NFO		Age	Agency Use			
		MTR04	MTR04			
		Date Rec'd:	Date Rec'd:			
			Amount Rec'	Amount Rec'd:		
Montana De	partment			Check No.:	Check No.:	
of Environm	nental Qua	lity				
WATER PROT	TECTION BU	JREAU		Rec'd By:		
FORM	MPDES St	orm Water Sn	nall MS4 An	nual Report F	orm	
FORM	Reporting p	period is for the ca	alendar year, Ja	nuary 1st through	December 31st.	
MS4-AR	Check	one. Annual Repo	ort is due by Ma	arch 1st of the foll	owing year.	
	$\Box 2017$	$\Box 2018$	$\Box 2019$	$\Box 2020$	□2021	
Instructions: This Annual Report Form is to be completed by each permittee and co-permittee authorized to discharge storm water under the General Permit for Storm Water Discharges Associated with Small Municipal Separate Storm Water Sewer Systems (MS4s). All authorized permittees and co-permittees are required to complete this Annual Report Form for each calendar year reporting period. For co-permittees authorized under one permit authorization or for co-permittees with multiple authorizations, you are required to complete this form and submit separate required documents/information exclusively for your respective regulated Small MS4 area(s). This completed Annual Report Form must be electronically submitted to the Montana Department of Environmental Quality, Water Protection Bureau. Electronic submission is required through the web-based tool: NetDMR. Additional information is located on DEQ's website: http://deq.mt.gov/Water/WQINFO/ctss/netdmr . Small MS4 Classification □Traditional						
Small MS4 Mailing Address:						
City, State, and Zip Code:						
Small MS4 Contact Person (and Title):						
Mailing Address:						
City, State, and Zip Code:						
Phone Number: () E-mail address:						

Storm Water Management Team: Attach an organizational chart identifying a primary SWMP coordinator and the positions responsible for implementing each minimum measure.					
Requested above chart:	□ Attached	□ Not At	tached		
Has the permittee established and regular communication between	l executed a formalized mechanism storm water management team me	n for mbers?	□ Yes	□ No	
Permittee's SWMP Resources: How many FTEs does the permit explanation.	tee designate to the MS4 permit?	If no	eeded, prov	ride an	
If more space is needed, submit on an a	dditional page with corresponding referen	nce or on a da	ata storage de	vice.	
Answer the following five (5) que on a data storage device.	uestions on an additional page w	ith corres	ponding re	ference or	
 (1) What are the source(s) of funding for implementation of the MS4 permit and the estimated percentage of the total budget allocated from each source listed? (2) Specific to the annual reporting calendar year, how did the permittee justify commitment of resources or budget allocations to the implementation of the MS4 permit to decision-makers and the public? Provide a summary of meetings and outcomes held with decision-makers and the public. 					
(3) Has the permittee demonstrated program effectiveness to obtain budget allocations for this annual reporting calendar year or previous years? Why or why not? If so, what program effectiveness metrics were presented?					
(4) How was this annual reporting previous year's approach?	(4) How was this annual reporting calendar year's approach to allocate resources different than the previous year's approach?				
(5) Was the permittee successful in their request for budget allocations? Describe the outcome and factors that affected or resulted in that outcome.					
Illicit Discharge Detection & E Per the IDDE MCM requirement reviewed, and updated if needed, year?	limination: (Part II (3)(c.i)), has the permittee the storm sewer map during the ca	e alendar	□ Yes	□ No	
Per the IDDE MCM requirement weather inspected and screened of	(Part II (3)(e.i)), has the permittee putfalls during the calendar year?	e dry	□ Yes	□ No	
Fill in the blanks with numbers. The permittee has inspected outfalls during this calendar year. Since authorization under the 2017 General Permit, the permittee has inspected total outfalls out of the total MS4 outfalls.					

Per the Illicit Discharge Detection & Elimination permittee will complete the requirement to inspe- during dry weather by the end of the permit cyc	on MCM (Part II (3)(e.i)), the ect and screen all outfalls le.	□ Yes	□ No
Construction Site Storm Water Management storm water management plan reviews were con	: During the calendar year, ho npleted (Part II (4)(b))?	w many co	nstruction
During the calendar year, how many construction management controls (Part II (4)(c))?	on projects were inspected for	their storm	water
Pollution Prevention/Good Housekeeping for Has the permittee reviewed, and updated if need permittee-owned/operated facilities and activitie	• Permittee Operations: led, the inventory of es (Part II (6)(a.i))?	□ Yes	□ No
Has the permittee reviewed, and updated if need the locations of facilities and known locations of	led, the map that identifies f activities (Part II (6)(a.ii))?	□ Yes	□ No
Has the permittee conducted annual storm water training for permittee staff during the next permi- each standard operating procedure (Part II (6)(a	r pollution prevention it year after development of .v))?	□ Yes	□ No
Not applicable during calendar year 2017, 2018, and 2019. Check	"No" during these years.		
		-	
Training: According to Part II (B) Training requirements, has the permittee conducted applicable training during the 1 st and 4 th calendar years?			□ No
Not required during calendar year 2018, 2019, and 2021. Check "No" during these years.			
According to Part II (B) Training requirements, has the permittee conducted applicable new employee training within 90 days of the hire date?		□ Yes	□ No
Special Conditions: Per Pre-TMDL Approval (Part III.A) requirements , attach the required information regarding identification of all outfalls that discharge to impaired waterbodies, the impaired waterbodies, and the associated pollutants of impairments. Summarize the BMPs implemented over the reporting period and a schedule of BMPs planned for the following year.			
□Attached	□ Not Attached	□ Not Ap	plicable
Special Conditions: Approved TMDLs (Part III.B) requirements per calendar year below.			
Calendar Year 2017: The permittee has attached a Sampling Plan that includes strategy rationale, monitoring frequency, monitoring parameters, and monitoring locations.			
□Attached	□ Not Attached	□ Not Ap	oplicable

Calendar Year 2017: The permittee has attached all outfalls that discharge to impaired waterbodies and the associated pollutants of impairment.				
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2018: The permittee has attached all outfalls that discharge to impaired waterbodies and the associated pollutants of impairment.				
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2019: The permittee has attach and the associated pollutants of impairment.	ed all outfalls that discharge to	impaired waterbodies		
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2020: The permittee has attach and the associated pollutants of impairment.	ed all outfalls that discharge to	impaired waterbodies		
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2020: The permittee has attached the TMDL section of the SWMP that identifies the measures and BMPs it plans to implement, describes the MS4's impairment priorities and long term strategy, and outlines interim milestones for controlling the discharge of the pollutants of concern and making progress towards meeting the TMDL.				
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2021: The permittee has attached all outfalls that discharge to impaired waterbodies and the associated pollutants of impairment.				
□Attached	□ Not Attached	□ Not Applicable		
Calendar Year 2021: The permittee has evaluated the TMDL section of the SWMP based on monitoring results. The section has been revised, if needed, and is attached.				
□Attached	□ Not Attached	□ Not Applicable		
Monitoring: Per requirements in Part IV (B), has the permittee attached monitoring results, calculations, and evaluations?				
□Attached	□ Not Attached	□ Not Applicable		

INSTRUCTIONS: The permittee will only fill out the Annual Report Attachments section below that corresponds to the calendar in which an Annual Report is being submitted for. Attach the requested documents/information.

