



November 24, 2014

Paul Skubinna
Water Protection Bureau
Montana Department of Environmental Quality
1520 E 6TH AVE
Helena MT 59626

RECEIVED
NOV 24 2014
DEQ/WPB
PERMITTING & COMPLIANCE DIV.

Subject: Application for Individual Permit for Storm Water Discharges Associated with Municipal Separate Storm Sewer Systems (MS4)

Dear Paul Skubinna:

The Montana Department of Transportation (MDT) has chosen not to continue as a co-permittee with any local agency or to reapply for the two year General Permit for Storm Water Discharges associated with MS4. MDT is in a unique situation as a non-traditional MS4 applicant with long linear MS4 areas in all seven MS4 permit areas. As such, MDT concludes that the best scenario to allow for the most effective implementation of MDT's statewide storm water program is to seek an individual MS4 permit.

MDT is requesting that the Montana Department of Environmental Quality (DEQ) consider this application packet as our request for an MDT-specific, non-traditional statewide individual MS4 permit.

Attached please find the following information.

1. A completed and signed Montana Department of Environmental Quality Form 1 with Appendix A. (Appendix A was necessary to provide space for itemization of the seven MS4 areas.)
2. A completed and signed Montana Department of Environmental Quality Application Form for a New Authorization to Discharge Under the General Permit for Storm Water Discharge Associated with Small Municipal Separate Storm Sewer System with Appendices B - E.

An inter-unit journal transfer has been initiated for the invoiced application fee of \$7000.00.

Thank you for consideration of the application materials. We look forward to a cooperative and collaborative process to developing the forthcoming Individual MS4 Permit for MDT.



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An inter-unit journal transfer has been initiated for the invoiced application fee of \$7000.00.

Thank you for consideration of the application materials. We look forward to a cooperative and collaborative process to developing the forthcoming Individual MS4 Permit for MDT.

If you or your staff has any questions or concerns regarding this application packet, please contact Doug Lieb at 406.444.0825. He will be pleased to answer any questions you may have or provide any additional documentation that would be useful.

Sincerely,



Tom S. Martin, P.E.
Environmental Services Bureau Chief
Montana Department of Transportation

Copies:

Lynn Zanto, Planning Division Administrator
Dwane Kailey, P.E., Chief Engineer
Jon Swartz, Maintenance Division Administrator
Doug McBroom, Maintenance Division Operations Manager
Paul Ferry, P.E., Highways Engineer
Mark Goodman, P.E., Hydraulics Engineer
Ed Toavs, P.E., Missoula District Administrator
Jeff Ebert, P.E., Butte District Administrator
Dave Hand, Great Falls District Administrator
Stefan Streeter, P.E., Billings District Administrator
Heidy Bruner, P.E., Environmental Engineering Section Supervisor
Moriah Thunstrom, P.E., Environmental Field Services Engineer
Doug Lieb, MDT MS4 Coordinator
Environmental Services Project Development Engineers
District Environmental Engineering Specialists
MDT Agency Correspondence File

TM:d:\S:\ENV_ENG\MS4 PROGRAM\GENERAL PERMIT\DRAFT
2015\2015_INDIVIDUAL_PERMIT_App_COVERLETTER_20141121.docx



WATER PROTECTION BUREAU

Agency Use

Permit No.:

Date Rec'd

Amt Rec'd

Check No.

Rec'd By

FORM
1

GENERAL INFORMATION

(See instructions before completing)

Section A – Montana Pollutant Discharge Elimination System

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
1. Is this facility a publicly owned treatment works which results in a discharge to state surface waters or waters of the U.S.? (FORM 2A)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	2. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to state surface waters or waters of the U.S.? (FORM 2B)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>
3. Is this a facility which currently results in a discharge of industrial wastewater to state surface water other than those described in 1 or 2 above? (FORM 2C)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	4. Is this a proposed facility (other than those described in 1 or 2 above) which will result in a discharge of industrial wastewater to state surface waters? (FORM 2D)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>
5. Does this facility discharge only non-process wastewater, not subject to federal effluent guidelines or new source performance standards to state surface waters? (FORM 2E)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	6. Does this facility discharge or propose to discharge storm water associated with industrial activity either alone or in combination with non-storm water discharges? (FORM 2F)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>

