



The Town of Collierville, TN

Department of Public Services

Stan Joyner, *Mayor*

Molly Mehner, *Town Administrator*

May 15, 2023

TDEC-Division of Water Resources
Permit Section
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

Re: Permit # TN0057461 renewal application

To Whom It May Concern,

Attached is the NPDES renewal application for the Collierville STP, Permit # TN0057461. The current permit expires on December 30, 2023. If there are any problems or deficiencies with the application, please contact me at (901) 457-2800 or email jfox@colliervilletn.gov.

Sincerely,

John Fox
Manager of Public Utilities

cc: Donal Davis – Wastewater Manager
Eddy Bouzeid – TDEC Memphis Field Office





STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Water-Based Systems
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

PERMIT CONTACT INFORMATION

Please complete all sections. If one person serves multiple functions, please repeat this information in each section.

PERMIT NUMBER: TN0057461

DATE: May 15, 2023

PERMITTED FACILITY: Collierville Shelton Road STP

COUNTY: Shelby

OFFICIAL PERMIT CONTACT:

(The permit signatory authority, e.g. responsible corporate officer, principle executive officer or ranking elected official)

| | | | |
|--|---|---------------------|----------------------|
| Official Contact: John Fox | Title or Position: Director, Public Utilities | | |
| Mailing Address: 500 Poplar View Parkway | City: Collierville | State: TN | Zip: 38017 |
| Phone number(s): (901) 457-2800 | E-mail: jfox@collierville.tn.gov | | |

PERMIT BILLING ADDRESS (where invoices should be sent):

| | | | |
|--|---|---------------------|----------------------|
| Billing Contact: John Fox | Title or Position: Director, Public Utilities | | |
| Mailing Address: 500 Poplar View Parkway | City: Collierville | State: TN | Zip: 38017 |
| Phone number(s): (901) 457-2800 | E-mail: jfox@collierville.tn.gov | | |

FACILITY LOCATION (actual location of permit site and local contact for site activity):


| | | | |
|--|---|---------------------|----------------------|
| Facility Location Contact: John Fox | Title or Position: Director, Public Utilities | | |
| Facility Location (physical street address): 136 East Shelton Road | City: Collierville | State: TN | Zip: 38017 |
| Phone number(s): (901) 457-2800 | E-mail: jfox@collierville.tn.gov | | |

| | | | |
|---------------------------------|--------------------|--------|------|
| Alternate Contact (if desired): | Title or Position: | | |
| Mailing Address: | City: | State: | Zip: |
| Phone number(s): | E-mail: | | |

FACILITY REPORTING (Discharge Monitoring Report (DMR) or other reporting):

| | | | |
|--|--|---------------------|----------------------|
| Cognizant Official authorized for permit reporting: John Fox | Title or Position: Director, Public Utilities | | |
| Mailing Address: 500 Poplar View Parkway | City: Collierville | State: TN | Zip: 38017 |
| Phone number(s): (901) 457-2800 | E-mail: jfox@collierville.tn.gov | | |
| Fax number for reporting: (901) 457-2828 | Does the facility have interest in starting electronic DMR reporting? Yes No Currently reporting DMR electronically | | |

| | | | |
|--|----------------------------------|-----------------------------------|---|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Shelton Road STP | Form Approved 03/05/19 OMB No. 2040-0004 |
|--|----------------------------------|-----------------------------------|---|

| | | |
|--------------------|---|--|
| Form 1 NPDES |  | U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater GENERAL INFORMATION |
|--------------------|---|--|

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

| | | | |
|--------------------------------------|-------|---|---|
| Activities Requiring an NPDES Permit | 1.1 | Applicants Not Required to Submit Form 1 | |
| | 1.1.1 | Is the facility a new or existing publicly owned treatment works? If yes, STOP. Do NOT complete <input type="checkbox"/> No Form 1. Complete Form 2A. | 1.1.2 Is the facility a new or existing treatment works treating domestic sewage? If yes, STOP. Do NOT <input type="checkbox"/> No complete Form 1. Complete Form 2S. |
| | 1.2 | Applicants Required to Submit Form 1 | |
| | 1.2.1 | Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility? <input type="checkbox"/> Yes → Complete Form 1 <input checked="" type="checkbox"/> No and Form 2B. | 1.2.2 Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater? <input type="checkbox"/> Yes → Complete Form <input checked="" type="checkbox"/> No 1. and Form 2C. |
| | 1.2.3 | Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge? <input type="checkbox"/> Yes → Complete Form 1 <input checked="" type="checkbox"/> No and Form 2D. | 1.2.4 Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater? <input type="checkbox"/> Yes → Complete Form <input checked="" type="checkbox"/> No 1 and Form 2E. |
| | 1.2.5 | Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater? <input type="checkbox"/> Yes → Complete Form 1 <input checked="" type="checkbox"/> No and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). | |

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

| | | | | |
|-------------------------------------|---|--|-------------------------------------|--------------------------------|
| Name, Mailing Address, and Location | 2.1 | Facility Name | | |
| | | Collierville Shelton Road STP | | |
| | 2.2 | EPA Identification Number | | |
| | | TN0057461 | | |
| | 2.3 | Facility Contact | | |
| | | Name (first and last) John Fox | Title Director, Public Utilities | Phone number (901) 457-2800 |
| | | Email address jfox@colliervilletn.gov | | |
| | 2.4 | Facility Mailing Address | | |
| | Street or P.O. box 500 Poplar View Parkway | | | |
| | City or town Collierville | State TN | ZIP code 38017 | |

| | | | |
|--|----------------------------------|-----------------------------------|---|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Shelton Road STP | Form Approved 03/05/19 OMB No. 2040-0004 |
|--|----------------------------------|-----------------------------------|---|

| | | | | |
|---|-----|---|------------------------|-------------------|
| Name, Mailing Address, and Location Continued | 2.5 | Facility Location | | |
| | | Street, route number, or other specific identifier 136 East Shelton Road | | |
| | | County name Shelby | County code (if known) | |
| | | City or town Collierville | State TN | ZIP code 38017 |

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

| | | | |
|---------------------|-----|----------------------|---|
| SIC and NAICS Codes | 3.1 | SIC Code(s) | Description (optional) |
| | | 4952 | Collection and disposal of wastes conducted through a sewer system, including |
| | | | |
| | | | |
| | 3.2 | NAICS Code(s) | Description (optional) |
| | | 221320 | Sewage treatment plants or facilities |
| | | | |
| | | | |

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

| | | |
|----------------------|-----|--|
| Operator Information | 4.1 | Name of Operator John Fox |
| | 4.2 | Is the name you listed in Item 4.1 also the owner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| | 4.3 | Operator Status <input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input checked="" type="checkbox"/> Other public (specify) <u>municipal</u> <input type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____ |
| | 4.4 | Phone Number of Operator (901) 457-2800 |

| | | | | |
|--------------------------------|---|---------------------------------------|-------------|-------------------|
| Operator Information Continued | 4.5 | Operator Address | | |
| | | Street or P.O. Box 500 Keough Road | | |
| | | City or town Collierville | State TN | ZIP code 38017 |
| | Email address of operator jfox@collierville.tn.gov | | | |

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

| | | |
|-------------|-----|--|
| Indian Land | 5.1 | Is the facility located on Indian Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|-------------|-----|--|

| | | |
|--|----------------------------------|-----------------------------------|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Shelton Road STP |
|--|----------------------------------|-----------------------------------|

