDT will create an online linkit discharge reporting tool and incorporate by December 31, 2023. Track by the date incorporated to website 		
	Create an online storm water construction complaint reporting tool and		
	incorporate by December 31, 2023. Track by the date incorporated to website		
Quantitative	Number of website visits		
Indicators Used and	 Number of website visits Inputative 1, 2022 Decomber 31, 2022 Stormwater Program 		
Results	o January 1, 2022 – December 51, 2022 – <u>Stornwater Program</u>		
	(and subpages) had 2,506 total pageviews.		
	 January 1, 2022 – December 31, 2022 – <u>SWMP Update page</u> 		
	had 373 total pageviews.		
	 Last updates to the MS4 Stormwater website 		
	 Contacts on the website were updated 8/16/22 		
	 SWMP Update page was updated multiple times in June 2022 		
	for the comment period.		
	I I		
	MDT created an online SWMP feedback form in 2022 linked below		
	https://mt.accessaov.com/mdt/Forms/Page/mdt-tp/storm-water-management-		
	feedback		
	ICCUDAUN		
	widt will be posting the Annual report by April 1 ^w 2023.		
	The III of the basis was active to the stand of the Contract o		
	i ne illicit discharge reporting tool and complaint reporting tool will be		
	Incorporated by December 31, 2023.		
Impact on SWMP	Provide accessible public education materials to a diverse and widespread audience.		
Effectiveness			

SWMP Activity or	Social Media Posts	Newsline
Name		
Minimum Control Measure Name (If Applicable)	Public Education and Outreach on Storm Water Impacts	Public Education and Outreach on Storm Water Impacts
General Permit Condition Item Number (If Applicable)	II.B.1	II.B.1
Brief Description of Planned SWMP Action Taken	Create awareness of storm water specific issues by utilizing MDT social media sites (e.g., Facebook, Instagram).	Create awareness amongst MDT stakeholders of storm water related issues.
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES	MDT - SEES
Measurable Goal or Performance Standard Utilized	This BMP will be measured by posting 4 storm water educational items and 1 illicit discharge educational item on social media each year. This will be tracked by reporting the number of followers, likes, and comments per year.	MDT will publish one storm water related article each year in MDT Newsline. The distribution numbers will be reported.
Quantitative Indicators Used and Results	MDT utilizes MS4-specific internet and intranet sites. This MS4 intranet site is a "one-stop" source of information on the MS4 program for MDT employees and includes links to FPPPs, annual reports, educational and guidance material, MS4 maps, library material, and other websites resources for MDT's Storm Water Program. In 2022, MDT posted one Facebook post and no Instagram posts related to MS4. The MDT Instagram account has 3966 followers up from 3,022 followers in 2021 a 31% increase. In 2022 the MDT Facebook	MDT did not publish a storm water related article in 2022 in MDT Newsline. MDT will publish in Newsline in 2023.
	followers in 2021, a 14% increase.	
Impact on SWMP Effectiveness	Passive outreach strategy that allows sharing of a unified statewide message on storm water to a diverse and widespread audience.	Passive outreach strategy that allows for more targeted messaging specific to each MS4.

SWMP Activity or Component Name	Public Outreach Events BMP-PEOIP-04
Minimum Control Measure Name (If Applicable)	Public Education and Outreach on Storm Water Impacts
General Permit Condition Item Number (If Applicable)	II.B.1
Brief Description of Planned SWMP Action Taken	Provide presentations on storm water issues at schools/universities, conferences, civic clubs, libraries, businesses, etc.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES
Measurable Goal or Performance Standard Utilized	DEES to participate in one event each year in each MS4, provide printed materials, and solicit input at each event using the SWMP feedback form. The date, location, and number of people in attendance to the event will be provided. Additionally, the type and number of printed materials and the number of completed feedback forms and comments received will be tracked.
Quantitative Indicators Used and Results	 The DEES attended public outreach events in 5 of the MS4 areas in 2022. Missoula MS4 performed a total of 8 hours at the Missoula County Fair on 8/10 & 8/11. Handed out: 322 MS4 stickers "We all have riverfront property." 55 MDT brochures "Do your part to prevent stormwater pollution" Kalispell MSR performed outreach for a total of 6 hours at the NW Montana Fair in Kalispell on 8/17. Handed out: 295 MS4 stickers "We all have riverfront property." 95 MDT brochures "Do your part to prevent stormwater pollution" Great Falls MS4 College of Great Falls 3/10/2022 Handed out 30 Pamphlets and crossword at the Science Fair. Discussions regarding MS4 protection/importance. Erosion control matting/blanket demonstration. Bozeman MS4: 11/29/2022 Montana State University MSU Outdoor Program, Bozeman. Handed out 8 Pamphlets, crossword and discussed the MS4 program. Butte High Career & Technical Education Fair, Butte 2/23/2022 Handed out 16 pamphlets, crossword, and discussed MS4 program. Billings MS4: Billings Library -12 attendees; Handed out: 2 stormwater crossword puzzles and 7 Stormwater Prevention and 7 IDDE pamphlets.
Impact on SWMP Effectiveness	Active outreach strategy that allows for more targeted messaging specific to each MS4.

SWMP Activity or Component Name	Public Feedback BMP-PEOIP-05	Adopt-A-Highway BMP-PEOIP-06
Minimum Control Measure Name (If Applicable)	Public Involvement/Participation	Public Involvement/Participation
General Permit Condition Item Number (If Applicable)	II.B.2	II.B.2
Brief Description of Planned SWMP Action Taken	MDT will issue news releases annually in each MS4 soliciting public feedback on the SWMP.	MDT administers a statewide program where volunteers sign a contract to provide clean up services for a section of highway.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EESS	MDT - Adopt-A-Highway Program Manager
Measurable Goal or Performance Standard Utilized	MDT will issue a 30-day public notice in each MS4 soliciting public feedback on the SWMP. Date(s) of the public notice and the feedback received will be reported in the Annual Review.	MDT will maintain or increase the number of miles adopted each year under the Adopt-A- Highway program.
Quantitative Indicators Used and Results	 On June 8, 2022, the Montana Department of Transportation (MDT) announced a public review and comment period for its draft updated Municipal Separate Storm Sewer System (MS4) Storm Water Management Program (SWMP). The duration of this public comment period was 30-days, closing on July 8, 2022. The intent of this public comment period was to solicit input on the draft final SWMP document to improve the implementation of MDT's program. Listed below are the entities who submitted comments in the order of date received: Guy Alsentzer, Upper Missouri Waterkeeper July 7, 2022 Adam Oliver, City of Bozeman Stormwater Division July 8, 2022 Jessica Dahlman and Brady Schwabach, Kalispell July 11, 2022 	 MDT's Adopt-a-Highway program is available and active. Organizations that adopt MDT's roadways agree to pick up trash two (2) times per year. The total miles (sections) of adopted highway that either fall within or intersect the MS4 boundaries is 193. Thirty-six new sections were added to the program in 2022. A breakdown of these miles by MS4 can be found below. Billings/Yellowstone County: 48 miles (8 miles newly adopted 2022) Bozeman: 13 miles (6 miles newly adopted 2022) Butte: 8 miles Great Falls: 29 Helena: 17 miles (7 miles newly adopted 2022) Kalispell: 19 (7 miles newly adopted 2022) Missoula: 58 miles (7 miles newly adopted 2022)
Impact on SWMP Effectiveness	Active outreach strategy that provides notice and opportunity for public to become involved in development of SWMP.	Active outreach strategy that engages volunteers and allows participation in reducing pollution in waterways.

SWMP Activity or	Montana Storm Water Conference	Erosion Control Contractor Stakeholder
Component	Participation	Group
Name	BMP-PEOIP-07	BMP-PEOIP-08
Minimum Control	Public Education and Outreach on Storm	Public Involvement and Participation
Measure Name (If	Water Impacts & Public	
Applicable)	Involvement/Participation	
General Permit	II.B.1/II.B.2	II.B.2
Condition Item		
Number (If		
Applicable)		
Brief Description	MDT personnel to participate in statewide	Create an MDT erosion control subcontractor
of Planned	conference, when offered.	stakeholder group to discuss storm water
SWMP Action		concerns and innovations.
Taken		
Responsible	MDT - EESS, FSE, DEES, Hydraulics	MDT - FSE
Agency,	Engineer	
Department, or		
Organization;		
and Person or		
Position		
Measurable Goal	MDT will participate in the Montana Storm	MDT will develop an erosion control
or Performance	Water Conference, when offered.	subcontractor stakeholder group that meets
Standard Utilized		annually to discuss storm water concerns
		and innovations. This group is to be
		implemented by December 31, 2023.
Quantitative	Eight MDT Environmental employees	MDT is working on compiling a subcontractor
Indicators Used	attended the DEQ Stormwater Conference,	stakeholder group and plans to implement by
and Results	May 2-4, 2022.	December 31, 2023.
Impact on SWMP	Active outreach strategy that allows MDT	Active outreach strategy that allows MDT
Effectiveness	personnel to be exposed to innovative	contractors who specialize in storm water
	storm water solutions and to network and	controls to engage with MDT on its erosion
	engage with other MS4 representatives.	control program and opportunities for
		improvement.

SWMP Activity or	Non-Storm Water Discharge Identification
Component Name	BMP-IDDE-01
Minimum Control	IDDE
Measure Name (If	
Applicable)	
General Permit Condition	II.B.3
Item Number (If	
Applicable)	
Brief Description of	Determine which potential non-storm water discharges or flows are significant and
Planned SWMP Action	insignificant contributors of pollutants to the MS4.
Taken	
Responsible Agency,	MDT - SEES
Department, or	
Organization; and Person	
or Position	
Measurable Goal or	Develop a list of potential non-storm water discharges identified as significant
Performance Standard	contributors of pollutants (i.e., illicit discharges). Document list in SWMP, along
Utilized	with associated pollutants and local controls. Incorporate in SWMP by December
	31, 2023.
	Annually assess list of non-stormwater discharges identified as significant
	contributors and update SWMP. Beginning in 2025, conduct annual review by
	March 1st of each year. Incorporate updates into SWMP by September 30th of
	each year.
	Annually assess list of non-stormwater discharges identified as non-significant
	contributors that will not be addressed as illicit discharges and update SWMP.
	Conduct annual review by March 1st of each year. Incorporate updates into SWMP
Ou ou titotico la dio store	by September 30th of each year.
Quantitative indicators	Development of a list of a startial new starm water discharges identified on
Used and Results	Development of a list of potential non-storm water discharges identified as
	significant contributors of pollutants is on track to be completed by the end of 2023
	and will be assessed annually beginning in 2025.
	Final SWMP update was processed and reviewed in 2022 and completed January
	2022 and non stormwater discharges as well as non significant contributors were
	identified
Impact on SWMP	Allows MDT to focus investigative and corrective action efforts on significant
Effectiveness	contributors of pollutants to the MS4.

SWMP Activity or	Storm Sewer System Mapping
Component Name	BMP-IDDE-02
Minimum Control	IDDE
Measure Name (If	
Applicable)	
General Permit Condition	II.B.3
Item Number (If	
Applicable)	
Brief Description of	Develop an interactive geographical information system (GIS)-based MS4 storm
Planned SWMP Action	sewer map that shows locations of storm sewer system components within each
Taken	MS4.
Responsible Agency,	MDT - SEES, DEES, Geospatial Analyst
Department, or	
Organization; and Person	
or Position	
Measurable Goal or	Complete and update storm sewer system maps for each MS4 illustrating storm
Performance Standard	sewer system components including outfall locations, inlets, open channels,
Utilized	subsurface conduits/pipes, dry wells, manholes, and other similar discrete
	conveyances utilizing online interactive GIS mapping tool. Include mapping
	elements for receiving waters and high priority areas/outfalls. Complete maps by
	December 31,2023, and update annually thereafter.
	Annually review agreements with cities and counties to determine changes to
	MDT's storm sewer infrastructure responsibility. Provide any updates to
	agreements in the stormwater responsibility table.
	5
	Update MS4 boundary information as described in MDT's Mapping Update
	Procedure SOP.
	Collect new mapping data elements as described in MDT's Mapping Update
	Procedure SOP annually.
Quantitative Indicators	MDT has hired three Consultant Firms in 2022 to continue mapping data collection
Used and Results	which started in 2020.
	Billings MS4 was reviewed and updated Dec 2022
	MDT Updated MS4 boundaries Map December 5, 2022
	New mapping elements and infrastructure are currently being collected by
	consultants.
Impact on SWMP	Provides a tool for investigating illicit discharges, containing spills, and identifying
Effectiveness	high priority areas.