Montana Ground Water Pollution Control System (MGWPCS)

7. Does this facility discharge sewage to ground water through infiltration, percolation or other methods of subsurface disposal? (GW-1)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	8. Does this facility discharge industrial wastes, or other wastes, to ground water through infiltration, percolation, or other methods of subsurface disposal? (GW-2)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>
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Section B – Facility or Activity Information

Facility Name See Form 1 - Appendix A attached

Facility Location _____

City, State, Zip _____

Telephone Number _____ County: _____

Township: _____ Range: _____ Section: _____ ; _____ 1/4 _____ 1/4 _____ 1/4

Latitude: _____ Longitude: _____

Is the facility located on Indian lands? YES NO

Section C – Facility Contact

Facility Contact Name/Title Tom Martin - MDT Environmental Services Bureau Chief

Mailing Address PO Box 201001

City, State, Zip Helena, MT, 59620-1001

Telephone Number (406) 444-0879 Email tomartin@mt.gov

Section D – Existing or Pending Permits, Certifications, or Approvals

MPDES Permit See Section E - 8 permits held 404 Permit (dredge & fill) _____
 UIC # _____ MGWPCS # _____
 Plat Approval EQ # _____ Other _____

Section E – Nature of Business (provide a brief description)

MPDES Permits: MTR040001,040002,040004,040005,040006,040007,040009,040010

Provide a transportation system and services that emphasize quality, safety, cost effectiveness, economic vitality and sensitivity to the environment.

SIC CODES (4-digit, in order of priority)

Code	A. First	Code	B. Second
1		2	
Code	C. Third	Code	D. Fourth
3		4	

MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures (outfalls), each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area.

Section F – Applicant (Owner/Operator) Information

Applicant (Operator) Name Montana Department of Transportation
Mailing Address PO Box 201001
City, State, Zip Helena, MT, 59620-1001
Telephone Numbers (406) 444-0789
Is the 'Operator' listed above also the owner? YES NO
Status of Applicant (*Check One*)
 Federal State Private Public Other (*specify*) _____


CERTIFICATION

Section G – Applicant Information: This application must be completed, signed, and certified as follows:

- 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, it 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 violation.

A. Name and Official Title (Type or Print) Tom Martin - Environmental Services Bureau Chief	B. Phone No. (406) 444-0879
C. Signature 	D. Date Signed 11/24/2014

Appendix A – Form 1 Section B
Facility or Activity Information

Section B – Facility or Activity Information

1. Facility Name : MDT MS4 – Billings
Facility Location : City of Billings
City, State, Zip : Billings, MT, 59101-59108, 59111-59112, 59114-59115
Telephone Number: 406-444-0879 County: Yellowstone
Township: 1N,1S Range: 24E, 25E, 26E Section: 1 to 36
Latitude: 45.787397 Longitude: -108.499947
Is the facility located on Indian lands? NO

2. Facility Name : MDT MS4 – Bozeman
Facility Location : City of Bozeman
City, State, Zip : Bozeman, MT, 59715, 59716, 59719, 59722
Telephone Number: 406-444-0879 County: Gallatin
Township: 1S, 2S Range: 5E, 6E Section: 1 – 19, 23 – 27, 30 – 36
Latitude: 45.68873 Longitude: -111.03194
Is the facility located on Indian lands? NO

3. Facility Name : MDT MS4 – Butte
Facility Location : City of Butte
City, State, Zip : Butte, MT, 59701 and 59702
Telephone Number: 406-444-0879 County: Silver Bow
Township: 2N Range: 7W, 8W Section: 1, 4 – 6
Latitude: 45.9688 Longitude: -112.5158
Is the facility located on Indian lands? NO