Form Approved 03/05/19
OMB No. 2040-0004

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

| | | | | |
|--------------------------------|--|---|--|--|
| Existing Environmental Permits | 6.1 | Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each) | | |
| | | <input checked="" type="checkbox"/> NPDES (discharges to surface water) TN0057461 | <input type="checkbox"/> RCRA (hazardous wastes) | <input type="checkbox"/> UIC (underground injection of fluids) |
| | | <input type="checkbox"/> PSD (air emissions) | <input type="checkbox"/> Nonattainment program (CAA) | <input type="checkbox"/> NESHAPs (CAA) |
| | <input type="checkbox"/> Ocean dumping (MPRSA) | <input type="checkbox"/> Dredge or fill (CWA Section 404) | <input checked="" type="checkbox"/> Other (specify) TN0078841 (NPDES) | |

SECTION 7. MAP (40 CFR 122.21(f)(7))

| | | |
|-----|-----|---|
| Map | 7.1 | Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.) |
|-----|-----|---|

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

| | | |
|--------------------|-----|--|
| Nature of Business | 8.1 | Describe the nature of your business. Municipality providing sewage and waste services to citizens of the Town of Collierville. |
|--------------------|-----|--|

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

| | | |
|---------------------------------|-----|---|
| Cooling Water Intake Structures | 9.1 | Does your facility use cooling water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 10.1. |
| | 9.2 | Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.) |

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))


| | | |
|-------------------|------|--|
| Variance Requests | 10.1 | Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.) <input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input checked="" type="checkbox"/> Not applicable |
|-------------------|------|--|

| | | |
|--|----------------------------------|-----------------------------------|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Shelton Road STP |
|--|----------------------------------|-----------------------------------|

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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

| | | | |
|--|--|--|--|
| Checklist and Certification Statement | 11.1 | In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments. | |
| | | Column 1 | Column 2 |
| | <input checked="" type="checkbox"/> | Section 1: Activities Requiring an NPDES Permit | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 2: Name, Mailing Address, and Location | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 3: SIC Codes | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 4: Operator Information | <input type="checkbox"/> w/ attachments |
| | <input type="checkbox"/> | Section 5: Indian Land | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 6: Existing Environmental Permits | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 7: Map | <input checked="" type="checkbox"/> w/ topographic map <input checked="" type="checkbox"/> w/ additional attachments |
| | <input checked="" type="checkbox"/> | Section 8: Nature of Business | <input type="checkbox"/> w/ attachments |
| | <input type="checkbox"/> | Section 9: Cooling Water Intake Structures | <input type="checkbox"/> w/ attachments |
| | <input type="checkbox"/> | Section 10: Variance Requests | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> | Section 11: Checklist and Certification Statement | <input type="checkbox"/> w/ attachments |
| 11.2 | Certification Statement | | |
| | <i>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 gather and evaluate 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.</i> | | |
| | Name (print or type first and last name) Molly Mehner | Official title Town Administrator | |
| | Signature <i>Molly Mehner</i> | Date signed 5/15/2023 | |

| | | | | | | | |
|--|--|--|--|--|--|---|---|
| EPA Identification Number TN0057461 | | NPDES Permit Number TN0057461 | | Facility Name Collierville Shelton Road STP | | Form Approved 03/05/19 OMB No. 2040-0004 | |
| Form 2A NPDES | |  | | U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS | | | |
| SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9)) | | | | | | | |
| Facility Information | 1.1 | | Facility name Collierville Shelton Road STP | | | | |
| | | | Mailing address (street or P.O. box) 500 Poplar View Parkway | | | | |
| | | | City or town Collierville | | State TN | | ZIP code 38017 |
| | | | Contact name (first and last) John Fox | Title Director, Public Utilities | Phone number (901) 457-2800 | | Email address jfox@collierville.tn.gov |
| | | | Location address (street, route number, or other specific identifier) <input type="checkbox"/> Same as mailing address 136 East Shelton Road | | | | |
| | | | City or town Collierville | | State TN | | ZIP code 38017 |
| | | 1.2 Is this application for a facility that has yet to commence discharge? <input type="checkbox"/> Yes → See instructions on data submission requirements for new dischargers. <input checked="" type="checkbox"/> No | | | | | |
| Applicant Information | 1.3 | | Is applicant different from entity listed under Item 1.1 above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.4. | | | | |
| | | | Applicant name | | | | |
| | | | Applicant address (street or P.O. box) | | | | |
| | | | City or town | | State | | ZIP code |
| | | | Contact name (first and last) | Title | Phone number | | Email address |
| | | 1.4 Is the applicant the facility's owner, operator, or both? (Check only one response.) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both | | | | | |
| | | 1.5 To which entity should the NPDES permitting authority send correspondence? (Check only one response.) <input type="checkbox"/> Facility <input type="checkbox"/> Applicant <input checked="" type="checkbox"/> Facility and applicant (they are one and the same) | | | | | |
| Existing Environmental Permits | 1.6 | | Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.) | | | | |
| | Existing Environmental Permits | | | | | | |
| | <input checked="" type="checkbox"/> NPDES (discharges to surface water) TN0057461 | | <input type="checkbox"/> RCRA (hazardous waste) | | <input type="checkbox"/> UIC (underground injection control) | | |
| | <input type="checkbox"/> PSD (air emissions) | | <input type="checkbox"/> Nonattainment program (CAA) | | <input type="checkbox"/> NESHAPs (CAA) | | |
| <input type="checkbox"/> Ocean dumping (MPRSA) | | <input type="checkbox"/> Dredge or fill (CWA Section 404) | | <input checked="" type="checkbox"/> Other (specify) TN0078841 (NPDES) | | | |

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NPDES Permit Number
TN0057461

Facility Name
Collierville Shelton Road STP

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| | | | | | | |
|--|----------------------|--|---|---|--|--|
| Collection System and Population Served | 1.7 | Provide the collection system information requested below for the treatment works. | | | | |
| | | Municipality Served | Population Served | Collection System Type (indicate percentage) | | Ownership Status |
| | | Collierville, TN | 52,000 | <u>100</u> % separate sanitary sewer | <input checked="" type="checkbox"/> Own | <input checked="" type="checkbox"/> Maintain |
| | | | | _____ % combined storm and sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain |
| | | | | <input type="checkbox"/> Unknown | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain |
| | | | | _____ % separate sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain |
| | | | | _____ % combined storm and sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain |
| | | | | <input type="checkbox"/> Unknown | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain |
| | | | _____ % separate sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | | _____ % combined storm and sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | | <input type="checkbox"/> Unknown | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | | _____ % separate sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | | _____ % combined storm and sanitary sewer | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | | <input type="checkbox"/> Unknown | <input type="checkbox"/> Own | <input type="checkbox"/> Maintain | |
| | | Total Population Served | 52,000 | | | |
| | | | | Separate Sanitary Sewer System | Combined Storm and Sanitary Sewer | |
| | | Total percentage of each type of sewer line (in miles) | | 100 % | % | |
| Indian Country | 1.8 | Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| | 1.9 | Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| Design and Actual Flow Rates | 1.10 | Provide design <i>and</i> actual flow rates in the designated spaces. | | | Design Flow Rate | |
| | | | | | 3.50 mgd | |
| | | Annual Average Flow Rates (Actual) | | | | |
| | | Two Years Ago | Last Year | This Year | | |
| | | 1.720 mgd | 1.705 mgd | 1.962 mgd | | |
| | | Maximum Daily Flow Rates (Actual) | | | | |
| | Two Years Ago | Last Year | This Year | | | |
| | 4.537 mgd | 4.298 mgd | 4.274 mgd | | | |
| Discharge Points by Type | 1.11 | Provide the total number of effluent discharge points to waters of the United States by type. | | | | |
| | | Total Number of Effluent Discharge Points by Type | | | | |
| | | Treated Effluent | Untreated Effluent | Combined Sewer Overflows | Bypasses | Constructed Emergency Overflows |
| | 1 | 0 | 0 | 0 | 0 | |

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NPDES Permit Number
TN0057461

Facility Name
Collierville.Shelton Road STP

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Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States.