2017 Annual Report Att	tachments (1 st Calenda	nr Year)	
Public Education and Outreach:			
Per requirements a.i in the referenced MCM, a	ttach the required information	on regarding key target	
audiences and associated pollutants.			
□Attached	□ Not Attached		
Public Involvement and Participation:			
Per requirements a.i in the referenced MCM, a involvement approach and schedule of each ke	ttach the required information vaudience.	on regarding the public	
\Box Attached	\Box Not Attached		
Illicit Discharge Detection & Elimination:			
Per requirements a.i in the referenced MCM, at non-storm water discharges or flows, associate	ttach the required information displayed by the second structure of the second	on regarding categories of ols or conditions.	
□Attached	□ Not Attached		
Per requirements b.i in the referenced MCM, a non-storm water discharges or flows, associate	ttach the required information of the second seco	on regarding occasional ols or conditions.	
□Attached □ Not Attached			
Per requirements f.i in the referenced MCM, at Corrective Action Plan and any associated doc	tach the required Illicit Disc uments.	charge Investigation and	
□Attached □ Not Attached			
Construction Site Storm Water Management:			
Per requirements a.iii in the referenced MCM, attach progress towards an Enforcement Response Plan and associated documents.			
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirem construction storm water management plan rev	ents b.i in the referenced M iew checklist.	CM, attach the	
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requirements b.iii in the referenced MCM, attach the construction storm water management plan review checklist.			
□Attached	□ Not Attached	□ Not applicable	
Specific to Traditional MS4s and per requirements c.i in the referenced MCM, attach the construction storm water management inspection form or checklist.			
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requirements c.ii in the referenced MCM, attach the construction storm water management inspection form or checklist.			
	□ Not Attached	□ Not applicable	

Post-Construction Site Storm Water Management in New and Redevelopment			
Specific to Traditional MS4s and per requirements b.i in the referenced MCM, attach the post- construction storm water management plan review checklist.			
□Attached	Attached 🗆 Not Attached 🗆 Not applicable		
Specific to Non-Traditional MS4s and per requirements b.ii in the referenced MCM, attach the post- construction storm water management plan review checklist.			
□Attached	□ Not Attached	□ Not applicable	
Per requirements in b.iii in the referenced MCM, attach the performance standards and associated documents.			
□Attached	□ Not Attached		

П

2018 Annual Report Att	achments (2 nd Calenda	ar Year)	
Public Education and Outreach:			
Per requirements b.i in the referenced MCM, a	ttach the required information	on regarding outreach	
messages.			
	□ Not Attached		
Per requirements c.i in the referenced MCM, a of formats, distribution channels and schedule	ttach the required information for key target audiences.	on regarding a description	
□Attached	□ Not Attached		
Public Involvement and Participation:			
Per requirements a.ii in the referenced MCM, a	attach the required informati	ion regarding participation	
and key target audience feedback on approache	es.		
□Attached	□ Not Attached		
Illicit Discharge Detection & Elimination:			
Per requirements a.i in the referenced MCM, attach the required information regarding categories of non-storm water discharges or flows, associated pollutants, and local controls or conditions.			
□Attached □ Not Attached			
Per requirements b.i in the referenced MCM, attach the required information regarding occasional non-storm water discharges or flows, associated pollutants, and local controls or conditions.			
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirements d.i in the referenced MCM, attach the adopted ordinance or other regulatory mechanism to prohibit illicit discharges.			
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requirements d.ii in the referenced MCM, attach the summary of legal authority to prohibit illicit discharges.			
□Attached	□ Not Attached	□ Not applicable	
Per requirements d.iii in the referenced MCM, attach the required summary of the cooperative agreements.			

□Attached	□ Not Attached		
Per requirements d.iv in referenced MCM, atta	ch the Enforcement Respon	se Plan and associated	
documents.			
□Attached	□ Not Attached		
Per requirements e.ii in referenced MCM, attac	ch the list of high priority ou	ıtfalls.	
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirem	ents f.iii in the referenced M	ICM, attach the summary	
of investigations conducted and corrective acti	ons taken per the required II	licit Discharge	
Investigation and Corrective Action Plan and a	ny associated documents.		
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requ	irements f.iv in the reference	ed MCM, attach the	
summary of investigations conducted and corre	ective actions taken per the	required Illicit Discharge	
Investigation and Corrective Action Plan and a	ny associated documents.		
	□ Not Attached	□ Not applicable	
Post-Construction Site Storm Water Management in New and Redevelopment			
Specific to Traditional MS4s and per requirements c.i in the referenced MCM, attach the post-			
construction storm water management inspecti	on form or checklist.		
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requ	irements c.ii in the referenc	ed MCM, attach the post-	
construction storm water management inspecti	on form or checklist.		
□Attached	□ Not Attached	□ Not applicable	
Per requirements in c.iii in the referenced MCM	M, attach the inventory of al	l new permittee-owned	
and private post-construction storm water man	agement controls.		
□Attached	□ Not Attached		
Per requirements in c.vi in the referenced MCM	A, attach an inspection frequ	ency protocol.	
□Attached	□Attached □ Not Attached		
Specific to Traditional MS4s and per requirements c.vii, attach the developed inspection program.			
□Attached	□ Not Attached	□ Not applicable	
Pollution Prevention/Good Housekeeping for Permittee Operations			
Per requirements in a.iii in the referenced MCM, attach completed Standard Operating Procedures.			
□Attached	□ Not Attached		

2019 Annual Report Att	tachments (3 rd Calenda	ar Year)		
Public Education and Outreach:				
Per requirements c.ii in the referenced MCM,	attach the required informat	ion regarding outreach		
materials distributions.				
□Attached	□ Not Attached			
Public Involvement and Participation:				
Per requirements a.ii in the referenced MCM, a and key target audience feedback on approach	attach the required informations.	ion regarding participation		
□Attached	□ Not Attached			
Illicit Discharge Detection & Elimination:				
Per requirements a.i in the referenced MCM, a non-storm water discharges or flows, associate	ttach the required information of the pollutants, and local contracts	on regarding categories of rols or conditions.		
□Attached	□ Not Attached			
Per requirements b.i in the referenced MCM, a	ttach the required informati	on regarding occasional		
non-storm water discharges or flows, associate	d pollutants, and local contra	rols or conditions.		
□Attached	□Attached □ Not Attached			
Per requirements e.ii in referenced MCM, attach the list of high priority outfalls.				
□Attached □ Not Attached				
Per requirements e.iii in referenced MCM, attach the required summary of screening results.				
□Attached	□ Not Attached			
Specific to Traditional MS4s and per requirements f.iii in the referenced MCM, attach the summary				
of investigations conducted and corrective acti	ons taken per the required I	llicit Discharge		
Investigation and Corrective Action Plan and a	iny associated documents.			
	□ Not Attached	□ Not applicable		
Specific to Non-Traditional MS4s and per requirements f.iv in the referenced MCM, attach the summary of investigations conducted and corrective actions taken per the required Illicit Discharge Investigation and Corrective Action Plan and any associated documents.				
□Attached	□ Not Attached	□ Not applicable		
Construction Site Storm Water Management:				
Specific to Traditional MS4s and per requirements a.i in the referenced MCM, attach the adopted ordinance or other regulatory mechanism to require construction storm water controls.				
□Attached	□ Not Attached	\Box Not applicable		
Specific to Non-Traditional MS4s and per requirements a.ii in the referenced MCM, attach the legal authority summary.				
□Attached	□ Not Attached	\Box Not applicable		
Per requirements a.iii in the referenced MCM, attach the adopted Enforcement Response Plan and associated documents				
Attached	\Box Not Attached			
Post-Construction Site Storm Water Manag	gement in New and Redeve	elopment		

Per requirements in c.viii in the referenced MCM, attach findings and compliance actions regarding inspections of high priority post-construction storm water management controls.			
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirements c.ix, attach the findings and resulting actions regarding inspections of high priority privately-owned post-construction storm water management controls.			
□Attached	□ Not Attached	□ Not applicable	
Pollution Prevention/Good Housekeeping fo	r Permittee Operations		
Per requirements in a.iii in the referenced MCM, attach the completed Standard Operating Procedures.			
□Attached	□ Not Attached		

2020 Annual Report At	tachments (4 th Calendar Year)		
Public Education and Outreach:			
Per requirements c.ii in the referenced MCM, a materials distributions.	attach the required information regarding outreach		
□Attached	□ Not Attached		
Public Involvement and Participation:			
Per requirements a.ii in the referenced MCM, and key target audience feedback on approach	attach the required information regarding participation es.		
□Attached	□ Not Attached		
Illicit Discharge Detection & Elimination:			
Per requirements a.i in the referenced MCM, a non-storm water discharges or flows, associated	ttach the required information regarding categories of ed pollutants, and local controls or conditions.		
□Attached	□ Not Attached		
Per requirements b.i in the referenced MCM, a non-storm water discharges or flows, associated	attach the required information regarding occasional ed pollutants, and local controls or conditions.		
□Attached	□ Not Attached		
Per requirements e.ii in referenced MCM, attac	ch the list of high priority outfalls.		
□Attached	□ Not Attached		
Per requirements e.iii in referenced MCM, attach the required summary of screening results.			
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirements f.iii in the referenced MCM, attach the summary of investigations conducted and corrective actions taken per the required Illicit Discharge Investigation and Corrective Action Plan and any associated documents.			
□Attached	□ Not Attached □ Not applicable		
Specific to Non-Traditional MS4s and per requirements f.iv in the referenced MCM, attach the summary of investigations conducted and corrective actions taken per the required Illicit Discharge			