SWMP Activity	High Priority Assessment	IDDE Investigation and Corrective Action
Name		
Minimum	IDDE	IDDE
Control Measure		
Name (If		
Applicable)		
General Permit	II.B.3	II.B.3
Condition Item		
Number (If		
Applicable)		
Brief	Identify areas and outfalls that are most likely	Identifies processes that MDT uses to locate
Description of	to contribute pollutants to the MS4.	the source of an illicit discharge and select
Planned SWMP		the appropriate corrective action.
Action Taken		
Agency		IVIUI - EESS, DEES
Department or		
Organization:		
and Person or		
Position		
Measurable Goal	MDT will identify high priority areas and	Implement procedures described in MDT's
or Performance	outfalls in each MS4 as described in MDT's	IDDE
Standard	IDDE CAP. High Priority outfall designation	CAP.
Utilized	will be completed by December 31, 2023.	
	Update in accordance with MDT's IDDE	Update MDT's IDDE CAP annually.
	CAP, which states the criteria for determining	
	high priority outfalls is completed once per	
	permit cycle except for review of dry weather	
	screening for illicit discharges which is	
	Review statewide dry weather screening	
	information and illicit discharge incident	
	reports to identify whether there are newly	
	identified high priority outfalls.	
Quantitative		No illicit discharges were identified in 2022.
Indicators Used	No illicit discharges were identified in 2022.	
and Results		MDT updated the CAP Jan 2023.
	MDT IDDE CAP was updated Jan 2023 and	
	high priority outfalls were included.	
	Dry weather screenings of MS4 sutfalls were	
	reviewed and no illicit discharges word	
	identified	
Impact on	Prioritizing outfalls allows for increased	Allows for consistent and timely responses to
SWMP	oversight in areas most likely to result in	illicit discharge events.
Effectiveness	discharges that could cause or contribute to	
	pollution of state waters.	

SWMP Activity or Component Name	Enforcement Response Plan (ERP) BMP-IDDE-05
Minimum Control Measure Name (If Applicable)	IDDE
General Permit Condition Item Number (If Applicable)	II.B.3
Brief Description of Planned SWMP Action Taken	Identifies policies and procedures for MDT to exert authority over MS4 users.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES, EESS
Measurable Goal or Performance Standard Utilized	Implement procedures described in MDT's ERP. Review written policies and procedures identified in MDT's ERP and update once every 5 years (i.e., permit cycle).
Quantitative Indicators Used and Results	No enforcement actions were performed in 2022.
Impact on SWMP Effectiveness	Allows for consistent and timely enforcement to eliminate prohibited discharges.

SWMP Activity or	Dry Weather Screening
Component Name	BMP-IDDE-06
Minimum Control	IDDE
Measure Name (If	
Applicable)	
General Permit	II.B.3
Condition Item	
Number (If	
Applicable)	
Brief Description of	Inspect outfalls during dry weather to detect illicit discharges and connections into the
Planned SWMP	MS4.
Action Taken	
Responsible	MDT - DEES
Agency,	
Department, or	
Organization; and	
Person or Position	
Measurable Goal or	The DEES is responsible for conducting dry weather screening at each high priority
Performance	outfall annually and screening each outfall at least once every five years (e.g., 20% of
Standard Utilized	outrails each year).
Quantitative	The IDDE protocole are quailable on the MDE intropoticity. In 2022, MDE undeted the
Indicators Used and	The IDDE protocols are available on the MDT intranet site. In 2022, MDT updated the
Results	list of outlans for each MS4 from information obtained in 2021. A High Priority list was
	also complied and will be used in 2023 dry weather screening. The 2022 dry weather
	The number of outfalls acrossed in 2021 by MS4 area are as follows:
	The number of outlans screened in 2021 by MS4 area are as follows.
	Billings/Yellowstone County: 17 of 23 (74%)
	Bozeman: $3 \text{ of } 14 (21\%)$
	Great Falls: 2 of 2 (100%)
	Kalispell: 5 of 10 (50%)
	Butte: 5 of 21 (24%)
	Missoula: 18 of 24 (75%)
	Helena: 8 of 9 (89%)
	 Helena MS4 – 08/16/2022: The inspection of outfall HLN 8 identified a risk of
	potential discharge via flow present. There was no odor present and the water
	was clear. The discharge appeared to be irrigation water from adjacent
	subdivision.
	 Great Falls MS4 08/17/2022: The inspection of outfall GFI_024 identified a risk of
	potential discharge via flow present. There was no odor present and the water
	was clear. The discharge appeared to be runoff of irrigation water. Inlets along
	Smelter Ave. NE were inspected. No water entering any inlets in this location.
	Storm drain runs from Smelter Ave. NE, beneath Calumet Refinery property,
	directly to outfall. No access, or ability to inspect area between Smelter Ave. NE
	and outfall. Additional photos attached showing various angles of outfall and
	inlets along Smelter Ave NE. Some garbage at outfall, but no other obvious
	signs of contamination.
Impact on SWMP	Proactive measure to identify illicit or illegal discharges that need to be eliminated.
Effectiveness	
SWMP Activity or Component Name	IDDE Field Guidance BMP-IDDE-07
---------------------------------------	-----------------------------------------------------------------------------------------
Minimum Control	IDDE
Measure Name (If	
General Permit	IIB3
Condition Item	
Number (If	
Applicable)	
Brief Description	Develop guidance to assist MDT personnel with detection and elimination of illicit
of Planned	discharges into the MS4.
SWMP Action	
Taken	
Responsible	MDT - SEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	MDT will develop an IDDE Field Guide that is designed to assist MDT personnel with
or Performance	detection and elimination of illicit discharges into the MS4. Develop field guidance by
Standard Utilized	December 31, 2023.
	The MULT DE Fleid Guide Will be developed by December 31, 2023.
and Results	
Impact on SWMD	Engages additional MDT personnal in identifying illipit discharges
Effectiveness	
Ellectivelless	

SWMP Activity or	Storm Water Control Contract Provisions
Component	BMP-CONST-01
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	MDT will use contractual agreements to ensure that projects are constructed in a manner
of Planned	that complies with federal, tribal, state, and local regulations.
SWMP Action	
Taken	
Responsible	MDT - EESS, FSE, PDEs
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Update and maintain standard special provisions for Storm Water Permitting Requirements
or Performance	Under the MPDES and Protection of Storm Water Drainage System and compliance with
Standard Utilized	Local Permit Requirements.
	Update MDT's Erosion and Sediment Control BMP Manual as needed to address new or
	changed regulatory requirements and/or BMP specifications.
	Ensure all projects let in MS4s contain the standard special provisions as outlined in MD1's
	Plans, Specifications, and Estimates (PS&E) Review Guidance for Projects Located in
	MS4s SOP. I rack all projects let in each MS4 and verify that required special provisions are
Overstitetive	
	Starm Water Dermitting Deguirements Under the MDDES was last undeted 2/16/2017, and
and Results	Storm Water Permitting Requirements Under the MPDES was last updated 5/10/2017. and
and Results	Protection of Storm water Dramage System and compliance with Local Permit
	Requirements was last updated 09/09/2021.
	MDT's Frasion and Sediment Control RMP Manual was last undated Dec 2016
	17 projects within MS4 boundaries were awarded for construction in 2022 All 17 contracts
	awarded for construction were reviewed and included STORM WATER PERMITTING
	REQUIREMENTS UNDER THE MONTANA POLI UTANT DISCHARGE ELIMINATION
	SYSTEM (MPDES) [208] (REV 3-16-17) special provision and it was determined that 15
	received the MS4 Guidance and MPDES special provisions in contract documents. IM 90-
	2(163)110 Bonner Interchange – East Project and TA 15(135) PATH PRESERVATION -
	KALISPELL did not include MS4 Guidance.
Impact on SWMP	Inclusion of storm water related provisions into contract packages allows for contract
Effectiveness	enforcement by MDT.

SWMP Activity or	Stormwater Management Plan Review Checklist
Component	BMP-CONST-02
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	MDT will utilize a stormwater management plan review checklist to confirm completeness of
of Planned	the CGP SWPPP packages prepared by contractors.
SWMP Action	
Taken	
Responsible	MDT - FSE, DEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Develop a storm water management plan review checklist that documents technology
or Performance	based effluent limitation requirements specified in the most current MPDES CGP. This
Standard Utilized	checklist will be used to confirm completeness of the CGP SWPPP packages prepared by
	contractors. Complete checklist by December 31, 2023.
	Beginning January 1, 2024, for projects within MS4s that require MPDES CGP
	authorization, utilize a stormwater management plan review checklist to confirm
	completeness of the CGP SWPPP packages prepared by contractors. Report projects let in
	each MS4 that require MDPES CGP authorization, date the checklist is completed and any
	findings in Annual Review after January 1, 2024.
Quantitative	Development of the water management checklist will be completed by December 31, 2023.
Indicators Used	
and Results	Every project let within each MS4 that requires a CGP SWPPP will be entered into the
	review checklist and findings will be in the Annual Review after Jan 1 st ,2024.
Impact on SWMP	Ensures consistent review of storm water management plans and compliance with
Effectiveness	regulatory requirements to the maximum extent of contractual agreement.

SWMP Activity or	Environmental Construction Oversight Inspections
Component	BMP-CONST-03
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	MDT environmental and construction personnel inspect features as they are being
of Planned	constructed to ensure that they are constructed according to the contract documents and to
SWMP Action	ensure compliance with federal, tribal, state, and local laws.
Taken	
Responsible	MDT - FSE, DEES, EPM and Construction Crews
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	For MDT-administered construction projects, the EPM and/or MDT construction crew will
or Performance	inspect all BMPs bi-weekly and document findings in BMP Inspection Report. This
Standard Utilized	information is tracked in AASH OWARE and a periodic audit of records in database is
	performed.
	Undete NDT's MOA Construction and Deet. Construction DEEC Inspection Presedure COD
	Update MDT's MS4 Construction and Post-Construction DEES Inspection Procedure SOP
	and environmental construction oversignt inspection checklist as needed to address new or
	changed regulatory requirements.
	Complete environmental construction oversight inspections in accordance with MDT's $MS4$
	Construction and Post Construction DEES Inspection Procedure SOP. Document findings
	using Environmental Construction Inspection form
Quantitative	
Indicators Used	The DEES inspected MDT projects within each MS4 in accordance with the February 2016
and Results	MS4 Construction and Post-Construction DEES Inspection Procedures. Targeted inspection
	frequencies are based on risk to water quality. The number of DEES' construction oversight
	inspections that occurred in each MS4 area during 2022 are as follows:
	Billings/Yellowstone County: 22
	Bozeman: 0
	Butte: 3
	Great Falls:23
	Helena: 5
	Kalispell: 7
	Missoula: 30
	The Environmental Construction Inspection form was used to document these inspections.
	Construction inspections are tracked in an excel spreadsheet
Impact on SWMP	Ensures construction storm water management controls are installed, operated, and
Effectiveness	maintained as designed.