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?
 Yes No → SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

Surface Impoundment Location and Discharge Data

| Location | Average Daily Volume Discharged to Surface Impoundment | Continuous or Intermittent (check one) |
|----------|--|--|
| | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |

1.14 Is wastewater applied to land?
 Yes No → SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

Land Application Site and Discharge Data

| Location | Size | Average Daily Volume Applied | Continuous or Intermittent (check one) |
|----------|-------|------------------------------|--|
| | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |

1.16 Is effluent transported to another facility for treatment prior to discharge?
 Yes No → SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).

1.18 Is the effluent transported by a party other than the applicant?
 Yes No → SKIP to Item 1.20.

1.19 Provide information on the transporter below.

Transporter Data

| | | | |
|-------------------------------|--|--------------------------------------|----------|
| Entity name | | Mailing address (street or P.O. box) | |
| City or town | | State | ZIP code |
| Contact name (first and last) | | Title | |
| Phone number | | Email address | |

| | | |
|--|----------------------------------|--|
| EPA Identification Number TNO057461 | NPDES Permit Number TNO057461 | Facility Name Collierville Shelton Road STP |
|--|----------------------------------|--|

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| | | | | | |
|--|---|---|--|--|--|
| Outfalls and Other Discharge or Disposal Methods Continued | 1.20 | In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility. | | | |
| | Receiving Facility Data | | | | |
| | Facility name | | Mailing address (street or P.O. box) | | |
| | City or town | | State | ZIP code | |
| | Contact name (first and last) | | Title | | |
| | Phone number | | Email address | | |
| | NPDES number of receiving facility (if any) <input type="checkbox"/> None | | Average daily flow rate mgd | | |
| Outfalls and Other Discharge or Disposal Methods Continued | 1.21 | Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.23. | | | |
| | 1.22 | Provide information in the table below on these other disposal methods. | | | |
| | | Information on Other Disposal Methods | | | |
| | | Disposal Method Description | Location of Disposal Site | Size of Disposal Site | Annual Average Daily Discharge Volume |
| | | | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| | | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent | |
| | | acres | gpd | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent | |
| Variance Requests | 1.23 | Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.) <input type="checkbox"/> Discharges into marine waters (CWA Section 301(h)) <input type="checkbox"/> Water quality related effluent limitation (CWA Section 302(b)(2)) <input checked="" type="checkbox"/> Not applicable | | | |
| | Contractor Information | 1.24 | Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 2. | | |
| 1.25 | | Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities. | | | |
| | | Contractor Information | | | |
| | | | Contractor 1 | Contractor 2 | Contractor 3 |
| | | Contractor name (company name) | | | |
| | | Mailing address (street or P.O. box) | | | |
| | | City, state, and ZIP code | | | |
| | | Contact name (first and last) | | | |
| Phone number | | | | | |
| Email address | | | | | |
| Operational and maintenance responsibilities of contractor | | | | | |

SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

| | | | | | | |
|---|--|--|---|--------------------------------------|-------------------------------------|---|
| Design Flow | Outfalls to Waters of the United States | | | | | |
| | 2.1 | Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 3. | | | | |
| Inflow and Infiltration | 2.2 | Provide the treatment works' current average daily volume of inflow and infiltration. | Average Daily Volume of Inflow and Infiltration 184,000 gpd | | | |
| | Indicate the steps the facility is taking to minimize inflow and infiltration. Capacity Management Operation and Maintenance (CMOM) evaluation was conducted in 2021, completed sewer model update in 2022, completed CIPP 24,375 linear feet of sewer line, completed 11,229 linear feet of SSES, re-energized smoke testing and flow testing programs (purchased a total of eight flow monitors). | | | | | |
| Topographic Map | 2.3 | Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | |
| Flow Diagram | 2.4 | Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | |
| Scheduled Improvements and Schedules of Implementation | 2.5 | Are improvements to the facility scheduled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3. | | | | |
| | Briefly list and describe the scheduled improvements. | | | | | |
| | 1. | | | | | |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |
| | 2.6 | Provide scheduled or actual dates of completion for improvements. | | | | |
| Scheduled or Actual Dates of Completion for Improvements | | | | | | |
| | Scheduled Improvement (from above) | Affected Outfalls (list outfall number) | Begin Construction (MM/DD/YYYY) | End Construction (MM/DD/YYYY) | Begin Discharge (MM/DD/YYYY) | Attainment of Operational Level (MM/DD/YYYY) |
| | 1. | | | | | |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |
| 2.7 | Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None required or applicable | | | | | |
| Explanation: | | | | | | |

| | | |
|--|----------------------------------|--|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Collierville Shelton Road STP |
|--|----------------------------------|--|

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SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

| | | | | |
|--|--|--|----------------------|----------------------|
| Description of Outfalls | 3.1 | Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.) | | |
| | | Outfall Number <u>001</u> | Outfall Number _____ | Outfall Number _____ |
| | State | TN | | |
| | County | Shelby | | |
| | City or town | Collierville | | |
| | Distance from shore | ft. | ft. | ft. |
| | Depth below surface | ft. | ft. | ft. |
| | Average daily flow rate | 1.796 mgd | mgd | mgd |
| | Latitude | 35° 5' 3" N | ° ' " | ° ' " |
| | Longitude | 89° 39' 42" W | ° ' " | ° ' " |
| Seasonal or Periodic Discharge Data | 3.2 | Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.4. | | |
| | 3.3 | If so, provide the following information for each applicable outfall. | | |
| | | Outfall Number _____ | Outfall Number _____ | Outfall Number _____ |
| | Number of times per year discharge occurs | | | |
| | Average duration of each discharge (specify units) | | | |
| | Average flow of each discharge | mgd | mgd | mgd |
| Months in which discharge occurs | | | | |
| Diffuser Type | 3.4 | Are any of the outfalls listed under Item 3.1 equipped with a diffuser? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.6. | | |
| | 3.5 | Briefly describe the diffuser type at each applicable outfall. | | |
| | | Outfall Number _____ | Outfall Number _____ | Outfall Number _____ |
| Waters of the U.S. | 3.6 | Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6. | | |

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| | | | | |
|-------------------------------------|--|---|---|---|
| Receiving Water Description | 3.7 | Provide the receiving water and related information (if known) for each outfall. | | |
| | | Outfall Number <u>001</u> | Outfall Number _____ | Outfall Number _____ |
| | Receiving water name | Wolf River at Mile 30.9 | | |
| | Name of watershed, river, or stream system | Wolf River Watershed | | |
| | U.S. Soil Conservation Service 14-digit watershed code | | | |
| | Name of state management/river basin | Wolf River Basin | | |
| | U.S. Geological Survey 8-digit hydrologic cataloging unit code | 08010210 | | |
| | Critical low flow (acute) | cfs | cfs | cfs |
| | Critical low flow (chronic) | cfs | cfs | cfs |
| Total hardness at critical low flow | mg/L of CaCO ₃ | mg/L of CaCO ₃ | mg/L of CaCO ₃ | |
| Treatment Description | 3.8 | Provide the following information describing the treatment provided for discharges from each outfall. | | |
| | | Outfall Number <u>001</u> | Outfall Number _____ | Outfall Number _____ |
| | Highest Level of Treatment (check all that apply per outfall) | <input checked="" type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input checked="" type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____ | <input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____ | <input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____ |
| | Design Removal Rates by Outfall | | | |
| | BOD ₅ or CBOD ₅ | 90 % | % | % |
| | TSS | 90 % | % | % |
| | Phosphorus | <input checked="" type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % |
| | Nitrogen | <input checked="" type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % |
| Other (specify) _____ | <input checked="" type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % | <input type="checkbox"/> Not applicable % | |