Investigation and Corrective Action Plan and any associated documents.			
□Attached	□ Not Attached	□ Not applicable	
Post-Construction Site Storm Water Manag	ement in New and Redeve	lopment	
Specific to Traditional MS4s and per requirements a.i in the referenced MCM, attach the adopted ordinance or other regulatory mechanism to require post-construction storm water controls.			
□Attached	□ Not Attached	□ Not applicable	
Specific to Non-Traditional MS4s and per requation authority summary.	irements a.ii in the referenc	ed MCM, attach the legal	
□Attached	□ Not Attached	□ Not applicable	
Per requirements in a.iii in the referenced MCN associated documents.	M, attach the Enforcement R	lesponse Plan and	
□Attached	□Attached □ Not Attached		
Per requirements in c.viii in the referenced MC inspections of high priority post-construction s	CM, attach findings and com torm water management con	pliance actions regarding ntrols.	
□Attached	□ Not Attached		
Specific to Traditional MS4s and per requirements c.ix, attach the findings and resulting actions regarding inspections of high priority privately-owned post-construction storm water management controls.			
□Attached	□ Not Attached	□ Not applicable	
Per requirements in d.i in the referenced MCM, attach a summary of the discussion outcomes.			
□Attached	□ Not Attached		
Pollution Prevention/Good Housekeeping for Permittee Operations			
Per requirements in a.iii in the referenced MCM, attach the completed Standard Operating Procedures.			
□Attached	□ Not Attached		

	ath a second			
2021 Annual Report Att	tachments (5 th Calendar Year)			
Public Education and Outreach:				
Per requirements c.ii in the referenced MCM, a materials distributions.	attach the required information regarding outreach			
□Attached	□ Not Attached			
Public Involvement and Participation:				
Per requirements a.ii in the referenced MCM, attach the required information regarding participation and key target audience feedback on approaches.				
□Attached	□ Not Attached			
Illicit Discharge Detection & Elimination:				
Per requirements a.i in the referenced MCM, attach the required information regarding categories of non-storm water discharges or flows, associated pollutants, and local controls or conditions.				

□Attached	□ Not Attached			
Per requirements b.i in the referenced MCM, a	ttach the required information	on regarding occasional		
non-storm water discharges or flows, associate	d pollutants, and local contr	ols or conditions.		
□Attached	□ Not Attached			
Per requirements e.ii in referenced MCM, attach the list of high priority outfalls.				
□Attached	□ Not Attached			
Per requirements e.iii in referenced MCM, atta	ch the required summary of	screening results.		
□Attached	□ Not Attached			
Specific to Traditional MS4s and per requirem	ents f.iii in the referenced M	CM, attach the summary		
of investigations conducted and corrective acti	ons taken per the required II	licit Discharge		
Investigation and Corrective Action Plan and a	ny associated documents.			
□Attached	□ Not Attached	□ Not applicable		
Specific to Non-Traditional MS4s and per requ	irements f.iv in the reference	ed MCM, attach the		
summary of investigations conducted and corre	ective actions taken per the r	required Illicit Discharge		
Investigation and Corrective Action Plan and a	iny associated documents.			
	□ Not Attached	□ Not applicable		
Post-Construction Site Storm Water Manag	ement in New and Redeve	lopment		
Per requirements in c.viii in the referenced MC	CM, attach findings and com	pliance actions regarding		
inspections of high priority post-construction s	torm water management cor	ntrols.		
□Attached	□ Not Attached			
Specific to Traditional MS4s and per requirem	ents c.ix, attach the findings	and resulting actions		
regarding inspections of high priority privately controls.	-owned post-construction st	orm water management		
□Attached	□ Not Attached	□ Not applicable		
Pollution Prevention/Good Housekeeping fo	r Permittee Operations			
Per requirements in a.iii in the referenced MCM, attach completed Standard Operating Procedures.				
□Attached	□ Not Attached			
Attach any updates, changes, or improvements to the Small MS4 Storm Water Management				
Program per requirements in Part IV (E).				
	□ Not Attached	□ Not applicable		

Annual Report Form Signature				
This Annual Report Form must be completed, signed, and certified a	s follows:			
• For a corporation, by a principal officer of at least the level of vice	e president;			
• For a partnership or sole proprietorship, by a general partner or respectively: or	the proprietor,			
For a municipality, state, federal, or other public facility, by either a princip	pal executive officer or ranking			
elected official.	F			
All Permittees 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].				
Name (Type or Print)				
Paul Lasiter				
Title (Type or Print)	Phone Number			
Vice President for Operations and Finance / 406.243.4662				
Signature Date Signed				
Ylaf It.				

Small MS4 2019 Annual Report Attachment 1 University of Montana – Missoula MS4 Storm Water Management Team



Small MS4 2019 Annual Report

Attachment 2

Responses to 5 questions on page 2 of the annual form:

(1) What are the source(s) of funding for implementation of the MS4 permit and the estimated percentage of the total budget allocated from each source listed?

Funding for MS4 activities come 100% from the University's Facilities Services operating budget.

(2) Specific to the annual reporting calendar year, how did the permittee justify commitment of resources or budget allocations to the implementation of the MS4 permit to decision-makers and the public? Provide a summary of meetings and outcomes held with decision-makers and the public.

The University administration has been informed of the violations of the December, 2019 DEQ audit of UM's MS4. Management has been alerted that UM must step-up its commitment in order to become compliant. UM is looking to expand its storm water management team and is in the process of retaining a consultant with MS4 expertise.

(3) Has the permittee demonstrated program effectiveness to obtain budget allocations for this annual reporting calendar year or previous years? Why or why not? If so, what program effectiveness metrics were presented?

The University has just completed its third year of sampling its outfalls and is beginning to establish a baseline from which program effectiveness can be assessed. High iron analyses has been manifested and the University is adjusting its MS4 program to determine the source of the iron (likely gravel/sand) and how to keep it out of the storm drain.

(4) How was this annual reporting calendar year's approach to allocate resources different than the previous year's approach?

The 2019 DEQ MS4 audit underscored the University's degree of non-compliance with the MS4 permit requirements. The University now has a better understanding of the efforts and resources needed to become an effective and fully compliant MS4.

(5) Was the permittee successful in their request for budget allocations? Describe the outcome and factors that affected or resulted in that outcome.

The DEQ MS4 audit of December, 2019 highlighted the University's degree of non-compliance with the MS4 permit. This has demonstrated the need for the University to expend more resources, both in terms of personnel and funding, in order to properly execute the requirements of the MS4 permit.



Small MS4 2019 Annual Report Attachment 4 Facilities Inventory

Area	Activities	Potential Pollutates	Responsible Department	Notes
Facilities Services Compound	maintenance and storage yards	trash	Facilities Services	
	trash management	sediment		
	vehicle fleet	vehicle fluids		
	maintenance shops			
	vehicle maintenance			
	snow storage area			
Park and open space	ground maintenance	Organic materials	Grounds Department	
	storage and application of fertilizer and herbicides	herbicides		
	erosion and sediment control	pesticides		
	trash management	sediment		
Parking lots and streets	street and parking lot maintenance	trash	Labor Department	
	catch basin cleaning	sediment		
	trash management	vehicle fluids		



Small MS4 2019 Annual Report Attachment 6 Outfalls That Discharge to Impaired Waterbodies and Associated Pollutants





University of Montana East Outfall Location: 46.864888, -113.980524

University of Montana West Outfall Location: 46.866459, -113.984491

Pollutants of Impairment To Clark Fork River



Small MS4 2019 Annual Report

Attachment 7

Outfall Monitoring Results

Sample Date:	6/18/	/2018	8/27	/2018	6/27	/2019	9/27	/2019	Long Ter	m Median
		West				West		West		
	East Outfall	Outfall	East Outfall	West Outfall	East Outfall	Outfall	East Outfall	Outfall	East Outfall	West Outfall
Total Suspended Solids TSS, mg/L	12.000	15.000	102.000	46.000	362.000	99.000	42.000	ND	72.000	46.000
Chemical Oxygen Demand COD, mg/L	133.000	154.000	380.000	354.000	338.000	375.000	224.000	253.000	281.000	303.500
Total Phosphorus, mg/L	0.090	0.056	0.167	0.063	0.635	0.283	0.187	ND	0.177	0.063
Total Nitrogen, mg/L	0.451	0.336	1.150	0.603	11.200	6.380	1.960	0.752	1.555	0.678
pH, standard units	7.310	7.370	6.700	6.300	6.400	5.700	6.800	7.200	6.750	6.750
Total Copper, mg/L	0.006	0.016	0.018	0.016	0.033	0.022	0.029	0.002	0.023	0.016
Total Lead, mg/L	0.001	0.001	0.009	0.005	0.014	0.005	0.003	0.000	0.006	0.003
Total Zinc, mg/L	0.048	0.043	0.169	0.078	0.258	0.165	0.085	0.030	0.127	0.060
Estimated Flow, gpm	577	819	577	2,135	398	3,161	57	385	488	1,477
Oil and Grease, mg/L	ND	ND	3.290	4.470	2.270	1.400	3.750	ND	3.290	2.935
Total Iron, mg/L	0.374	0.239	3.160	1.900	6.560	1.620	1.110	0.099	2.135	0.930
Total Arsenic, mg/L	ND	ND	ND	ND	0.0026	0.0024	0.0004	ND	0.001	0.002
Total Cadmium, mg/L	ND	ND	0.0002	0.0002	0.0019	0.0004	ND	ND	0.001	0.000

