New Mexico Department of Transportation DISTRICT 1

FY 2020 MS4 Annual Report

Reporting Period: July 1, 2019 – June 30, 2020





Per the requirements of our NPDES MS4 Permit, NMDOT is posting this Draft FY 2020 MS4 Annual Report for public review and comment. The comment period is 30 days; the comment period will end on **Monday**, **November 9**, **2020**. If you have a comment, please e-mail it to: NMDOT.IDDE@STATE.NM.US

Prepared by:

BOHANNAN HUSTON, INC. 7500 JEFFERSON STREET NE ALBUQUERQUE, NM 87109



Engineering
Spatial Data
Advanced Technologies

Annual Report Format



National Pollutant Discharge Elimination System Stormwater Program MS4 Annual Report Format



Check box if you are submitting an elements.	individual Annual Report with one	or more coop	perative pro	gram 🗵		
Check box if you are submitting an	individual Annual Report with ind	ividual progra	am elements	s only.		
Check box if this is a new name, ad	dress, etc.					
1. MS4(s) Information						
New Mexico Department of Trans	portation - District 1					
Name of MS4						
Trent	Doolittle		District	1 Engineer	-	
Name of Contact Person (First)	(Last)		(Title)			
(575) 544-6621	trent.doolittle@state.r	nm.us				
Telephone (including area code)	E-mail		_			
2912 E. Pine Street						
Mailing Address						
Deming	NM		88030			
City	State		ZIP cod	e		
What size population does your MS	4(s) serve? 159,312	NPDES	S number	NMR04E005	and NMR04	1L005
What is the reporting period for this	report? (mm/dd/yyyy) From	Jul 1, 2019	to [-	Jun 30, 2020]	
2. Water Quality Priorities A. Does your MS4(s) discharged	ge to waters listed as impaired on a	state 303(d)	list? ∑	Yes No	0	
	red water, the impairment, whether is a wasteload allocation to your MS ary.					
Impaired Water	Impairment	Approve	d TMDL	TMDL assigns	WLA to MS4	_
2101_03 Rio Grande NM (NM₫	None (but TMDL for E. coli)	X Yes	☐ No	× Yes	☐ No	
2101_00 Rio Grande NM (Inter	Boron	Yes Yes	No No	Yes Yes	☐ No	
2101_00 Rio Grande NM (Inte	E. coli	X Yes	□ No	X Yes	☐ No	
		Yes	☐ No	Yes	☐ No	

	B. Continued Approved TMDL TMDL assigns TMDL assigns						WLA to MS4			
				Yes	☐ No	Yes	☐ No			
				Yes	☐ No	Yes	☐ No			
Г				Yes	□ No	Yes	□ No			
				Yes	☐ No	Yes	□ No			
	C. What specific sources contributing to the impairment(s) are you targeting in your stormwater program?									
	NMDOT maintenance activities target collection, removal, and disposal of floatables, roadside litter, and sediment. NMDOT compliance with CGP requirements targets sedimentation concerns within the watershed.									
	D.		gh-quality waters (e.g., Tier 2, Tier ate or federal designation)?	3, outstandin	g natural	☐ Yes	⊠ No			
	E.	Are you implementing add	itional specific provisions to ensure	their continu	ed integrity?	☐ Yes	⊠ No			
3.	Public Education and Public Participation A. Is your public education program targeting specific pollutants and sources of those pollutants? ☐ Yes ☐ No B. If yes, what are the specific sources and/or pollutants addressed by your public education program?									
	NMDOT brochures, educational displays, and outreach programs address litter, household hazardous waste, illicit discharges, pet waste, and general stormwater quality awareness.									
	C.	C. Note specific successful <u>outcome(s)</u> (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.								
			nal handouts at pre-construction m approximately 17 tons of trash fro				al program			
	D.		ommittee or other body comprised or regular input on your stormwater pro		nd other	☐ Yes	⊠ No			
4.	A.	Construction Do you have an ordinance	or other regulatory mechanism stipu	ılating:						
		Erosion and sediment cont	rol requirements?			X Yes	☐ No			
		Other construction waste of	control requirements?			X Yes	☐ No			
		Requirement to submit con	nstruction plans for review?			X Yes	☐ No			
		MS4 enforcement authorit	y?			X Yes	☐ No			
	B.	Do you have written proce	dures for:							
		Reviewing construction pl	ans?			X Yes	☐ No			
		Performing inspections?				X Yes	☐ No			
		Responding to violations?				X Yes	☐ No			
	C.	Identify the number of active reporting period. 5	$\frac{\text{ve construction sites}}{2}$ acre in ope	ration in you	r jurisdiction	at any time d	uring the			
	D.	D. How many of the sites identified in 4.C did you inspect during this reporting period?								
	E.	•	frequency with which your program							
AI	All projects within NMDOT right-of-way are inspected per the Construction General Permit (CGP) requirements.									