4. Facility Name : MDT MS4 – Great Falls
Facility Location : City of Great Falls
City, State, Zip : Great Falls, MT, 59401 through 59406
Telephone Number: 406-444-0879 County: Cascade
Township: 20N, 21N Range: 3E, 4E Section: 1 – 26, 29 – 36
Latitude: 45.52378 Longitude: -111.30896
Is the facility located on Indian lands? NO

5. Facility Name : MDT MS4 – Helena
Facility Location : City of Helena
City, State, Zip : Helena, MT, 59601 and 59602
Telephone Number: 406-444-0879 County: Lewis and Clark
Township: 9N, 10N Range: 3W, 4W Section: 1, 3 – 6, 13 – 36
Latitude: 45.58925 Longitude: -111.99337
Is the facility located on Indian lands? NO

6. Facility Name : MDT MS4 – Kalispell
Facility Location : City of Kalispell
City, State, Zip : Kalispell, MT, 59901
Telephone Number: 406-444-0879 County: Flathead
Township: 27N, 28N, 29N Range: 21W, 22W Section: 1 – 8, 11 – 13, 16 – 21, 24 – 36
Latitude: 48.197778 Longitude: -114.266111
Is the facility located on Indian lands? NO

7. Facility Name : MDT MS4 – Missoula
Facility Location : City of Missoula
City, State, Zip : Missoula, MT, 59802
Telephone Number: 406-444-0879 County: Missoula
Township: 12N, 13N, 14N Range: 18W, 19W, 20W, 21W Section: 1 – 36
Latitude: 46.866667 Longitude: -114.00000
Is the facility located on Indian lands? NO

**MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER PROTECTION BUREAU / STORM WATER PROGRAM
PO Box 200901 / Helena, MT / 59620-0901**

**APPLICATION FORM
For A New Authorization To Discharge Under The
GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)**

IMPORTANT: Read the attached instructions before completing this form. All items in this application must be completed accurately and in their entirety or the application will be deemed incomplete (resulting in a delay of processing and the application being sent back). Please print or type. Please refer to the attached instructions for information about the required items. An original signature of the applicant is required. Attach additional pages as necessary. Responses must be self-explanatory and must not refer exclusively to attached maps, plans, or documents. The appropriate fees must accompany this application form. Do not submit these items separately. Mail this application form to the DEQ address above. Small MS4 permitting documents and related forms are available from the Storm Water Program at (406) 444-3080 or on the DEQ website at: <http://www.state.mt.us/wqinfo/MPDES/StormWater/SmallMS4.asp>.

1. Name and Type of Small MS4 Permit Applicant:

Small MS4 Name Montana Department of Transportation - Statewide

Small MS4 Type: Federal State County City/Town Other: _____

County Small MS4 Located Please see attached Appendix B

2. Small MS4 Contact Person:

The contact person/position shall be the primary person/position responsible for implementing or coordinating the Storm Water Management Program. This person/position will be thoroughly familiar with the operation of the Small MS4 and with the facts reported in this application, and will be contacted by the Department as necessary. All correspondence, including subsequent annual fee invoices, will be sent to this person/position.

Name Tom Martin

Position Title Environmental Services Bureau Chief

Mailing Address PO Box 201001

City, State and Zip Code Helena, MT, 59620-1001

Phone Number (406) 444-0789

Email Address tomartin@mt.gov

3. Small MS4 Description (narrative): MDT has long linear MS4 areas in all 7 Montana MS4 permit areas: Billings, Bozeman, Butte, Great Falls, Helena, Kalispell, and Missoula. MDT small MS4s are linear storm water systems along stretches of streets and highways under MDT jurisdiction that fall within the urban areas or city limits depending on the city.

4. Location Map/Boundaries: A map of each MS4 area is attached in Appendix E.

A location map must be attached showing the pertinent city, town, county, or district boundaries, the boundaries of the Small MS4, and the "urbanized area" (UA) if applicable.

5. Receiving Waters:

List the names of all perennial or named surface waters, as indicated on a USGS topographic map, within the permitted area. Please attach a USGS topographic map(s) indicating the boundaries of your Small MS4(s) and these receiving surface waters. The number of named or perennial receiving surface waters must be determined for you to calculate the fees in item "6" below.