Small MS4 2019 Annual Report

Attachment 8

Public Education and Outreach

Public Education Content below is from Facilities Services' Storm Water website:

Storm Water

STORM WATER PROGRAM

The University of Montana, along with Missoula City and County, Montana DOT, and the Missoula Water Quality District, has applied for a storm water permit to protect the surface waters of the Clark Fork River from contamination.

This permit puts certain requirements on UM to ensure that the potential for pollution is minimized. Some of these requirements are as follows:

- Storm drain cleaning as needed.
- Parking lot and street cleaning as needed.
- Maintain a used oil recycling program.
- Spill prevention plan for the UM with spill response personnel on campus
- Hazardous material storage, management, and disposal program.
- Stenciling storm drains.
- Education of campus community on storm water issues.
- Monitor for fuel release at fueling sites.
- Public participation.
- Ground truthing system so no illicit discharge will occur.



STORM WATER ISSUES

Pollution of surface waters due to storm water runoff is of great concern. As rainwater drains off the land and into the storm water system, it picks up various pollutants and contaminants. These pollutants icause problems for waterways and aquatic organisms. Included are:

Automotive fluids - often contain toxic chemicals, metals, and organic hydrocarbons

Sediment and silt - can adversely affect the natural habitat of aquatic life

Landscaping chemicals - can contain chemicals toxic to aquatic life and nutrients which contribute to the reduction of available oxygen in water

Pet wastes - can contribute to the reduction of available oxygen

Litter - macro pollutant which has many adverse effects

Yard waste - potential impacts including macro pollutants, and reducing oxygen as they decompose. Decomposition products can also be toxic to aquatic life.

REPORTING ILLICIT DISCHARGES

The <u>Missoula Valley Water Quality District (MVWQD)</u>, a division within the Missoula City-County Health Department, responds to illicit discharges.

If you would like to report an illicit discharge or have a storm water construction site concern you may use the <u>online reporting form</u> or call 406-258-4890 during regular business hours or for an after-hours matter, please call 911.

Below is a handout that is passed out at Storm Water Outreach meetings:



Storm Sewer Systems

• UM has a storm sewer system on the eastern side of campus. The remaining surface drains are "dry wells" or "sumps" that drain water directly back down into the ground. The storm sewer system is actually a hybrid, each vault has a gravel bottom so it is a sump, draining water back down into the ground, but also connected to a storm sewer pipe that discharges the overflow of those sumps to the river.

Permitting

- UM is required to have a storm water permit.
- A permit is required to protect the water quality of surface waters. This means protecting rivers from pollution that is introduced via the storm sewers.

Water Quality

• Many materials are potential pollutants to the rivers. Aside from the obvious ones of vehicle chemicals (oil, antifreeze, etc), chemical spillage (fuel, hazardous materials), and trash there are the not-so-obvious ones of sand and silt, leaves and other organic waste. Sand and silt are river pollutants as they fill up the nooks and crannies in a riverbed that support the foundation of the ecological life (bugs, fish eggs), and organic matter robs the river of oxygen as it breaks down. While both of those materials naturally occur in the river, they become pollutants when large quantities are washed into it from a much larger area than normal.

What is UM doing?

- Fortunately, UM was already doing many things that protect surface waters from Storm Sewer systems. Those include street, parking lot, and sidewalk sweeping (remove gravel and silt), using de-icer instead of gravel, periodically cleaning sumps and drywells, spill protection at fueling stations, recycling used oil, and maintaining a hazardous materials management plan.
- Facility Services has a Storm Water Pollution Prevention Plan (SWPPP) which includes emergency response spill containment covers for sumps and oil absorbent pads. All Crafts, grounds and labor employees need to know where these are stored and how to use these in an emergency to contain a spill.
- UM has mapped the storm sewer system, and verifying that there are no cross connects with municipal sewer or other sources of contaminants. This is done with visual inspections of the storm sewer water that discharges to the river.

What can you do?

- Take care not to pour, slop or spill wastes onto our parking areas or roadways. Remind co-workers, students and staff of the importance of keeping our campus pollution free. Each of us has the responsibility to protect our drinking water supply and our rivers.
- Report plugged sumps. UM cleans out drains as needed, and help in identifying which ones need cleaning is useful.

Audience Feedback:

The University mostly interacts with 2 stakeholder groups – employees and students. Feedback during outreach and training sessions is supportive. Some employee groups (custodial) don't initially appreciate the role they play in helping to manage storm water pollution, but soon comprehend. Students have been sympathetic towards storm water management.

Small MS4 2019 Annual Report

Attachment 9

Public Involvement and Participation

In 2019, the University added another dimension to new student orientation entitled "Big Sky Experience." It includes several team-building experiences, one of which was to have new students go around campus stenciling storm water drains with the warning: "Do not dump. Drains to River." Facilities Services created new metal stencils (the old ones were cardboard) which will help make this activity easier going forward. About 6 students participated under the guidance of Facilities Services paint foreman. This occurred during the week of August 17 to August 24.

A broader community-wide stakeholders' group meeting was convened on 12/6/2019. Members from Missoula County, City of Missoula, students, staff, and faculty were all invited and solicited for input as to how to better evolve the University's storm water management plan. The group was informed about the upcoming DEQ MS4 audit to take place 12/10/19.

Small MS4 2019 Annual Report Attachment 10 Non-Storm Water Discharges

Landscape irrigation and annual inspections of fire hydrants across the campus are examples of nonstorm water discharges however, they are not considered significant contributors of pollutants. Since such water is potable, domestic water, chlorine would be the pollutant associated with these non-storm water discharges. UM will be working on standard operating procedures for irrigation maintenance and fire hydrant flushing to reduce these sources of non-storm water discharges.

Small MS4 2019 Annual Report Attachment 11 MCM 3. Illicit Discharge Detection & Elimination

b.i) List occasional incidental non-storm water discharges and pollutants associated with each.

The University of Montana considers the following occasional incidental non-storm water discharges into the storm water system allowable. Such discharges are minor and will not introduce any additional pollutants into the storm water system. Since most of the water involved in such occasional non-storm water discharges is potable domestic water, the pollutant of concern would be chlorine which quickly dissipates in the environment.

- Landscape irrigation
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater
- Discharges from potable water sources
- Air conditioning/steam condensate
- Water from crawlspace pumps
- Footing drains
- Small scale vehicle washing
- Discharge from fire sprinkler system maintenance
- Sidewalk/street wash sweeping water
- Discharges or flows from emergency firefighting activities
- Insignificant losses from cooling tower losses

Small MS4 2019 Annual Report Attachment 12 MCM 3. Illicit Discharge Detection & Elimination

e.ii) List high priority outfalls.

The University of Montana possesses only 2 outfalls and it therefore deems both outfalls high priority. These outfalls do not drain industrial areas, have not had any illicit discharges detected, and are not prone to illegal dumping. These outfalls do discharge into the Clark Fork, which is an impaired water body.

Small MS4 2019 Annual Report Attachment 13 Screenings

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data					
Subwatershed: Clark Fork			Outfall ID: East Outfall		
Today's date: 11/22/2019		Time (Military): 10:29			
Investigators: Brian P. Ken	rns		Form completed by: Brian P.	Kerns	
Temperature (°F):		Rainfall (in.): Last 24 hours: 0	.0 Last 48 hours: 0.0		
Latitude: 46.864888	Long	itude: -113.980524	GPS Unit: mobile app	GPS LMK #:	
Camera: Casio EX-S770			Photo #s: E Outfall-2019-11-22.jpg		
Land Use in Drainage Area (Check all the	at apply	/):			
☐ Industrial			Open Space		
Ultra-Urban Residential			☑ Institutional		
Suburban Residential			Other:		
		Known Industries:			
Notes (e.g., origin of outfall, if known): University of Montana street drainage.					

