



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, Water Withdrawal Report CY 2018**

Attached is the Water Withdrawal Report CY 2018, Sequoyah Nuclear Plant.

Respectfully,

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

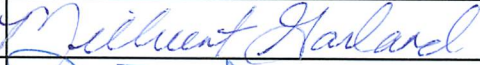


Millicent Garland
Environmental Scientist

REVIEW/CONCURRENCE SHEET

DOCUMENT NAME: Water Withdrawal Report – CY 2018
ORGANIZATION: Environmental

DOCUMENT PREPARED BY: Millicent Garland

DATE: February 1, 2019

CONCURRENCES				
Name	R V	C N	Signature - Comment	Date
Millicent Garland	X			2-4-19
Denice Funderburk	X			2/4/19
Dan Charlton		X		2/6/19

INSTRUCTIONS: Originator will determine the review/concurrence assignment.

REVIEW: Examine technical content and commitments made. A review (RV) should confirm the truth and accuracy of factual statements and indicate agreement with commitments made which are applicable to the reviewer's organization.

CONCURRENCE: Indication of agreement with the document as a whole. Concurrence (CN) signifies that the document is responsive to the intended purpose, logical in construction, and clear in meaning in the eyes of the recipient. A concurrence signature indicates that the individual would be willing to sign the document for the agency.



State of Tennessee
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

WATER WITHDRAWAL REGISTRATION

In accordance with the provisions of Tennessee Code Annotated Section 69-7-301 et seq., the Water Resources Information Act, this registration is required for anyone withdrawing an average of 10,000 gallons or more of water per day.
See attached instructions.

PART A. FACILITY & CONTACT INFORMATION

1. Water Withdrawal Registration No.: 628
2. Water User: TVA - Sequoyah Nuclear Plant Type: Thermal Plant (Nuclear)
Mailing Address: P.O. Box 2000, OPS 5N-SQN
City: Soddy Daisy State: TN Zip: 37384 County: Hamilton
3. Location (if different from mailing address):
Street Address: Sequoyah Access Road
City: Soddy - Daisy State: TN Zip: 37379 County: Hamilton
4. Number of employees at location: 1069
5. Indicate the contact individual for water withdrawal information:
Name: Millicent Garland Title: Environmental Scientist
email: mrmoores@tva.gov Phone: 423-843-6714 Fax: 423-843-7428

PART B. WATER USE REPORTING PERIOD

6. Year: 2018
7. (Check One): New Operation Renewal
8. List any water problems you have experienced in the last reporting period: N/A
9. Classifications of Water Use (Enter Percentage of Total use—Total must equal 100%):
- | | |
|---------------|---|
| <u> </u> % | a) Domestic water use (drinking, human consumption and general sanitation uses) |
| <u> </u> % | b) Institutional or other general uses (lawn watering, laundry) |
| <u> </u> % | c) Irrigation of crops, pastures and nursery stock |
| <u> </u> % | d) livestock watering (includes feed lots, dairy sanitation and fish farming) |
| <u> </u> % | e) navigation (lock usage and flow augmentation for navigation) |
| <u>100</u> % | f) thermoelectric power production, including cooling purposes (excludes hydroelectric) |
| <u> </u> % | g) recreational use, park use, golf course irrigation, water park use |
| <u> </u> % | h) industrial uses include manufacturing, food processing, washing, and cooling |
| <u> </u> % | i) hydroelectric power generation (provided none of it is used consumptively) |
| <u> </u> % | j) mining (milling or where water is used to wash or process an ore) |
| <u> </u> % | k) dewatering (mining, quarry rock production, other operations where water is withdrawn) |
| <u> </u> % | l) any other use not defined above. Describe: _____ |
| <u>100</u> % | Total (Must equal 100%) |

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Source Point ID Number: N/A
Source Point Name: N/A
Source Type: (G, S, or P): N/A
County: N/A
River Mile: N/A
Latitude: N/A
Longitude: N/A
Datum (NAD 27 or NAD 83): N/A
Map: X NA On File Attached
Method of Measure (A, B, C, D, or E): N/A