Please see attached Appendix C - Receiving Waters for list of perennial or named surface waters
by MS4 area.

Please see attached Appendix E - Maps for each MS4 that show boundaries and
topographic features including surface waters.

6. Fees:

Indicate the Application Fee and first calendar year Annual Fee amounts (must be submitted with application):

Application Fee Amount: \$7,000.00 Annual Fee Amount: \$1,500.00 Check No.: _____

7. For your MS4, will another entity perform a portion of, or all of, the six minimum control measure responsibilities in developing, implementing, and enforcing a Storm Water Management Program?

No Yes If yes, ensure you have a written agreement formally securing this and provide the information requested in Attachment 11.c. below. Refer to ARM 17.30.1111(7).

8. Is this application to be part of a Co-Permittee Application?

No Yes If yes, complete and attach Appendix A. Also, if yes then fill out the "receiving waters" and "fee" information in Appendix A, items "C" and "D" instead of items "5" and "6" above.

9. Resident population within your permitted Small MS4 area: 0

10. Approximate number of square miles within your permitted Small MS4 area: All areas total ~313 sq.miles

11. Attachments: Please see attached Appendix D - Storm Water Management Plan

For each of the six storm water minimum control measures (Public Education and Outreach, Public Participation and Involvement, Illicit Discharge Detection and Elimination, Construction Site Storm Water Runoff Control, Post-Construction Storm Water Management, and Pollution Prevention and Good Housekeeping for Municipal Operation), the following Attachments must be included with this application. Notes: See instructions for Small MS4s which have had prior permit authorizations; and, See Appendix A for additional requirements for Co-Permittee Applicants.)

a. BMP Description: A description of the BMPs that the MS4 will implement for each of the six storm water minimum control measures;

b. BMP Measurable Goals: Identification of the measurable goals for each of the BMPs including, as appropriate, the months and years in which the MS4 will undertake required actions, including interim milestones and the frequency of the action; and

c. Responsible Entity: If the applicant is not performing it themselves (see item 7 above), provide a narrative description of exactly what entity will be performing a portion of, or all of, the development, implementation, or enforcement of the Storm Water Management Program with respect to each of the six minimum control measures.

12. Storm Water Discharge Monitoring Data N/A - MDT is currently not required to sample.

If the applicant has any monitoring data for any storm water discharges (not receiving surface or ground waters) associated with their Small MS4, attach copies of the water quality data sheets to this application, including the following information:

- a. a narrative description of the sampling location (including assigned name if pertinent);
- b. the sampling location as shown on an attached map;
- c. date of sampling;
- d. analytical test method and laboratory used;
- e. name of party and individual who performed the sampling; and
- f. any indication of the size of the storm event sampled including when during this storm event sampling occurred.

13. Signature of Applicant:

Important Note: ARM 17.30.1323(1) requires:

"All permit applications must be signed as follows:

- (a) for a corporation, by a responsible corporate officer. A responsible corporate officer means:
 - (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - (ii) the manager of 1 or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (b) for a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- (c) for a municipality, state, federal, or other public agency, by either a principal executive officer or ranking elected official. A principal executive officer of a federal agency includes:
 - (i) the chief executive officer of the agency; or
 - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency."

"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 person or 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."

11/24/2014

Signature of Applicant

Date Signed

Tom Martin

Bureau Chief

Name (printed)

Title

Appendix B - County Small MS4 Located

* Small MS4 name and county are highlighted in yellow.