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	K RCP	CMP	Circular	☐ Single	Diameter/Dimensions:	In Water:
	DPVC	HDPE	Eliptical	Double		$\square Partially$
🔀 Closed Pipe	□ Steel		□ Box	Triple		Fully
	Other:		□ Other:	□ Other:		With Sediment:
						☐ Fully
	Concrete		Trapezoid		Depth:	
🗌 Open drainage	□ rip-rap □ Other:		Parabolic Other:		Top Width: Bottom Width:	
🗌 In-Stream	(applicable when collecting samples)					
Flow Present?	K Yes	🗌 No	If No, Ski	p to Section 5		
Flow Description (If present)	🕅 Trickle	Moderate	e 🔲 Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS					
F	PARAMETER	RESULT	UNIT	EQUIPMENT	
X Flow #1	Volume	5 gal	Liter	Bottle	
	Time to fill	10'33'' 0.47 GPM	Sec		
	Flow depth		In	Tape measure	
\Box Flow #2	Flow width	·" * *****************************	Ft, In	Tape measure	
	Measured length	·" ·"	Ft, In	Tape measure	
	Time of travel		S	Stop watch	
Temperature			°F	Thermometer	
pH			pH Units	Test strip/Probe	
	Ammonia		mg/L	Test strip	

Illicit Discharge Detection and Elimination: Technical Appendices

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

INDICATOR	DICATOR CHECK if DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)		
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🗌 1 – Faint	□ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	×	Image: Clear Image: Brown Image: Gray Image: Yellow Image: Green Image: Orange Image: Red Image: Other:	I – Faint colors in sample bottle	\Box 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity		See severity	□ 1 – Slight cloudiness	\Box 2 – Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

					DECOD	IRTION
Ar	e physical indicators	that are not related to flow p	present?	Yes 🛛	< No	(If No, Skip to Section 6

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		 Spalling, Cracking or Chipping Peeling Paint Corrosion 	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	

Section 6: Overall Outfall Characterization

Unlikely K Potential (presence of two or more indicators) Suspect (one or more indicators with	th a severity of 3)
--	---------------------

Section 7: Data Collection

1.	Sample for the lab?	🗌 Yes	K No		
2.	If yes, collected from:	☐ Flow	Devel Pool		
3.	Intermittent flow trap set?	Yes	X No	If Yes, type: 🗌 OBM	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Some trash further down culvert.



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data						
Subwatershed: Clark Fork			Outfall ID: West Outfall			
Today's date: 11/22/2019			Time (Military): 10:19			
Investigators: Brian P. Ke	rns		Form completed by: Brian P.	Kerns		
Temperature (°F):		Rainfall (in.): Last 24 hours:	Last 48 hours:			
Latitude: 46.866459 Longitude: -113.984491		GPS Unit: mobile app	GPS LMK #:			
Camera: Casio EX-S770			Photo #s:			
Land Use in Drainage Area (Check all the	at apply	<i>i</i>):				
			Open Space			
Ultra-Urban Residential			Institutional			
Suburban Residential	Suburban Residential			Other:		
Commercial			Known Industries:			
Notes (e.g., origin of outfall, if known):	Uni	versity of Monta	na street drainage	•		

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	🔀 RCP	CMP	Circular	□ Single	Diameter/Dimensions:	In Water:
	DPVC	HDPE	Eliptical	Double	21 in. ID	⊠ No □ Partially □ Fully
🖾 Closed Pipe	Steel		□ Box	Triple		With Sadimant:
	Other:		Other:	☐ Other:		No Partially Fully
🗌 Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
🗌 In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	Tes Yes	No No	If No, Ski	p to Section 5		
Flow Description (If present)	Trickle	Moderate	e 🔲 Substantial			

Section 3: Quantitative Characterization

	FIELD DATA FOR FLOWING OUTFALLS							
F	PARAMETER	RESULT	UNIT	EQUIPMENT				
Elow #1	Volume		Liter	Bottle				
	Time to fill		Sec					
	Flow depth		In	Tape measure				
\Box Flow #2	Flow width		Ft, In	Tape measure				
1 10w #2	Measured length		Ft, In	Tape measure				
	Time of travel		S	Stop watch				
	Temperature		°F	Thermometer				
pH			pH Units	Test strip/Probe				
	Ammonia		mg/L	Test strip				

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

INDICATOR	CHECK if Present	DESCRIPTION	REL	ATIVE SEVERITY INDEX ((1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	□ 1 – Faint	2 – Easily detected	☐ 3 – Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	☐ 1 – Faint colors in sample bottle	\Box 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity		See severity	□ 1 – Slight cloudiness	\Box 2 – Cloudy	□ 3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

	_		
A 1 1 1 1 1 1 1 1 1 1	1, 0, 0		
Are physical indicators that are not relative	ad to those procept?		1 It No Vizin to Vaction 61
	SUTIO HIOW DIESETH/	# <u>+</u> <u>E</u> 5 NO	(11 / NO. (NLI) IO (Section Of)
ine physical materies mat are not relat	a to mon present.		(1) 1:00, Ship to Section 0)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	凶	Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	

Section 6: Overall Outfall Characterization

Unlikely E Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Obvious	
---	--

Section 7: Data Collection

1.	Sample for the lab?	🗌 Yes	X No		
2.	If yes, collected from:	☐ Flow	Devel Pool		
3.	Intermittent flow trap set?	🗌 Yes	X No	If Yes, type: 🗌 OBM	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



Small MS4 2019 Annual Report Attachment 14

Illicit Discharge Investigation and Corrective Action Plan

The University of Montana purchased and implemented a new work order system in the summer of 2019. The new work order system allows for tracking incidents that occur on the campus. UM is utilizing this software tool to track investigations into reports of illicit discharges. Attached are the four reports of illicit discharges from 2019.



Create Incident Find Incident Dashboard Run Report

		in the state where we shall be an extension of the state	
GEN	FRAI	INFORMATION	
ULIN			

GENERAL INFORMATIO	N				Edit this Incident
Incident ID:	15		Incident Status:	Open	
Property:	000 Grounds		Space/Floor:	General	
Incident Type:	Storm Water		Incident Sub Type:	Illicit Discharge	
Location:	Parking Lot U		Incident Date:	11/19/2019 11:30 AM	
Root Cause:			Incident End Date:		
Other:			External Incident ID:		
Company Doing Work:	University of Montana	а	Asset:		
Confidential:	No				
INCIDENT SUMMARY					
Incident Description I:	While traversing drain. Source ap	parking lot U during a rain peared to be coming from a	event, I noticed an oil she a parked vehicle.	en flowing down the lot towards a stor	rm water
Incident Description II:	Paul Trumbley & other at the sour	I applied 2 all-purpose aut ce of the oil. Took video of	omobile fluid absorbent p sheen event.	ads - one covering the drain opening a	and the
Incident Description III:	Took another vid outfall pool.	eo of East Outfall where th	e affected storm drain dis	scharged. Could notice a slight oil shee	en on
Root Cause Investigation	n: Apparent vehicle	was not the culprit.			
INCIDENT REPORTED E	ЗҮ				
First Name:	Brian		Last Name:	Kerns	
Company/Department:			Occupation:		
E-mail Address:	brian.kerns@umonta	na.edu	Phone:	406-243-2144	
INCIDENT ENTERED BY	1				
First Name:	Brian		Last Name:	Kerns	
Company:	University of Montan	а	E-mail Address:	brian.kerns@umontana.edu	
Phone:	406-243-2144		Fax:		
TIMELINE				Show Audit Entries	Add Line Item
PERSONS INVOLVED	l.				Add Person
FILE ATTACHMENTS				Ad	d File Attachment
Oil Sheen1 Lot U-2019-1	1-19.AVI	video			EDIT
Lot U Oil at E Outfall-201	9-11-19.AVI	Video of oil event at east	outfall		EDIT
WORK ORDERS					Create Request
COSTS AND RECOVE	ERY				
PRINT INCIDENT	Format:	Incident Template	V		PRINT

Outbound | Reclassify

OTHER OPTIONS:

INCIDENT REPORT

· · ·
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Incident Desc 1:	Citizen was utilizing the trail connecting the M trailhead to the Kim Williams trail that follows the eastern fence of Facilities Services plant yard. The Citizen took photos of trash scattered around on both sides of fence and filed a complaint with the Missoula Valley Water Quality District (MVWQD). UM received an email from MVWQD advising us to clean up and keep trash containized. Photo meta data indicates that the photos were taken 11/22/2019
Incident Desc 2:	UM issued Word Order #9043 on same day to clean up. Training was also recently (12/4 & 12/5) held to all trade staff and custodial.
Incident Desc 3:	Recent wind event apparently knocked over some recycling dumpsters and scattered debris around plant yard and other local environs.
Incident Root Cause:	Dumpsters may not have had covered closed or properly secured. Grounds staff and custodial have been alerted to the importance of keeping dumpsters covered. May also be attributed to Republic services pinning the top open when they replace the dumpster after tipping.

