

From: [Figures, Sharon Mclin](#)
To: [Water Permits](#)
Cc: [Shaffer, Gregory P](#); [Pearman, Paul Jonathan](#)
Subject: [EXTERNAL] 2023 Pesticide General Permit Annual Reports
Date: Tuesday, February 13, 2024 10:55:12 AM
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***** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. *****

Please find attached your copy of the subject.

Thanks

Sharon Figures
Business Support Representative
Regulatory Environmental Programs



W. 423-751-7235 M. 706-639-7223 E. sdmclin@tva.gov
1101 Market Street, Chattanooga, TN 37402



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1101 Market Street, BR 2C, Chattanooga, Tennessee 37402

Sent Via Electronic Transmittal

February 13, 2024

Tennessee Department of Environment
and Conservation
Division of Water Resources (water.permits@tn.gov)
Attn: Water-Based Systems Unit – Pesticide General Permit
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Dear Madam or Sir:

TENNESSEE VALLEY AUTHORITY (TVA) - ANNUAL REPORTS FOR GENERAL NPDES
PERMIT NUMBERS TNP100003, TNP1000009, TNP100005, AND TNP100013 -
DISCHARGES FROM THE APPLICATION OF PESTICIDES

Enclosed are completed annual reports for herbicide treatments in water or water's edge at TVA sites, transmission lines, dams and reservoirs in calendar year 2023. These reports include:

1. Aquatic vegetation management in TVA reservoirs (TNP100003),
2. Herbicide applications in areas adjacent to TVA dams and reservoirs to reduce or eliminate invasive plant species, enhance waterfowl and/or other wildlife habitat, and to maintain the integrity of rip-rap and other man-made structures (TNP100009),
3. Herbicide applications along transmission lines performed by TVA Right-of-Way and/or its contractors (TNP100005), and
4. Herbicide treatments performed by TVA Power Operations coal and gas generation sites (TNP100013).

If you have questions or need additional information, please call Greg Shaffer at (865) 632-6365 or by email at gshaffer@tva.gov.

Sincerely,

A handwritten signature in cursive script that reads "Paul Pearman".

Paul Pearman
Senior Manager
Water Permits, Compliance, and Monitoring

Enclosures

Tennessee Department of Environment and Conservation
Division of Water Pollution Control

6th Floor Annex, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

Annual Reporting Form for the Pesticide General Permit (PGP)

This form is for any Operator that is a Decision-maker required to submit an NOI. The annual report must be submitted no later than February 15 of the following year for all pesticide activities covered under the permit occurring during the previous calendar year as detailed in Part 7 of the permit.

A. General Information

1. NPDES Permit Tracking Number: TNP100009

2. Operator Name: Tennessee Valley Authority - Land and River Management

3. Operator Contact Information:

a. Street: 1101 Market Street, BR 4A

b. City: Chattanooga

 $|T|N$

d. ZIP: 37402

e. Telephone: 423-751-2201

4. Contact Information:

a. Contact Name: Ryan A. Blount

b. Title: Senior Manager - Power Ops and Transmission

c. E-mail: rablount@tva.gov

B. Adverse Incidents and Corrective Actions

1. Was an adverse incident observed and/or corrective actions taken for any Pest Management Area for which you have coverage under the permit?

a. ☒ No adverse incidents were observed or corrective action was taken. (Proceed to Section C)

b. ☐ Yes, an adverse incident was observed and/or a corrective action was taken. (Complete questions 2-6 for each Pest Management Area in which adverse incidents were observed or corrective actions were taken. Copy this section for non-electronic submissions).

Pest Management Area # _____ of ## _____

2. Pest Management Area Name: _____

3. If applicable, provide the date for any adverse incidents as a result of those treatment(s), as described in Part 6.4 of the permit (use additional pages, if needed):

Date of adverse incident observation:

The image shows three identical place value charts. Each chart has two columns: a left column labeled 'Tens' and a right column labeled 'Ones'. The first two charts are empty. The third chart has some faint, illegible markings in the 'Ones' column.

4. Date and time the Operator contacted the division to notify the Agency of the adverse incident, who the Operator spoke with at the division, and any instructions received from the division.

a. Date:

c. Who the Operator spoke with at the division: _____

b. Time: _____

d. Instructions received from the division:

5. Date of submission of Thirty (30)-Day Adverse Incident Written Report:

Age Group	Total (%)	Male (%)	Female (%)	Unknown (%)
18-24	15	10	10	5
25-34	25	15	15	5
35-44	35	20	20	5
45-54	45	25	25	5
55-64	55	30	30	5
65-74	65	35	35	5
75+	75	40	40	5

6. Describe any corrective action(s), including spill responses, resulting from pesticide application activities and the rationale for such action(s), subsequent to those steps described in the Thirty (30)-Day Adverse Incident Written Report:

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA dams

b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Rodeo®

EPA Reg. No. 62719-324

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer)

42.0 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer

_____ lbs or gallons

e. ☐ Direct mixture (includes metering,
subsurface applications)

_____ lbs or gallons

f. ☐ Chemigation

_____ lbs or gallons

g. ☐ Other (specify):

_____ lbs or gallons

Product Name Garlon 3A®

EPA Reg. No. 62719-37

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

Application method:

a. ☐ Aerially by fixed-wing

_____ lbs or gallons

b. ☐ Aerially by rotary aircraft

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer)

47.9 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer

_____ lbs or gallons

e. ☐ Direct mixture (includes metering, subsurface
applications)

_____ lbs or gallons

_____ lbs or gallons

_____ lbs or gallons

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

- a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA dams

- b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

- c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

- d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Habitat

EPA Reg. No. 241-426-67690

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 5.7 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering,
subsurface applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