JAN Total Withdrawals: N/A MG
FEB Total Withdrawals: N/A MG
MAR Total Withdrawals: N/A MG
APR Total Withdrawals: N/A MG
MAY Total Withdrawals: N/A MG
JUNE Total Withdrawals: N/A MG
JULY Total Withdrawals: N/A MG
AUG Total Withdrawals: N/A MG
SEPT Total Withdrawals: N/A MG
OCT Total Withdrawals: N/A MG
NOV Total Withdrawals: N/A MG
DEC Total Withdrawals: N/A MG

10. Total Annual Withdrawals: N/A MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part D. Water Discharge (if applicable)

Discharge Point ID Number: 101
Discharge Point Name: TN River (Diffuser Pond)
NPDES Permit No.: TN0026450
County: Hamilton
River Mile: 483.65
Latitude: 35 - 12 - 35
Longitude: 85 - 05 - 14
Datum: NAD 27 or 83: NAD 27
Map on file or attached: On File
Method of Measure (A, B, C, D, or E): E

JAN Total Discharge: 27280 MG
FEB Total Discharge: 41285 MG
MAR Total Discharge: 46650 MG
APR Total Discharge: 38471 MG
MAY Total Discharge: 56144 MG
JUNE Total Discharge: 54121 MG
JULY Total Discharge: 53799 MG
AUG Total Discharge: 53962 MG
SEPT Total Discharge: 52118 MG
OCT Total Discharge: 55247 MG
NOV Total Discharge: 32843 MG
DEC Total Discharge: 52799 MG

17. Total Annual Discharges: 564721 MG

18. Grand Total Discharges: 564728 MG

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-7-19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: [Signature]

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

Source Point ID Number: N/A
Source Point Name: TN River (ERCW)
Source Type: (G, S, or P): S
County: Hamilton
River Mile: 484.85
Latitude: 35 - 13 - 32
Longitude: 85 - 05 - 13
Datum (NAD 27 or NAD 83): NAD 27
Map: NA On File Attached
Method of Measure (A, B, C, D, or E): B

Discharge Point ID Number: 117
Discharge Point Name: TN River (ERCW)
NPDES Permit No.: TN0026450
County: Hamilton
River Mile: 484.85
Latitude: 35 - 13 - 32
Longitude: 85 - 05 - 13
Datum: NAD 27 or 83: NAD 27
Map on file or attached: On File
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals: 1079 MG
FEB Total Withdrawals: 1025 MG
MAR Total Withdrawals: 1080 MG
APR Total Withdrawals: 1035 MG
MAY Total Withdrawals: 1120 MG
JUNE Total Withdrawals: 1161 MG
JULY Total Withdrawals: 1203 MG
AUG Total Withdrawals: 1183 MG
SEPT Total Withdrawals: 1136 MG
OCT Total Withdrawals: 1143 MG
NOV Total Withdrawals: 993 MG
DEC Total Withdrawals: 1042 MG

JAN Total Discharge: 0.4258 MG
FEB Total Discharge: 0.4258 MG
MAR Total Discharge: 0.4258 MG
APR Total Discharge: 0.4258 MG
MAY Total Discharge: 0.4258 MG
JUNE Total Discharge: 0.4258 MG
JULY Total Discharge: 0.4258 MG
AUG Total Discharge: 0.4258 MG
SEPT Total Discharge: 0.4258 MG
OCT Total Discharge: 0.4258 MG
NOV Total Discharge: 0.4258 MG
DEC Total Discharge: 0.4258 MG

10. Total Annual Withdrawals: 13199 MG

17. Total Annual Discharges: 5.11 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

18. Grand Total Discharges: 564728 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. § 1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2.7.19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: 