INCIDENT REPORTED BY

	#11997-1977-1979-1979-1979-1979-1979-197		***************************************
First Name:	Brian	Last Name:	Kerns
Company/Department:		Occupation:	
Email:	brian.kerns@umontana.edu	Phone:	406-243-2144

INCIDENT ENTERED BY

First Name:	Brian	Last Name:	Kerns
Company:	University of Montana	Email:	brian.kerns@umontana.edu
Phone:	406-243-2144	Fax:	

INCIDENT TIMELINE

PERSONS INVOLVED
MONTANA HELENA 6.0

Paul Trumbley 0 1

Create Incident Find Incident Dashboard Run Report

GENERAL	INFOF	RMATION
---------	-------	---------

GENERAL INFORMATIO	N			Edit this	Incident
Incident ID:	17	Incident Status:	Open		
Property:	032 Facilities Services	Space/Floor:	001		
Incident Type:	Storm Water	Incident Sub Type:	Illicit Discharge		
Location:	Trades Parking Lot	Incident Date:	12/14/2019 11:20 AM		
Root Cause:		Incident End Date:			
Other:		External Incident ID:			
Company Doing Work:	University of Montana	Asset:			
Confidential:	No				

INCIDENT SUMMARY	
Incident Description I:	Chuck Christensen reported an oil sheen in the parking lot south of the Facilities Services Building. We tracked it back to Mike Schalk's personal vehicle. He had his oil changed and the oil cap was left off. We used white spill pads to clean up the oil spots and the oil sheen. Pads were placed under the vehicle for the rest of the day. The car was parked closest to dry sump in parking lot south of Facilities Services Building.
	Incident Description I has been updated. See Timeline Audit Entries to view update history.
Incident Description II:	Reported incident to Water Quality District
Incident Description III:	

Root Cause Investigation:

INCIDENT REPORTED	ЭВҮ				
First Name:	Paul		Last Name:	Trumbley	
Company/Department	:		Occupation:		
E-mail Address:	paul.trumbley@um	ontana.edu	Phone:	406-243-2127	
	ВҮ			2	
First Name:	Paul		Last Name:	Trumbley	2
Company:	University of Monta	na	E-mail Address:	paul.trumbley@umontana.edu	
Phone:	406-243-2127		Fax:		
	ð			Show Audit Entries	Add Line Item
PERSONS INVOLVE	ED				Add Person
FILE ATTACHMENT	S			<u>Ac</u>	ld File Attachment
<u>1.jpg</u>		Photo 1			EDIT
<u>2.jpg</u>		Photo 2			EDIT
<u>3.jpg</u>		Photo 3			EDIT
<u>4.jpg</u>		Photo 4			EDIT
WORK ORDERS					Create Request
COSTS AND RECO OTHER OPTIONS	VERY				
PRINT INCIDENT	Format:	Incident Templa	te 🔻		

https://umt.famis.com/Incident_Update.asp?IncidentID=17&Mode=Incident&Action=View&SliderOpen=1



Create Incident Find Incident Dashboard Run Report

GENERAL INFORMATION Edit this Incident Incident ID: 18 Incident Status: Open Property: 000 Grounds Space/Floor: General Incident Type: Storm Water Incident Sub Type: **Illicit Discharge** Location: Incident Date: 12/23/2019 10:13 AM Root Cause: Incident End Date: Other: **External Incident ID:** Company Doing Work: University of Montana Asset: Confidential: No

INCIDENT SUMMARY	
Incident Description I:	Investigate the continuous water flow from our East Outfall.
Incident Description II:	Entered WO 9506 for Plumbing Shop to investigate continuous flow at East Outfall
Incident Description III:	Luke Woodward thinks he has traced flow back to AC units in Facilities Services that use potable water that is dumped into roof drains

Root Cause Investigation:

INCIDENT REPORTED B	Y		
First Name:	Paul	Last Name:	Trumbley
Company/Department:		Occupation:	
E-mail Address:	paul.trumbley@umontana.edu	Phone:	406-243-2127
INCIDENT ENTERED BY			
First Name:	Paul	Last Name:	Trumbley
Company:	University of Montana	E-mail Address:	paul.trumbley@umontana.edu
Phone:	406-243-2127	Fax:	
TIMELINE			Show Audit Entries Add Line Item
PERSONS INVOLVED			Add Person
FILE ATTACHMENTS		7	Add File Attachment
WORK ORDERS		-	Create Request
COSTS AND RECOVE OTHER OPTIONS	RY		
PRINT INCIDENT	Format: Incident Temp	late 🔻	PRINT
OTHER OPTIONS:	Outbound Reclassify		

Small MS4 2019 Annual Report Attachment 15 Construction Site Storm Water Management

The University of Montana lands within the building code jurisdiction of the City of Missoula. Construction and development plans currently undergo a review and permitting process with the City of Missoula. City of Missoula inspectors also currently inspect campus projects. In order to not duplicate effort, UM has had preliminary discussions with the City of Missoula Storm Utility staff about the possibility of UM construction and development falling under the City of Missoula Construction Site Storm Water Management Program. UM's plan over the next year is to formalize an agreement between the City of Missoula and the University of Montana to define roles and responsibilities.

Small MS4 2019 Annual Report Attachment 16 Post-Construction Facility Inventory

University of Montana Post Construction Facility Inventory

Facility #	Grid Location	Туре	Notes
DW3A-1	3A	Dry Well/Sump	
DW3A-2	3A	Dry Well/Sump	
DW3A-3	3A	Dry Well/Sump	
DW4A-1	4A	Dry Well/Sump	
DW4A-2	4A	Dry Well/Sump	
DW4A-3	4A	Dry Well/Sump	
DW4A-4	4A	Dry Well/Sump	
DW5A-1	5A	Dry Well/Sump	
DW5A-2	5A	Dry Well/Sump	
DW5A-3	5A	Dry Well/Sump	
DW5A-4	5A	Dry Well/Sump	
DW5A-5	5A	Dry Well/Sump	
DW5A-6	5A	Dry Well/Sump	
DW7A-1	7A	Dry Well/Sump	
DW7A-2	7A	Dry Well/Sump	
DW7A-3	7A	Dry Well/Sump	
DW7A-4	7A	Dry Well/Sump	
DW7A-5	7A	Dry Well/Sump	
DW7A-6	7A	Dry Well/Sump	
DW7A-7	7A	Dry Well/Sump	
DW7A-8	7A	Dry Well/Sump	
DW7A-9	7A	Dry Well/Sump	
DW7A-10	7A	Dry Well/Sump	
DW7A-11	7A	Dry Well/Sump	
DW7A-12	7A	Dry Well/Sump	
DW8A-1	8A	Dry Well/Sump	
DW8A-2	8A	Dry Well/Sump	
DW8A-3	8A	Dry Well/Sump	
DW8A-4	8A	Dry Well/Sump	
DW2B-1	2B	Dry Well/Sump	
DW2B-2	2B	Dry Well/Sump	
DW2B-3	2B	Dry Well/Sump	
DW2B-4	2B	Dry Well/Sump	
DW2B-5	2B	Dry Well/Sump	
DW2B-6	2B	Dry Well/Sump	
DW2B-7	2B	Dry Well/Sump	
DW2B-8	2B	Dry Well/Sump	
DW3B-1	3B	Dry Well/Sump	
DW3B-2	3B	Dry Well/Sump	

