



January 20, 2023

1045 Horsehead Rd.  
Pikeville, TN 37367

Sarah Terpstra  
Division of Water Resources  
William R Snodgrass TN Tower 11<sup>th</sup> Floor  
312 Rosa L Parks Avenue  
Nashville, TN 37243

Dear Ms. Terpstra:

Regarding the permit application for the BCCX Wastewater Treatment Plant TN0056626, I want to take this opportunity to point out some issues important in the day-to-day management of flow and constituent loading to the receiving stream.


1. The existing permit allows the discharge of 0.315 MGD of wastewater effluent to Mill Creek, and the land application of 0.315 MGD of wastewater effluent to a constructed spray field, for a total flow of 0.650 MGD. Based on CTI Engineer comments (NPDES Permit Application Addendum 1.14) the spray field was designed to handle a flow of 0.465 MGD.
2. Sampling.
  - a. A 9.45 MG storage tank was constructed during the last construction project. The storage tank receives treated effluent flow and is used to store treated wastewater for land application. There are days when all treated effluent flow is conveyed to the storage tank. With that said, samples are collected regardless of the direction the treated effluent is going (receiving stream or storage tank). I have wondered if we will be required to collect effluent samples when the effluent flow is going to the storage tank.
  - b. Settleable Solids data shows that in the past several years there has never been a sample result over 0.1 ml/L. The current schedule is to test for settleable solids once per day, 5 days a week. I would like to see the frequency of the settleable solids drop to 3 times per week.

Thank you for taking the time to consider these issues. If you need any further information, please let me know.

Regards,

*Phil Webster*

Phil Webster LM

Form 2A NPDES		<b>U.S. Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS</b>
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**SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))**

<b>Facility Information</b>	1.1	Facility name BLED SOE COUNTY CORRECTIONAL COMPLEX (BCCX)		
		Mailing address (street or P.O. box) 1045 HORSEHEAD ROAD		
		City or town PIKEVILLE	State TN	ZIP code 37367
		Contact name (first and last) PHIL WEBSTER	Title LOCAL MANAGER	Phone number (931) 994-1416
		Email address pwebster@alliancewater.com		
		Location address (street, route number, or other specific identifier) <input checked="" type="checkbox"/> Same as mailing address		
		City or town	State	ZIP code
	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		
<b>Applicant Information</b>	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 checked="" type="checkbox"/> Operator <input type="checkbox"/> Both		
	1.5	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) <input type="checkbox"/> Facility <input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Facility and applicant (they are one and the same)		
<b>Existing Environmental Permits</b>	1.6	Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)		
		<b>Existing Environmental Permits</b>		
		<input checked="" type="checkbox"/> NPDES (discharges to surface water) TN0056626	<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 type="checkbox"/> Other (specify)	



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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.14.		
1.13	Provide the location of each surface impoundment and associated discharge information in the table below.		
	<b>Surface Impoundment Location and Discharge Data</b>		
	<b>Location</b>	<b>Average Daily Volume Discharged to Surface Impoundment</b>	<b>Continuous or Intermittent (check one)</b>
		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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 1.16.		
1.15	Provide the land application site and discharge data requested below.		
	<b>Land Application Site and Discharge Data</b>		
	<b>Location</b>	<b>Size</b>	<b>Average Daily Volume Applied</b>
	BCCX WWTP	42.7 acres	418,000 gpd
		acres	gpd
	acres	gpd	
1.16	Is effluent transported to another facility for treatment prior to discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 1.20.		
1.19	Provide information on the transporter below.		
	<b>Transporter Data</b>		
	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		NPDES Permit Number TN0056626		Facility Name BCCX		Form Approved 03/05/19 OMB No. 2040-0004	
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.					
	<b>Receiving Facility Data</b>						
	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
	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.					
Outfalls and Other Discharge or Disposal Methods Continued	1.22	Provide information in the table below on these other disposal methods.					
	<b>Information on Other Disposal Methods</b>						
		<b>Disposal Method Description</b>	<b>Location of Disposal Site</b>	<b>Size of Disposal Site</b>	<b>Annual Average Daily Discharge Volume</b>	<b>Continuous or Intermittent (check one)</b>	
				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 checked="" type="checkbox"/> Yes <input 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.					
	<b>Contractor Information</b>						
			<b>Contractor 1</b>		<b>Contractor 2</b>		<b>Contractor 3</b>
		Contractor name (company name)	ALLIANCE WATER RESOURCES				
		Mailing address (street or P.O. box)	206 SOUTH KEENE STREET				
		City, state, and ZIP code	COLUMBIA, MO 65201				
		Contact name (first and last)	EVAN ROMO				
	Phone number	(636) 358-1648					
	Email address	eromo@alliancewater.com					
	Operational and maintenance responsibilities of contractor	FULL OPERATION AND MAINTENANCE					

