



Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

February 12, 2019

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Subject: **Sequoyah Nuclear Plant, Annual Storm Water Monitoring Report, January 2019**

Attached is the Annual Storm Water Monitoring Report, January 2019, Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in cursive script that reads 'Millicent Garland'.

Millicent Garland
Environmental Scientist



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
 Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
 Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 19
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.773	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen _____ Site Vice President, Sequoyah Nuclear Plant
 Permittee name (print or type) _____ Official Title _____ Signature _____ Date 2/2/19

INSTRUCTIONS

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- Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



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Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 21
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

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Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.675	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

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I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen Site Vice President, Sequoyah Nuclear Plant
 Permittee name (print or type) Official Title Signature Date 2/12/19

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under the Tennessee Multi-Sector-General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 1
List all TMSP sectors which apply to discharge from this outfall:	<input type="radio"/>	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

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Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	2.680	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

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Matthew Rasmussen Site Vice President, Sequoyah Nuclear Plant
 Permittee name (print or type) Official Title Signature Date 2/12/19

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Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 18
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
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Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
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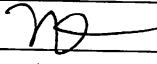
Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 13
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
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BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
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Matthew Rasmussen _____ Site Vice President, Sequoyah Nuclear Plant _____  _____ 2/12/19
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Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 9
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
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Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.565	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen Site Vice President, Sequoyah Nuclear Plant
 Permittee name (print or type) Official Title Signature Date 2/12/19

INSTRUCTIONS

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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
 Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
 Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

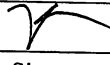
Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 3
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	2.310	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen _____ Site Vice President, Sequoyah Nuclear Plant _____  _____ 2/12/19
 Permittee name (print or type) Official Title Signature Date

INSTRUCTIONS

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 Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
 Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 2
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.358	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

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Matthew Rasmussen _____ Site Vice President, Sequoyah Nuclear Plant
 Permittee name (print or type) Official Title Signature Date 2/13/19

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Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 8
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
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