	F.	Do you prioritize certain construc	∐ Yes	⊠ No			
		If Yes, based on what criteria?	All projects within NMDO General Permit requirem	-	ay are inspecte	d per the Co	onstruction +
	G.	Identify which of the following ty activities, indicate the number of a	-	~ .	construction		
		Yes Notice of violation	0	Authority			
		Yes Administrative fines	0 No	o Authority			
		Yes Stop Work Orders	0 No	o Authority			
		Yes Civil penalties	0 No	o Authority	\boxtimes		
		Yes Criminal actions	0 No	Authority			
		Yes Administrative orders	0 No	Authority			
		Yes Other					
	H.	Do you use an electronic tool (e.g inspection results, and enforcement jurisdiction?				X Yes	□ No
	I.	What are the 3 most common type	es of violations documented	l during this r	eporting period	?	
Т	vnica	Illy NMDOT projects will have mind					resulted in an
1 -	-	ement action. NMDOT has the abi				-	
	J.	How often do municipal employee	es receive training on the co	onstruction pr	ogram? On	ce per 4 yea	rs
5.	A.	Illicit Discharge Elimination Have you completed a map of all system?	outfalls and receiving water	rs of your sto	rm sewer	⊠ Yes	□ No
	B.	House seem as a late discussion of all					
		sewer system?	storm drain pipes and other	conveyances	in the storm	Yes	⊠ No
	C.			conveyances	in the storm	Yes	⊠ No
	C.	sewer system?	your storm sewer system.	10		☐ Yes ☐ Yes	⊠ No
	_	sewer system? Identify the number of outfalls in	your storm sewer system. res, including frequency, fo	10 or screening of	outfalls?	∑ Yes	□ No
	D. E.	sewer system? Identify the number of outfalls in your bound of procedure to be a sewer system? Do you have documented procedure.	your storm sewer system. res, including frequency, fo	10 or screening of	outfalls?	∑ Yes	□ No
	D. E.	sewer system? Identify the number of outfalls in you have documented procedu Of the outfalls identified in 5.C, he	your storm sewer system. res, including frequency, for own many were screened for	or screening of dry weather	outfalls? discharges duri	Yes ng this repor	☐ No rting period?
	D. E. No F.	sewer system? Identify the number of outfalls in y Do you have documented procedu Of the outfalls identified in 5.C, he one Of the outfalls identified in 5.C, he	your storm sewer system. res, including frequency, for the control of the contro	or screening of dry weather	outfalls? discharges duri	Yes Ing this report Is at any time	☐ No rting period? since you
0	D. E. N. F.	Sewer system? Identify the number of outfalls in your documented procedure. Of the outfalls identified in 5.C, he obtained MS4 permit coverage?	your storm sewer system. res, including frequency, for ow many were screened for ow many have been screened. All ing outfalls for illicit discharge.	or screening of dry weather	outfalls? discharges duri	Yes Ing this report Is at any time	☐ No rting period? since you
0	D. E. No. F. G.	Sewer system? Identify the number of outfalls in the procedure of the outfalls identified in 5.C, he cone Of the outfalls identified in 5.C, he obtained MS4 permit coverage? What is your frequency for screen	your storm sewer system. res, including frequency, for the pow many were screened for the pow many have been screened. All the per Permit term.	or screening of dry weather ed for dry weather arges? Descri	outfalls? discharges duri ather discharges the any variation	Yes Ing this report Is at any time	☐ No rting period? since you