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

	<b>Outfalls to Waters of the United States</b>					
<b>Design Flow</b>	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.				
<b>Inflow and Infiltration</b>	2.2	Provide the treatment works' current average daily volume of inflow and infiltration.	<b>Average Daily Volume of Inflow and Infiltration</b>			
			0 gpd			
		Indicate the steps the facility is taking to minimize inflow and infiltration. See Addendum for rationale.				
<b>Topographic Map</b>	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				
<b>Flow Diagram</b>	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				
<b>Scheduled Improvements and Schedules of Implementation</b>	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 checked="" type="checkbox"/> None required or applicable					
	Explanation:					

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX
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Form Approved 03/05/19  
OMB No. 2040-0004

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

<b>Description of Outfalls</b>	3.1	Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)		
		<b>Outfall Number</b> <u>001</u>	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	State	TN		
	County	BLEDSON		
	City or town	Pikeville		
	Distance from shore	0 ft.	ft.	ft.
	Depth below surface	0 ft.	ft.	ft.
	Average daily flow rate	0.281 mgd	mgd	mgd
	Latitude	35° 73' 77"	° ' "	° ' "
Longitude	-85° 25' 10"	° ' "	° ' "	
<b>Seasonal or Periodic Discharge Data</b>	3.2	Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.4.		
	3.3	If so, provide the following information for each applicable outfall.		
		<b>Outfall Number</b> <u>001</u>	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	Number of times per year discharge occurs	32		
	Average duration of each discharge (specify units)	24 hrs.		
Average flow of each discharge	0.281 mgd	mgd	mgd	
Months in which discharge occurs	JAN-MAY, DEC			
<b>Diffuser Type</b>	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.		
		<b>Outfall Number</b> _____	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
<b>Waters of the U.S.</b>	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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6.		

<b>Receiving Water Description</b>	3.7	Provide the receiving water and related information (if known) for each outfall.		
		<b>Outfall Number</b> 001	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	Receiving water name	MILL CREEK		
	Name of watershed, river, or stream system	CANEY FORK RIVER		
	U.S. Soil Conservation Service 14-digit watershed code	05130108_0410		
	Name of state management/river basin			
	U.S. Geological Survey 8-digit hydrologic cataloging unit code	05130108		
	Critical low flow (acute)	ND cfs	cfs	cfs
	Critical low flow (chronic)	ND cfs	cfs	cfs
Total hardness at critical low flow	ND mg/L of CaCO <sub>3</sub>	mg/L of CaCO <sub>3</sub>	mg/L of CaCO <sub>3</sub>	
<b>Treatment Description</b>	3.8	Provide the following information describing the treatment provided for discharges from each outfall.		
		<b>Outfall Number</b> 001	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	<b>Highest Level of Treatment</b> (check all that apply per outfall)	<input checked="" type="checkbox"/> Primary <input checked="" type="checkbox"/> Equivalent to secondary <input checked="" type="checkbox"/> Secondary <input checked="" type="checkbox"/> Advanced <input checked="" type="checkbox"/> Other (specify) <u>SPRAY FIELD</u>	<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) _____
	<b>Design Removal Rates by Outfall</b>			
	BOD <sub>5</sub> or CBOD <sub>5</sub>	85 %	%	%
	TSS	85 %	%	%
	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 type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %	





<b>Effluent Testing Data Continued</b>	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 <span style="margin-left: 150px;"><input type="checkbox"/> No → Complete tests and Table E and SKIP to Item 3.26.</span>				
	3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input checked="" type="checkbox"/> No → Provide results in Table E and SKIP to Item 3.26.</span>				
	3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.				
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">Date(s) Submitted (MM/DD/YYYY)</th> <th style="width:50%;">Summary of Results</th> </tr> <tr> <td style="height: 40px;"></td> <td></td> </tr> </table>	Date(s) Submitted (MM/DD/YYYY)	Summary of Results		
	Date(s) Submitted (MM/DD/YYYY)	Summary of Results				
	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 <span style="margin-left: 150px;"><input type="checkbox"/> No → SKIP to Item 3.26.</span>				
	3.23	Describe the cause(s) of the toxicity:				
3.24	Has the treatment works conducted a toxicity reduction evaluation? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No → SKIP to Item 3.26.</span>					
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 checked="" type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> Not applicable because previously submitted information to the NPDES permitting authority.</span>					