| | | | | | | | |
|--|---|---|---|--|--|--|--|
| Treatment Description Continued | 3.9 | Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below. Continuous UV Disinfection | | | | | |
| | | | Outfall Number <u>001</u> | Outfall Number _____ | Outfall Number _____ | | |
| | | Disinfection type | UV Disinfection | | | | |
| | | Seasons used | All | | | | |
| | | Dechlorination used? | <input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Effluent Testing Data | 3.10 | Have you completed monitoring for all Table A parameters and attached the results to the application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| | 3.11 | Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.13. | | | | | |
| | 3.12 | Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points. | | | | | |
| | | | Outfall Number <u>001</u> | Outfall Number _____ | Outfall Number _____ | | |
| | | | Acute | Chronic | Acute | Chronic | |
| | | Number of tests of discharge water | 4 | 0 | | | |
| | | Number of tests of receiving water | 0 | 0 | | | |
| | 3.13 | Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.16. | | | | | |
| | 3.14 | Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? <input checked="" type="checkbox"/> Yes → Complete Table B, including chlorine. <input type="checkbox"/> No → Complete Table B, omitting chlorine. | | | | | |
| | 3.15 | Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 3.16 | Does one or more of the following conditions apply? <ul style="list-style-type: none"> • The facility has a design flow greater than or equal to 1 mgd. • The POTW has an approved pretreatment program or is required to develop such a program. • The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E). <input checked="" type="checkbox"/> Yes → Complete Tables C, D, and E as applicable. <input type="checkbox"/> No → SKIP to Section 4. | | | | | | |
| 3.17 | Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | |
| 3.18 | Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No additional sampling required by NPDES permitting authority. | | | | | | |

| | | | |
|--|--|--|--|
| Effluent Testing Data Continued | 3.19 | Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → Complete tests and Table E and SKIP to Item 3.26. | |
| | 3.20 | Have you previously submitted the results of the above tests to your NPDES permitting authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → Provide results in Table E and SKIP to Item 3.26. | |
| | 3.21 | Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results. | |
| | | Date(s) Submitted (MM/DD/YYYY) | Summary of Results |
| | | 05/11/2023 | Ceriodaphnia Dubia >48% Pimephales Proelas >48% |
| | 3.22 | Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.26. | |
| | 3.23 | Describe the cause(s) of the toxicity: | |
| | 3.24 | Has the treatment works conducted a toxicity reduction evaluation? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.26. | |
| 3.25 | Provide details of any toxicity reduction evaluations conducted. | | |
| 3.26 | Have you completed Table E for all applicable outfalls and attached the results to the application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable because previously submitted information to the NPDES permitting authority. | | |

SECTION 4: INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))

| | | | |
|---|---|---|-------------------------|
| Industrial Discharges and Hazardous Wastes | 4.1 | Does the POTW receive discharges from SIUs or NSCIUs? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.7. | |
| | 4.2 | Indicate the number of SIUs and NSCIUs that discharge to the POTW. | |
| | | Number of SIUs | Number of NSCIUs |
| | | 1 | 1 |
| | 4.3 | Does the POTW have an approved pretreatment program? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 4.4 | Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.6. | |
| 4.5 | Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7. Control Authority Pretreatment Semi-Annual Report (4-14-2023) | | |
| 4.6 | Have you completed and attached Table F to this application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |

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Industrial Discharges and Hazardous Wastes Continued

| | | | | | |
|------|--|---|--|---------------------------------|-------|
| 4.7 | Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.9. | | | | |
| 4.8 | If yes, provide the following information: | | | | |
| | Hazardous Waste Number | Waste Transport Method (check all that apply) | | Annual Amount of Waste Received | Units |
| | | <input type="checkbox"/> Truck <input type="checkbox"/> Dedicated pipe | <input type="checkbox"/> Rail <input type="checkbox"/> Other (specify) _____ | | |
| | | <input type="checkbox"/> Truck <input type="checkbox"/> Dedicated pipe | <input type="checkbox"/> Rail <input type="checkbox"/> Other (specify) _____ | | |
| | | <input type="checkbox"/> Truck <input type="checkbox"/> Dedicated pipe | <input type="checkbox"/> Rail <input type="checkbox"/> Other (specify) _____ | | |
| 4.9 | Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5. | | | | |
| 4.10 | Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)? <input checked="" type="checkbox"/> Yes → SKIP to Section 5. <input type="checkbox"/> No | | | | |
| 4.11 | Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | |

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))

CSO Map and Diagram

| | | | | |
|-----|--|--|--|--|
| 5.1 | Does the treatment works have a combined sewer system? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6. | | | |
| 5.2 | Have you attached a CSO system map to this application? (See instructions for map requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 5.3 | Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |

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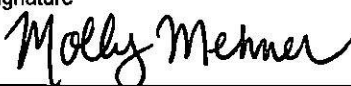
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| | | | | |
|--------------------------------|--|---|---|---|
| CSO Outfall Description | 5.4 | For each CSO outfall, provide the following information. (Attach additional sheets as necessary.) | | |
| | | CSO Outfall Number _____ | CSO Outfall Number _____ | CSO Outfall Number _____ |
| | City or town | | | |
| | State and ZIP code | | | |
| | County | | | |
| | Latitude | ° ' " | ° ' " | ° ' " |
| | Longitude | ° ' " | ° ' " | ° ' " |
| | Distance from shore | ft. | ft. | ft. |
| Depth below surface | ft. | ft. | ft. | |
| CSO Monitoring | 5.5 | Did the POTW monitor any of the following items in the past year for its CSO outfalls? | | |
| | | CSO Outfall Number _____ | CSO Outfall Number _____ | CSO Outfall Number _____ |
| | Rainfall | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | CSO flow volume | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | CSO pollutant concentrations | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | Receiving water quality | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | CSO frequency | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Number of storm events | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| CSO Events in Past Year | 5.6 | Provide the following information for each of your CSO outfalls. | | |
| | | CSO Outfall Number _____ | CSO Outfall Number _____ | CSO Outfall Number _____ |
| | Number of CSO events in the past year | events | events | events |
| | Average duration per event | hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated |
| | Average volume per event | million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated |
| | Minimum rainfall causing a CSO event in last year | inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated | inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated |

| | | | | |
|-----------------------------|---|---|----------------------------------|----------------------------------|
| CSO Receiving Waters | 5.7 | Provide the information in the table below for each of your CSO outfalls. | | |
| | | CSO Outfall Number ____ | CSO Outfall Number ____ | CSO Outfall Number ____ |
| | Receiving water name | | | |
| | Name of watershed/ stream system | | | |
| | U.S. Soil Conservation Service 14-digit watershed code (if known) | <input type="checkbox"/> Unknown | <input type="checkbox"/> Unknown | <input type="checkbox"/> Unknown |
| | Name of state management/river basin | | | |
| | U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known) | <input type="checkbox"/> Unknown | <input type="checkbox"/> Unknown | <input type="checkbox"/> Unknown |
| | Description of known water quality impacts on receiving stream by CSO (see instructions for examples) | | | |