	J.	During thi	During this reporting period, how many illicit discharges/illegal connections have you discovered?						
	K.	Of those illicit discharges/illegal connections that have been discovered or reported, how many have been							
		eliminated? N/A							
	L.	How often	do municipal employees receive training on the illicit discharge program?	See Additional I	Explana				
6.	A.	Stormwat Have storm							
	Al	l public parl	ks, ball fields, other recreational facilities and other open spaces	Yes	⊠ No				
	Al	l municipal	construction activities, including those disturbing less than 1 acre	Yes	⊠ No				
	Al	l municipal	turf grass/landscape management activities	Yes Yes	⊠ No				
	Al	l municipal	⊠ Yes	☐ No					
	All municipal maintenance yards				☐ No				
	Al	l municipal	waste handling and disposal areas	Yes	⊠ No				
	Ot	her							
	B.	Are storm	water inspections conducted at these facilities?						
	C.	If Yes, at v	what frequency are inspections conducted? Twice per year						
	D.	List activit	ties for which operating procedures or management practices specific to storm	water managemei	nt have				
	Δ.		oped (e.g., road repairs, catch basin cleaning).	water managemen					
St	reet	sweeping,	litter pickup, catch basin cleaning, culvert cleaning, scour repair, and water	quality structure					
m	aint	enance.							
	E.	Do you pri	oritize certain municipal activities and/or facilities for more frequent?	Yes Yes	⊠ No				
	F.	If Yes, wh	ich activities and/or facilities receive most frequent inspections?						
	G.		nicipal employees and contractors overseeing planning and implementation of r-related activities receive comprehensive training on stormwater management	.? ⊠ Yes	☐ No				
	H.	If yes, do y	ou also provide regular updates and refreshers?	X Yes	☐ No				
	I.	If so, how	frequently and/or under what circumstances?						
O	ngoi	ng, as need	ed.						
7.	A.		n (Post-Construction) Stormwater Measures ve an ordinance or other regulatory mechanism to require:						
		-	ws for stormwater/water quality of all new and re-development projects?	⊠ Yes	□No				
		•	eration and maintenance of stormwater management controls?	⊠ Yes	□ No				
		-	incorporate long-term stormwater management controls?	⊠ Yes	□ No				
		•	e retrofit requirements, what are the circumstances/criteria?	Z 105					
NI			w STIP projects for opportunities to retrofit and incorporate appropriate cor	ntrol measures in	to				
			rojects. NMDOT will not develop an inventory or priority ranking of potentia						
	C		your criteria for determining which new/re-development stormwater plans you projects disturbing greater than one acre, etc.)?	will review (e.g.	, all				
	NMDOT will review STIP projects for opportunities to retrofit and incorporate appropriate control measures into redevelopment projects. NMDOT will not develop an inventory or priority ranking of potential retrofit projects.								

D.	Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development?							
E.	E. Do these performance or design standards require that pre-development hydrology be met for:							
Flo	ow volumes Yes No							
Pea	ak discharge rates							
Dis	scharge frequency							
Flo	ow duration Yes No							
F.	Please provide the URL/reference where all post-construction stormwater management standards can be found.							
ht	tps://dot.state.nm.us/content/dam/nmdot/Infrastructure/Drain_Design_Manual.pdf							
G.	G. How many development and redevelopment project plans were reviewed during the reporting period to assess							
	impacts to water quality and receiving stream protection? TBD							
Н.	How many of the plans identified in 7.G were approved?							
I.	How many privately owned permanent stormwater management practices/facilities were inspected during the							
	reporting period? Not application							
J.	How many of the practices/facilities identified in I were found to have inadequate maintenance? Not appli							
K.	How long do you give operators to remedy any operation and maintenance deficiencies identified during							
	inspections? Not applicable, NMDOT is t							
L.	Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$							
M.	How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to							
	adequately operate and/or maintain stormwater management practices?							
N.	Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?							
O.	Do all municipal departments and/or staff (as relevant) have access to this tracking Yes No system?							
P.	How often do municipal employees receive training on the post-construction program? Once per 4 years							
A.	Program Resources What was the annual expenditure to implement MS4 permit requirements this reporting period? \$692,400							
B.	What is next year's budget for implementing the requirements of your MS4 NPDES permit? \$892,000							
C.	This year what is/are your source(s) of funding for the stormwater program, and annual revenue (amount or percentage) derived from each?							
	Source: DOT Budget Amount \$ OR % 100							
	Source: Amount \$ OR %							
	Source: Amount \$ OR %							
D.	How many FTEs does your municipality devote to the stormwater program (specifically for implementing the							
	stormwater program; not municipal employees with other primary responsibilities)?							

