



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379-2000

March 16, 2005

State of Tennessee  
Department of Environment and Conservation  
Division of Water Pollution Control  
Enforcement and Compliance Section  
6th Floor, L & C Annex  
401 Church Street  
Nashville, Tennessee 37243-1534

**SEQUOYAH NUCLEAR PLANT – TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)  
ANNUAL STORM WATER MONITORING REPORT FOR 2004**

Enclosed is the 2004 Annual Storm Water Monitoring Report for Sequoyah Nuclear Plant TMSP TNR050015. Please contact me at (423) 843-6700 if you have any questions or comments.

*I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Sincerely,

Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant

Enclosure

cc (Enclosure):

Chattanooga Environmental Assistance Center  
Division of Water Pollution Control  
State Office Building, Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402-2013

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

IE25



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 1
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.82	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for: J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 1

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02403

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 11:20 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>1</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.82	mg/L	0.01	02/12/2004	13:21	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)  
**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 2
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	1.2	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

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Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

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**Enforcement and Compliance Section**  
**Division of Water Pollution Control**  
**6<sup>th</sup> Floor L&C Annex, 401 Church Street**  
**Nashville, TN 37243-1534**

Data Report Number: 040214-91910  
Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator  
SB 2A-SQN  
Phone Not Available  
Fax : Not Available  
E-Mail: SQN Environmental  
Location Code: SQN  
Field ID: SW# 2  
Sample Description: IRON  
Permit Number:  
Discharge Number:  
Method of Transport:  
Cont. Flow (MGD):

Sample ID: AE02404  
LRF ID: 04020104  
Matrix: Water  
Date Collected: 02/05/2004  
Time Collected: 11:53 EST  
Date Received: 02/09/2004  
Time Received: 11:14  
Project Manager: Lisa D. Ortiz  
Plant: SQN  
Project Account Code: 000WQNY  
Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysi s	Method Analyst Reference
Iron, Total	7439-89-6	1.2	mg/L	0.01	02/12/2004	13:26	LMJ EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 3
List all TMSP sectors which apply to discharge from this outfall:	0	Sample Date:	02/05/2004
Low Concentration Waiver (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	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	1.2	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

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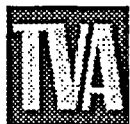
Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Donet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

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Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 3

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02405

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 10:45 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	1.2	mg/L	0.01	02/12/2004	13:31	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 4
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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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Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.76	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

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North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator  
SB 2A-SQN

Phone Not Available  
Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 4

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02406

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 8:31 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis	Analyst	Method Reference
Iron, Total	7439-89-6	0.76	mg/L	0.01	02/12/2004	13:36	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None

Storm Water Representative Discharge Certification

Storm Water Outfall # 8 is considered to be a representative discharge of Storm Water Outfall # 5 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall.

Storm Water Outfall # 5 consists of approximately 17 acres (740,523 ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 8 based on the percentages of gravel, asphalt, and impervious surfaces. Storm Water Outfall # 5 drains into the effluent for Storm Water Outfall # 8 and there is no dilution of this storm water with any non-storm water source. Therefore, this effluent should be substantially identical to that effluent from Storm Water Outfall # 8.

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*Stephanie A. Howard*

March 16, 2005

Date

Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 6
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	1.2	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534

Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES

1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 6

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02407

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 10:49 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis	Analyst	Method Reference
Iron, Total	7439-89-6	1.2	mg/L	0.01	02/12/2004	13:41	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None

Storm Water Representative Discharge Certification

Storm Water Outfall # 6 is considered to be a representative discharge of Storm Water Outfall # 7 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall.

Storm Water Outfall # 7 consists of approximately 6 acres (261,361 ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 6 based on the percentages of gravel, asphalt, and impervious surfaces. Materials in the area are also equivalent to that for Storm Water Outfall # 6. These consist of empty drums, metal buildings, construction equipment, concrete structures, wood and plastic similar to that equipment stored for in the area of Storm Water Outfall # 6.

This effluent should be substantially identical to that effluent from Storm Water Outfall # 6.