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

| | | | | |
|--|--|---|--|---|
| Checklist and Certification Statement | 6.1 | In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applications are required to provide attachments. | | |
| | | Column 1 | Column 2 | |
| | <input checked="" type="checkbox"/> | Section 1: Basic Application Information for All Applicants | <input type="checkbox"/> w/ variance request(s) | <input type="checkbox"/> w/ additional attachments |
| | <input checked="" type="checkbox"/> | Section 2: Additional Information | <input checked="" type="checkbox"/> w/ topographic map <input checked="" type="checkbox"/> w/ additional attachments | <input type="checkbox"/> w/ process flow diagram |
| | <input checked="" type="checkbox"/> | Section 3: Information on Effluent Discharges | <input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ Table B <input checked="" type="checkbox"/> w/ Table C | <input type="checkbox"/> w/ Table D <input type="checkbox"/> w/ Table E <input checked="" type="checkbox"/> w/ additional attachments |
| | <input checked="" type="checkbox"/> | Section 4: Industrial Discharges and Hazardous Wastes | <input type="checkbox"/> w/ SIU and NSCIU attachments <input type="checkbox"/> w/ additional attachments | <input type="checkbox"/> w/ Table F |
| | <input type="checkbox"/> | Section 5: Combined Sewer Overflows | <input type="checkbox"/> w/ CSO map <input type="checkbox"/> w/ CSO system diagram | <input type="checkbox"/> w/ additional attachments |
| | <input checked="" type="checkbox"/> | Section 6: Checklist and Certification Statement | <input type="checkbox"/> w/ attachments | |
| | 6.2 | Certification Statement | | |
| | | <p><i>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 gather and evaluate 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.</i></p> | | |
| | Name (print or type first and last name) Molly Mehner | Official title Town Administrator | | |
| | Signature  | Date signed 5/15/2023 | | |