Product Name Glyphosate

EPA Reg. No. 81927-8

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 23.5 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering, subsurface
applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA Dams

b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Triclopyr
EPA Reg. No. 81927-11

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 0.4 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering,
subsurface applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

Product Name Element 3A
EPA Reg. No. 62719-37

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 1.0 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering, subsurface
applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA Dams

b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Pendulum 3.3

EPA Reg. No. 241-341

Quantity Applied (lbs or
gallons
of product):

Application method:

- a. ☐ Aerially by fixed-wing _____ lbs or gallons
- b. ☐ Aerially by rotary aircraft _____ lbs or gallons
- c. ☒ Land-based sprayer (includes backpack, land vehicle mounted sprayers, high pressure canopy sprayer) 2.5 lbs or gallons
- d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons
- e. ☐ Direct mixture (includes metering, subsurface applications) _____ lbs or gallons
- f. ☐ Chemigation _____ lbs or gallons
- g. ☐ Other (specify): _____ lbs or gallons

Product Name Arsenal

EPA Reg. No. 241-299

Quantity Applied (lbs or
gallons
of product):

Application method:

- a. ☐ Aerially by fixed-wing _____ lbs or gallons
- b. ☐ Aerially by rotary aircraft _____ lbs or gallons
- c. ☒ Land-based sprayer (includes backpack, land vehicle mounted sprayers, high pressure canopy sprayer) 7.0 lbs or gallons
- d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons
- e. ☐ Direct mixture (includes metering, subsurface applications) _____ lbs or gallons
- f. ☐ Chemigation _____ lbs or gallons
- g. ☐ Other (specify): _____ lbs or gallons

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA Dams

b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Arsenal 5G

EPA Reg. No. 34913-24

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 10.0 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering,
subsurface applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

Product Name Milestone

EPA Reg. No. 62719-519

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer) 0.7 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer _____ lbs or gallons

e. ☐ Direct mixture (includes metering, subsurface
applications) _____ lbs or gallons

f. ☐ Chemigation _____ lbs or gallons

g. ☐ Other (specify): _____ lbs or gallons

C. Pest Management Area(s) (use additional pages for each Pest Management Area)

Pest Management Area# 1 of ## 1

1. Have any discharges from pest control activities occurred in this calendar year?

- a. ☐ No discharge from pest control activities this calendar year. Note: Checking this box completes Section C if you had no discharge from pest control activities this year. Proceed to section D.
- b. ☒ Yes. Proceed to question 2.

2. Indicate the pesticide use pattern for the Pest Management Area:

- a. ☐ Mosquito and Other Flying Insect Pest Control b. ☒ Weed and Algae Pest Control
- c. ☐ Animal Pest Control d. ☐ Forest Canopy Pest Control

3. For each treatment area (use additional pages for each treatment area):

a. Provide a description of the treatment area within this Pest Management Area, including location description:

Vegetation control on and in the vicinity of TVA Dams

b. Size of treatment area (in acres or linear feet): 161.2 acres or _____ linear feet.

c. Name or location of any waters of the state to which discharges occurred:

Tennessee River and tributaries in the vicinity of TVA dams

d. Target Pest(s): Nuisance vegetation

4. Name and contact information for pesticide applicator(s) (or check here if same as provided in Section A): ☒

Company Name: _____

Street: _____

City: _____

State:

ZIP Code: _____

Contact _____

Phone _____

E-mail: _____

5. Was this pest control activity addressed in your Pesticide Discharge Monitoring Plan (PDMP) before pesticide application: ☒ Yes ☐ No ☐ Not Applicable

6. Enter the total amount of each pesticide product applied for the reporting year by the product name, EPA Registration Number(s) and by application method.

Circle if quantity indicated is in lbs or gallons: Add additional pages if necessary.

Product Name Oust

EPA Reg. No. 432-1552

Quantity Applied (lbs or
gallons
of product):

_____ lbs or gallons

_____ lbs or gallons

0.15 lbs or gallons

_____ lbs or gallons

_____ lbs or gallons

_____ lbs or gallons

_____ lbs or gallons

Product Name _____

Quantity Applied (lbs or
gallons
of product):

Application method:

a. ☐ Aerially by fixed-wing

_____ lbs or gallons

b. ☐ Aerially by rotary aircraft

_____ lbs or gallons

c. ☐ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer)

_____ lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer

_____ lbs or gallons

e. ☐ Direct mixture (includes metering, subsurface
applications)

_____ lbs or gallons

Application method:

a. ☐ Aerially by fixed-wing

_____ lbs or gallons

b. ☐ Aerially by rotary aircraft

_____ lbs or gallons

c. ☒ Land-based sprayer (includes backpack,
land vehicle mounted sprayers, high
pressure canopy sprayer)

0.15 lbs or gallons

d. ☐ Aquatic vehicle mounted sprayer

_____ lbs or gallons

e. ☐ Direct mixture (includes metering,
subsurface applications)

_____ lbs or gallons

f. ☐ Chemigation

_____ lbs or gallons

g. ☐ Other (specify):

_____ lbs or gallons

D. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. On the basis of 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. A false statement is subject to the penalties of perjury.

Printed Name: Tom Barnett

Title: Vice President, River and Resources Stewardship

E-Mail: twbarnett0@tva.gov

Signature/Responsible
Official:



Date: 01 31 2024

Annual Report Preparer (Complete if the Annual Report was prepared by someone other than the certifier)

Preparer
Name: Greg Shaffer

Organization: TVA Water Permits, Compliance, and Monitoring

Phone: 865 617 7432 N/A

Date: 02 01 2024

E-Mail: gshaffer@tva.gov