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

<b>Industrial Discharges and Hazardous Wastes</b>	4.1	Does the POTW receive discharges from SIUs or NSCIUs? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input checked="" type="checkbox"/> No → SKIP to Item 4.7.</span>				
	4.2	Indicate the number of SIUs and NSCIUs that discharge to the POTW.				
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">Number of SIUs</th> <th style="width:50%;">Number of NSCIUs</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	Number of SIUs	Number of NSCIUs		
	Number of SIUs	Number of NSCIUs				
	4.3	Does the POTW have an approved pretreatment program? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No</span>				
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 type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No → SKIP to Item 4.6.</span>					
4.5	Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.					
4.6	Have you completed and attached Table F to this application package? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No</span>					

<b>Industrial Discharges and Hazardous Wastes Continued</b>	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:			
		<b>Hazardous Waste Number</b>	<b>Waste Transport Method</b> (check all that apply)		<b>Annual Amount of Waste Received</b>
			<input type="checkbox"/> Truck	<input type="checkbox"/> Rail	
			<input type="checkbox"/> Dedicated pipe	<input type="checkbox"/> Other (specify) _____	
			<input type="checkbox"/> Truck	<input type="checkbox"/> Rail	
		<input type="checkbox"/> Dedicated pipe	<input type="checkbox"/> Other (specify) _____		
		<input type="checkbox"/> Truck	<input type="checkbox"/> Rail		
		<input type="checkbox"/> Dedicated pipe	<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 type="checkbox"/> Yes <input checked="" 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 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))**

<b>CSO Map and Diagram</b>	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			

<b>CSO Outfall Description</b>	5.4	For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)		
		<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____
	City or town			
	State and ZIP code			
	County			
	Latitude	° ' "	° ' "	° ' "
	Longitude	° ' "	° ' "	° ' "
	Distance from shore	ft.	ft.	ft.
Depth below surface	ft.	ft.	ft.	
<b>CSO Monitoring</b>	5.5	Did the POTW monitor any of the following items in the past year for its CSO outfalls?		
		<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____
	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	
<b>CSO Events in Past Year</b>	5.6	Provide the following information for each of your CSO outfalls.		
		<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____	<b>CSO Outfall Number</b> ____
	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	

<b>CSO Receiving Waters</b>	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))**

<b>Checklist and Certification Statement</b>	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 applicants are required to provide attachments.									
		<b>Column 1</b>	<b>Column 2</b>								
	<input checked="" type="checkbox"/>	Section 1: Basic Application Information for All Applicants	<input type="checkbox"/> w/ variance request(s)	<input checked="" type="checkbox"/> w/ additional attachments							
	<input checked="" type="checkbox"/>	Section 2: Additional Information	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments	<input checked="" 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 type="checkbox"/> w/ Table C	<input type="checkbox"/> w/ Table D <input checked="" type="checkbox"/> w/ Table E <input type="checkbox"/> w/ additional attachments							
	<input 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	<p><b>Certification Statement</b></p> <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> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name (print or type first and last name)</td> <td>Official title</td> </tr> <tr> <td>Ken Scalf</td> <td>Director</td> </tr> <tr> <td>Signature</td> <td>Date signed</td> </tr> <tr> <td style="text-align: center;"></td> <td>01/19/2023</td> </tr> </table>			Name (print or type first and last name)	Official title	Ken Scalf	Director	Signature	Date signed		01/19/2023
Name (print or type first and last name)	Official title										
Ken Scalf	Director										
Signature	Date signed										
	01/19/2023										

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
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**TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS**

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method <sup>1</sup>	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand <input type="checkbox"/> BOD <sub>5</sub> or <input checked="" type="checkbox"/> CBOD <sub>5</sub> (report one)	9.6	mg/L	2.0	mg/L	103	5210 B 2016	2.0 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Fecal coliform	437	#/100 mL	11	#/100 mL	103	9223 B 2016	1.0 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Design flow rate	0.85	MGD	0.407	MGD	273		
pH (minimum)	6.6	SU					
pH (maximum)	7.9	SU					
Temperature (winter)	23	C	16	C	151		
Temperature (summer)	27	C	22	C	214		
Total suspended solids (TSS)	35	mg/L	2.0	mg/L	104	2540 D 2015	0.3 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL

<sup>1</sup> 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 B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD**