8.

Enti		gram implementation re Activity/Task/Re	•			ntities? \(\sum \) Yes our Oversight/Accounta	ت bilityء	No Mechanism
		Refer to Item 10 Add	itional					
		Information Memo, I	tem 8E					
A. What have you practices indices,	at indicators of the been tracking to or tasks, but the measures of of	suring Progress do you use to evaluate to g them, and at what free large-scale or long-terre effective impervious con cator	equency? m metrics ver in the Began	These are no for the over	t measura all progra ndicators	able goals for individua nm, such as macroinver	ll mar tebrat ic stat	nagement re community
Adopt-	a-highway tr	acking	pre M	1S4 Permit	montl	hly		23 roadways
Mainte	nance activit	y tracking	pre M	1S4 Permit	weekl	у		23 roadways
		ntal quality trends have e attached electronically						
Please attach	III.B. If prov	rmation al information on the po iding clarification to an		-		_		•
I certify ununder my d qualified po on my inqu directly res best of my are signific	der penalty irection or ersonnel pro iry of the p ponsible for knowledge ant penaltie	and Signature of law that this docus supervision in accord operly gathered and of erson or persons who r gathering the informand belief, true, accord as for submitting fals for knowing violation	dance we evaluate or manage mation, urate, and e inform	ith a system d the inform ge the system the informated complete	n design nation s n, or the tion sub . I am a	ubmitted. Based ose persons omitted is, to the ware that there		Yes
		e this application to be pal executive or ranking			a munio	cipal, State, Federal, o	r oth	er public
Signature								
L				Name	of Certif	fying Official, Title	Γ	Date (mm/dd/yyyy)



Date: DRAFT – October 9, 2020

To: EPA Region 6

From: Trent Doolittle, PE, NMDOT District 1 Engineer

Subject: NPDES Stormwater Program MS4 Annual Report

Item 10: Additional Information

New Mexico Department of Transportation, District 1

NPDES Permit NMR04E005 (El Paso) and NMR04L005 (Las Cruces)

The items below provide additional information for each corresponding item in the MS4 Annual Report Format pdf for the reporting period July 1, 2019, to June 30, 2020.

- The total population listed of 159,312 includes 128,600 for the City of Las Cruces Urbanized Area (UA) and 30,712 for the El Paso, TX – NM UA, which are the two classified UAs within NMDOT District 1. The 2010 U.S. Census population values for the urbanized areas and urban clusters were used for this population estimate.
 NPDES Permit numbers: NMR04E005 (El Paso) and NMR04L005 (Las Cruces).
- 2. **2B**: Impaired Waters text box in the Environmental Protection Agency (EPA) MS4 Annual Report Format pdf form truncates the text. For clarity, impaired waters that the NMDOT District 1 discharges to within the Las Cruces and El Paso MS4 areas include:

Impaired Water*	Impairment	Approved TMDL?	TMDL Assigns WLA for MS4?
Rio Grande NM-2101_03			
(NM 192 Bridge W of Mesquite to	None**	Yes – E. coli	Yes
Picacho Bridge)			
Rio Grande NM-2101_00			
(International Mexico boundary to	Boron	No	N/A
Anthony Bridge)			
Rio Grande NM-2101_00			
(International Mexico boundary to Anthony Bridge)	E. coli	Yes	Yes

^{*}Impaired water designation from New Mexico Environment Department (NMED) Surface Water Quality Bureau 2018-2020 State of New Mexico CWA §303(d)/§305(b) Integrated List & Report.