DW3B-3	3B	Dry Well/Sump	
DW3B-4	3B	Dry Well/Sump	
DW3B-5	3B	Dry Well/Sump	
DW4B-1	4B	Dry Well/Sump	
DW4B-2	4B	Dry Well/Sump	
DW4B-3	4B	Dry Well/Sump	
DW4B-4	4B	Dry Well/Sump	
DW4B-5	4B	Dry Well/Sump	
DW4B-6	4B	Dry Well/Sump	
DW4B-7	4B	Dry Well/Sump	
DW4B-8	4B	Dry Well/Sump	
DW4B-9	4B	Dry Well/Sump	
DW4B-10	4B	Dry Well/Sump	
DW4B-11	4B	Dry Well/Sump	
DW4B-12	4B	Dry Well/Sump	
DW4B-13	4B	Dry Well/Sump	
DW4B-14	4B	Dry Well/Sump	
DW5B-1	5B	Dry Well/Sump	
DW5B-2	5B	Dry Well/Sump	
DW5B-3	5B	Dry Well/Sump	
DW5B-4	5B	Dry Well/Sump	
DW6B-1	6B	Dry Well/Sump	
DW7B-1	7B	Dry Well/Sump	
DW7B-2	7B	Dry Well/Sump	
DW7B-3	7B	Dry Well/Sump	
DW7B-4	7B	Dry Well/Sump	
DW7B-5	7B	Dry Well/Sump	
DW7B-6	7B	Dry Well/Sump	
DW7B-7	7B	Dry Well/Sump	
DW7B-8	7B	Dry Well/Sump	
DW7B-9	7B	Dry Well/Sump	
DW7B-10	7B	Dry Well/Sump	
DW7B-11	7B	Dry Well/Sump	
DW7B-12	7B	Dry Well/Sump	
DW8B-1	8B	Dry Well/Sump	
DW8B-2	8B	Dry Well/Sump	
DW8B-3	8B	Dry Well/Sump	
DW8B-4	8B	Dry Well/Sump	
DW8B-5	8B	Dry Well/Sump	
DW8B-6	8B	Dry Well/Sump	
DW8B-7	8B	Dry Well/Sump	
DW8B-8	8B	Dry Well/Sump	
DW8B-9	8B	Dry Well/Sump	
DW8B-10	8B	Dry Well/Sump	
DW8B-11	8B	Dry Well/Sump	
DW8B-12	8B	Dry Well/Sump	
DW8B-13	8B	Dry Well/Sump	

DW8B-14	8B	Dry Well/Sump	
DW8B-15	8B	Dry Well/Sump	
DW8B-16	8B	Dry Well/Sump	
DW8B-17	8B	Dry Well/Sump	
DW8B-18	8B	Dry Well/Sump	
DW4C-1	4C	Dry Well/Sump	
DW4C-2	4C	Dry Well/Sump	
DW4C-3	4C	Dry Well/Sump	
DW4C-4	4C	Dry Well/Sump	
DW4C-5	4C	Dry Well/Sump	
DW4C-6	4C	Dry Well/Sump	
DW4C-7	4C	Dry Well/Sump	
DW4C-8	4C	Dry Well/Sump	
DW4C-9	4C	Dry Well/Sump	
DW4C-10	4C	Dry Well/Sump	
DW4C-11	4C	Dry Well/Sump	
DW4C-12	4C	Dry Well/Sump	
DW4C-13	4C	Dry Well/Sump	
DW5C-1	5C	Dry Well/Sump	
DW5C-2	5C	Dry Well/Sump	
DW5C-3	5C	Dry Well/Sump	
DW5C-4	5C	Dry Well/Sump	
DW5C-5	5C	Dry Well/Sump	
DW7C-1	7C	Dry Well/Sump	
DW7C-2	7C	Dry Well/Sump	
DW7C-3	7C	Dry Well/Sump	
DW7C-4	7C	Dry Well/Sump	
DW7C-5	7C	Dry Well/Sump	
DW7C-6	7C	Dry Well/Sump	
DW7C-7	7C	Dry Well/Sump	
DW7C-8	7C	Dry Well/Sump	
DW7C-9	7C	Dry Well/Sump	
DW8C-1	8C	Dry Well/Sump	
DW8C-2	8C	Dry Well/Sump	
DW3D-1	3D	Dry Well/Sump	
DW3D-2	3D	Dry Well/Sump	
DW3D-3	3D	Dry Well/Sump	
DW3D-4	3D	Dry Well/Sump	
DW3D-5	3D	Dry Well/Sump	
DW3D-6	3D	Dry Well/Sump	
DW3D-7	3D	Dry Well/Sump	
DW3D-8	3D	Dry Well/Sump	
DW3D-9	3D	Dry Well/Sump	
DW4D-1	4D	Dry Well/Sump	
DW4D-2	4D	Dry Well/Sump	
DW4D-3	4D	Dry Well/Sump	
DW4D-4	4D	Dry Well/Sump	

DW4D-5 4D Dry Well/Sump



Small MS4 2019 Annual Report Attachment 18 Post-Construction Storm Water Management Inspection Form

Name of Inspector: Paul Trum bley Inspection Date: 12 - 19 - 19Date of most recent rain event: 12 - 19 - 19Rain Condition (circle one):

Drizzley Shower / Downpour / Other _____

Ground Condition (circle one):

Dry / Moisy / Ponding / Submerged / Snow accumulation

Inspect the sumps that feed into west outfall

<u> </u>	Properly Shown				
Sump Tag	on Map	Inlet Condition	Debris/Sediment in sump	WO #	Notes
Dw 2 B-7	Υ.	Very birty could not inspectsm	<i>o</i>	11568	clean grate
Dw2B-b	Ч	clean	leaves + dint		
DWZB-5	<u>۲</u>	clean	leaves + dirt		
DW2B-X	N	clean	leaves + dirt		label on map
Dw2B-Y	N	clean	leaves + dirt		Add this sump to map
pw2B-8	Y	clean	leaves & dirt		
pw2B-1	Y	clean	Full of water - sump is not draining	11568	Needs to be vaccumed out

Notes	Vaccan out	Vaccum out	Vaccum out	Could not locate this sump	,	Pry sum P Add to MaD	pry Sum P Add to Map	Pry Samp Add to Mar	Could not find sump	could not find sump	•		
# O/M	11568	11568	11569							-			
Dahris/Sadimant in sumn	Stauding water	tull of debris	Appears to be half fall of sand		Full & ice & dirt Z' down	eaves	leaves	2002					
Inlet Condition	Clean	Clean	Clean-Botan		clean	clean	clean	clean					
Properly Shown		0-	2	Ν	2	γ	N	N	γ	2			
Sumn Tag	Du 38-2	DW 3 B-3	0W38-4	DW38-5	DW 38-2	p w28-A	DWZC-A	0~72~9	DWZB3	DW 2B- 4			

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Small MS4 2019 Annual Report Attachment 19 Standard Operating Procedures

GROUND MAINTENANCE – Grounds Department

Purpose of SOP: To protect storm water system by using proper mowing and ground maintenance techniques.

The Grounds Department performs ground maintenance on campus. The grass clippings are mulched in place and additional vegetation (i.e. leaves and vegetative debris) are collected and removed from campus. Lawn mowers, weed eaters, blowers, etc. are maintained and stored within the Grounds and Labor Shop on concrete floors.

Always:

- Mow only as low as needed for the areas intended use.
- Water at appropriate times.
- Manage leaves, clippings, and compost so that runoff does not enter storm drain system.
- Use caution when fueling equipment so not to spill any fuel.

Whenever Possible:

- Keep mower blades sharpened to avoid damaging grass leaf tissue.
- Sweep/blow lawn clippings and debris off of sidewalks and roadways back onto the lawn instead of using water.
- Mulch grass clippings using a mulching mower.
- Collect and remove additional vegetation (leaves and vegetative debris) to permitted landfill.

Never:

- Never dump gas, wastes or contaminated water down storm drains.
- Never refuel or change the mower oil near storm drains.

STORAGE AND APPLICATION OF FERTILIZER AND HERBICIDES – Grounds Department

Purpose of SOP: To protect storm water system by properly storing and applying fertilizers and herbicides.

The Grounds Department currently has five employees that have Department of Agriculture Pesticide Applicator License. The Grounds and Labor Shop is the location for fertilizer and herbicide storage. The Grounds Department uses a variety of fertilizers and pesticides in the maintenance of campus grounds. All fertilizer and pesticides are applied following manufacture instructions. The fertilizers and herbicides are stored inside on concrete floors.

Always:

- Store fertilizers and herbicides in high, dry locations, according to manufacturer's specifications and applicable regulations.
- Clearly label secondary containers.
- Properly dispose of fertilizers and herbicides according to manufacturer's specifications and applicable regulations.
- Regularly inspect fertilizer and herbicide storage areas for leaks or spills.
- Clean up spill and leaks of herbicides and fertilizers to prevent the chemicals from reaching the storm drain system.