Pollutant	Maximum Daily Discharge		Average Daily Discharge		Number of Samples	Analytical Method <sup>1</sup>	ML or MDL (include units)
	Value	Units	Value	Units			
Ammonia (as N)	2.85	mg/L	0.12	mg/L	104	HACH 10202 10/2021	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Chlorine (total residual, TRC) <sup>2</sup>	NA						<input type="checkbox"/> ML <input type="checkbox"/> MDL
Dissolved oxygen	11.1	mg/L	8.0	mg/L	107	4500 O-G 2016	<input type="checkbox"/> ML <input type="checkbox"/> MDL
Nitrate/nitrite	4.79	mg/L	1.18	mg/L	36	4500 NO3 F 2016	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Kjeldahl nitrogen	5.28	mg/L	1.37	mg/L	37	4500 NORG D 2011	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Oil and grease	1.5	mg/L	1.5	mg/L	3	1664B	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Phosphorus	2.63	mg/L	0.89	mg/L	37	365.4	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Total dissolved solids	424	mg/L	421	mg/L	3	2540C-2015	<input type="checkbox"/> ML <input type="checkbox"/> MDL

<sup>1</sup> 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).

<sup>2</sup> 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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EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
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**TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY**

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information	Test Number <u>1</u> <u>CA</u>	Test Number <u>1</u> <u>FH</u>	Test Number _____
Test species	<u>C dubia</u>	<u>P promelas</u>	
Age at initiation of test	<u>&lt; 24 hours</u>	<u>&lt; 24 hours</u>	
Outfall number	<u>001</u>	<u>001</u>	
Date sample collected	<u>11/11/19</u>	<u>11/11/19</u>	
Date test started	<u>11/12/19</u>	<u>11/12/19</u>	
Duration	<u>7 days 0 hours</u>	<u>6 days 23 hours</u>	
<b>Toxicity Test Methods</b>			
Test method number	<u>EPA 821 R-02-013 1002.0 (2002)</u>	<u>EPA 821 R-02-013 1000.0 (2002)</u>	
Manual title	<u>Short-term methods for estimating the Chronic toxicity of Effluents</u>		
Edition number and year of publication	<u>4th, October 2002</u>	<u>4th, October 2002</u>	
Page number(s)	<u>141-191e</u>	<u>53-111</u>	
<b>Sample Type</b>			
Check one:	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input type="checkbox"/> 24-hour composite
<b>Sample Location</b>			
Check one:	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before disinfection <input type="checkbox"/> After disinfection <input type="checkbox"/> After dechlorination
<b>Point in Treatment Process</b>			
Describe the point in the treatment process at which the sample was collected for each test.	<u>001 - AFTER UV TREATMENT</u>	<u>001 - AFTER UV TREATMENT</u>	
<b>Toxicity Type</b>			
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Both

2019  
2

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>			
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.			
	Test Number <u>1</u> <u>CO</u>	Test Number <u>1</u> <u>FH</u>	Test Number _____
<b>Test Type</b>			
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through
<b>Source of Dilution Water</b>			
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water
If laboratory water, specify type.	<u>20% Dilute mineral water</u>	<u>20% Dilute mineral water</u>	
If receiving water, specify source.			
<b>Type of Dilution Water</b>			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)
<b>Percentage Effluent Used</b>			
Specify the percentage effluent used for all concentrations in the test series.	<u>0/6.25%/12.5%/25%/50%/100%</u>	<u>0/6.25%/12.5%/25%/50%/100%</u>	
<b>Parameters Tested</b>			
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature
		<input type="checkbox"/> Ammonia <input type="checkbox"/> Dissolved oxygen	<input type="checkbox"/> pH <input type="checkbox"/> Salinity <input type="checkbox"/> Temperature
		<input type="checkbox"/> Ammonia <input type="checkbox"/> Dissolved oxygen	<input type="checkbox"/> pH <input type="checkbox"/> Salinity <input type="checkbox"/> Temperature
<b>Acute Test Results</b>			
Percent survival in 100% effluent	<u>70</u> <del><u>80</u></del> %	%	%
LC50			
95% confidence interval		%	%
Control percent survival		%	%

2019  
3

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004	
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>					
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.					
	Test Number <u>1</u> <u>CD</u>	Test Number <u>1</u> <u>FH</u>	Test Number _____		
<b>Acute Test Results Continued</b>					
Other (describe)					
<b>Chronic Test Results</b>					
NOEC	100 %	100 %			
IC <sub>25</sub>	>100 %	>100 %			
Control percent survival	90 %	97.5 %			
Other (describe)					
<b>Quality Control/Quality Assurance</b>					
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
What date was reference toxicant test run (MM/DD/YYYY)?	11/05/2019		11/05/2019		
Other (describe)					



2020  
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EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
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**TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY**