Question #1 – County Small MS4 Located**1. Facility Name : MDT MS4 – Billings**

Facility Location : City of Billings

City, State, Zip : Billings, MT, 59101-59108, 59111-59112, 59114-59115

Telephone Number: 406-444-0879 County: Yellowstone

Township: 1N,1S Range: 24E, 25E, 26E Section: 1 to 36

Latitude: 45.787397 Longitude: -108.499947

Is the facility located on Indian lands? NO

2. Facility Name : MDT MS4 – Bozeman

Facility Location : City of Bozeman

City, State, Zip : Bozeman, MT, 59715, 59716, 59719, 59722

Telephone Number: 406-444-0879 County: Gallatin

Township: 1S, 2S Range: 5E, 6E Section: 1 – 19, 23 – 27, 30 – 36

Latitude: 45.68873 Longitude: -111.03194

Is the facility located on Indian lands? NO

3. Facility Name : MDT MS4 – Butte

Facility Location : City of Butte

City, State, Zip : Butte, MT, 59701 and 59702

Telephone Number: 406-444-0879 County: Silver Bow

Township: 2N Range: 7W, 8W Section: 1, 4 – 6

Latitude: 45.9688 Longitude: -112.5158

Is the facility located on Indian lands? NO

4. Facility Name : MDT MS4 – Great Falls

Facility Location : City of Great Falls

City, State, Zip : Great Falls, MT, 59401 through 59406

Telephone Number: 406-444-0879 County: Cascade

Township: 20N, 21N Range: 3E, 4E Section: 1 – 26, 29 – 36

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Is the facility located on Indian lands? NO

5. Facility Name : MDT MS4 – Helena

Facility Location : City of Helena

City, State, Zip : Helena, MT, 59601 and 59602

Telephone Number: 406-444-0879 County: Lewis and Clark

Township: 9N, 10N Range: 3W, 4W Section: 1, 3 – 6, 13 – 36

Latitude: 45.58925 Longitude: -111.99337

Is the facility located on Indian lands? NO

6. Facility Name : MDT MS4 – Kalispell

Facility Location : City of Kalispell

City, State, Zip : Kalispell, MT, 59901

Telephone Number: 406-444-0879 County: Flathead

Township: 27N, 28N, 29N Range: 21W, 22W Section: 1 – 8, 11 – 13, 16 – 21, 24 – 36

Latitude: 48.197778 Longitude: -114.266111

Is the facility located on Indian lands? NO

7. Facility Name : MDT MS4 – Missoula

Facility Location : City of Missoula

City, State, Zip : Missoula, MT, 59802

Telephone Number: 406-444-0879

County: Missoula

Township: 12N, 13N, 14N Range: 18W, 19W, 20W, 21W Section: 1 – 36

Latitude: 46.866667 Longitude: -114.00000

Is the facility located on Indian lands? NO

Appendix C - Receiving Waters

* MDT outfalls do not discharge storm water to the entire collection of surface waters listed. MDT has listed all surface waters receiving storm water within the small MS4 boundaries per permit application instructions.

Appendix C - Receiving Waters

* MDT outfalls do not discharge storm water to the entire collection of surface waters listed. MDT has listed all surface waters receiving storm water within the small MS4 boundaries per permit application instructions.

Table C-1. Billings MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Yellowstone River (MT43F001_010)	B-3	Arsenic	Natural Sources	Not Completed
		Benthic-Macroinvertebrate Bioassessments	Agriculture Municipal Point Source Discharges	Not Completed
		Dissolved Oxygen Saturation	Agriculture Municipal Point Source Discharges	Not Completed
		Excess Algal Growth	Agriculture Municipal Point Source Discharges	Not Completed
		Nutrient/Eutrophication Biological Indicators	Agriculture Municipal Point Source Discharges	Not Completed
		Oil and Grease	Pipeline Breaks	Not Completed
		Periphyton (Aufwuchs) Indicator Bioassessment	Agriculture Municipal Point Source Discharges	Not Completed
		Solids (Suspended/Bedload)	Agriculture Municipal Point Source Discharges	Not Completed
Yellowstone River (MT43F001_11)	B-2	Cause Unknown	Channelization Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges Streambank Modifications/destabilization	Not Completed
		Chlorophyll-a	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges	Not Completed
		Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges	Not Completed
		Oil and Grease	Channelization Streambank Modifications/destabilization	Not Completed
		Other anthropogenic substrate alterations	Channelization Streambank Modifications/destabilization	Not Completed
		Physical Substrate Habitat Alterations		
Alkali Creek				Not Listed under 303(d)
Canyon Creek (MT43F002_021)	B-1	Other Flow Regime Alterations	Flow Alterations from Water Diversions	Not Completed
Billings Bench Water				Not Listed under 303(d)