Shelton Road Wastewater Treatment Facility 35°07'82"N 89°66'50"W



#2 Clarifier

#2 Oxidation Ditch

#1 Oxidation Ditch

Headworks

Thickener

Screw Presses

#1 Clarifier

UV Disinfection

100 FEET

Influent Pump Station



Shelton Road Wastewater Treatment Plant



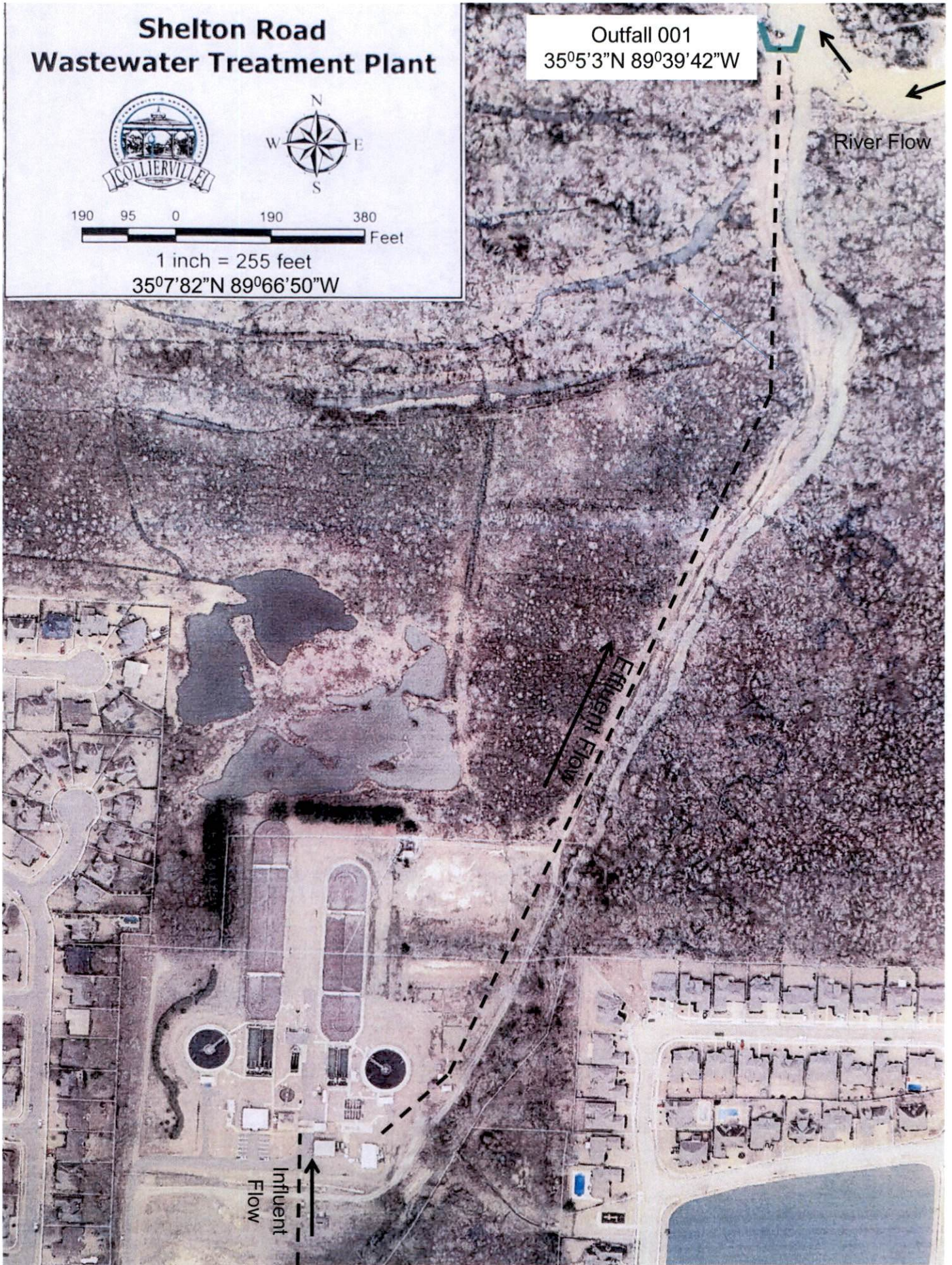
1 inch = 255 feet
35°07'82"N 89°06'50"W

Outfall 001
35°05'3"N 89°39'42"W

River Flow

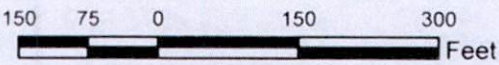
Effluent Flow

Influent
Flow

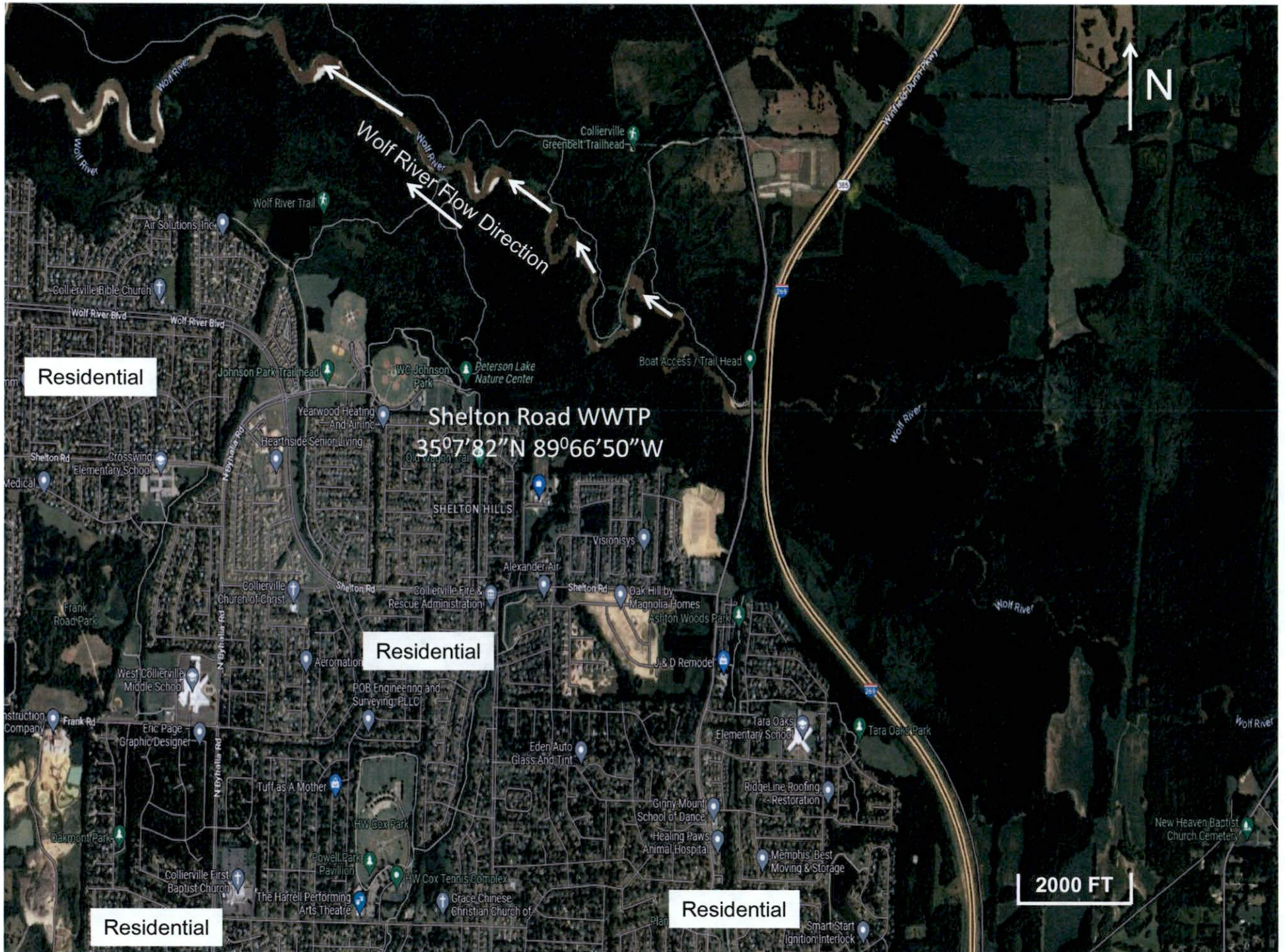




Shelton Road Wastewater Treatment Plant



1 inch = 200 feet



Residential

Shelton Road WWTP
35°07'82"N 89°06'50"W

Residential

Residential

Residential

2000 FT

CP-1 CP-2 CP-3 CP-4 CP-5 CP-6 CP-7

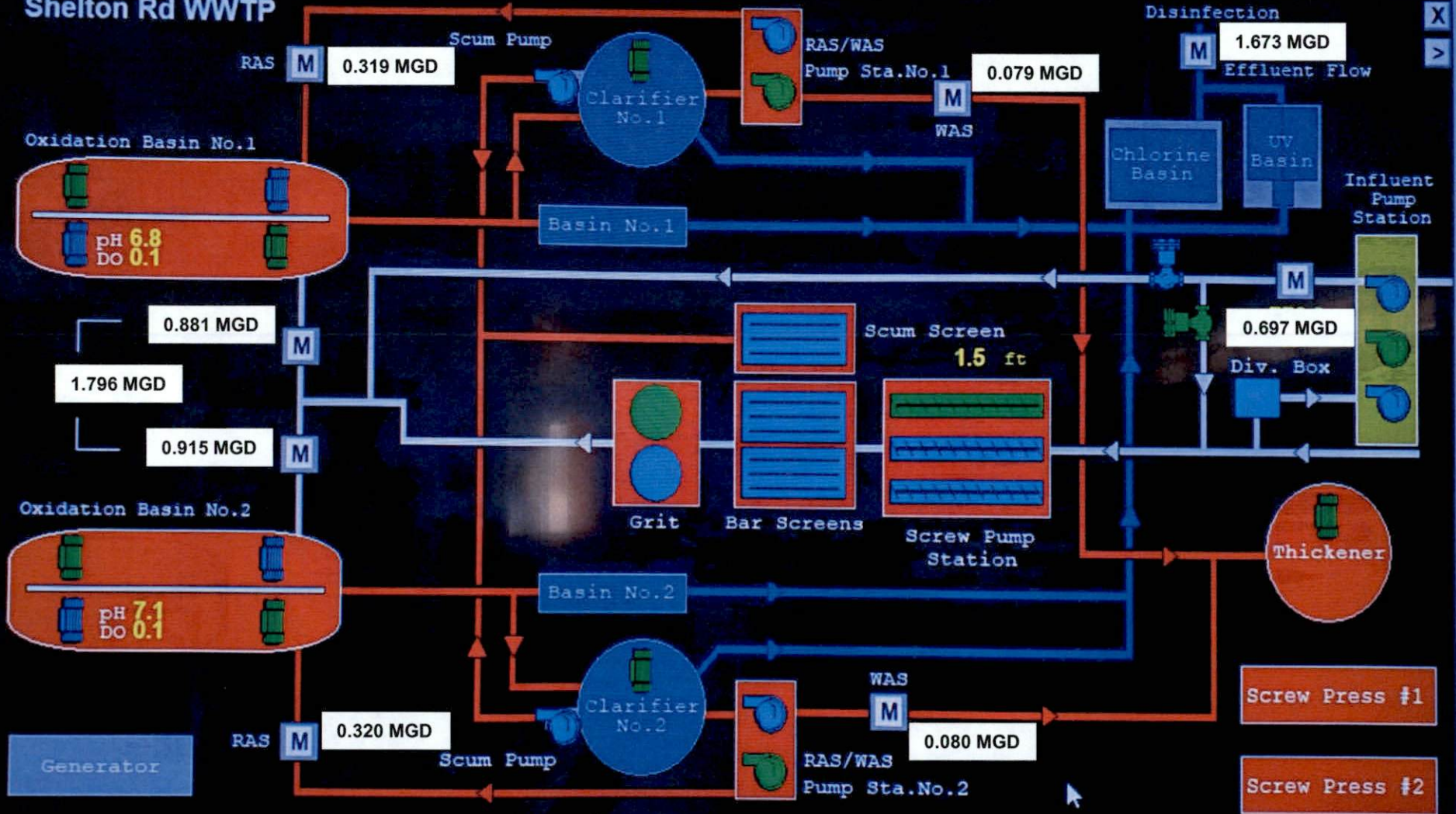
Thursday, February 9, 2023 9:46:22 AM

Collierville- Waste Water SCADA System

Login

HELP

Shelton Rd WWTP



- MAIN
- NWWTP
- LIFT STA. SCREENS
- UV
- TRENDS
- ALARM CONFIG
- REPORTS
- TIME SET
- ALARM SUMMARY

NARRATIVE SUMMARY

Collierville Shelton Road STP NPDES Permit #TN0057461

Shelton Road STP has a design flow of 3.5 MGD. A 24" gravity sewer conveys raw sewage into the facility. An Influent Pump Station collects sewage from the east side of Collierville and pumps directly into the 24" gravity sewer. The pump station has three variable speed pumps rated at 926 gpm each. During high flow events, the pump station flow can be diverted around the STP Headworks, consisting of three 3125 gpm each Screw Pumps, two parallel automatic bar screens, and two parallel grit removal systems. The influent leaves the headworks and flows through a splitter box to two oxidation ditches. The flow is metered before entering the ditches and is considered the plant's total influent flow. #1 Oxidation Ditch has a design capacity of 1.5 MGD and #2 Oxidation Ditch has a design capacity of 2.0 MGD. Each oxidation ditch has four surface brush rotors. Flow exits the ditches and enters secondary clarifiers having capacities of 1.1 MGD each. Each clarifier has two Return Activated Sludge (RAS) pumps, rated at 1,600 gpm each, to pump RAS from the clarifiers back to the ditches. The RAS pumps are variable speed controlled by flow set point. The RAS flow is metered after the pump discharge. A separate pipe, connected to the RAS pump discharge, conveys the Waste Activated Sludge (WAS) to a 45,000 gallons capacity gravity thickener. The WAS flow is metered and controlled by a flow set point. The Secondary Clarifier effluent flows through an Ultraviolet Disinfection system and is metered before discharging to the Wolf River outfall. Thickener WAS is processed through two Screw Presses and disposed of in the Quad County landfill located in Byhalia, MS.