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Source Point ID Number: N/A
Source Point Name: TN River (CCW)
Source Type: (G, S, or P): S
County: Hamilton
River Mile: 485.2
Latitude: 35 - 13 - 33
Longitude: 85 - 05 - 13
Datum (NAD 27 or NAD 83): NAD 27
Map: NA X On File Attached
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals: 49548 MG
FEB Total Withdrawals: 38507 MG
MAR Total Withdrawals: 42277 MG
APR Total Withdrawals: 30698 MG
MAY Total Withdrawals: 49817 MG
JUNE Total Withdrawals: 48470 MG
JULY Total Withdrawals: 50086 MG
AUG Total Withdrawals: 50086 MG
SEPT Total Withdrawals: 48470 MG
OCT Total Withdrawals: 50086 MG
NOV Total Withdrawals: 36891 MG
DEC Total Withdrawals: 41738 MG

10. Total Annual Withdrawals: 549874 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part D. Water Discharge (if applicable)

Discharge Point ID Number: 116
Discharge Point Name: TN River (CCW)
NPDES Permit No.: TN0026450
County: Hamilton
River Mile: 485.2
Latitude: 35 - 13 - 33
Longitude: 85 - 05 - 13
Datum: NAD 27 or 83: NAD 27
Map on file or attached: On File
Method of Measure (A, B, C, D, or E): B

JAN Total Discharge: 0.1825 MG
FEB Total Discharge: 0.1825 MG
MAR Total Discharge: 0.1825 MG
APR Total Discharge: 0.1825 MG
MAY Total Discharge: 0.1825 MG
JUNE Total Discharge: 0.1825 MG
JULY Total Discharge: 0.1825 MG
AUG Total Discharge: 0.1825 MG
SEPT Total Discharge: 0.1825 MG
OCT Total Discharge: 0.1825 MG
NOV Total Discharge: 0.1852 MG
DEC Total Discharge: 0.1825 MG

17. Total Annual Discharges: 2.19 MG

18. Grand Total Discharges: 564728 MG

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-7-19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: [Signature]

Jung, Sandra K

From: mshd.resource@nrc.gov
Sent: Friday, February 08, 2019 9:19 AM
To: Jung, Sandra K
Subject: General Form Submission (26383) Received

TVA External Message. Please use caution when opening.

The NRC received your General Form submission on: 02/08/2019 at 09.18 AM. It is being tracked as submission ID# 26383.

If it is a 'Publicly Available' submission after 6 work days from today the submission's attached document(s) will be available for viewing and download from the Agency's Public Web Based ADAMS website (<http://adams.nrc.gov/wba>) by searching for the following document accession number(s): [ML19039A047]. If this is a 'Non-Public Available' submission the submission's attachment(s) will be retained in NRC's document management system (ADAMS) and will not be published to the public website.

Should you have questions about this submission please contact our Help Desk by phone at 866-672-7640 or by e-mail at mshd.resource@nrc.gov. When doing so, please refer to the Submission ID# shown above.

Note: The Help Desk is staffed daily from 9:00AM to 7:00PM Eastern Time Monday through Friday (except for Federal holidays)



State of Tennessee
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

WATER WITHDRAWAL REGISTRATION

In accordance with the provisions of Tennessee Code Annotated Section 69-7-301 et seq., the Water Resources Information Act, this registration is required for anyone withdrawing an average of 10,000 gallons or more of water per day.
See attached instructions.