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information			
	Test Number <sup>SA</sup> 12 CS	Test Number 2 FH	Test Number _____
Test species	C dubia	P promelas	
Age at initiation of test	< 24 hours	< 24 hours	
Outfall number	001	001	
Date sample collected	12/7/20	12/7/20	
Date test started	12/8/20	12/8/20	
Duration	6 days 22 hours	6 days 23 hours	
Toxicity Test Methods			
Test method number	EPA 821 R-02-013 1002.0 (2002)	EPA 821 R-02-013 1000.0 (2002)	
Manual title	Short term methods for estimating the chronic toxicity of effluents		
Edition number and year of publication	4th, October 2002	4th, October 2002	
Page number(s)	141-194	53-111	
Sample Type			
Check one:	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input type="checkbox"/> 24-hour composite
Sample Location			
Check one:	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before disinfection <input type="checkbox"/> After disinfection <input type="checkbox"/> After dechlorination
Point in Treatment Process			
Describe the point in the treatment process at which the sample was collected for each test.	001 - AFTER UV TREATMENT	001 - AFTER UV TREATMENT	
Toxicity Type			
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Both

2020  
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EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004	
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>					
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.					
	Test Number <u>2</u> <u>CD</u>	Test Number <u>2</u> <u>FH</u>	Test Number <u>    </u>		
<b>Test Type</b>					
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through		
<b>Source of Dilution Water</b>					
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water		
If laboratory water, specify type.	<u>20% Dilute Mineral Water</u>	<u>20% Dilute Mineral Water</u>			
If receiving water, specify source.					
<b>Type of Dilution Water</b>					
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)		
<b>Percentage Effluent Used</b>					
Specify the percentage effluent used for all concentrations in the test series.	<u>0/10.25%/12.5%/25%/50%/100%</u>	<u>0/10.25%/12.5%/25%/50%/100%</u>			
<b>Parameters Tested</b>					
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen <input type="checkbox"/> Salinity <input type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input type="checkbox"/> pH <input type="checkbox"/> Salinity <input type="checkbox"/> Dissolved oxygen
<b>Acute Test Results</b>					
Percent survival in 100% effluent		%		%	%
LC50					
95% confidence interval		%		%	%
Control percent survival		%		%	%

2020  
 3 x<sup>15</sup>

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004		
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>						
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.						
	Test Number <u>2</u> <u>CO</u>	Test Number <u>2</u> <u>FH</u>	Test Number <u>    </u>			
<b>Acute Test Results Continued</b>						
Other (describe)						
<b>Chronic Test Results</b>						
NOEC	100 %	%	100 %	%	%	
IC <sub>25</sub>	>100 %	%	>100 %	%	%	
Control percent survival	90 %	%	95 %	%	%	
Other (describe)						
<b>Quality Control/Quality Assurance</b>						
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
What date was reference toxicant test run (MM/DD/YYYY)?	12/01/2020		12/01/2020			
Other (describe)						



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1

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
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**TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY**

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information	Test Number <u>3</u> <u>CO</u>	Test Number <u>3</u> <u>FH</u>	Test Number _____
Test species	C dubia	P promelas	
Age at initiation of test	<u>&lt;24 hours</u>	<u>&lt;24 hours</u>	
Outfall number	001	001	
Date sample collected	<u>10/18/21</u>	<u>10/18/21</u>	
Date test started	<u>10/19/21</u>	<u>10/19/21</u>	
Duration	<u>5 days 23 hours</u>	<u>7 days 0 hours</u>	
<b>Toxicity Test Methods</b>			
Test method number	EPA 821 R-02-013 1002.0 (2002)	EPA 821 R-02-013 1000.0 (2002)	
Manual title	<u>Short term methods for estimating the chronic toxicity of effluents</u>		
Edition number and year of publication	<u>4th, October 2002</u>	<u>4th, October 2002</u>	
Page number(s)	<u>141-194</u>	<u>53-111</u>	
<b>Sample Type</b>			
Check one:	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input type="checkbox"/> 24-hour composite
<b>Sample Location</b>			
Check one:	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before disinfection <input type="checkbox"/> After disinfection <input type="checkbox"/> After dechlorination
<b>Point in Treatment Process</b>			
Describe the point in the treatment process at which the sample was collected for each test.	<u>001 - AFTER UV TREATMENT</u>	<u>001 - AFTER UV TREATMENT</u>	
<b>Toxicity Type</b>			
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Both