SWMP Activity or	ERP
Component	BMP-CONST-04
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	Identifies policies and procedures for MDT to exert authority over MDT contractors.
of Planned	
SWMP Action	
Taken	
Responsible	MDT - EESS, DEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	MDT will implement procedures described in MDT's ERP. The written policies and
or Performance	procedures identified in MDT'S ERP will be reviewed and updated once every 5 years (i.e.,
Standard Utilized	permit cycle).
Quantitative	MDT ERP was not updated in 2022 and no enforcement actions were performed in 2022.
Indicators Used	
and Results	
Impact on SWMP	Allows for consistent and timely enforcement to address identified deficiencies.
Effectiveness	

SWMP Activity or Final Walk-Through	
Component BMP-CONST-05	
Name	
Minimum Control Construction Site Runoff Control	
Measure Name (If	
Applicable)	
General Permit II.B.4	
Condition Item	
Number (If	
Applicable)	
Brief Description During the project finalization process conduct a final MPDES walk-through for proj	iects that
of Planned	/ For
SWMP Action sites that have not vet reached final stabilization transfer CGP coverage from contr	actor to
Taken MDT maintenance or a local entity	
Pasponsible MDT - DEES	
Department or	
Organization:	
and Parson or	
Position	
Measurable Goal Eor projects that require MPDES CGP authorization, the DEES will conduct a final w	valk_
or Performance I through inspection in accordance with MDT's MS4 Construction and Post-Construct	tion
Standard Utilized DEES Inspection Procedure SOP. Findings will be documented using the Prelimina	nv and
Final MPDES/NPDES Permit Walk-through forms or with MPDES/NPDES Final	ry anu
Stabilization Inspection form for projects where CGP termination is proposed	
Indicators lised In 2022 one project permit within MDT's MS4 boundaries were transferred. As a re-	sult the
and Results	from the
contractor to MDT or local entity	
contractor to MD1 or local entity.	
Billings - 0	
Butte – 0	
Bozeman - 0	
Great Falls – 1	
Helena - 0	
Kalispell – 0	
Impact on SWMP Once physical work at a construction site is concluded, the contractor is no longer in	n
Effectiveness operational control and CGP coverage is transferred to the appropriate entity. Durin	a this
walk-through MDT may direct the contractor to remove unnecessary temporary RM	9 uno IPs
replace temporary BMPs with permanent or long-term BMPs, provide additional term	norary
or permanent RMPs or perform RMP maintenance. Once the on-site conditions are	porary
acceptable and there are no unresolved violations for the site. CGP coverage is trar	nsferred

SWMP Activity or	Program Evaluation
Component	BMP-CONST-06
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	Discuss and solicit feedback on stormwater-related issues and suggested program
of Planned	improvements.
SWMP Action	
Taken	
Responsible	MDT - DEES, SEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	DEES to attend at least one MDT District EPM meeting per year to discuss stormwater-
or Performance	related issues and solicit feedback using SWMP feedback form(s) and/or through meeting
Standard Utilized	summary.
	SEES to review feedback received and determine if there are topics that need to be
	discussed further with appropriate stormwater program staff and whether changes to the
Quantitativa	
	The DEES ottended their respective district EDM meetings on the following dates and
and Results	The DEES allended their respective district EPM meetings on the following dates and
and Results	
	Missoula District (Missoula, Kalispall MS4s) 2/24/22
	Great Falls (Great Falls, Helena), 3/21/2022
	Butte District (Bozeman, Butte MS4s) – 3/15/2022 [,] 6/2/2022
	Billings District (Billings/Yellowstone County MS4) –
	1/26/2022;2/24/2022;3/3/2022;3/15/2022;4/7/2022
Impact on SWMP	Identifies issues and allows for improvement of the SWMP.
Effectiveness	

SWMP Activity or	Construction Site Storm Water Management Public Input
Component	BMP-CONST-07
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	Address storm water complaints identified by the public via MDT's website, social media
of Planned	sites, and/or phone calls.
SWMP Action	
Taken	
Responsible	MDT - EPM, DEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Address storm water complaints identified by the public via MDT's website and/or phone
or Performance	calls. Enlist assistance from DEES to resolve.
Standard Utilized	
	When requested by EPM, conduct an environmental construction oversight inspection within
	14 days of the complaint. Findings will be documented using Environmental Construction
	Inspection form.
	These goals to be implemented by December 31, 2023.
Quantitative	
Indicators Used	MDT's website will be updated in 2023 and will include the ability to report complaints.
and Results	
Impact on SWMP	Allows consideration of public input when received and provides timeframe to resolve
Effectiveness	identified issues.

SWMP Activity or	Construction Site Personnel Training
Component	BMP-CONST-08
Name	
Minimum Control	Construction Site Runoff Control
Measure Name (If	
Applicable)	
General Permit	II.B.4
Condition Item	
Number (If	
Applicable)	
Brief Description	Train MDT personnel in the selection, implementation, inspection, and maintenance of
of Planned	storm water BMPs.
SWMP Action	
Taken	
Responsible	MDT - DEES/SEES
Agency	
Department or	
Organization:	
and Person or	
Position	
Measurable Goal	Conduct routine construction site SWPPP training in accordance with Section 2.2.2 of the
or Performance	MDT SW/MP document
Standard Utilized	
Stanuaru Otinizeu	DEES to conduct annual training event at district level during EDM meetings and section
	mostings for maintanance percented
Quantitative	MDT's new "MDT Classroom" for MDT maintenance personnel went live in November 2019
Indicators Used	Eleven maintenance personnel and 17 construction personnel participated in the online
and Results	SWPPP training in 2021 Additionally one new DEES the SEES and the Reclamation
	Specialist attended BMP 101/201 trainings in 2021 receiving SWPPP Administrator
	certification, and the Field Services Engineer was recertified
	The DEES provided training at MDT maintenance staff meetings on various stormwater
	topics including environmental permitting & MS4_IDDE_erosion control and BMPs, the new
	online SWPPP Administrator training BMP repairs and spill prevention. The maintenance
	staff meeting training events were as follows:
	Billings/Yellowstone County: 10/20/2022
	Butte/Bozeman/Helena: 12/19/2022:12/2022
	Missoula: 7/13/2022
	Great Falls: 12/22/2022
	Kalisnell: 10/25/22
Impact on SWMP	Ensure staff are qualified to review storm water construction BMPs and understand
Fffectiveness	inspection protocols and enforcement responses
LIICUIVEIIC33	Inspection protocolo and emotoement responses.

SWMP Activity or	Identify Regulated Projects
Component	BMP-POST-01
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Review projects to determine if the project is in an MS4, whether the project is considered a
of Planned	new or redevelopment project, and whether the area of disturbance is expected to be over
SWMP Action	the applicable regulatory threshold(s).
Taken	
Responsible	MDT - PDEs
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	PDEs will review 100% of MDT administered construction projects to determine if the
or Performance	project is in an MS4, whether the project is considered a new or redevelopment project, and
Standard Utilized	whether the area of disturbance is expected to be over the applicable regulatory
	threshold(s). The PDEs will document this determination in the project's environmental
	document (e.g., categorical exclusion, environmental assessment, or environmental impact
	statement.)
	PDEs will review 100% of the encroachment and approach permit application environmental
	checklists for projects located within an MS4. The PDEs will provide appropriate MS4-
Overtitetive	related information to be included in the permit issuance correspondence.
	In 2022 MDT implemented a new utility encroachment permitting system named OPAS, that
indicators Used	documents the review fully within an online interface. Therefore, no email correspondence
and Results	ouiside of system is generated. MDT used a spreadsheet to track these OPAS reviews.
	In 2022 the PDEs reviewed:
	• 46 encroachment and approach permits within MDT MS4 areas through the SIAP
	 Process (Tracked via email and spreadsheet)
	 81 LIPAS encroachment permits (Tracked via spreadsheet only)
Impact on SWMP	Identifies projects for which designers should incorporate storm water management controls
Fffectiveness	that reflect or improve upon predevelopment hydrology. While MDT does not have the
LINGUIVEIIE33	authority to write ordinances or requirements for storm water design criteria on pop-MDT
	proposed projects, MDT can and does enforce MDT standards on MDT projects.

SWMP Activity or	PESC Design
Component	BMP-POST-02
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Describe procedures and methods used to address long-term erosion associated with
of Planned	highway construction and the resultant highway-related storm water runoff.
SWMP Action	
Taken	
Responsible	MDT - Road Designers, District Hydraulics Engineer, PDEs, Hydraulics Engineer
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Evaluate projects in accordance with MDT's PESC Design Guidelines. Recommendations
or Performance	to be documented in milestone reports.
Standard Utilized	
	Assist in selection of appropriate PESC treatment for various types of erosion. In
	coordination with Road Design, develop plans and specifications for selected PESC.
	Review projects throughout project development and ensure PESC considered and
	incorporated into projects as appropriate.
	In coordination with MDT Environmental Engineering Section, update MDT's PESC Design
	Guidelines as needed to address new or changed regulatory requirements and/or design
	guidelines.
Quantitative	
Indicators Used	MDT'S PESC Manual was updated in 2018. To ensure 100% of the plans within Small
and Results	MS4s consider incorporation of PESC measures, MDT's design milestone report templates
	have been modified to include a specific section documenting PESC measures considered
	during design. These milestone reports are required to be completed for MDT federal aid
Impact on SWMP	Provides information to designers on the selection of appropriate PESC measures to be
Effectiveness	Included in MDT plans packages.

SWMP Activity or Component	Low Impact Development (LID) Practice Analysis BMP-POST-03
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	Evoluate LID techniques for MDT construction projects and at its facilities within the MS4
of Planned	areas when upgrades to the facilities are implemented and new or redevelopment takes
SWMP Action	
Taken	
Responsible	MDT - EESS, PDEs, District Hydraulics Engineers
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	In coordination with MDT Hydraulics Section, the EESS will update and maintain LID
or Performance	Practice Analysis form as needed to address new or changed regulatory requirements and
Standard Utilized	changes to project development procedures.
	Identify in any ironmental document projects that require an LID Practice Analysis and work
	with District Hydraulics Engineer to document conclusions
	For 100% of identified projects. District Hydraulics engineers will complete the LID Practice
	Analysis form to document how post-construction runoff from the first 0.5 inches of rainfall is
	being managed.
Quantitative	A new LID form has been drafted in 2022 and will be implemented in 2023.
Indicators Used	
and Results	15 of 15 (100%) MDT design projects within MS4 areas at various levels of project
	development received LID analysis review in 2022. Although MDT's requirement is to
	incorporate LID practices into the project design as "practicable," MDT and its contractors
	must also meet the LID requirements of the MS4 where the project will occur.
Impact on SWMP	Ensures new and redevelopment projects reflect or improve upon the predevelopment
Effectiveness	hydrology through infiltration, evapotranspiration, and capture for reuse.

SWMP Activity or	Offsite Treatment Criteria and Formal Review/Approval Process
Component	BMP-POST-04
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Develop and apply criteria for determining when offsite treatment may be allowed.
of Planned	
SWMP Action	
Taken	
Responsible	MDT - EESS, Hydraulics Engineer, SEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Develop criteria for determining when offsite treatment will be allowed on MDT projects and
or Performance	a formal review and approval process for these determinations. Complete criteria and
Standard Utilized	process by December 31, 2023.
	Starting January 1, 2024, maintain an inventory of regulated projects that utilize off-site
	treatment for post-construction storm water runoff. Track projects and document in Annual
	Review starting January 1, 2025.
Quantitative	Consultant currently under contract to develop tracking criteria for determining offsite
Indicators Used	treatment.
and Results	
Impact on SWMP	Provides preference for on-site treatment except for instances of technical or logistical
Effectiveness	infeasibility.

SWMP Activity or	Post-Construction Storm Water Control Inspections
Component	BMP-POST-05
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Consistently and thoroughly inspect PESC features.
of Planned	
SWMP Action	
Taken	
Responsible	MDT - EPM and Construction Crews, Maintenance Section Personnel, DEES
Agency	
Department or	
Organization:	
and Person or	
Position	
Measurable Goal	For MDT-administered construction projects where post-construction storm water controls
or Performance	are installed, the EPM and/or MDT construction crew will inspect all BMPs bi-weekly and
Standard Utilizod	document findings in BMP Inspection Report. Track in AASHTOWARE and perform periodic
Stanuaru Otinzeu	audit of results in the database
	For projects where MDT is authorized to discharge under the MPDES CCP, maintenance
	section personnel will inspect post-construction storm water controls (i.e. permanent
	erosion and sediment controls) in accordance with permit requirements. Inspections will be
	documented using DEO's self-inspection report form. Perform periodic audit of maintenance
	SWPPP documents and document compliance
	For other post-construction storm water control inspections, maintenance section personnel
	will conduct routine inspections in accordance with agreements. MDT's Maintenance
	Manual and site-specific O&M Manuals, as applicable. Findings will be documented in
	Maintenance Management System (MMS), Track in MMS and perform periodic audit of
	records in database
	For projects that have reached final stabilization and termination under the CGP is
	proposed the DEES will inspect the site and document findings with MPDES/NPDES Final
	Stabilization Inspection form For MDT authorizations the DEES will also complete a Notice
	of Termination Record project name MDPES CGP authorization number date(s)
	inspected, final stabilization determination, date NOT issued.
Quantitative	Missoula MS4 - 2 Projects reached final stabilization and were terminated in 2022
Indicators Used	Helena MS4-1 Project reached final stabilization and was terminated in 2022
and Results	
Impact on SWMP	Ensures post-construction storm water management controls are installed operated, and
Effectiveness	maintained as designed.