Table C-1. Billings MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Association Canal				
Yegen Drain				Not Listed under 303(d)
City/County Drain				Not Listed under 303(d)
Shiloh Drain				Not Listed under 303(d)
Grey Eagle Ditch				Not Listed under 303(d)
Suburban Ditch				Not Listed under 303(d)
Holling Drain				Not Listed under 303(d)

Table C-2. Bozeman MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Bozeman (Sourdough) Creek (MT41H003_040)	B-1	Alteration in Stream-side or Littoral Vegetative Covers	Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat	Not Completed
		Chlorophyll-a	Grazing in Riparian or Shoreline Zones Septage Disposal Yard Maintenance	Not Completed
		Escherichia coli	Septage Disposal	Not Completed
		Nitrogen (total)	Grazing in Riparian or Shoreline Zones Septage Disposal Yard Maintenance	Not Completed
		Phosphorus (total)	Grazing in Riparian or Shoreline Zones Irrigation Crop Production	Not Completed
		Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Yard Maintenance	Not Completed
East Gallatin River (MT41H003_010)	B-1	Nitrogen (total)	Grazing in Riparian or Shoreline Zones Municipal (Urbanized High Density Area) Residential Districts Yard Maintenance	Not Completed
		Phosphorus (total)	Grazing in Riparian or Shoreline Zones Municipal (Urbanized High Density Area) Residential Districts Yard Maintenance	Not Completed
Baxter Creek				Not Listed under 303(d)

Table C-3. Great Falls MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Missouri River (MT41Q00_011)	B-2	Chromium (total)	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Mercury	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Physical substrate habitat alterations	Dam Construction (other than upstream flood control projects) Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted) Irrigation Crop Production	Not Completed
		Polychlorinated biphenyls	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Sedimentation/Siltation	Contaminated Sediments Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Selenium	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Solids (Suspended/Bedload)	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted)	Not Completed
		Turbidity	Contaminated Sediments Dam Construction (other than upstream flood control projects) Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permitted) Irrigation Crop Production	Not Completed
Missouri River (MT41Q001_022)	B-1	Sedimentation/Siltation	Agriculture Dam Construction (other than upstream flood control projects) Highway/Road/Bridge Runoff (non-construction Related) Impacts from Hydrostructures Flow Regulation/modifications Natural Sources Streambank Modifications/destabilization	Not Completed

Table C-3. Great Falls MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Sun River (MT41K001_020)	B-3	Nitrogen (Total)	Agriculture Irrigated Crop Production Rangeland Grazing	Completed
		Other Flow Regime Alterations	Irrigated Crop Production	Not Completed
		Phosphorus (Total)	Agriculture Irrigated Crop Production Rangeland Grazing	Completed
		Sedimentation/Siltation	Channelization Irrigated Crop Production Rangeland Grazing	Completed
		Total Suspended Solids (TSS)	Channelization Irrigated Crop Production Rangeland Grazing	Completed
Sand Coulee Creek (MT41K002_040)	B-1	Lead	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining	Not Completed
		Salinity	Agriculture	Not Completed
		Zinc	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining	Not Completed

Table C-4. Kalispell MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Stillwater River (MT76P001_10)	B-2	Alterations in Stream-side or Littoral Vegetative Covers	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Source Unknown	Not Completed
		Lead	Source Unknown	Not Completed
		Nitrates	Source Unknown	Not Completed
		Phosphorus (total)	Source Unknown	Not Completed
		Sedimentation/Siltation	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Source Unknown	Not Completed
Ashley Creek (MT76O002_030)	C-2	Alterations in Stream-side or Littoral Vegetative Covers	Irrigation Crop Production	Not Completed
		Chlorophyll-a	Irrigation Crop Production Municipal Point Source Discharge Upstream Source	Not Completed
		Excess Algal Growth	Irrigation Crop Production Municipal Point Source Discharge Upstream Source	Not Completed