Whenever Possible:

- Use all fertilizers and herbicides appropriately to minimize the amount of chemicals requiring disposal.
- Apply fertilizers during period of maximum plant uptake (spring and fall).
- Aerate grassed areas to improve drainage and bring more oxygen to the soil.

Never:

- Never dispose of fertilizers or herbicides in a storm drain.
- Never fertilize before a forecasted heavy rainfall.
- Never leave unlabeled or unstable chemicals in uncontrolled locations.

Vehicle Maintenance – Vehicle & Transportation Department

Purpose of SOP: To protect storm water system by using proper vehicle maintenance procedures.

The Motor Vehicle Shop is located in the Facilities Services Compound on the east side of campus. The vehicle maintenance garage has floor drains that flow into the sanitary sewer system.

Always:

- Apply absorbents on all spills from vehicle maintenance.
- Dispose of used oil into the recycling barrel for pick-up.
- Dispose of used antifreeze into the recycling barrels for pick-up.
- Inspect parking areas for stain/leaks on a regular basis.

Whenever Possible:

• Maintain vehicles to prevent leaks.

Never:

• Store leaking vehicles over a storm drain.

Erosion and Sediment Control – For self-performed projects Grounds or Labor Departments

Purpose of SOP: To protect storm water by using proper erosion and sediment control procedures.

Always:

- Use erosion control techniques or devices to stabilize disturbed areas.
- Use effective site planning.
- Keep land disturbance to a minimum.
- Inspect erosion control devices weekly.
- Install erosion control devices properly.
- Remove sediment accumulated during construction from permanent BMPs once construction is complete.
- Minimize slope lengths to reduce the velocity of storm water runoff.
- Prevent erosion by covering bare soil and stockpiles with mulch or other cover.
- Protect existing storm water structures from sediment by using temporary sediment traps, silt fences, hay bales, or perforated risers.

Whenever Possible:

- Install erosion control blankets when seeding drainage ways.
- Establish vegetative cover with good root systems prior to freeze/thaw cycles.

Never:

- Divert runoff into a sensitive area.
- Remove temporary measures before construction is complete.

Trash Management – Custodial and Labor Departments

Purpose of SOP: To protect storm water system by using proper trash management procedures. The Grounds Department sweeps campus for trash Monday-Friday and after large events.

Always:

• Cover trash bins to keep trash in and wind and rain out.

Whenever Possible:

- Place dumpsters on a flat, concrete surface that does not slope or drain directly into the storm drain system.
- Locate dumpsters and trash cans in convenient, easily observable areas.
- Provide properly-labeled recycling bins to reduce the amount of trash disposed.
- Inspect trash bins for leaks regularly, and have repairs made immediately by responsible party.
- Keep bins free of improperly discarded trash.
- Provide training to employees to prevent improper disposal of general trash.
- Request/use dumpsters without drain holes.

Never:

- Place hazardous wastes in a dumpster or trash bin.
- Place gasoline-contaminated wastes in a trash bin.
- Place oil-contaminated materials that release free draining oil into a trash bin.

Catch Basin Cleaning – Plumbing Department

Purpose of SOP: To protect storm water system by using proper catch basin cleaning procedures.

Always:

- Conduct a visual inspection annually.
- Place a work order for cleaning if inspection shows cleaning is needed.
- Clean catch basins on dry weather days.
- Place debris in dumpster for proper disposal.

Whenever Possible:

• Use a Vacuum truck for cleaning.

Never:

• Flush debris down the catch basin.

Street and Parking Lot Maintenance – Labor Department

Purpose of SOP: To protect storm water system by using proper street and parking lot maintenance procedures.

Street and parking lot storm drainage flows into either a piped storm water system or drywells.

Always:

- Each spring campus streets and parking lots will be swept to collect sand and sediment applied throughout the winter.
- Each morning the Grounds Department canvas streets and parking lots for trash Monday-Friday and after large events.

Whenever Possible:

• Facilities Services staff to keep an eye open for vehicles leaking fluids.

Never:

• Never sweep sediment or debris into street or parking lot catch basins



















































Small MS4 2019 Annual Report Attachment 21 Storm Water Pollution Prevention Training Sign In Sheet

Trades Staff

UNIVERSITY OF MONTANA

TRAINING DOCUMENTATION FORM

Date: 12/4/19 Training Topic: Parking Lot/Road Spill Response

Time: 10:30 - 11:30

Location: Facility Services Custodial Conference Room

Course Outline:

Common spills or releases Types of spill absorbents Storm Sewer discharge update Response protocol Proper clean-up and disposal

#	Name (Print)	Signature	ID Number
1	JAWIES LION	James Lym	
2	Slade Johnson	Much A Unit	
3	bula Dochorod	I and	
4	Dun Pigmotti	Van Karalt	
5	JAMES VIERBAAMC	Alla	
6	GREG TERREL	M2	
7	Stacy Finn	Store mAhn	
8	Mail Alus	Et Shi	
9	stelle DRAY	15th	
10	Turone Um	mont	1
11	DELLON LAPSUS	O. hogo -	
12	Rudy Federici	Ruly of Som .	
13	JASON Skellon	frese	
14	Kerin Herris	1/Alters	
15	Mike Schalk	While Schalk	
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Name (Print) Signature **ID Number** # p. 16 Qheistensen 17 ONYO 18 WDE 3B Sustin OBrien 19 fattae 20 ONKOM 21 -22 23 24 0 C 25 10 26 Oh405 27 28 dil 29 TOMICEK 30 31 yNe 32 Mrson-33 NISSU 34 orles 35 36 U. Soin 37 38 39 40 ÷

TRAINING DOCUMENTATION FORM

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TRAINING DOCUMENTATION FORM

Date: 12-5-19

Training Topic: Parking Lot/Road Spill Response

Time: 4:30 pm

Location: Facility Services Custodial Conference Room

Course Outline:

Response protocol Proper clean-up and disposal

Common spills or releases Types of spill absorbents Storm Sewer discharge update

#	Name (Print)	Signature	ID Number
1	Reina Sheiman	la	
2	Joseph worldfuedt	Just's hits	
3	Tim Jiran	Ti gi	
4	Traci Bauman	France Brown	
5	Ratina Martin	training motion	
6	Joe Peterson	Joe totor	-
7	Casey Nurphy,	Cory My	
8	Tim bandt	Tim barat	
9	Chuck Bordell	When Bordell	
10	Louris Halcomb	Janut Hatory	
11	Jim PENGER "	fellera	
12	SEAN REVILL	Sand this	
13	Lesley Clark	histiglhih	
. 14	Jory Dali	Julpa	
15	Robin Weber	That	

Instructor Signature: Paul Sumbley Title: ASSCO. Dir Eng & Of: (itres

TRAINING DOCUMENTATION FORM

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#	Name (Print)	Signature	ID Number
16	Melissa macstalt	Medersa maisteat	
17	Caleb Glaser	Without	
18	Mary Gren	May Hour	
19	Jack Richlie	Jack Rubbo	
20	Amber McCall	andry NEON	
21	Christoph Feichtinger	Christin Fercht	
22	Mikethuber	Mulu The	
23	Brad Lipnicken	And sinter	×
24	BRAD LARSON	AM	
25	In Hamilton	Cla Olmer	
26	Leonard Survisou	Seconard Survisi	
27	BbKimbell	Diskna	
28	Pylan Myhre	Al mit	
29	Marina VanDenBerg	Marin Von PenBerg	
30	Nicholas Bohn	ne	
31	Zachany Emerson	Zoly Em	
32	Gail Harrison	Start Horre	
33	Gwen Hastings	Hundeligh Attatings	
34	AAPON Shull	Ann Shull	
35	PUTTIS LEWIS	P.I.M.J.XM.Z	÷ .
36	COTEY NEWELL	all alles	
37	Austin Southwick	ALLER front to	
38	MARTON GELLVING		
39	Maley Fren	mhat.	
40	hristen Hoffman	Winter Bolman	
L	Harris Charles and the		

Name (Print) # Signature **ID** Number 41 790-74-6556 1720 42 Bartlett 790-22-1491 Bartlett 43 44 1 C 790-788-078 ano 45 2(2UNSKI 790-747 -997 46 273-1743 Cher K rudop lanudop 79064 47 00 JAM AGD 48 Stephanic Lyons 290-23-2738 49 Elliolt lar im 790-37-2918 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65

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