PART A. FACILITY & CONTACT INFORMATION

1. Water Withdrawal Registration No.: 628
2. Water User: TVA - Sequoyah Nuclear Plant Type: Thermal Plant (Nuclear)
Mailing Address: P.O. Box 2000, OPS 5N-SQN
City: Soddy Daisy State: TN Zip: 37384 County: Hamilton
3. Location (if different from mailing address): _____
Street Address: Sequoyah Access Road
City: Soddy - Daisy State: TN Zip: 37379 County: Hamilton
4. Number of employees at location: 1069
5. Indicate the contact individual for water withdrawal information:
Name: Millicent Garland Title: Environmental Scientist
email: mrmoore@tva.gov Phone: 423-843-6714 Fax: 423-843-7428

PART B. WATER USE REPORTING PERIOD

6. Year: 2018
7. (Check One): New Operation Renewal
8. List any water problems you have experienced in the last reporting period: N/A
9. Classifications of Water Use (Enter Percentage of Total use—Total must equal 100%):
- | | |
|--------------|---|
| _____ % | a) Domestic water use (drinking, human consumption and general sanitation uses) |
| _____ % | b) Institutional or other general uses (lawn watering, laundry) |
| _____ % | c) Irrigation of crops, pastures and nursery stock |
| _____ % | d) livestock watering (includes feed lots, dairy sanitation and fish farming) |
| _____ % | e) navigation (lock usage and flow augmentation for navigation) |
| <u>100</u> % | f) thermoelectric power production, including cooling purposes (excludes hydroelectric) |
| _____ % | g) recreational use, park use, golf course irrigation, water park use |
| _____ % | h) industrial uses include manufacturing, food processing, washing, and cooling |
| _____ % | i) hydroelectric power generation (provided none of it is used consumptively) |
| _____ % | j) mining (milling or where water is used to wash or process an ore) |
| _____ % | k) dewatering (mining, quarry rock production, other operations where water is withdrawn) |
| _____ % | l) any other use not defined above. Describe: _____ |
| <u>100</u> % | Total (Must equal 100%) |

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

Source Point ID Number: N/A

Discharge Point ID Number: 101

Source Point Name: N/A

Discharge Point Name: TN River (Diffuser Pond)

Source Type: (G, S, or P): N/A

NPDES Permit No.: TN0026450

County: N/A

County: Hamilton

River Mile: N/A

River Mile: 483.65

Latitude: N/A

Latitude: 35 - 12 - 35

Longitude: N/A

Longitude: 85 - 05 - 14

Datum (NAD 27 or NAD 83): N/A

Datum: NAD 27 or 83: NAD 27

Map: X NA On File Attached

Map on file or attached: On File

Method of Measure (A, B, C, D, or E): N/A

Method of Measure (A, B, C, D, or E): E

JAN Total Withdrawals: N/A MG

JAN Total Discharge: 27280 MG

FEB Total Withdrawals: N/A MG

FEB Total Discharge: 41285 MG

MAR Total Withdrawals: N/A MG

MAR Total Discharge: 46650 MG

APR Total Withdrawals: N/A MG

APR Total Discharge: 38471 MG

MAY Total Withdrawals: N/A MG

MAY Total Discharge: 56144 MG

JUNE Total Withdrawals: N/A MG

JUNE Total Discharge: 54121 MG

JULY Total Withdrawals: N/A MG

JULY Total Discharge: 53799 MG

AUG Total Withdrawals: N/A MG

AUG Total Discharge: 53962 MG

SEPT Total Withdrawals: N/A MG

SEPT Total Discharge: 52118 MG

OCT Total Withdrawals: N/A MG

OCT Total Discharge: 55247 MG

NOV Total Withdrawals: N/A MG

NOV Total Discharge: 32843 MG

DEC Total Withdrawals: N/A MG

DEC Total Discharge: 52799 MG

10. Total Annual Withdrawals: N/A MG

17. Total Annual Discharges: 564721 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

18. Grand Total Discharges: 564728 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-7-19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: [Signature]

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant
Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

Source Point ID Number: N/A
Source Point Name: TN River (ERCW)
Source Type: (G, S, or P): S
County: Hamilton
River Mile: 484.85
Latitude: 35 - 13 - 32
Longitude: 85 - 05 - 13
Datum (NAD 27 or NAD 83): NAD 27
Map: NA X On File Attached
Method of Measure (A, B, C, D, or E): B