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EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004		
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>						
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.						
	Test Number <u>3</u> <u>CO</u>	Test Number <u>3</u> <u>FT</u>	Test Number _____			
<b>Test Type</b>						
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through			
<b>Source of Dilution Water</b>						
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water			
If laboratory water, specify type.	<u>20% Dilute Mineral Water</u>	<u>20% Dilute Mineral Water</u>	<u>Water</u>			
If receiving water, specify source.						
<b>Type of Dilution Water</b>						
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)			
<b>Percentage Effluent Used</b>						
Specify the percentage effluent used for all concentrations in the test series.	<u>0/0.25%/12.5%/25%/48%/100%</u>	<u>0/0.25%/12.5%/25%/100%</u>	<u>100%</u>			
<b>Parameters Tested</b>						
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input type="checkbox"/> pH <input type="checkbox"/> Salinity <input type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input type="checkbox"/> Dissolved oxygen
<b>Acute Test Results</b>						
Percent survival in 100% effluent		%		%	%	
LC <sub>50</sub>						
95% confidence interval		%		%	%	
Control percent survival		%		%	%	

2021  
3

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No 2040-0004
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**TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY**

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number <u>3</u> <u>CS</u>	Test Number <u>3</u> <u>FH</u>	Test Number _____
<b>Acute Test Results Continued</b>			
Other (describe)			
<b>Chronic Test Results</b>			
NOEC	100 %	100 %	%
IC <sub>25</sub>	>100 %	>100 %	%
Control percent survival	100 %	100 %	%
Other (describe)			
<b>Quality Control/Quality Assurance</b>			
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What date was reference toxicant test run (MM/DD/YYYY)?	10/19/2021	10/19/2021	
Other (describe)			

2022

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001
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**TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY**

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information	Test Number <u>4</u> <u>CD</u>	Test Number <u>4</u> <u>FH</u>	Test Number _____
Test species	<u>C dubia</u>	<u>P promelas</u>	
Age at initiation of test	<u>&lt; 24 hours</u>	<u>&lt; 24 hours</u>	
Outfall number	<u>001</u>	<u>001</u>	
Date sample collected	<u>10/19/22</u>	<u>10/19/22</u>	
Date test started	<u>10/20/22</u>	<u>10/20/22</u>	
Duration	<u>5 days 23 hours</u>	<u>6 days 22 hours</u>	
<b>Toxicity Test Methods</b>			
Test method number	<u>EPA 821 R-02-013 1002.0 (2002)</u>	<u>EPA 821 R-02-013 1000.0 (2002)</u>	
Manual title	<u>Short term methods for estimating the chronic toxicity of effluents</u>		
Edition number and year of publication	<u>4th, October 2002</u>	<u>4th, October 2002</u>	
Page number(s)	<u>141-191</u>	<u>53-111</u>	
<b>Sample Type</b>			
Check one:	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input type="checkbox"/> 24-hour composite
<b>Sample Location</b>			
Check one:	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before disinfection <input type="checkbox"/> After disinfection <input type="checkbox"/> After dechlorination
<b>Point in Treatment Process</b>			
Describe the point in the treatment process at which the sample was collected for each test.	<u>001 - AFTER UV TREATMENT</u>	<u>001 - AFTER UV TREATMENT</u>	
<b>Toxicity Type</b>			
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Both