SWMP Activity or	Federal Re-Vegetation Management Program
Component	BMP-POST-06
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Provide additional revegetation efforts when necessary to reach final stabilization for eligible
of Planned	projects
SWMP Action	
Taken	
Responsible	MDT - SEES Reclamation Specialist
Δαρηςγ	
Department or	
Organization:	
and Porson or	
Position	
Moseurable Goal	Annually, the SEES will identify projects with open CCP permits held by MDT for more than
or Porformanco	two growing soasons. The SEES will provide the list to the ESE and Peelomation Specialist
Standard Utilized	for consideration of project nomination under the ESP administered federal re-vegetation
Stanuaru Otilizeu	nor consideration of project normaliation under the ESD-administered rederative-vegetation
	program. Track identified project name, MDFES CGF authorization number, and
	recommended improvement(s).
	For projects nominated within MS/s, the reclamation specialist will determine if
	improvements to storm water run off control and infiltration can be improved with further re-
	Improvements to storm water run-on control and immitation can be improved with further re-
	identified, the reclamation energialist will develop and let a contract under this program
	Report Dates(a) and location(a) of projects let under Endered Reversetation Management
	Report Dates(s) and location(s) of projects let under Federal Revegetation Management
Quantitativo	
	In 2022, the following project was awarded within the Putte MS4 within MS4 Areas as
and Deputto	In 2022, the following project was awarded within the Dutte MS4 within MS4 Areas as
and Results	heeding vegetation improvement with the rederat Revegetation Management Program.
	boundary and revegetation lunds were used.
	RARUS-SILVERDUW CREEK STRUCTURES
	Localed within Dutte WS4 OFF-15/1-90 beginning at KP 124.1 and proceeding east to KP
	120.0 Awarded 10/00/00
Impost on SM/MD	Driaritizas use of federal re vegetation funde for prejecte leasted in MC4-
	Phonuzes use of rederal re-vegetation lunds for projects located in MIS4s.
Effectiveness	

SWMP Activity or	ERP
Component	BMP-POST-07
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Condition Item	
Number (If	
Applicable)	
Brief Description	Identifies policies and procedures for MDT to exert authority over MDT contractors.
of Planned	
SWMP Action	
Taken	
Responsible	MDT - EESS, DEES
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Implement procedures described in MDT's ERP. Additionally, review written policies and
or Performance	procedures identified in MDT's ERP and update as needed. Update once every 5 years
Standard Utilized	(i.e., permit cycle).
Quantitative	No updates to the ERP were made in 2022.
Indicators Used	
and Results	
Impact on SWMP	Allows for consistent and timely enforcement to address identified deficiencies.
Effectiveness	

SWMP Activity or Component	Post-Construction Storm Water Control Inventory BMP-POST-08
Name	
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Number (If	
Applicable)	
Brief Description	Maintain an inventory of post-construction storm water management controls.
of Planned	
SWMP Action	
Taken	
Responsible	MDT - SEES
Agency,	
Department, or	
organization;	
Position	
Measurable Goal	Beginning January 1, 2023, develop and maintain an inventory of post-construction storm
or Performance	water controls utilizing information contained in milestone reports, hydraulics reports, LID
Standard Utilized	Practice Analysis form, and construction plans and specifications.
Quantitative	
Indicators Used	Inventory of post-construction management controls is currently under development for
and Results	2023.
Impact on SW/MP	Allows for effective asset management to ensure routine inspections and maintenance
Fffectiveness	actions of post-construction storm water control occurs
LITCOLIVENESS	

SWMP Activity or	Inspection Prioritization
Component Name	BMP-POST-09
Minimum Control	Post-Construction Site Storm Water Management
Measure Name (If	
Applicable)	
General Permit	II.B.5
Number (If	
Applicable)	
Brief Description	Utilize a protocol to determine priority and minimum inspection frequency of post
of Planned	construction storm water management controls.
SWMP Action	
Taken Deenensible	MDT ESE Maintenance Division Onerations Manager SEES DEES
Agency	MDT - FSE, Maintenance Division Operations Manager, SEES, DEES
Department. or	
Organization;	
and Person or	
Position	
Measurable Goal	In coordination with MDT Maintenance Division, develop a protocol to determine priority and
Standard Utilized	hased on potential water quality impacts, with consideration for the operation and
	maintenance needs, proximity to waterbodies, drainage area treated, land use type, and
	location within an impaired watershed. Complete by December 31, 2023.
	In coordination with MDT Maintenance Division, develop a post-construction storm water
	With financial support from ESB, incorporate additional fields into MMS to capture post-
	construction storm water control inspection information. Communicate inspection
	requirements to maintenance personnel. Complete by December 31, 2024.
	Update post-construction storm water control inventory with priority ranking and minimum
	inspection frequency. Report priority ranking and inspection frequency in Annual Review
	starting January 1, 2025.
	Communicate with maintenance section personnel the post-construction storm water control
	communication and assistance maintenance personnel involved and perform periodic audit
	of records in MMS.
Quantitative	In 2022, a protocol was developed by Weston Solutions for MDT to identify guidance
Indicators Used	manuals and tracking systems that relate to post construction storm water controls. A
and Results	Summarized inventory with recommendations was presented to MDT Dec 30, 2022.
	storm water controls will be completed in 2023
	storm water controls will be completed in 2023.
	Coordination with Maintenance to develop a post-construction checklist is scheduled to be
	completed in 2023.
	Drigrity rankings and inspection frequencies will be tracked and will be repeated static relation
	1 2025
Impact on SWMP	Prioritizes inspections based on potential water quality impacts.
Effectiveness	

SWMP Activity or	Program Evaluation BMP-POST-10
Name	
Minimum Control Measure Name (If Applicable)	Post-Construction Site Storm Water Management
General Permit Condition Item Number (If Applicable)	II.B.5
Brief Description	Discuss and solicit feedback on stormwater-related issues and suggested program
of Planned SWMP Action Taken	improvements.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES, SEES
Measurable Goal or Performance Standard Utilized	DEES to attend at least one MDT Maintenance Division section person meeting per year to discuss stormwater-related issues and solicit feedback on suggested program improvements. Document feedback using SWMP feedback form(s) and/or through meeting summary. SEES to annually review feedback and determine if there are topics that need to be discussed further with appropriate stormwater program staff and whether changes to the SWMP are recommended
	SWMP are recommended.
Quantitative Indicators Used and Results	 Billings Division- October 20,2022 Conducted presentation to Maintenance. No feed back received required changes to SWMP. Bozeman Division 12/19/2022 Presented Lessons Learned from "15-Gallon Waste Oil Spill at Butte MS4 Facility on July 28, 2022" 13 Participants. No feed back received required changes to SWMP. Butte Division 12/22/2022 Presented Lessons Learned from "15-Gallon Waste Oil Spill at Butte MS4 Facility on July 28, 2022" 10 Participants. No feed back received required changes to SWMP. Great Falls Division 12/22/2022 Meeting/email sent for distribution to section foremen/crew members involved with Great Falls MS4. 3 Participants. No feed back received required changes to SWMP. Missoula Division 7/13/2022 Presented on permit close out, herbicide application, weed management and revegetation. 35 participants. No feed back received required changes to SWMP. Kalispell Division 10/25/2022 presented MS4 training to the Kalispell area Section Persons. 27 participants. No feed back received required changes to SWMP.
Impact on SWMP Effectiveness	Identifies issues and allows for improvement of the SWMP.

SWMP Activity or Component Name	Post-Construction Site Personnel Training BMP-POST-11
Minimum Control Measure Name (If Applicable)	Post-Construction Site Storm Water Management
General Permit Condition Item Number (If Applicable)	II.B.5
Brief Description of Planned SWMP Action Taken	Train MDT personnel in the selection, implementation, inspection, and maintenance of storm water BMPs.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EESS, Highways Engineer
Measurable Goal or Performance Standard Utilized	MDT will conduct routine post-construction storm water training to educate plan reviewers and inspectors on PESC and LID design, construction, and maintenance requirements in accordance with Section 2.2.3 of MDTs SWMP document. To be completed once every 5 years (i.e., permit cycle).
Quantitative Indicators Used and Results	On June 16, 2022, a comprehensive Storm Water Management Training class was held which reviewed the updated MDT MS4 management program. 14 attendees present.
Impact on SWMP Effectiveness	Ensure staff are qualified to review storm water postconstruction BMPs and understand inspection protocols and enforcement responses.

SWMP Activity or Component	MDT Facility and Activity Inventory BMP-PPGH-01
Minimum Control Measure Name (If	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6
Brief Description of Planned SWMP Action Taken	Develop and maintain inventory of MDT-owned and operated facilities and activities.
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES
Measurable Goal or Performance Standard Utilized	Develop and maintain an inventory of MDT-owned or operated facilities and activities that have the potential to contribute contaminants to the MS4.
Quantitative Indicators Used and Results	A facilities inventory was created in 2022 with last update occurring in December, 2022.
Impact on SWMP Effectiveness	Identify potential for MDT operations to contribute contaminants to the MS4.

SWMP Activity or Component	MDT Facility and Activity Mapping BMP-PPGH-02
Minimum Control Measure Name (If Applicable)	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6
Brief Description of Planned SWMP Action Taken	Add MDT facilities to MS4 maps.
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES, Geospatial Analyst
Measurable Goal or Performance Standard Utilized	Complete and update MS4 maps illustrating the location of each facility and activity identified in the MDT Facility and Activity Inventory. Complete maps by December 31, 2023, and update annually.
Quantitative Indicators Used and Results	Facility Data was collected for each MS4 facility in 2022 and mapping will be completed in 2023.
Impact on SWMP Effectiveness	Completes mapping of storm sewer system and identifies areas of potential discharge from MDT facilities.

SWMP Activity or	FPPPs and Spill Prevention, Controls, and Countermeasures (SPCCs)
Component	BMP-PPGH-03
Name	
Minimum Control	Pollution Prevention / Good Housekeeping
Measure Name (If	
Applicable)	
General Permit	II.B.6
Condition Item	
Number (If	
Applicable)	
Brief Description	Develop and implement FPPPs to identify facility-specific potential pollutant sources,
of Planned	associated BMPs, and inspection protocols. Incorporate SPCC plans into the FPPPs for
SWMP Action	facilities with a total aboveground oil storage capacity greater than 1,320 gallons.
Taken	
Responsible	MDT - FSE, DEES, SEES, Maintenance Chief, FPPP Inspector
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Ensure each MDT facility located within an MS4 has a site-specific FPPP. If the facility also
or Performance	has an SPCC plan, ensure it is appended to the FPPP. Update in accordance with MDT's
Standard Utilized	FPPP Update and Training Procedure SOP.
	Ensure FPPP is implemented and assign FPPP Inspector.
	Review FPPP and conduct monthly inspections of the facility. Complete FPPP inspection
	Checklist monthly.
	Deview menthly increation former and ensure corrective action(a) taken
	Review monthly inspection forms and ensure corrective action(s) taken.
	Review inspection forms and confirm identified corrective actions have occurred. Maintain
	central repository of inspection and EPPP documents. Distribute documents in accordance
	with MDT's FPPP Inspection Transmittal Procedure SOP.
Quantitative	
Indicators Used	100% of facilities were inspected each month, 100% of the time. Inspection forms were
and Results	reviewed and maintained and distributed in accordance with MDT's FPPP Inspections
	Transmittal Procedure SOP.
Impact on SWMP	Prevents and reduces pollution contributions to the MS4 from MDT facilities.
Effectiveness	