Discharge Point ID Number: 117
Discharge Point Name: TN River (ERCW)
NPDES Permit No.: TN0026450
County: Hamilton
River Mile: 484.85
Latitude: 35 - 13 - 32
Longitude: 85 - 05 - 13
Datum: NAD 27 or 83: NAD 27
Map on file or attached: On File
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals: 1079 MG
FEB Total Withdrawals: 1025 MG
MAR Total Withdrawals: 1080 MG
APR Total Withdrawals: 1035 MG
MAY Total Withdrawals: 1120 MG
JUNE Total Withdrawals: 1161 MG
JULY Total Withdrawals: 1203 MG
AUG Total Withdrawals: 1183 MG
SEPT Total Withdrawals: 1136 MG
OCT Total Withdrawals: 1143 MG
NOV Total Withdrawals: 993 MG
DEC Total Withdrawals: 1042 MG

JAN Total Discharge: 0.4258 MG
FEB Total Discharge: 0.4258 MG
MAR Total Discharge: 0.4258 MG
APR Total Discharge: 0.4258 MG
MAY Total Discharge: 0.4258 MG
JUNE Total Discharge: 0.4258 MG
JULY Total Discharge: 0.4258 MG
AUG Total Discharge: 0.4258 MG
SEPT Total Discharge: 0.4258 MG
OCT Total Discharge: 0.4258 MG
NOV Total Discharge: 0.4258 MG
DEC Total Discharge: 0.4258 MG

10. Total Annual Withdrawals: 13199 MG

17. Total Annual Discharges: 5.11 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

18. Grand Total Discharges: 564728 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2.7.19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: 

WATER WITHDRAWAL INFORMATION

Year: 2018 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant
Copy this page and submit a completed page for each withdrawal site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

Source Point ID Number: N/A
Source Point Name: TN River (CCW)
Source Type: (G, S, or P): S
County: Hamilton
River Mile: 485.2
Latitude: 35 - 13 - 33
Longitude: 85 - 05 - 13
Datum (NAD 27 or NAD 83): NAD 27
Map: NA On File Attached
Method of Measure (A, B, C, D, or E): B

Discharge Point ID Number: 116
Discharge Point Name: TN River (CCW)
NPDES Permit No.: TN0026450
County: Hamilton
River Mile: 485.2
Latitude: 35 - 13 - 33
Longitude: 85 - 05 - 13
Datum: NAD 27 or 83: NAD 27
Map on file or attached: On File
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals: 49548 MG
FEB Total Withdrawals: 38507 MG
MAR Total Withdrawals: 42277 MG
APR Total Withdrawals: 30698 MG
MAY Total Withdrawals: 49817 MG
JUNE Total Withdrawals: 48470 MG
JULY Total Withdrawals: 50086 MG
AUG Total Withdrawals: 50086 MG
SEPT Total Withdrawals: 48470 MG
OCT Total Withdrawals: 50086 MG
NOV Total Withdrawals: 36891 MG
DEC Total Withdrawals: 41738 MG

JAN Total Discharge: 0.1825 MG
FEB Total Discharge: 0.1825 MG
MAR Total Discharge: 0.1825 MG
APR Total Discharge: 0.1825 MG
MAY Total Discharge: 0.1825 MG
JUNE Total Discharge: 0.1825 MG
JULY Total Discharge: 0.1825 MG
AUG Total Discharge: 0.1825 MG
SEPT Total Discharge: 0.1825 MG
OCT Total Discharge: 0.1825 MG
NOV Total Discharge: 0.1852 MG
DEC Total Discharge: 0.1825 MG

10. Total Annual Withdrawals: 549874 MG

17. Total Annual Discharges: 2.19 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 549874 MG

18. Grand Total Discharges: 564728 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1507 MGD

15. Maximum Day Water Withdrawal: 1654 MG

16. Maximum Day Water Withdrawal occurred in this month: July

Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-7-19

19. Print Name: Matthew Rasmussen

Title: Site Vice President

20. Signature: [Signature]