*I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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.*

*Stephanie A. Howard*

Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant

March 16, 2005  
Date



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 8
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.42	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

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Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
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Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534

Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES

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Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

# NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 8

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02408

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 8:35 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.42	mg/L	0.01	02/12/2004	13:46	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 9
List all TMSP sectors which apply to discharge from this outfall:	0	Sample Date:	02/05/2004
Low Concentration Waiver (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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Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.77	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

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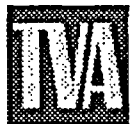
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Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534**



Data Report Number: 040214-91910

Report of Results: NPDES



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Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 9

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02409

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 11:56 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.77	mg/L	0.01	02/12/2004	13:52	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None

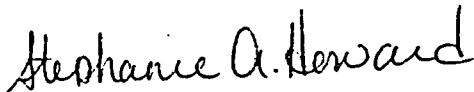
Storm Water Representative Discharge Certification

Storm Water Outfall # 4 is considered to be a representative discharge of Storm Water Outfall # 10 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall.

Storm Water Outfall # 10 consists of approximately 10 acres (435,602ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 4 based on the percentages of gravel, asphalt, and impervious surfaces. Material storage is also equivalent to that for Storm Water Outfall # 4. This consists of equipment for later use, metal buildings, concrete structures, wood and plastic similar to that equipment stored for in the area of Storm Water Outfall # 4.

This effluent should be substantially identical to that effluent from Storm Water Outfall # 4.

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Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant

March 16, 2005  
Date



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 11
List all TMSP sectors which apply to discharge from this outfall:	0	Sample Date:	02/05/2004
Low Concentration Waiver (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	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.17	Total Suspended Solids (TSS)	200	N/A
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Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

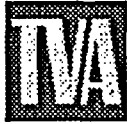
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Nashville, TN 37243-1534

Data Report Number: 040214-91910

Report of Results: NPDES



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CENTRAL LABORATORIES SERVICES

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Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

# NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 11

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02410

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 8:23 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.17	mg/L	0.01	02/12/2004	13:57	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None

Storm Water Alternative Certification

Material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, significant materials from past industrial activity that are located in areas of the facility within the drainage area of the Storm Water Outfall Numbers 12, 13, 14, and 20 are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period.

*I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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.*

*Stephanie A. Howard*

Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant

March 16, 2005  
Date



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 15
List all TMSP sectors which apply to discharge from this outfall:	0	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.79	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

**Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534**



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator  
SB 2A-SQN

Phone Not Available  
Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 15

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02411

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 11:10 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>1</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.79	mg/L	0.01	02/12/2004	14:02	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)  
**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 16
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.75	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

### Instructions

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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.

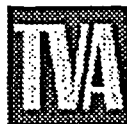
Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records.  
Submit the original of the completed and signed form to:

**Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534**



Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 16

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02412

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 11:30 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.75	mg/L	0.01	02/12/2004	14:08	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 17
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.62	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534

Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 17

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02413

LRFID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 11:40 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.62	mg/L	0.01	02/12/2004	14:25	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA -- Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 18
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	1.3	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

**Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534**



**TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES**  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 18

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02414

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 12:07 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	1.3	mg/L	0.01	02/12/2004	14:30	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 23
List all TMSP sectors which apply to discharge from this outfall:	0	Sample Date:	02/05/2004
Low Concentration Waiver (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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Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.81	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534

Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES

1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 23

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02415

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 12:23 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analys s	Analyst	Method Reference
Iron, Total	7439-89-6	0.81	mg/L	0.01	02/12/2004	14:35	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 19
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.62	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off 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 of the completed and signed form to:

Enforcement and Compliance Section  
Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534



Data Report Number: 040214-91910

Report of Results: NPDES



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 19

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02416

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 12:28 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis s	Analyst	Method Reference
Iron, Total	7439-89-6	0.62	mg/L	0.01	02/12/2004	14:41	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA -- Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 21
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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:			

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 which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	1.3	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

- The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J & H, for more details see the TMSP at [www.tdec.net/permits/tmsp.htm](http://www.tdec.net/permits/tmsp.htm)). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
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Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534



**TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES**  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 2021 AH

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

3/29/04

Sample ID: AE02417

LRFID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 12:15 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analys s	Method Reference
Iron, Total	7439-89-6	1.3	mg/L	0.01	02/12/2004	14:46	LMJ EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA

Sample Comments: None



Department of Environment and Conservation - Division of Water Pollution Control  
Tennessee Multi-Sector General Permit (TMSP)

**ANNUAL STORM WATER MONITORING REPORT**

Facility Name:	TVA – Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Stephanie A. Howard	Phone Number:	423 843-6700
This report is submitted for the following calendar year (e.g. 2002):	2004	Outfall Number:	SW # 22
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/05/2004
Low Concentration Waiver (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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Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.0636	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.16854	N/A	Nickel, Total	2.679	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	0.68	N/A
Cadmium, Total	0.0159	N/A	Oil and Grease	15	N/A
COD	120	N/A	pH	5.0-9.0	N/A
Copper, Total	0.0636	N/A	Phosphorus, Total (as P)	2.0	N/A
Cyanide, Total	0.064	N/A	Selenium, Total	0.2385	N/A
Fluoride	1.8	N/A	Silver, Total	0.032	N/A
Iron, Total	5.0	0.80	Total Suspended Solids (TSS)	200	N/A
Lead, Total	0.156	N/A	Zinc, Total	0.395	N/A

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Stephanie A. Howard, Principal Environmental Engineer - Signatory Authority for J. Randy Douet Site Vice President Sequoyah Nuclear Plant	<i>Stephanie A. Howard</i>	March 16, 2005
Printed Name and Title of Authorized Agent	Signature of Authorized Agent	Date

**Instructions**

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Division of Water Pollution Control  
6<sup>th</sup> Floor L&C Annex, 401 Church Street  
Nashville, TN 37243-1534**



TENNESSEE VALLEY AUTHORITY  
CENTRAL LABORATORIES SERVICES  
1101 Market Street, PSC 1B-C  
Chattanooga, Tennessee 37402-2801  
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:  
Chickamauga Power Service Center  
North Side Chickamauga Reservation  
Chattanooga, Tennessee 37415

## NPDES Final Data Report

Customer Address: Program Administrator

SB 2A-SQN

Phone Not Available

Fax : Not Available

E-Mail: SQN Environmental

Location Code: SQN

Field ID: SW# 22 AH

3/29/04

Sample Description: IRON

Permit Number:

Discharge Number:

Method of Transport:

Cont. Flow (MGD):

Sample ID: AE02418

LRF ID: 04020104

Matrix: Water

Date Collected: 02/05/2004

Time Collected: 12:20 EST

Date Received: 02/09/2004

Time Received: 11:14

Project Manager: Lisa D. Ortiz

Plant: SQN

Project Account Code: 000WQNY

Regulation: NPDES

pH (Field):

Analyte	CAS Number	Result	Units	MDL <sup>2</sup>	Analysis Date	Analysis	Analyst	Method Reference
Iron, Total	7439-89-6	0.80	mg/L	0.01	02/12/2004	14:51	LMJ	EPA 200.7
Metals Digestion for ICP		Complete			02/11/2004	15:40	MAA	

Sample Comments: None

Data Report Number: 050323-114101  
Report of Results: NPDES

Central Laboratories Services data report number 050323-114101 was electronically approved using Labworks

Enterprise Version 5.7, Build 255 on 02/13/2004 at 5:00:00 PM by Lisa D. Ortiz

Vanessa L. Ramey, Lab Director  
Lisa D. Ortiz, Department Manager  
Randall L. Howell, Product Manager  
Ricardo I. Gilbert, Product Manager, Interim

This report contains sample results for the following samples, Login Reference File number: 04020104

AE02403  
AE02404  
AE02405  
AE02406  
AE02407  
AE02408  
AE02409  
AE02410  
AE02411  
AE02412  
AE02413  
AE02414  
AE02415  
AE02416  
AE02417  
AE02418