SWMP Activity or Component	Facility Storm Water Control Updates BMP-PPGH-04
Name	
Minimum Control	Pollution Prevention / Good Housekeeping
Measure Name (If	
General Permit	II.B.6
Condition Item	
Number (If	
Applicable)	Establishes funding prioritization for storm water central enhancements at evicting MDT facilities
of Planned	
SWMP Action	
Taken	
Responsible	MDT - DEES, SEES, FSE, EESS, Facilities Bureau Chief
Agency,	
Department, or Organization:	
and Person or	
Position	
Measurable Goal	DEES conduct an onsite review of each facility and complete the Annual FPPP Inspection Summary
or Performance	water control updates.
Stanuaru Utilizeu	
	SEES, FSE, EESS review each of the Annual FPPP Inspection Summary forms and prioritize funding
	To recommended storm water control updates. To be completed by April 1 ⁻⁴ annually.
	Annually meet to prioritize facility projects for funding that will benefit water quality in the MS4s (e.g.,
	vehicle wash bays, secondary containment, salt/sand shed, handling and storage, etc.) and develop a schedule for implementation. ESB funding will be provided for facility projects that will be completed
	within the schedule. Meeting to be held by May 1 st annually.
Quantitative	December 14, 2022, a meeting with Maintenance was held to discuss the 2022 Annual reports and
Indicators Used	A list and ranking of FPPP actions needed are as follows
and Results	High Priortiy #1 Billings - Main Facility • The long shed along the west side of the facility has no
	floor drains. Currently water melted from equipment containing salt, sediment, and vehicle oils is
	currently washed in the vard with wash water going directly into storm drains. A wash bay is
	necessary.
	High Priority #2 Helena - Maintenance Facility • A stormwater inlet is located on the southeast horder of the site and captures wash water from both sides of the section house as well as SW from a
	sand/salt stockpile. A retention pond may be constructed. Temporarily, controls need to be placed on
	the inlet. Straw wattles may be used for sediment.
	High Priority #3 Helena - Aeronautics Division • Run-on has been observed to enter the site on its southwest corner. An asphalt speed hump and/or parking lot regrading could be constructed across
	the site entrance to keep runon off the property.
	High Priortity #4 Great Falls - 57th Street • Retention ponds are located near the entrance and
	have been observed to overflow during large precipitation events. The retention ponds need to be
	• Brine tanks are stored on this site. Secondary containment can be added to the tanks.
	High Priortity #5 Butte Main Facility • Brine tanks do not have secondary containment.
	Secondary containment can be added to brine tanks. I emporarily can build a berm.
	added to these ASTs to limit the amount of SW entering the secondary containment • This
	site has a sand/salt stockpile. The stockpile could either have a covering or evaporation
	pond constructed.
Impact on SWMP	Allows for installation of additional BMPs to prevent and reduce pollution contributions to the MS4
Effectiveness	Trom MDT facilities.

SWMP Activity or Component Name	Facility Storm Water Awareness Posters BMP-PPGH-05
Minimum Control Measure Name (If Applicable)	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6
Brief Description of Planned SWMP Action Taken	Create storm water BMP poster for use at MDT maintenance facilities.
Responsible Agency, Department, or Organization; and Person or Position	MDT - Maintenance Staff
Measurable Goal or Performance Standard Utilized	Develop a poster for use at MDT facilities showing the various pollutants associated with MDT facilities and best practices to manage them. Complete and distribute poster by no later than December 31, 2023.
Quantitative Indicators Used and Results	Development of a poster showing pollutants and management practices is under way and location and distribution numbers will be tracked and reported.
Impact on SWMP Effectiveness	Educates MDT personnel on various pollutants associated with MDT facilities and associated BMPs.

SWMP Activity or	Field and Facility Personnel Training		
Component	BMP-PPGH-06		
Name			
Minimum Control	Pollution Prevention / Good Housekeeping		
Measure Name (If			
Applicable)			
General Permit	II.B.6		
Condition Item			
Number (If			
Applicable)			
Brief Description	Educate staff regarding storm water characteristics, water quality issues, and individual		
of Planned	responsibilities regarding the implementation of the Statewide SWMP, FPPPs, SPCC plans,		
SWMP Action	and associated SOPs.		
Taken			
Responsible	MDT - DEES, SEES		
Agency,			
Department, or			
Organization;			
and Person or			
Position			
Measurable Goal	Conduct site-specific FPPP training in accordance with MDT's FPPP Update and Training		
or Performance	<i>Procedure</i> SOP and Section 2.2.4 of MDTs SWMP document. To be completed every 3		
Standard Utilized	years.		
	Develop an on-line IDDE training program for use by MDT field personnel. Incorporate		
	requirements described in Section 2.2.4 of MDTs SWMP document. To be completed by		
0	December 31, 2024.		
Quantitative	MDT's FPPP training was completed at each MS4 area and the dates and locations are as		
Indicators Used	follows.		
and Results	Kelienell EDDD treining Two days Newsyshers 4, 0000		
	Kalispeli FPPP training Tuesday, November 1, 2022		
	Missoula MS4 FPPP Training Wednesday, November 2, 2022		
	Billings MS4 FPPP Training Tuesday, October 25, 2022		
	Creat Falls EDDD Training Manday, October 20, 2022		
	Great Fails FPPP Training Monday, October 3, 2022		
	Bozeman MS4 FPPP Training Wednesday, October 20, 2022		
	bulle MS4 FPPP Training Wednesday, October 19, 2022		
	A scope for an online IDDE training program to be completed by December 31 2024 bas		
	heen developed based on the requirements of Montana's April 2022 Ceneral Pormit for		
	Storm Water Discharges Associated with Small MSAs. As described in MDT's May 2022		
	Storm Water Management Program, the target audience for this training is MDT		
	maintenance construction and environmental personnel		
Impact on SWMP	Ensures staff understand storm water impacts associated with various maintenance		
Effectiveness	activities and controls that can be implemented.		

SWMP Activity or	Maintenance Manual and SOPs		
Component	BMP-PPGH-07		
Name			
Minimum Control	Pollution Prevention / Good Housekeeping		
Measure Name (If			
Applicable)			
General Permit	II.B.6		
Condition Item			
Number (If			
Applicable)			
Brief Description	Review and update MDT's Maintenance Manual and SOPs to address new or changed		
of Planned	regulatory requirements and/or design guidelines.		
SWMP Action			
Taken			
Responsible	MDT - Maintenance Division Operations Manager, EESS		
Agency,			
Department, or			
Organization;			
and Person or			
Position			
Measurable Goal	In coordination with MDT Environmental Engineering Section, update MDT's Maintenance		
or Performance	Operations and Procedures Manual as needed to address new or changed regulatory		
Standard Utilized	requirements and/or design guidelines.		
	EESS to develop written SOPs and/or site-specific O&M Manuals when needed to address		
	new or changed regulatory requirements and/or design guidelines.		
	Update required once every 5 years (i.e., permit cycle).		
Quantitative			
Indicators Used	In 2022 a review was performed to identify needed updates to the MDT Maintenance		
and Results	Operations and Procedures Manual as well as to develop SOPs and site specific O&M		
	Manuals.		
Impact on SWMP	Ensure MDT guidance and SOPs are up-to-date and reflect latest recommendations for		
Effectiveness	storm water protection.		

SWMP Activity or	Street Sweeping
Component	BMP-PPGH-08
Name	
Minimum Control	Pollution Prevention / Good Housekeeping
Measure Name (If	
Applicable)	
General Permit	II.B.6
Condition Item	
Number (If	
Applicable)	
Brief Description	Implement a street sweeping program that encompasses the streets and roadways,
of Planned	maintenance yards, and parking areas that MDT is responsible for maintaining. The street
SWMP Action	sweeping frequency depends on need and travel volumes. Sweepers also respond to
Taken	certain types of spills that require clean-up.
Responsible	MDT - Maintenance Personnel
Agency,	
Department, or	
Organization;	
and Person or	
Position	
Measurable Goal	Sweep 100% of the facilities and MDT maintained roads within small MS4s a minimum of
or Performance	one time each year. Recycle sanding materials whenever feasible. Track miles swept, year
Standard Utilized	and location.
Quantitative	
Indicators Used	MDT swept 100% of the MDT facilities and MDT maintained roads within the Small MS4s a
and Results	minimum of once in 2022. The breakdown obtained from MDT maintenance Division for miles sweet in each MS4 is as follows:
	Thies swept in each work is as follows.
	Missoula*: 386 miles
	Kalispell: 272 miles
	Rutte: 202 miles
	Bozeman*: 42 miles
	Great Falls: 275 miles
	Helena: 725 miles
	Billings/Yellowstone County: 396 miles
	*Note: MDT has contracted with the City of Missoula for sweeping on Broadway (Reserve to
	E. Missoula), Reserve, Higgins, 39 th , and Brooks. In Bozeman, MDT has an agreement
	with the City of Bozeman to do most of the sweeping.
Impact on SWMP	Prevents and reduces pollution contributions to the MS4 associated with MDT's winter
Effectiveness	maintenance operations.

Winter Maintenance Program
Pollution Prevention / Good Housekeeping
MDT will evaluate the Winter Maintenance Program for feasible ways to transition to more
environmentally friendly methods.
MDT - EESS, FSE
Peview Winter Maintenance Plans for areas/sections located in MS/s. Make
recommendations for environmental considerations, as appropriate. Undate once every 5
years (i.e., permit cycle).
A review of each MS4 area's winter maintenance program will be conducted and
recommendations for each area will be completed by Dec 31, 2023.
MDT must provide a reasonably safe level of service during the winter by conducting
more environmentally friendly methods, pollutant contributions to the MS4 can be reduced.

SWMP Activity or Component Name	Roadside Weed Management BMP-PPGH-010
Minimum Control Measure Name (If Applicable)	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6
Brief Description of Planned SWMP Action Taken	Minimize the use of chemical spraying for roadside weed management.
Responsible Agency, Department, or Organization; and Person or Position	MDT - Reclamation Specialist
Measurable Goal or Performance Standard Utilized	Work with maintenance personnel to encourage mechanical mowing vegetation management whenever possible. For instances when chemical spraying is necessary, follow the recommendations outlined in MDT's <i>Statewide Integrated Roadside Vegetation</i> <i>Management Plan</i> and conduct spraying under the supervision of a licensed chemical applicator. Contact maintenance once every 5 years (i.e., permit cycle).
Quantitative Indicators Used and Results	Great Falls Maintenance- 6/2/22 Urged mowing in selected locations. Field Services Weed Presentation 7/13/2022. Urged mowing during establishment period. Weed identification booklets were handed out.
Impact on SWMP Effectiveness	Reduces the contribution of pollutants to the MS4.

APPENDIX P

ADDITIONAL DETAILED INFORMATION: PLANNED ACTIVITES AND CHANGE DURING NEXT YEAR

SWMP Activity or Component	MDT Website (Internal/External) BMP-PEOIP-01	MDT Social Media Posts BMP-PEOIP-02	MDT Newsline BMP-PEOIP-03
Name Minimum Control Measure Name (If Applicable)	Public Education and Outreach on Storm Water Impacts & Public Involvement/Participation	Public Education and Outreach on Storm Water Impacts	Public Education and Outreach on Storm Water Impacts
General Permit Condition Item Number (If Applicable)	II.B.1/II.B.2	II.B.1	II.B.1
Brief Description of Planned SWMP Action Taken	Develop and utilize a website to provide a variety of storm water educational materials for the public and MDT employees.	Create awareness of storm water specific issues by utilizing MDT social media sites (e.g., Facebook, Instagram).	Create awareness amongst MDT stakeholders of storm water related issues.
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES	MDT - SEES	MDT - SEES
Measurable Goal or Performance Standard Utilized	MDT will increase the number of website visits each year. The number of website visits per calendar year will be recorded and reported in the Annual Report. MDT will review the website for currency of information and make updates by April 1 st annually. This will be tracked by providing a summary of the identified changes and the date the website was updated. MDT will develop and publish annual report or summary on website. Track by the date incorporated to website. MDT will create an online SWMP feedback reporting tool and incorporate by December 31, 2022. Track by the date incorporated to website. MDT will create an online illicit discharge reporting tool and incorporate by December 31, 2023. Track by the date incorporated to website.	This BMP will be measured by posting 4 storm water and 1 illicit discharge educational item on social media each year. The number of followers, likes, and comments per year will be tracked and reported in the Annual Report.	MDT will publish one storm water related article each year in MDT Newsline. The distribution numbers will be tracked and reported in the Annual Report.
Opportunity for Improvement	Incorporated to website. In 2022, new posts were developed for winter maintenance practices and stormwater control. -MDT's MS4 intranet page will continue to be updated to include additional storm water resources, recent training presentations, audit results, and a catalog of previous Facebook posts.	MDT will boost the frequency of posts for 2023 year and continue to increase social media followers as well as track feedback from social media posts.	MDT will publish at least one article in Newsline in 2023 and record distribution numbers.