^{**}Not all the Lower Rio Grande through the Las Cruces and El Paso UA is impaired for E. coli; however, there is a TMDL for E. coli from the International Boundary with Mexico to the Elephant Butte Dam (June 11, 2007).

2C: NMDOT maintenance activities target collection, removal, and disposal of floatables, roadside litter, and sediment. NMDOT compliance with the Construction General Permit (CGP) requirements targets sedimentation concerns within the watershed.

NMDOT's facilities and activities do not contribute directly to the impairments and therefore, NMDOT's activities do not directly target some of these impairments. NMDOT does not contribute to the boron impairment, as boron in rivers is typically attributed to inputs from natural sources, wastewater, and fertilizers – all of which are not directly related to NMDOT roadways or operations. For E. coli, MS4s can be significant sources of E. coli because they transport urban runoff that can be affected by pet waste, illicit sewer connections, and failing septic systems – all of which are not directly related to NMDOT roadways or operations.

- 3. No additional comments on information provided on the MS4 Annual Report Form.
- 4. **4A**: Regulatory Mechanisms:

NMDOT Standard Specifications for Highway and Bridge Construction – web link: https://dot.state.nm.us/content/nmdot/en/standards.html#, construction contract, and NPDES Manual – web link:

http://dot.state.nm.us/content/dam/nmdot/Infrastructure/NPDESM.pdf. NMDOT led the effort in FY 2020 to update the NPDES Manual. This updated Manual will be completed in FY 2021 and will include updated regulatory information as well as added Green Stormwater Infrastructure (GSI) and Low Impact development (LID) Best Management Practices.

- **4B**: NMDOT Standard Specifications for Highway and Bridge Construction and EPA SWPPP inspection form (available in NPDES Manual). Links provided in 4A above.
- **4C**: There were five (5) NMDOT active construction projects that were both within the MS4 boundary and disturbed greater than one (1) acre of bare ground. The projects included NM 273 (CN E100160), Valley Drive (CN LC00160), NM 404 (CN E100170), Artcraft (CN E1000818283), and I25/University (CN LC00250).
- **4J**: NMDOT NPDES/SWPPP Qualified training is required every four (4) years but is typically offered multiple times per year.
- 5. **5A**: NMDOT Outfalls maps for the Las Cruces and El Paso MS4 areas have been developed. These maps were provided to EPA with the Annual Report submitted on March 22, 2018 for the time period of January 1, 2016 through June 30, 2017.
 - **5B**: The vast majority of potential NMDOT storm drain outlets are short culverts under the roadways, and therefore do not need to be mapped to determine upstream sources. The limited networked storm drains within NMDOT ROW capture only NMDOT runoff. Mapping these will serve no benefit in locating illicit discharges entering NMDOT ROW from outside its jurisdiction. The City of Las Cruces storm drain map includes many of the NMDOT roadway drainage structures within the MS4 area.
 - **5C**: NMDOT has five (5) outfalls in the El Paso UA/MS4 area and five (5) outfalls in the Las Cruces UA/MS4 area for a total of 10 outfalls for District 1.

5H: NMDOT has no authority to issue an ordinance or other regulatory mechanism to prohibit illicit discharges.

5I: NMDOT has no authority to issue an ordinance or other regulatory mechanism to take enforcement action or recover costs for addressing illicit discharges.

5J & 5K: No illicit discharges were discovered by NMDOT during this reporting period in either the Las Cruces or El Paso UAs.

5L: NMDOT does not have a stand-alone illicit discharge training program – this topic is covered in the general stormwater training, spill prevention and response training, as well as in the maintenance activity performance guidelines (such as emergency repairs/cleanup and litter pickup). All employees also have access to an illicit discharge educational brochure and report form - http://dot.state.nm.us/content/dam/nmdot/Infrastructure/Illicit-Discharge-Brochure-and-Form.pdf.