Table C-4. Kalispell MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
		Nitrate/Nitrite (Nitrite/Nitrate as N)	Irrigation Crop Production Municipal Point Source Discharge Upstream Source	Not Completed
		Nitrogen (total)	Irrigation Crop Production Municipal Point Source Discharge Upstream Source	Not Completed
		Oxygen, Dissolved	Discharge from Municipal Separate Storm Sewer System (MS4) Municipal Point Source Discharges	Not Completed
		Phosphorus (total)	Irrigation Crop Production Municipal Point Source Discharge Upstream Source	Not Completed
		Temperature, water	Discharge from Municipal Separate Storm Sewer System (MS4) Municipal Point Source Discharges	Not Completed
East Spring Creek (MT76P003_062)	B-1	NA	NA	All uses assessed and fully supported
Bowser-Spring				Not Listed under 303(d)

Table C-5. Butte MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Blacktail Creek				Not Listed under 303(d)
Silver Bow Creek (MT76G003_020)	I	Aluminum	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Arsenic	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Copper	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Iron	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Lead	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Manganese	Impacts from Abandoned Mine Lands (inactive)	Not Completed
		Nitrates	Site Clearance (Land Development or Redevelopment)	Not Completed
		Physical Substrate Habitat Alterations	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)	Not Completed
		Sedimentation/siltation	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)	Not Completed
		Silver	Impacts from Abandoned Mine Lands	Not Completed

Table C-5. Butte MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
			(inactive)	
		Zinc	Impacts from Abandoned Mine Lands (inactive)	Not Completed
Basin Creek				Not Listed under 303(d)
Sand Creek				Not Listed under 303(d)
Grove Gulch Creek				Not Listed under 303(d)

Table C-6. Missoula MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Clark Fork River (MT76E001_010)	B-1	Alteration of Stream-side or Littoral Vegetative cover	Agriculture Channelization	Not Completed
		Arsenic	Mill Tailing Mine Tailings	Not Completed
		Cadmium	Mill Tailing Mine Tailings	Not Completed
		Chlorophyll-a	Agriculture Municipal Point Source Discharges	Not Completed
		Copper	Mill Tailing Mine Tailings	Not Completed
		Iron	Mill Tailing Mine Tailings	Not Completed
		Lead	Mill Tailing Mine Tailings	Not Completed
		Nitrogen (total)	Agriculture Municipal Point Source Discharges	Completed
		Phosphorus (total)	Agriculture Municipal Point Source Discharges	Completed
		Zinc	Mill Tailing Mine Tailings	Not Completed
Bitterroot River (MT76H001_030)	B-1	Alteration in Stream-side or Littoral Vegetative Cover	Rangeland Grazing Wet Weather Discharges (Point Source and Combination of Stormwater, SSO, or CSO)	Not Completed
		Copper	Sediment Resuspension (Contaminated Sediment)	Not Completed
		Lead	Sediment Resuspension (Contaminated Sediment)	Not Completed

Table C-6. Missoula MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
		Nitrogen, Nitrate	On-site Treatment Systems (Septic Systems and Similar Decentralization Systems) Rangeland Grazing Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	Not Completed
		Sedimentation/siltation	Sediment Resuspension (Contaminated Sediment) Streambank Modification/destabilization Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	Not Completed
		Temperature, water	Agriculture Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	Not Completed
Pattee Creek				Not Listed under 303(d)
Rattlesnake Creek (MT76M002_120)	A-Closed	Other Flow Regime Alterations	Dam Construction (Other than Upstream Flood Control Projects) Flow Alteration from Water Diversions	Not Completed
Grant Creek (MT76M002_130)	B-1	Alteration in Stream-side or Littoral Vegetative Cover	Irrigated Crop Production Site Clearance (Land Development or Redevelopment)	Not Completed
		Excess Algal Growth	Irrigated Crop Production Site Clearance (Land Development or Redevelopment)	Not Completed
		Low Flow Alterations	Flow Alterations form Water Diversions Irrigated Crop Production Site Clearance (Land Development or Redevelopment)	Not Completed
		Nitrate/Nitrite (Nitrite+Nitrate as N)	Irrigated Crop Production Site Clearance (Land Development or Redevelopment)	Not Completed
		Sedimentation/siltation	Site Clearance (Land Development or Redevelopment) Streambank Modifications/destabilization	Not Completed
		Temperature, water	Flow Alterations form Water Diversions Loss of Riparian Habitat	Not Completed
Blackfoot River	B-1	Ammonia (Unionized)	Contaminated Sediments, Grazing in Riparian or Shoreline Zones, Silviculture Activities	Not Completed
Butler Creek				Not Listed under 303(d)