SWMP Activity or Component	Public Outreach Events BMP-PEOIP-04	Public Feedback BMP-PEOIP-05	Adopt-A-Highway BMP-PEOIP-06
Name			
Minimum Control Measure Name (If Applicable)	Public Education and Outreach on Storm Water Impacts	Public Involvement/ Participation	Public Involvement/ Participation
General Permit Condition Item Number (If Applicable)	II.B.1	II.B.2	II.B.2
Brief Description of Planned SWMP Action Taken	Provide presentations on storm water issues at schools/universities, conferences, civic clubs, libraries, businesses, etc.	MDT will issue news releases annually in each MS4 soliciting public feedback on the SWMP.	MDT administers a statewide program where volunteers sign a contract to provide clean up services for a section of highway.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES	MDT - EESS	MDT - Adopt-A- Highway Program Manager
Measurable Goal or Performance Standard Utilized	Participate in one event each year in each MS4, provide printed materials, and solicit input at each event using the SWMP feedback form. The date, location, and number of people in attendance to the event will be tracked. Additionally, the type and number of printed materials and the number of completed feedback forms and comments received will be tracked. Identify and plan events by March 30 th and conduct the event by December 31 st of each year.	MDT will issue a 30-day public notice in each MS4 soliciting public feedback on the SWMP by June 30 th of each year. Date(s) of the public notice and the feedback received will be reported in the Annual Report.	MDT will maintain or increase the number of miles adopted each year under the Adopt-A- Highway program. The number of miles adopted within each MS4 will be reported in the Annual Report.
Opportunity for Improvement	In 2022 each DEES provided at least one presentation to their respective District. In 2023 MDT will continue this practice and schedule events by March 30 th .	MDT will issue public notice as advertised on time every year and strive to answer any feedback questions in a timely manner.	MDT continues to ad miles to the Adopt-A-Highway program, increasing every year. MDT expects 2023 year to continue this trend.

SWMP Activity or	Montana Storm Water Conference	Erosion Control Contractor Stakeholder Group
Component Name	BMP-PEOIP-07	
Minimum Control Measure Name (If Applicable)	Public Education and Outreach on Storm Water Impacts & Public Involvement/Participation	Public Involvement and Participation
General Permit Condition Item Number (If Applicable)	II.B.1/II.B.2	II.B.2
Brief Description of Planned SWMP Action Taken	MDT personnel to participate in statewide conference, when offered.	Create an MDT erosion control subcontractor stakeholder group to discuss storm water concerns and innovations.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EESS, FSE, DEES, Hydraulics Engineer	MDT - FSE
Measurable Goal or Performance Standard Utilized	MDT will participate in the Montana Storm Water Conference, when offered. The conference attended and MDT attendance information will be reported in the Annual Report.	MDT will develop an erosion control subcontractor stakeholder group that meets annually to discuss storm water concerns and innovations. This group is to be implemented by December 31, 2023, and stakeholder group participants and meeting attendance will be reported in the Annual Report.
Opportunity for Improvement	MDT employees attended the Storm Water conference in 2022. There will be no Storm Water Conference held in 2023.	Plans for the Implementation of an erosion control subcontractor stakeholder group, is under review and a meeting will be scheduled in 2023.

SWMP Activity or	Non-Storm Water Discharge	Storm Sewer System Mapping
Component Name	Identification	BMP-IDDE-02
	BMP-IDDE-01	
Minimum Control	IDDE	IDDE
Measure Name (If		
Applicable)		
General Permit Condition	II.B.3	II.B.3
Item Number (If		
Applicable)		
Brief Description of	Determine which potential non-storm	Develop an interactive geographical information
Planned SWMP Action	water discharges or flows are significant	system (GIS)-based MS4 storm sewer map that
Taken	and insignificant contributors of	shows locations of storm sewer system
	pollutants to the MS4.	components within each MS4.
Responsible Agency,	MDT - SEES	MDT - SEES, DEES, Geospatial Analyst
Department, or		
Organization; and		
Person or Position		
Measurable Goal or	Develop a list of potential non-storm	Complete and update storm sewer system maps
Performance Standard	water discharges identified as significant	for each MS4 illustrating storm sewer system
Utilized	contributors of pollutants (i.e., illicit	components including outfall locations, inlets,
	discharges). Document list in SWMP,	open channels, subsurface conduits/pipes, dry
	along with associated pollutants and	wells, manholes, and other similar discrete
	local controls. Incorporate in SWMP by	conveyances utilizing online interactive GIS
	December 31, 2023.	mapping tool. Include mapping elements for
		receiving waters and high priority areas/outfalls.
	Annually assess list of non-stormwater	Complete maps by December 31, 2023, and
	discharges identified as significant	update annually thereafter.
	contributors and update SWMP.	
	Beginning in 2025, conduct annual	Annually review agreements with cities and
	review by March 1st of each year.	counties to determine changes to MDT's storm
	Incorporate updates into SWMP by	sewer infrastructure responsibility. Provide any
	September 30th of each year.	updates to agreements in the stormwater
		responsibility table and report in the Annual
	Annually assess list of non-stormwater	Report.
	discharges identified as non-significant	
	contributors that will not be addressed as	Update MS4 boundary information as described in
	illicit discharges and update SWMP.	MDT's Mapping Update Procedure SOP.
	Conduct annual review by March 1st of	Annually, report the date the map was updated.
	each year. Incorporate updates into	
	SWMP by September 30th of each year.	Collect new mapping data elements as described
		in MDT's Mapping Update Procedure SOP
	Document compliance in Annual Report.	annually. Report the date the elements are
		incorporated into the MS4 mapping tool.
Opportunity for	MDT will perform updates as necessary.	MDT has contracted three consultant firms to
Improvement		complete mapping of MS4 sewer system
		components. Mapping will be completed by
		December 31, 2023.

SWMP Activity or Component Name	High Priority Assessment BMP-IDDE-03	IDDE Investigation and Corrective Action Plan (CAP) BMP-IDDE-04	
Minimum Control Measure Name (If Applicable)	IDDE	IDDE	
General Permit Condition Item Number (If Applicable)	II.B.3	II.B.3	
Brief Description of Planned SWMP Action Taken	Identify areas and outfalls that are most likely to contribute pollutants to the MS4.	Identifies processes that MDT uses to locate the source of an illicit discharge and select the appropriate corrective action.	
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES	MDT - EESS, DEES	
Measurable Goal or Performance Standard Utilized	MDT will identify high priority areas and outfalls in each MS4 as described in MDT's IDDE CAP. High Priority outfall designation will be completed by December 31, 2023. Update in accordance with MDT's IDDE CAP, which states the criteria for determining high priority outfalls is completed once per permit cycle with the exception of review of dry weather screening for illicit discharges which is completed annually. Review statewide dry weather screening information and illicit discharge incident reports to identify whether there are newly identified high priority outfalls. Report any changes to the High Priority outfall designation in the Annual Report.	Implement procedures described in MDT's IDDE CAP. Track illicit discharge investigations and corrective action data. Update MDT's IDDE CAP annually and report the date the guidance was updated.	
Opportunity for Improvement	A list of High priority areas and outfalls in each MS4 area will be completed by 2023 and updated annually.	No Illicit discharges were recorded in 2022. A list of High Priority Outfalls was compiled in 2022 and MDT updated the CAP January 2023. MDT will continue to track and document discharges as necessary.	
SWMP Activity or	Enforcement Response	Dry Weather Screening	IDDE Field Guidance
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Component Name	Plan (ERP)	BMP-IDDE-06	BMP-IDDE-07
	BMP-IDDE-05		
Minimum Control Measure	IDDE	IDDE	IDDE
General Permit Condition	II.B.3	II.B.3	II.B.3
Item Number (If			
Applicable)			
Brief Description of	Identifies policies and	Inspect outfalls during dry	Develop guidance to assist
Planned SWMP Action	procedures for MDT to	weather to detect illicit	MDT personnel with detection
Taken	exert authority over MS4	discharges and connections	and elimination of illicit
Deeneneible Ageney		Into the MS4.	discharges into the MS4.
Responsible Agency,	MDT - DEES, EESS	MDT - DEES	MDT - SEES
Organization: and Person			
or Position			
Measurable Goal or	Implement procedures	Conduct dry weather	MDT will develop an IDDE
Performance Standard	described in MDT's ERP.	screening at each high	Field Guide that is designed
Utilized	Report enforcement action	priority outfall annually.	to assist MDT personnel with
	data.		detection and elimination of
	Roviow written policion	Conduct dry weather	illicit discharges into the MS4.
	and procedures identified	least once every five years	Develop field guidance by
	in MDT's ERP and update	least once every live years.	December 31, 2023, and
	once every 5 years (i.e.,	The screenings will be	track distribution numbers.
	permit cycle).	tracked utilizing MDT's Outfall	
		Visual Assessment Form.	
Opportunity for	No enforcement actions	In 2022, MDT updated the	MDT will develop an IDDE
Improvement	were performed in 2022.	list of outfalls for each MS4	Field Guide that is designed
		from information obtained in	to assist MDT personnel with
	In 2023, MDT will review	2021. A High Priority list was	detection and elimination of
	written policies and	also compiled and will be	illicit discharges into the MS4.
	procedures identified in	used in 2023 dry weather	Develop field guidance by
		weather screening campaign	December 31, 2023.
		evaluated approximately 56%	
		of all currently listed MDT	
		outfalls.	
		MDT plans to increase the	
		number of inspected dry	
		weather screening areas for	
		the 2023 season.	

SWMP Activity or	Storm Water Control Contract	Stormwater Management Plan Review
Component Name	Provisions	Checklist
	BMP-CONST-01	BMP-CONST-02
Minimum Control Measure	Construction Site Runoff Control	Construction Site Runoff Control
Name (If Applicable)		
General Permit Condition	II.B.4	II.B.4
Item Number (If		
Applicable)		
Brief Description of	MDT will use contractual agreements to	MDT will utilize a stormwater management plan
Takan	ensure that projects are constructed in	
Taken	tribal state and least regulations	CGP SWPPP packages prepared by contractors.
Beeneneible Ageney		MDT ESE DEES
Department or	MDT - EESS, FSE, FDES	MDT - FSE, DEES
Organization: and Porson		
or Position		
Measurable Goal or	Indate and maintain standard special	Develop a storm water management plan review
Performance Standard	provisions for Storm Water Permitting	checklist that documents technology based
Utilized	Requirements Under the MPDES and	effluent limitation requirements specified in the
	Protection of Storm Water Drainage	most current MPDES CGP. This checklist will be
	System and Compliance with Local	used to confirm completeness of the CGP
	Permit Requirements. Report date	SWPPP packages prepared by contractors.
	special provision(s) last updated.	Complete checklist by December 31, 2023.
	Update MDT's <i>Erosion and Sediment</i>	Beginning January 1, 2024, projects within MS4s
	Control BMP Manual as needed to	that require MPDES CGP authorization will utilize
	address new or changed regulatory	a stormwater management plan review checklist
	requirements and/or BMP	to confirm completeness of the CGP SWPPP
	specifications. Report date manual was	packages prepared by contractors. Report
	last updated.	projects let in each MS4 that require MDPES
	Ensure all projects let in MS4s contain	CGP authorization, date the checklist is
	the standard appeals for in MS4S contain	offer leguers 1, 2024
	authing in MDT's Plans, Specifications	
	and Estimates (PS&E) Peview	
	Guidance for Projects Located in MSAs	
	SOP Track all projects let in each MS4	
	and verify that required special	
	provisions are included in contract	
	documents.	
	These goals are to be reported in the	
	Annual Report.	
Opportunity for	MDT will continue to track all projects	Development of the storm water management
Improvement	let in each MS4 and verify that required	checklist will be completed by December 31,
	special provisions are included in	2023.
	contract documents.	
1		1

SWMP Activity or	Environmental Construction Oversight	ERP
Component Name	Inspections	BMP-CONST-04
	BMP-CONST-03	
Minimum Control	Construction Site Dunoff Control	Construction City Dunoff Control
Minimum Control Moasuro Namo (If	Construction Sile Runon Control	Construction Sile Runoil Control
Applicable)		
General Permit Condition	II.B.4	II.B.4
ltem Number (lf		
Applicable)		
Brief Description of	MDT environmental and construction personnel	Identifies policies and procedures for
Planned SWMP Action	inspect features as they are being constructed to	MDT to exert authority over MDT
Taken	ensure that they are constructed according to the	contractors.
	federal tribal state and local laws	
Responsible Agency.	MDT - FSE, DEES, EPM and Construction Crews	MDT - EESS, DEES
Department, or	, ,	,
Organization; and Person		
or Position		
Measurable Goal or	For MDT-administered construction projects, the	Implement procedures described in
Performance Standard	EPM and/or MDT construction crew will inspect all RMPs bitwookly and document findings in RMP	MDTSERP.
Otinzed	Inspection Report Track in AASHTOWARE and	Review written policies and
	perform periodic audit of records in database.	procedures identified in MDT's ERP
		and update once every 5 years.
	Update MDT's MS4 Construction and Post-	Track date of review and date
	Construction DEES Inspection Procedure SOP and	guidance updated.
	environmental construction oversight inspection	
	checklist as needed to address new or changed	
	in Annual Report	
	Complete environmental construction oversight	
	inspections in accordance with MDT's MS4	
	Construction and Post Construction DEES	
	Inspection Procedure SOP. Document findings using	
	Environmental Construction Inspection form. Report	
	environmental oversight inspection(s) and findings	
	including associated MPDES CGP authorization	
	number, location, size and topography of site, and	
	proximity of site to waterbodies. Document	
	compliance in the Annual Report.	
Opportunity for	An updated DEES Inspection Procedure SOP will be	In 2023 MDT will review and update
Improvement	produced to accommodate the use of notepads to be	Written policies and procedures
	used in the lield.	Idenulied in MDTSERP
	Inspections of each project with MS4 boundaries will	
	be performed monthly and tracked using inspection	
	forms as well as with tracking spreadsheets.	

