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Municipal Separate Storm Sewer System (MS4)  
Permit

Sandia National Labs/NM Technical Reports

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10-6-2020

### **NTESS Annual Report 2020**

National Technology & Engineering Solutions of Sandia, LLC (NTESS) and Department of Energy (DOE)

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# Annual Report Format



## National Pollutant Discharge Elimination System Stormwater Program MS4 Annual Report Format



Check box if you are submitting an individual Annual Report with one or more cooperative program elements.

Check box if you are submitting an individual Annual Report with individual program elements only.

Check box if this is a new name, address, etc.

### 1. MS4(s) Information

Department of Energy/Sandia National Laboratories (DOE/SNL)

Name of MS4

John

Kay

Stormwater Program Lead

Name of Contact Person (First)

(Last)

(Title)

(505) 844-9485

jtkay@sandia.gov

Telephone (including area code)

E-mail

P.O. Box 5800, MS-0730

Mailing Address

Albuquerque

NM

87185-0730

City

State

ZIP code

What size population does your MS4(s) serve? 11,080

NPDES number

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) discharge to waters listed as impaired on a state 303(d) list?  Yes  No

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

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
		Yes	No	Yes	No
Rio Grande (NM-2105_50)	E. coli (see Addendum 2.B)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rio Grande (NM-2105_50)	PCB (fish tissue)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rio Grande (NM-2105_50)	DO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rio Grande (NM-2105.1_00)	PCB (fish tissue)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**2. B. Continued**

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
Rio Grande (NM-2105.1_00)	PCB (water column)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Rio Grande (NM-2105.1_00)	Gross Alpha	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Rio Grande (NM-2105.1_00)	E. coli (no impairment; 2016)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

C. What specific sources contributing to the impairment(s) are you targeting in your stormwater program?

Potential sources/causes of E. coli, PCB, and gross alpha are discussed in Addendum 2.C.

D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)?  Yes  No

E. Are you implementing additional specific provisions to ensure their continued 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?

Sediment, fertilizer, pesticides/herbicides, pet waste (E. coli), road salt, oil/petroleum, chemical/material storage. See SWMPP Section 11 for details.

C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.

See Addendum Section 3.C.

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program?  Yes  No

**4. Construction**

A. Do you have an ordinance or other regulatory mechanism stipulating:

Erosion and sediment control requirements?  Yes  No

Other construction waste control requirements?  Yes  No

Requirement to submit construction plans for review?  Yes  No

MS4 enforcement authority?  Yes  No

B. Do you have written procedures for:

Reviewing construction plans?  Yes  No

Performing inspections?  Yes  No

Responding to violations?  Yes  No

C. Identify the number of active construction sites  $\geq$  1 acre in operation in your jurisdiction at any time during the reporting period.

D. How many of the sites identified in 4.C did you inspect during this reporting period?

E. Describe, on average, the frequency with which your program conducts construction site inspections.

Every construction site is inspected at least once per month; more frequent inspections (every 7 or 14 days) occur if the site is unstabilized or following a storm event of  $\geq$  0.25 inches. See SWMPP Section 5.6 for additional details.

F. Do you prioritize certain construction sites for more frequent inspections?  Yes  No

If Yes, based on what criteria?

construction phase, receiving water, storm events, season, compliance history

G. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

Yes Notice of violation  No Authority

Yes Administrative fines  No Authority

Yes Stop Work Orders  No Authority

Yes Civil penalties  No Authority

Yes Criminal actions  No Authority

Yes Administrative orders  No Authority

Yes Other

H. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction?  Yes  No

I. What are the 3 most common types of violations documented during this reporting period?

Improperly installed sediment controls, insufficient concrete wash-out facilities, and insufficient signage (see addendum 4.I).

J. How often do municipal employees receive training on the construction program?

## 5. Illicit Discharge Elimination

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  Yes  No

B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system?  Yes  No

C. Identify the number of outfalls in your storm sewer system.

D. Do you have documented procedures, including frequency, for screening outfalls?  Yes  No

E. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period?

F. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage?

G. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.

Outfall screening is conducted at least twice per week per outfall. Auto-samplers are operational year-round to collect potential non-stormwater samples. See addendum 5.G.

H. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges?  Yes  No

I. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges?  Yes  No

J. 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?

L. How often do municipal employees receive training on the illicit discharge program?

## 6. Stormwater Management for Municipal Operations

A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:

- |  |   |                             |
|--|---|-----------------------------|
| All public parks, ball fields, other recreational facilities and other open spaces | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal construction activities, including those disturbing less than 1 acre | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal turf grass/landscape management activities                           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal vehicle fueling, operation and maintenance activities                | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal maintenance yards  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal waste handling and disposal areas                                    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Other

B. Are stormwater inspections conducted at these facilities?  Yes  No

C. If Yes, at what frequency are inspections conducted?

D. List activities for which operating procedures or management practices specific to stormwater management have been developed (e.g., road repairs, catch basin cleaning).