Table C-7. Helena MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
Tenmile Creek (MT411006_143)	B-1	Alteration in Stream-side or Littoral Vegetative Covers	Channelization Habitat Modification –other than Hydromodification Highways, Roads, Bridges, Infrastructure (New Construction) Site Clearance (Land Development or Redevelopment)	Not Completed
		Arsenic	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Completed
		Cadmium	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Completed
		Copper	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Completed
		Lead	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Completed
		Low Flow Alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production	Not Completed
		Mercury	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Not Completed
		Nitrogen (total)	NA	Completed
		Nutrient/Eutrophication Biological Indicators	Irrigated Crop Production	Completed
		Sedimentation/Siltation	Habitat Modification –other than Hydromodification Highways, Roads, Bridges, Infrastructure (New Construction) Irrigated Crop Production Site Clearance (Land Development or Redevelopment)	Completed
		Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)	Completed
Prickly Pear Creek (MT411006_030)	I	Alteration in Stream-side or Littoral Vegetative Covers	Grazing in Riparian or Shoreline Zones Habitat Modifications- other than Hydromodifications Impacts from Abandoned Mine Lands (Inactive)	Not Completed
		Ammonia (Un-ionized)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	Not Completed

Table C-7. Helena MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
		Arsenic	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)	Completed
		Cadmium	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)	Completed
		Copper	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)	Completed
		Lead	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)	Completed
		Low Flow Alteration	Irrigated Crop Production	Not Completed
		Nitrogen (total)	NA	Completed
		Phosphorus (total)	NA	Completed
		Physical Substrate Habitat Alterations	Contaminated Sediments Grazing in Riparian or Shoreline Zones Habitat Modification –other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge	Not Completed
		Sedimentation/Siltation	Contaminated Sediments Grazing in Riparian or Shoreline Zones Habitat Modification –other than Hydromodification Industrial Point Source Discharge Irrigated Crop Production	Completed
		Temperature, water	Grazing in Riparian or Shoreline Zones Habitat Modification – other than Hydromodification Industrial Point Source Discharge Irrigated Crop Production	Not Completed
Prickly Pear Creek (MT411006_040)	B-1	Alteration in Stream-side Littoral Vegetative Covers	Channelization Highways, Roads, Bridges, Infrastructure (New Construction)	Not Completed
		Aluminum	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Not Completed

Table C-7. Helena MS4 Area TMDL Information.

Receiving Water (Waterbody ID)	Water Classification by State of Montana	Probable Causes for Impairments	Probable Sources for Impairments	TMDL
		Antimony	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Not Completed
		Arsenic	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Completed
		Cadmium	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Completed
		Copper	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Completed
		Lead	Acid Mine Drainage Contaminated Sediment Impacts from Abandoned Mine Lands (Inactive)	Completed
		Physical Substrate Habitat Alterations	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Industrial Point Source Discharge	Not Completed
		Sedimentation/Siltation	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Industrial Point Source Discharge	Completed
		Temperature, water	NA	Completed
		Zinc	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)	Completed

Appendix D – Storm Water Management Plan

*Updated 2014, currently based off 2014 permit. Will be adjusted to reflect new individual permit once received in 2015.

Appendix E - Maps