SWMP Activity or	Final Walk-Through	Program Evaluation
Minimum Control Measure	Construction Site Runoff Control	Construction Site Runoff Control
Name (If Applicable)		
General Permit Condition Item Number (If	II.B.4	II.B.4
Brief Description of Planned SWMP Action Taken	During the project finalization process, conduct a final MPDES walk-through for projects that require MPDES CGP coverage. Ensure BMPs are installed and functioning properly. For sites that have not yet reached final stabilization, transfer CGP coverage from contractor to MDT maintenance or a local entity.	Discuss and solicit feedback on stormwater- related issues and suggested program improvements.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES	MDT - DEES, SEES
Measurable Goal or Performance Standard Utilized	For projects that require MPDES CGP authorization, conduct a final walk- through inspection in accordance with MDT's MS4 <i>Construction and Post-</i> <i>Construction DEES Inspection</i> <i>Procedure</i> SOP. Document findings using Preliminary and Final MPDES/NPDES Permit Walk-through forms, or with MPDES/NPDES Final Stabilization Inspection form for projects where CGP termination is proposed. Track projects let in each MS4 that require MDPES CGP authorization, date of Preliminary and Final Walk- through inspections, and date project closed out. Report annually.	Attend at least one MDT District EPM meeting per year to discuss stormwater-related issues and solicit feedback on suggested program improvements. Document feedback using SWMP feedback form(s) and/or through meeting summary. Track date and location of EPM meeting, attendees, topics covered, and feedback received. Report annually. Annually review feedback and determine if there are topics that need to be discussed further with appropriate stormwater program staff and whether changes to the SWMP are recommended.
Opportunity for Improvement	MDT will continue to track projects let within MS4 boundaries and complete Permit Final Walk-Throughs for Permit Transfers as well as Permit Termination.	DEES will continue to attend EPM meetings and present information involving MS4 stormwater related issues.

SWMP Activity or Component Name	Construction Site Storm Water Management Public Input	Construction Site Personnel Training
Minimum Control Measure Name (If Applicable)	Construction Site Runoff Control	Construction Site Runoff Control
General Permit Condition Item Number (If Applicable)	II.B.4	II.B.4
Brief Description of Planned SWMP Action Taken	Address storm water complaints identified by the public via MDT's website, social media sites, and/or phone calls.	Train MDT personnel in the selection, implementation, inspection, and maintenance of storm water BMPs.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EPM, DEES	MDT - DEES/SEES
Measurable Goal or Performance Standard Utilized	Address storm water complaints identified by the public via MDT's website and/or phone calls. Enlist assistance from DEES to resolve. Track project, location, feedback received, and resolution. When requested by EPM, conduct an environmental construction oversight inspection within 14 days of the complaint. Document findings using Environmental Construction Inspection form. Implement these goals by December 31, 2023, and provide documentation for Annual Report thereafter.	Conduct routine construction site SWPPP training in accordance with Section 2.2.2 of the MDT SWMP document. DEES to conduct annual training event at district level during EPM meetings and section meetings for maintenance personnel.
Opportunity for Improvement	MDT's website will be updated in 2023 and will include the ability to report complaints.	MDT will continue to provide training at Maintenance meetings as well as online via MDT Classroom.

SWMP Activity or	Identify Regulated Projects	PESC Design
Component Name	BMP-POST-01	BMP-POST-02
-		
Minimum Control Measure	Post-Construction Site Storm Water	Post-Construction Site Storm Water
Name (If Applicable)	Management	Management
General Permit Condition	II.B.5	II.B.5
Item Number (If		
Applicable)		
Brief Description of	Review projects to determine if the	Describe procedures and methods used to
Planned SWMP Action	project is in an MS4, whether the project	address long-term erosion associated with
Taken	is considered a new or redevelopment	highway construction and the resultant highway-
	project, and whether the area of	related storm water runoff.
	disturbance is expected to be over the	
	applicable regulatory threshold(s).	
Responsible Agency,	MDT - PDEs	MDT - Road Designers, District Hydraulics
Department, or		Engineer, PDEs, Hydraulics Engineer
Organization; and Person		
or Position		
Measurable Goal or	PDEs will review 100% of MDT	Evaluate projects in accordance with MDT's
Performance Standard	administered construction projects to	PESC Design Guidelines. Document
Utilized	determine if the project is in an MS4,	recommendations in milestone reports.
	whether the project is considered a new	
	or redevelopment project, and whether	Assist in selection of appropriate PESC
	the area of disturbance is expected to be	treatment for various types of erosion. In
	over the applicable regulatory	coordination with Road Design, develop plans
	this determination in the preject's	and specifications for selected PESC.
		Boview projects throughout project development
	environmental document (e.g.,	and onsure PESC considered and incorporated
	assessment or environmental impact	into projects as appropriate
	statement)	
	Statement.)	In coordination with MDT Environmental
	PDEs will review 100% of the	Engineering Section update MDT's PESC
	encroachment and approach permit	Design Guidelines as needed to address new or
	application environmental checklists for	changed regulatory requirements and/or design
	projects located within an MS4. The	guidelines. Report date manual last updated.
	PDEs will provide appropriate MS4-	
	related information to be included in the	Document compliance in the Annual Report.
	permit issuance correspondence.	
	Track completion of environmental	
	documentation and environmental	
	checklists in tracking spreadsheets.	
	Document compliance in the Annual	
	Report.	
Opportunity for	MDT PDEs will continue to review and	MDT will continue to investigate PESC Manual
Improvement	track 100% of all administered	updates and training opportunities in 2023, in
	construction projects to determine if each	coordination with MDT Hydraulics and Road
	project is within MS4 boundaries.	Design personnel.

SWMP Activity or	Low Impact Development (LID)	Offsite Treatment Criteria and Formal
Component Name	Practice Analysis	Review/Approval Process
	BMP-POST-03	BMP-POST-04
Minimum Control	Post-Construction Site Storm Water	Post-Construction Site Storm Water Management
Measure Name (If	Management	
Applicable)		
General Permit Condition	II.B.5	II.B.5
Item Number (If		
Applicable)		
Brief Description of	Evaluate LID techniques for MDT	Develop and apply criteria for determining when
Planned SWMP Action	construction projects and at its facilities	offsite treatment may be allowed.
Taken	within the MS4 areas when upgrades to	
	the facilities are implemented and new	
	or redevelopment takes place.	
Responsible Agency,	MDT - EESS, PDEs, District Hydraulics	MDT - EESS, Hydraulics Engineer, SEES
Department, or	Engineers	
Organization; and Person		
or Position		
Measurable Goal or	In coordination with MDT Hydraulics	Develop criteria for determining when offsite
Performance Standard	Section, the EESS will update and	treatment will be allowed on MDT projects and a
Utilized	maintain LID Practice Analysis form as	formal review and approval process for these
	needed to address new or changed	determinations. Complete criteria and process by
	regulatory requirements and changes to	December 31, 2023.
	project development procedures.	
		Starting January 1, 2024, maintain an inventory of
	Identify in environmental document	regulated projects that utilize on-site treatment for
	Applying and work with District	projects and decument in Appual Papert starting
	Analysis and work with District	
		January 1, 2025.
	For 100% of identified projects. District	
	Hydraulics engineers will complete the	
	LID Practice Analysis form to document	
	how post-construction runoff from the	
	first 0.5 inches of rainfall is being	
	managed.	
	Track dates of updated form and	
	projects that require an LID analysis for	
	Annual Report.	
Opportunity for	The new LID form that was drafted in	Consultant currently under contract to develop
Improvement	2022 will be implemented in 2023.	tracking criteria for determining offsite treatment.

SWMP Activity or Component Name	Post-Construction Storm Water Control Inspections BMP-POST-05	Federal Re-Vegetation Management Program BMP-POST-06
Minimum Control Measure Name (If Applicable)	Post-Construction Site Storm Water Management	Post-Construction Site Storm Water Management
General Permit Condition Item Number (If Applicable)	II.B.5	II.B.5
Brief Description of Planned SWMP Action Taken	Consistently and thoroughly inspect PESC features.	Provide additional revegetation efforts when necessary to reach final stabilization for eligible projects.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EPM and Construction Crews, Maintenance Section Personnel, DEES, SEES	MDT - SEES, Reclamation Specialist
Measurable Goal or Performance Standard Utilized	 For MDT-administered construction projects where post- construction storm water controls are installed, the EPM and/or MDT construction crew will inspect all BMPs bi- weekly and document findings in BMP Inspection Report. Track in AASHTOWARE and perform periodic audit of results in the database. For projects where MDT is authorized to discharge under the MPDES CGP, maintenance section personnel will inspect post-construction storm water controls (i.e., permanent erosion and sediment controls) in accordance with permit requirements. Inspections will be documented using DEQ's self-inspection report form. Perform periodic audit of maintenance SWPPP documents and document compliance in Annual Report. For other post-construction storm water control inspections, maintenance section personnel will conduct routine inspections in accordance with agreements, MDT's Maintenance Manual, and site-specific O&M Manuals, as applicable. Findings will be documented in Maintenance Management System (MMS). Track in MMS and perform periodic audit of records in database. For projects that have reached final stabilization and termination under the CGP is proposed, the DEES will inspect the site and document findings with MPDES/NPDES Final Stabilization Inspection form. For MDT authorizations, the DEES will also complete a Notice of Termination. Record project name, MDPES CGP authorization number, date(s) inspected, final stabilization determination, date NOT issued. 	Annually, the SEES will identify projects with open CGP permits held by MDT for more than two growing seasons. The SEES will provide the list to the FSE and Reclamation Specialist for consideration of project nomination under the ESB- administered federal re- vegetation program. Track identified project name, MDPES CGP authorization number, and recommended improvement(s). Report number of projects nominated in Annual Report. For projects nominated within MS4s, the reclamation specialist will determine if improvements to storm water run-off control and infiltration can be improved with further re- vegetation using the Federal Revegetation Management Program. If improvements are identified, the reclamation specialist will develop and let a contract under this program. Report Dates(s) and location(s) of projects let under Federal Revegetation Management Program in an MS4for Annual Report.
Opportunity for Improvement	MDT will continue to actively work with Maintenance and Construction EPMs to ensure each project's storm water controls are maintained and in compliance.	MDT will continue to evaluate projects with open CGP permits held over more than two years for possible nomination to the Federal re-vegetation program.