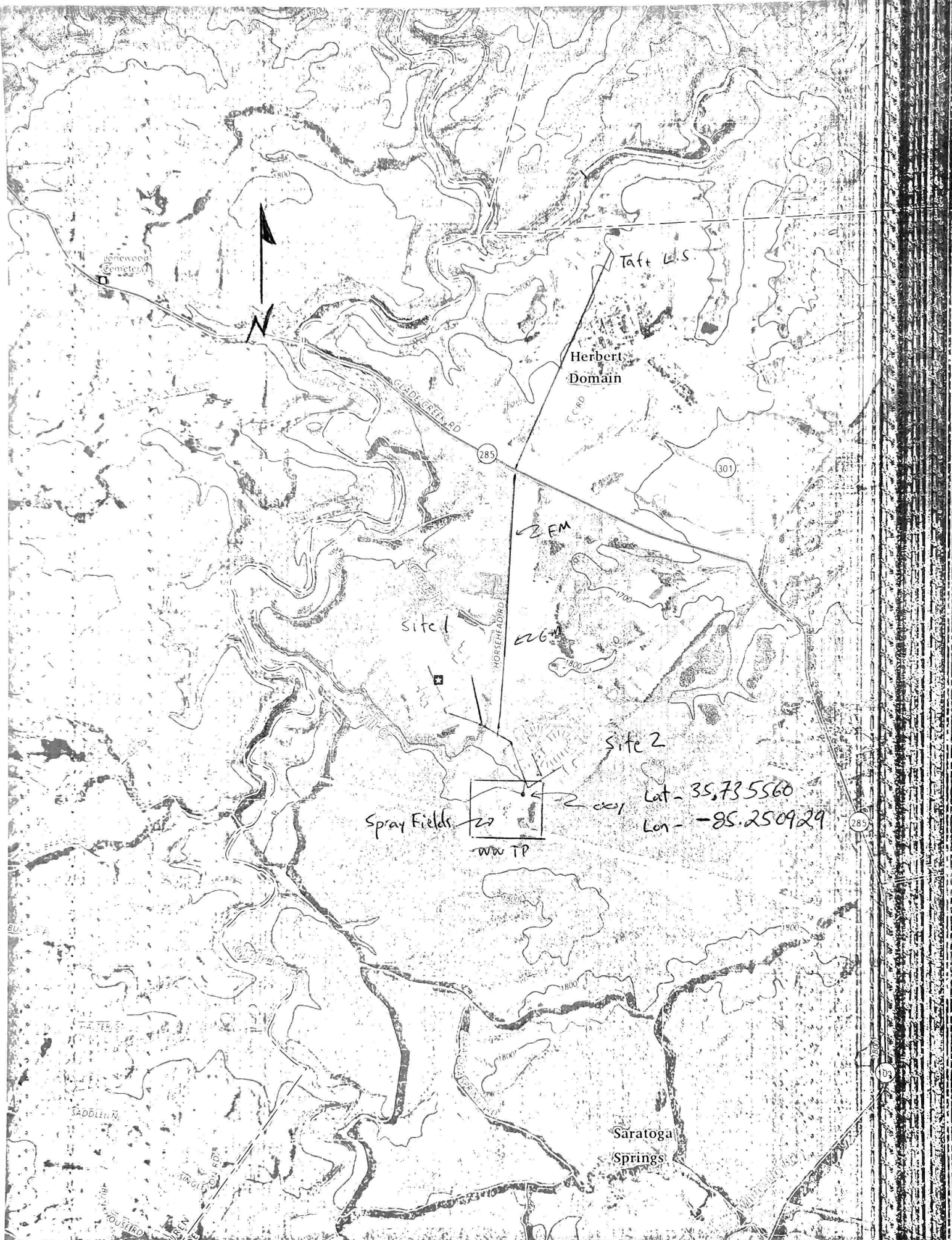


2022  
2

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004	
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>					
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.					
	Test Number <u>4</u> <u>CO</u>	Test Number <u>4</u> <u>FH</u>	Test Number _____		
<b>Test Type</b>					
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through		
<b>Source of Dilution Water</b>					
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water		
If laboratory water, specify type.	<u>20% Dilute Mineral Water</u>	<u>20% Dilute Mineral Water</u>	<u>Water</u>		
If receiving water, specify source.					
<b>Type of Dilution Water</b>					
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)		
<b>Percentage Effluent Used</b>					
Specify the percentage effluent used for all concentrations in the test series.	<u>0/0.25%/12.5%/15%/30%/100%</u>	<u>0/0.25%/12.5%/25%/50%/100%</u>			
<b>Parameters Tested</b>					
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen <input type="checkbox"/> pH <input type="checkbox"/> Salinity <input type="checkbox"/> Temperature	<input type="checkbox"/> Ammonia <input type="checkbox"/> Dissolved oxygen
<b>Acute Test Results</b>					
Percent survival in 100% effluent		%		%	%
LC50					
95% confidence interval		%		%	%
Control percent survival		%		%	%

2022  
3

EPA Identification Number	NPDES Permit Number TN0056626	Facility Name BCCX	Outfall Number 001	Form Approved 03/05/19 OMB No. 2040-0004		
<b>TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY</b>						
The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.						
	Test Number <u>4</u> <u>CD</u>	Test Number <u>4</u> <u>FH</u>	Test Number _____			
<b>Acute Test Results Continued</b>						
Other (describe)						
<b>Chronic Test Results</b>						
NOEC	100 %	%	100 %	%	%	
IC <sub>25</sub>	>100 %	%	>100 %	%	%	
Control percent survival	100 %	%	100 %	%	%	
Other (describe)						
<b>Quality Control/Quality Assurance</b>						
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
What date was reference toxicant test run (MM/DD/YYYY)?	10/4/2022		10/4/2022			
Other (describe)						



Herbwood Cemetery



Taft L.S.