6. **6A**:

- 1. NMDOT does not have parks or ball fields.
- 2. All projects greater than (>) one (1) acre are required to develop a SWPPP as required by the Construction General Permit (CGP); projects less than (<) one (1) acre are dealt with on a case-by-case basis.
- 3. NMDOT has negligible turf and landscaping.
- 4. NMDOT has an equivalent plan for vehicle fueling, operation and maintenance activities.
- 5. NMDOT has an equivalent plan for maintenance yard operation development of SWPPP type documents is currently underway for the NMDOT facilities within the UA/MS4 area.
- 6. NMDOT has no municipal waste handling facilities.

6B: Safety inspections typically include stormwater inspections and are conducted by NMDOT's Risk Management group, usually twice per year.

6G: All employees who approve drainage plans and final stabilization temporary erosion control plans receive comprehensive training on stormwater management.

7 **7E**·

- 1. Pre-development hydrology flow volumes are not limited by NMDOT design standards. Stormwater retention is required within MS4 areas as required in the MS4 Permits (covering the Middle Rio Grande Permit and anticipating the regulations in the forthcoming state-wide permit).
- 2. Peak discharge rate limits are addressed in the current Drainage Design Manual (DDM).
- 3. Discharge frequency is not limited by NMDOT design standards.
- 4. Flow duration is not limited by NMDOT design standards.

7F: The web page link to NMDOT's Drainage Design Manual, which includes post-construction stormwater management standards, is: http://dot.state.nm.us/content/dam/nmdot/Infrastructure/Drain Design Manual.pdf.

7I & 7J: Not applicable; there are no privately-owned facilities within the NMDOT jurisdiction.

7K through M: Not applicable; NMDOT is the only operator post-construction and as a result, no enforcement authority or action is required.

- 8. **8A**: Dollar amounts shown reflect estimated expenditures from July 1, 2019, through June 30, 2020. Expenditures shown reflect consultant fees, costs for maintenance activities (litter pickup, street sweeping, drainage structure cleaning, etc.), and New Mexico Corrections Department contract cost for litter pickup (which reflects costs District-wide, but most of those costs were within the MS4 boundary). The costs of the Drainage Design Bureau employee salaries, training, and travel expenses were **not** included in this MS4 program resources estimate.
 - 1. Consultant fees = \$58,500
 - 2. Maintenance/litter pickup activities = \$533,600
 - 3. NM Corrections Dept. contract for litter pickup = \$100,300
 - 4. Total = \$692,400

8B: Next year's budget for implementing NMDOT District 1's MS4 NPDES program is anticipated to be similar to this year's expenditures with an added \$200,000 expected for construction of district erosion control projects.

8C: NMDOT has no annual revenue or direct funding source for the MS4 program. The MS4 program budget (amounts shown) is allocated out of the general funding for the DOT.

8E: NMDOT is part of the Dona Ana Stormwater MS4 Advisory Group, which is organized as a Memorandum of Agreement between the City of Anthony, City of Las Cruces, City of Sunland Park, Doña Ana County, New Mexico State University, the New Mexico Department of Transportation District 1, and the Town of Mesilla. This Group agrees to support and encourage a cooperative commitment to assist one another with issues regarding compliance with the MS4 Permit within the Doña Ana Basin. The group cooperates on public education including distribution of pamphlets and informational brochures.

9. 9A: NMDOT is a non-traditional MS4 and evaluating the overall effectiveness of its stormwater management program focuses on metrics collected specific to its roadway facilities. Large scale watershed or in-stream hydrologic studies are beyond the jurisdiction and reach of NMDOT. NMDOT tracks adopt-a-highway data (public participation litter removal program) including the number of volunteers and amount of trash removed for each of the six (6) NMDOT districts within the state. In addition,

through NMDOT's MMS (previously termed HMMS) system, NMDOT tracks all their maintenance activities in each district including miles of roadway sweeping, litter removal, and drainage structure cleanings. Tracking this data assists NMDOT in evaluating the overall effectiveness of its activities related to stormwater management and MS4 Permit compliance.

10. Support documents similar to those provided with previous MS4 Annual Reports have been compiled and are on file at NMDOT offices. They have not been included in this report to keep this submittal to a manageable size. These support documents are available upon request.