SWMP Activity or	ERP	Post-Construction Storm Water Control
Component Name	BMP-POST-07	Inventory
-		BMP-POST-08
Minimum Control	Post-Construction Site Storm Water	Post-Construction Site Storm Water
Measure Name (If	Management	Management
Applicable)		
General Permit Condition	II.B.5	II.B.5
Item Number (If		
Applicable)		
Brief Description of	Identifies policies and procedures for MDT	Maintain an inventory of post-construction
Planned SWMP Action	to exert authority over MDT contractors.	storm water management controls.
Taken		
Responsible Agency,	MDT - EESS, DEES	MDT - SEES
Department, or		
Organization; and Person		
or Position		
Measurable Goal or	Implement procedures described in MDT's	Beginning January 1, 2023, develop and
Performance Standard	ERP.	maintain an inventory of post-construction
Utilized		storm water controls utilizing information
	Review written policies and procedures	contained in milestone reports, hydraulics
	identified in MDT's ERP and update as	reports, LID Practice Analysis form, and
	needed. Update once every 5 years (i.e.,	construction plans and specifications. Record
	permit cycle).	for Annual Report starting January 1, 2024.
Opportunity for	A review of MDT's ERP will be performed	Inventory of post-construction management
Improvement	with updates added as needed.	controls is currently under development for
		2023.

SWMP Activity or	Inspection Prioritization	Program Evaluation
Component Name	BMP-POST-09	BMP-POST-10
Minimum Control Mecoure	Deat Construction Site Storm Water Monogenerat	Dest Construction Site Starra
Name (If Applicable)	Post-Construction Site Storm Water Management	Water Management
General Permit Condition	II.B.5	II.B.5
Item Number (If Applicable)		
Brief Description of	Utilize a protocol to determine priority and minimum	Discuss and solicit feedback
Planned SWMP Action	inspection frequency of post construction storm water	on stormwater-related issues
Taken		improvements
Responsible Agency, Department, or Organization; and Person or Position	MDT - FSE, Maintenance Division Operations Manager, SEES, DEES	MDT - DEES, SEES
Measurable Goal or Performance Standard Utilized	In coordination with MDT Maintenance Division, develop a protocol to determine priority and minimum inspection frequency for post-construction storm water controls. Priority must be based on potential water quality impacts, with consideration for the operation and maintenance needs, proximity to waterbodies, drainage area treated, land use type, and location within an impaired watershed. Complete by December 31, 2023. In coordination with MDT Maintenance Division, develop a post-construction storm water control inspection checklist for incorporation into MMS. Complete by December 31, 2023.	DEES to attend at least one MDT Maintenance Division section person meeting per year to discuss stormwater- related issues and solicit feedback on suggested program improvements. Document feedback using SWMP feedback form(s) and/or through meeting summary. Report meeting metrics in Annual Report.
	 With financial support from ESB, incorporate additional fields into MMS to capture post-construction storm water control inspection information. Communicate inspection requirements to maintenance personnel. Complete by December 31, 2024. Update post-construction storm water control inventory with priority ranking and minimum inspection frequency. Report priority ranking and inspection frequency in Annual Report starting January 1, 2025. Communicate with maintenance section personnel the post-construction storm water control inspection frequency and assist with inspections as requested. Track dates of communication and assistance, maintenance personnel involved and perform periodic audit of records in MMS. 	SEES to annually review feedback and determine if there are topics that need to be discussed further with appropriate stormwater program staff and whether changes to the SWMP are recommended. Provide review of feedback in Annual Report to see if changes are necessary.
Opportunity for Improvement	Utilizing the summarized inventory and recommendations provided by Weston Solutions (DEC, 2022), MDT will coordinate with Maintenance to develop a post-construction checklist. This action is scheduled to be completed in 2023.	MDT DEES will continue to attend Maintenance Division section meetings and encourage feedback.

SWMP Activity or Component Name	Post-Construction Site Personnel Training BMP-POST-11
Minimum Control Measure Name (If Applicable)	Post-Construction Site Storm Water Management
General Permit Condition Item Number (If Applicable)	II.B.5
Brief Description of Planned SWMP Action Taken	Train MDT personnel in the selection, implementation, inspection, and maintenance of storm water BMPs.
Responsible Agency, Department, or Organization; and Person or Position	MDT - EESS, Highways Engineer
Measurable Goal or Performance Standard Utilized	MDT will conduct routine post-construction storm water training to educate plan reviewers and inspectors on PESC and LID design, construction, and maintenance requirements in accordance with Section 2.2.3 of MDT's SWMP document. To be completed once every 5 years (i.e., permit cycle).
Opportunity for Improvement	MDT will continue to explore new opportunities to provide education and training to personnel.

SWMP Activity or Component Name	MDT Facility and Activity Inventory BMP-PPGH-01	MDT Facility and Activity Mapping BMP-PPGH-02
Minimum Control Measure Name (If Applicable)	Pollution Prevention / Good Housekeeping	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6	II.B.6
Brief Description of Planned SWMP Action Taken	Develop and maintain inventory of MDT-owned and operated facilities and activities.	Add MDT facilities to MS4 maps.
Responsible Agency, Department, or Organization; and Person or Position	MDT - SEES	MDT - SEES, Geospatial Analyst
Measurable Goal or Performance Standard Utilized	Develop and maintain an inventory of MDT-owned or operated facilities and activities that have the potential to contribute contaminants to the MS4. Develop inventory by December 31, 2022, and update annually.	Complete and update MS4 maps illustrating the location of each facility and activity identified in the MDT Facility and Activity Inventory. Complete maps by December 31, 2023, and update annually.
Opportunity for Improvement	Data obtained from monthly inspections will be used to update inventory to address future concerns.	Facility Data was collected for each MS4 facility in 2022 and mapping will be completed in 2023.

Component Name BMP-PPGH-03
Minimum Control Pollution Prevention / Good Housekeeping
Measure Name (If
Applicable)
General Permit Condition II.B.6
Item Number (If
Applicable)
Brief Description of Develop and implement FPPPs to identify facility-specific potential pollutant sources,
Planned SWMP Action associated BMPs, and inspection protocols. Incorporate SPCC plans into the FPPPs for
Taken facilities with a total aboveground oil storage capacity greater than 1.320 gallons.
Responsible Agency. MDT - FSE, DEES, SEES, Maintenance Chief, FPPP Inspector
Department, or
Organization: and Person
or Position
Measurable Goal or Ensure each MDT facility located within an MS4 has a site-specific EPPP. If the facility also
Performance Standard has an SPCC plan, ensure it is appended to the EPPP. Update in accordance with MDT's
Utilized FPPP Update and Training Procedure SOP
Ensure FPPP is implemented and assign FPPP Inspector.
Review FPPP and conduct monthly inspections of the facility. Complete FPPP Inspection
Checklist monthly.
Review monthly inspection forms and ensure corrective action(s) taken.
Review inspection forms and confirm identified corrective actions have occurred. Maintain
central repository of inspection and FPPP documents. Distribute documents in accordance
with MDT's FPPP Inspection Transmittal Procedure SOP. Complete Monthly.
Document compliance in the Annual Report.
Opportunity for MDT will continue to complete and review MS4 EPPP monthly inspection reports in 2023
Improvement and work with Maintenance to address issues in a timely manner.

SWMP Activity or	Facility Storm Water Control	Facility Storm Water	Field and Facility
Component Name	Updates BMP-PPGH-04	Awareness Posters BMP-PPGH-05	Personnel Training BMP-PPGH-06
Minimum Control Measure Name (If Applicable)	Pollution Prevention / Good Housekeeping	Pollution Prevention / Good Housekeeping	Pollution Prevention / Good Housekeeping
General Permit Condition Item Number (If Applicable)	II.B.6	II.B.6	II.B.6
Brief Description of Planned SWMP Action Taken	Establishes funding prioritization for storm water control enhancements at existing MDT facilities.	Create storm water BMP poster for use at MDT maintenance facilities.	Educate staff regarding storm water characteristics, water quality issues, and individual responsibilities regarding the implementation of the Statewide SWMP, FPPPs, SPCC plans, and associated SOPs.
Responsible Agency, Department, or Organization; and Person or Position	MDT - DEES, SEES, FSE, EESS, Facilities Bureau Chief	MDT - SEES	MDT - DEES, SEES
Measurable Goal or Performance Standard Utilized	DEES conduct an onsite review of each facility and complete the Annual FPPP Inspection Summary form in accordance with the <i>FPPP Update</i> <i>and Training Procedure</i> SOP. Identify recommended storm water control updates. Complete annually by end of year. SEES, FSE, EESS review each of the Annual FPPP Inspection Summary forms and prioritize funding for recommended storm water control updates. To be completed by April 1 st annually. Annually meet to prioritize facility projects for funding that will benefit water quality in the MS4s (e.g., vehicle wash bays, secondary containment, salt/sand shed, handling and storage, etc.) and develop a schedule for implementation. ESB funding will be provided for facility projects that will be completed within the schedule. Meeting to be held by May 1 st annually.	Develop a poster for use at MDT facilities showing the various pollutants associated with MDT facilities and best practices to manage them. Complete and distribute poster by no later than December 31, 2023.	Conduct site-specific FPPP training in accordance with MDT's <i>FPPP Update and</i> <i>Training Procedure</i> SOP and Section 2.2.4 of MDTs SWMP document. To be completed every 3 years. Develop an on-line IDDE training program for use by MDT field personnel. Incorporate requirements described in Section 2.2.4 of MDTs SWMP document. To be completed by December 31, 2024.
Opportunity for Improvement	In 2023, MDT will progress towards allocating funds and implementing plans to improve the prioritized sites addressed in the meeting held December 14, 2022 with Maintenance.	A poster showing pollutants and management practices will be produced in 2023.	A scope for an online IDDE training program to be completed by December 31,2024 has been developed.

SWMP Activity or	Maintenance Manual and	Street Sweeping	Winter Maintenance
	BMP-PPGH-07		BMP-PPGH-09
Minimum Control Measure	Pollution Prevention / Good	Pollution Prevention / Good	Pollution Prevention / Good
Name (If Applicable)	Housekeeping	Housekeeping	Housekeeping
General Permit Condition	II.B.6	II.B.6	II.B.6
Item Number (If Applicable)			
Brief Description of Planned SWMP Action Taken	Review and update MD1's Maintenance Manual and SOPs to address new or changed regulatory requirements and/or design guidelines.	Implement a street sweeping program that encompasses the streets and roadways, maintenance yards, and parking areas that MDT is responsible for maintaining. The street sweeping frequency depends on need and travel volumes. Sweepers also respond to certain types of spills that require clean-up.	MDT will evaluate the Winter Maintenance Program for feasible ways to transition to more environmentally friendly methods.
Responsible Agency, Department, or Organization; and Person or Position	MDT - Maintenance Division Operations Manager, EESS	MDT - Maintenance Personnel	MDT - EESS, FSE
Measurable Goal or Performance Standard Utilized	In coordination with MDT Environmental Engineering Section, update MDT's <i>Maintenance Operations</i> <i>and Procedures Manual</i> as needed to address new or changed regulatory requirements and/or design guidelines. Develop written SOPs and/or site-specific O&M Manuals when needed to address new or changed regulatory requirements and/or design guidelines. Update once every 5 years (i.e., permit cycle).	Sweep 100% of the facilities and MDT maintained roads within small MS4s a minimum of one time each year. Recycle sanding materials whenever feasible. Track miles swept, year and location. Report in Annual Report.	Review Winter Maintenance Plans for areas/sections located in MS4s. Make recommendations for environmental considerations, as appropriate. Update once every 5 years (i.e., permit cycle).
Opportunity for Improvement	MDT will continue to work with Maintenance to insure MDT facilities are operated and maintained appropriately.	In 2023 MDT will continue to sweep and maintain 100% if the facilities in MS4 areas.	A review of each MS4 area's winter maintenance program will be conducted and recommendations for each area will be completed by Dec 31, 2023.

SWMP Activity or	Roadside Weed Management
Component Name	BMP-PPGH-010
Minimum Control Measure	Pollution Prevention / Good Housekeeping
Name (If Applicable)	
General Permit Condition	II.B.6
Item Number (If Applicable)	
Brief Description of	Minimize the use of chemical spraying for roadside weed management.
Planned SWMP Action	
Taken	
Responsible Agency,	MDT - Reclamation Specialist
Department, or	
Organization; and Person	
or Position	
Measurable Goal or	Work with maintenance personnel to encourage mechanical mowing vegetation
Performance Standard	management whenever possible. For instances when chemical spraying is necessary,
Utilized	follow the recommendations outlined in MDT's <i>Statewide Integrated Roadside Vegetation</i>
	Management Plan and conduct spraying under the supervision of a licensed chemical
	applicator.
	Contact maintenance once every 5 years (i.e., permit cycle).
Opportunity for	MDT's Reclamation Specialist will continue to assist Maintenance to reduce chemical
Improvement	spraying.