WATER BALANCE

Influent Pump Station = 0.697 mgd
Total Influent Flow = 1.796 mgd
#1 Oxidation Ditch = 0.881 mgd
#2 Oxidation Ditch = 0.915 mgd
#1 Secondary Clarifier RAS = 0.319 mgd
#2 Secondary Clarifier RAS = 0.320 mgd
#1 Waste Activated Sludge = 0.079 mgd
#2 Waste Activated Sludge = 0.080 mgd
Effluent/Disinfection = 1.673 mgd

Flow is not metered between Oxidation Ditches and Secondary Clarifiers

| | | | |
|--|----------------------------------|--|-----------------------|
| EPA Identification Number TN0057461 | NPDES Permit Number TN0057461 | Facility Name Collierville Shelton Road STP | Outfall Number 001 |
|--|----------------------------------|--|-----------------------|

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| TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS | | | | | | | |
|---|-------------------------|-----------|-------------------------|-----------|-------------------|--------------------------------|--|
| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
| | Value | Units | Value | Units | Number of Samples | | |
| Biochemical oxygen demand <input checked="" type="checkbox"/> BOD ₅ or <input type="checkbox"/> CBOD ₅ (report one) | 32.0 | mg/L | 9.0 | mg/L | 13 | 5210B-2016 | 5 mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Fecal coliform E Coli | 866.4 | cfu/100mL | 54.0 | cfu/100mL | 12 | EPA 1603 | 1.0 cfu/10 <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Design flow rate | 4.077 | MGD | 1.628 | MGD | 31 | | |
| pH (minimum) | 6.1 | SU | | | | | |
| pH (maximum) | 7.5 | SU | | | | | |
| Temperature (winter) | 16.7 | deg C | 12.6 | deg C | 12 | | |
| Temperature (summer) | 27.2 | deg C | 25.2 | deg C | 15 | | |
| Total suspended solids (TSS) | 23.0 | mg/L | 7.3 | mg/L | 12 | 2540D-2011 | 2.0 mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

| | | | |
|--|----------------------------------|--|-----------------------|
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|--|----------------------------------|--|-----------------------|

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TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|--|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Ammonia (as N) | 2.880 | mg/L | 0.893 | mg/L | 12 | 4500NH3D-2011 | 0.100mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chlorine (total residual, TRC) ² | 0.13 | mg/L | 0.09 | mg/L | 17 | 4500 Cl G-2011 | 0.02mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Dissolved oxygen | 8.8 | mg/L | 6.2 | mg/L | 14 | 4500 OG-2011 | 0.05mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Nitrate/nitrite | 4.71 | mg/L | 1.22 | mg/L | 20 | EPA-300.0 | 0.100mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Kjeldahl nitrogen | 18.30 | mg/L | 4.09 | mg/L | 20 | 4500NORGD-2011 | 1.00mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Oil and grease | 1.7 | mg/L | 1.5 | mg/L | 3 | 1664B | 1.40mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Phosphorus | 5.85 | mg/L | 2.16 | mg/L | 20 | 365.4 | 0.500mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Total dissolved solids | 248 | mg/L | 223 | mg/L | 3 | 2540C-2015 | 51.0mg/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

² Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|---|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Metals, Cyanide, and Total Phenols | | | | | | | |
| Hardness (as CaCO ₃) | 49.30 | mg/L | 45.87 | mg/L | 4 | 200.7 | 0.100mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Antimony, total recoverable | <0.001 | mg/L | <0.001 | mg/L | 3 | EPA 200.8 | 0.001mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Arsenic, total recoverable | 0.0009 | mg/L | 0.000667 | mg/L | 3 | EPA 200.8 | 0.0005mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Beryllium, total recoverable | <0.0005 | mg/L | <0.0005 | mg/L | 3 | EPA 200.8 | 0.0005mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Cadmium, total recoverable | <0.0001 | mg/L | <0.0001 | mg/L | 3 | EPA 200.8 | 0.0001mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chromium, total recoverable | 0.0013 | mg/L | 0.001 | mg/L | 10 | EPA 200.8 | 0.001mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Copper, total recoverable | 0.0103 | mg/L | 0.004444 | mg/L | 10 | EPA 200.8 | 0.0005mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Lead, total recoverable | 0.00052 | mg/L | 0.0005 | mg/L | 10 | EPA 200.8 | 0.0005mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Mercury, total recoverable | 0.0000121 | mg/L | 0.0000022 | mg/L | 10 | 1631E | 0.0000005 <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Nickel, total recoverable | 0.00196 | mg/L | 0.0012787 | mg/L | 10 | EPA 200.8 | 0.0005mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Selenium, total recoverable | <1.00 | mg/L | <1.00 | mg/L | 3 | EPA 200.8 | 0.001mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Silver, total recoverable | <0.0001 | mg/L | <0.0001 | mg/L | 10 | EPA 200.8 | 0.0001mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Thallium, total recoverable | <0.0002 | mg/L | <0.0002 | mg/L | 3 | EPA 200.8 | 0.0002mg <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Zinc, total recoverable | 0.0765 | mg/L | 0.05878 | mg/L | 10 | EPA 200.8 | 0.020mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Cyanide | <0.005 | mg/L | <0.005 | mg/L | 10 | 4500CNE-2011 | 0.005mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Total phenolic compounds | 0.0142 | mg/L | 0.006 | mg/L | 10 | 420.1 | 0.005mg/l <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Volatile Organic Compounds | | | | | | | |
| Acrolein | <20.0 | ug/L | <20.0 | ug/L | 3 | 624.1 | 20.0ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Acrylonitrile | <20.0 | ug/L | <20.0 | ug/L | 3 | 624.1 | 20.0ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Benzene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Bromoform | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