See Annual Report Addendum 6.D and SWMPP Section 7 (available at [https://digitalrepository.unm.edu/snI\\_ms4/](https://digitalrepository.unm.edu/snI_ms4/))

E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection?  Yes  No

F. If Yes, which activities and/or facilities receive most frequent inspections?

Activity areas permitted under the CGP and MSGP receive more frequent inspections than other MS4 facilities.

G. Do all municipal employees and contractors overseeing planning and implementation of stormwater-related activities receive comprehensive training on stormwater management?  Yes  No

H. If yes, do you also provide regular updates and refreshers?  Yes  No

I. If so, how frequently and/or under what circumstances?

SW100 and SW200 trainings (attendance based on job duties) are available on-line and required to be completed annually.

## 7. Long-term (Post-Construction) Stormwater Measures

A. Do you have an ordinance or other regulatory mechanism to require:

- |  |   |                             |
|--|---|-----------------------------|
| Site plan reviews for stormwater/water quality of all new and re-development projects? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Long-term operation and maintenance of stormwater management controls?                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Retrofitting to incorporate long-term stormwater management controls?                  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

B. If you have retrofit requirements, what are the circumstances/criteria?

Any new/redevelopment project with a footprint greater than 5,000 square feet must adhere to EISA Section 438 requirements and incorporate LEED design. See addendum 7.B.

C. What are your criteria for determining which new/re-development stormwater plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.)?

All plans for new/re-development projects disturbing one acre or more are reviewed as part of CGP SWPPP preparation. See SWMPP Sections 5 and 6.

- 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?  Yes  No
- E. Do these performance or design standards require that pre-development hydrology be met for:
- Flow volumes  Yes  No
- Peak discharge rates  Yes  No
- Discharge frequency  Yes  No
- Flow duration  Yes  No
- F. Please provide the URL/reference where all post-construction stormwater management standards can be found.

[epa.gov/polluted-runoff-nonpoint-source-pollution/stormwater-management-federal-facilities-under-section-438](http://epa.gov/polluted-runoff-nonpoint-source-pollution/stormwater-management-federal-facilities-under-section-438)

- G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection?
- H. 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?
- J. How many of the practices/facilities identified in I were found to have inadequate maintenance?
- K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?
- L. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities?  Yes  No
- 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?  Yes  No
- O. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  Yes  No
- P. How often do municipal employees receive training on the post-construction program?

## 8. Program Resources

- A. What was the annual expenditure to implement MS4 permit requirements this reporting period?
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit?
- 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: | <input type="text" value="see Addendum 8"/> | Amount \$ | <input type="text"/> | OR % | <input type="text"/> |
| Source: | <input type="text"/>                        | Amount \$ | <input type="text"/> | OR % | <input type="text"/> |
| Source: | <input type="text"/>                        | Amount \$ | <input type="text"/> | OR % | <input type="text"/> |
- 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)?

E. Do you share program implementation responsibilities with any other entities?  Yes  No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

**9. Evaluating/Measuring Progress**

A. What indicators do you use to evaluate the overall effectiveness of your stormwater management program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall program, such as macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
<i>Example: E. coli</i>	2003	Weekly April–September	20
Non-stormwater discharges	2016	=/>Twice weekly, year-round	5
E. coli concentrations	2016	8 times/permit period	5
PCB concentrations	2016	8 times/permit period	5
TSS concentrations	2016	8 times/permit period	5
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

B. What environmental quality trends have you documented over the duration of your stormwater program? Reports or summaries can be attached electronically, or provide the URL to where they may be found on the Web.

SWMPP control measures and water quality monitoring have not been implemented long enough to observe any meaningful trends. See Addendum 9.B for Sediment Pollutant Load Reduction Plan evaluation.

**10. Additional Information**


Please attach any additional information on the performance of your MS4 program, including information required in Parts I.C, I.D, and III.B. If providing clarification to any of the questions above, please provide the question number (e.g., 2C) in your response.

**Certification Statement and Signature**

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Yes  No

Federal regulations require this application to be signed as follows: **For a municipal, State, Federal, or other public facility:** by either a principal executive or ranking elected official.

Signature	 <small>Digitally signed by Johnathon Huff Date: 2020.10.06 08:18:21 -06'00'</small>	Johnathon Huff, Director of ES&H	10/06/2020
		Name of Certifying Official, Title	Date (mm/dd/yyyy)