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| TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS | | | | | | | |
|---|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
| | Value | Units | Value | Units | Number of Samples | | |
| Carbon tetrachloride | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chlorobenzene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chlorodibromomethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2-chloroethylvinyl ether | <5.00 | ug/L | <5.00 | ug/L | 3 | 624.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chloroform | 1.91 | ug/L | 1.30 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Dichlorobromomethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,1-dichloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,2-dichloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| trans-1,2-dichloroethylene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,1-dichloroethylene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,2-dichloropropane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,3-dichloropropylene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Ethylbenzene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Methyl bromide | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Methyl chloride | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Methylene chloride | <10.00 | ug/L | <10.00 | ug/L | 3 | 624.1 | 10.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,1,2,2-tetrachloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Tetrachloroethylene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Toluene | <5.00 | ug/L | <5.00 | ug/L | 3 | 624.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,1,1-trichloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,1,2-trichloroethane | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|-----------------------------------|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Trichloroethylene | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Vinyl chloride | <1.00 | ug/L | <1.00 | ug/L | 3 | 624.1 | 1.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Acid-Extractable Compounds | | | | | | | |
| p-chloro-m-cresol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2-chlorophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,4-dichlorophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,4-dimethylphenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 4,6-dinitro-o-cresol | <10.00 | ug/L | <10.00 | ug/L | 3 | 625.1 | 10.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,4-dinitrophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2-nitrophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 4-nitrophenol | <10.00 | ug/L | <10.00 | ug/L | 3 | 625.1 | 10.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Pentachlorophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Phenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,4,6-trichlorophenol | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Base-Neutral Compounds | | | | | | | |
| Acenaphthene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Acenaphthylene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Anthracene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Benzidine | <20.00 | ug/L | <20.00 | ug/L | 3 | 625.1 | 20.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Benzo(a)anthracene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Benzo(a)pyrene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 3,4-benzofluoranthene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|-------------------------------|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Benzo(ghi)perylene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Benzo(k)fluoranthene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Bis (2-chloroethoxy) methane | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Bis (2-chloroethyl) ether | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Bis (2-chloroisopropyl) ether | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Bis (2-ethylhexyl) phthalate | <10.0 | ug/L | <10.0 | ug/L | 3 | 625.1 | 10.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 4-bromophenyl phenyl ether | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Butyl benzyl phthalate | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2-chloronaphthalene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 4-chlorophenyl phenyl ether | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Chrysene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| di-n-butyl phthalate | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| di-n-octyl phthalate | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Dibenzo(a,h)anthracene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,2-dichlorobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,3-dichlorobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,4-dichlorobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 3,3-dichlorobenzidine | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Diethyl phthalate | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Dimethyl phthalate | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,4-dinitrotoluene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 2,6-dinitrotoluene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|----------------------------|-------------------------|-------|-------------------------|-------|-------------------|--------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| 1,2-diphenylhydrazine | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Fluoranthene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Fluorene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Hexachlorobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Hexachlorobutadiene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Hexachlorocyclo-pentadiene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Hexachloroethane | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Indeno(1,2,3-cd)pyrene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Isophorone | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Naphthalene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Nitrobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| N-nitrosodi-n-propylamine | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| N-nitrosodimethylamine | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| N-nitrosodiphenylamine | <10.0 | ug/L | <10.0 | ug/L | 3 | 625.1 | 10.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Phenanthrene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| Pyrene | <2.00 | ug/L | <2.00 | ug/L | 3 | 625.1 | 2.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| 1,2,4-trichlorobenzene | <5.00 | ug/L | <5.00 | ug/L | 3 | 625.1 | 5.00ug/L <input type="checkbox"/> ML <input type="checkbox"/> MDL |

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

| Pollutant (list) | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method ¹ | ML or MDL (include units) |
|---|-------------------------|-------|-------------------------|-------|----------------------|-----------------------------------|---|
| | Value | Units | Value | Units | Number of Samples | | |
| <input checked="" type="checkbox"/> No additional sampling is required by NPDES permitting authority. | | | | | | | |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |
| | | | | | | | <input type="checkbox"/> ML <input type="checkbox"/> MDL |

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).



12065 LEBANON RD.
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August 24, 2022

William McCrae
 Collierville STP-Shelton Rd
 500 Poplar View Pkwy
 Collierville, TN 38017

Biomonitoring Results
 Pace National Identification #: L1514742-01,-02,-03,-04

Attached are the results for toxicity test performed: **July 14-16, 2022**

A summary of the findings is presented below:

| Test Species | <i>Ceriodaphnia dubia</i> | <i>Pimephales promelas</i> |
|---------------------|--|---|
| EPA Method | EPA Method 2002.0 | EPA Method 2000.0 |
| Test Concentrations | 3%, 6%, 12%, 24%, 48% | 3%, 6%, 12%, 24%, 48% |
| Permit Limit | 12% | 12% |
| Test Endpoint | 48-hr LC50 | 48-hr LC50 |
| Test Result | > 48% | > 48% |
| | effluent successfully meets permit requirements for the Ceriodaphnia | effluent successfully meets permit requirements for the minnows |
| Next Test Date | Week of January 15, 2023 | |
| Comments | Collierville STP-Shelton Rd TN0057461 | |

If you have any questions or comments concerning the enclosed report, please do not hesitate to contact us.



Aquatic Biology Lab
 615.773.6359
 615.773.7544



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December 2, 2022

William McCrae
 Collierville STP-Shelton Rd
 500 Poplar View Pkwy
 Collierville, TN 38017

Biomonitoring Results
 Pace National Identification #: L1550894-01,-02,-03,-04

Attached are the results for toxicity test performed: **October 27-29, 2022**

A summary of the findings is presented below:

| | | |
|---------------------|--|---|
| Test Species | <i>Ceriodaphnia dubia</i> | <i>Pimephales promelas</i> |
| EPA Method | EPA Method 2002.0 | EPA Method 2000.0 |
| Test Concentrations | 3%, 6%, 12%, 24%, 48% | 3%, 6%, 12%, 24%, 48% |
| Permit Limit | 12% | 12% |
| Test Endpoint | 48-hr LC50 | 48-hr LC50 |
| Test Result | > 48% | > 48% |
| | effluent successfully meets permit requirements for the Ceriodaphnia | effluent successfully meets permit requirements for the minnows |
| Next Test Date | Week of January 16, 2023 | |
| Comments | Collierville STP-Shelton Rd TN0057461 | |

If you have any questions or comments concerning the enclosed report, please do not hesitate to contact us.



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January 19, 2023

William McCrae
 Collierville STP-Shelton Rd
 500 Poplar View Pkwy
 Collierville, TN 38017

Biomonitoring Results

Pace National Identification #: L1575222-01,-02,-03,-04

Attached are the results for toxicity test performed: **January 12-14, 2023**

A summary of the findings is presented below:

| Test Species | <i>Ceriodaphnia dubia</i> | <i>Pimephales promelas</i> |
|---------------------|--|---|
| EPA Method | EPA Method 2002.0 | EPA Method 2000.0 |
| Test Concentrations | 3%, 6%, 12%, 24%, 48% | 3%, 6%, 12%, 24%, 48% |
| Permit Limit | 12% | 12% |
| Test Endpoint | 48-hr LC50 | 48-hr LC50 |
| Test Result | > 48% | > 48% |
| | effluent successfully meets permit requirements for the Ceriodaphnia | effluent successfully meets permit requirements for the minnows |
| Next Test Date | frequency: semi-annual | |
| Comments | Collierville STP-Shelton Rd TN0057461 | |

If you have any questions or comments concerning the enclosed report, please do not hesitate to contact us.



Aquatic Biology Lab
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May 5, 2023

William McCrae
 Collierville STP-Shelton Rd
 500 Poplar View Pkwy
 Collierville, TN 38017

Biomonitoring Results
 Pace National Identification #: L1602438-01,-02,-03,-04

Attached are the results for toxicity test performed: April 6-8, 2023

A summary of the findings is presented below:

| Test Species | <i>Ceriodaphnia dubia</i> | <i>Pimephales promelas</i> |
|---------------------|--|---|
| EPA Method | EPA Method 2002.0 | EPA Method 2000.0 |
| Test Concentrations | 3%, 6%, 12%, 24%, 48% | 3%, 6%, 12%, 24%, 48% |
| Permit Limit | 12% | 12% |
| Test Endpoint | 48-hr LC50 | 48-hr LC50 |
| Test Result | > 48% | > 48% |
| | effluent successfully meets permit requirements for the Ceriodaphnia | effluent successfully meets permit requirements for the minnows |
| Next Test Date | Contact the lab to schedule next test date. | |
| Comments | Collierville STP-Shelton Rd TN0057461 | |

If you have any questions or comments concerning the enclosed report, please do not hesitate to contact us.



Aquatic Biology Lab
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