Herbert Domain

285

301

site 1

2 FM

226

site 2

Lat - 35.735560

Lon - -85.250929

Spray Fields

ww TP

285

Saratoga Springs

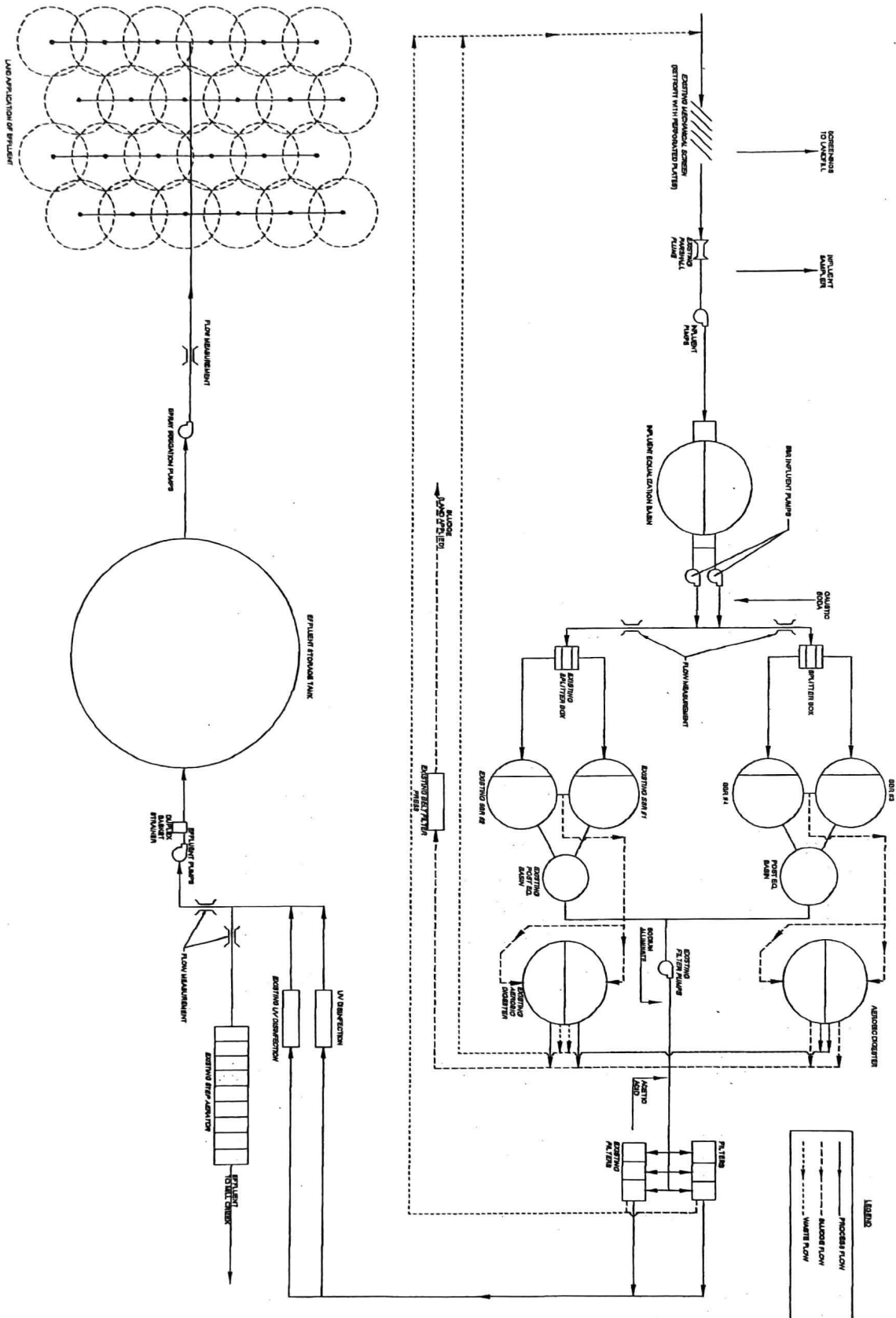
285

SADDLER N.

HOUSTON

SWAIN

SWAIN



**ENGINEERS, INC.**
  
 2254 PINECREEK HILL DRIVE, SUITE 100
   
 BREVILLE, TN 37624
   
 615-834-4326

**WASTEWATER TREATMENT PLANT EXPANSION**  
**BLEDSOE COUNTY CORRECTIONAL COMPLEX**  
 PUEBLO, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142013-01-2013-05

**PROCESS FLOW DIAGRAM**

DESIGN	REVISIONS				
	NO.	DESCRIPTIONS	DATE	BY	APPRO
NH					
DRAWN					
JRH					
CHECKED					
NH					
APPROVED					
NH					

NO.	DESCRIPTIONS	DATE	BY	APPRO



### 2.21.2 APPLICATION RATE

The following calculations are used to determine the irrigation application rate:

- If the previous hour's rainfall rate exceeds 0.016 inches per hour (0.4 inches per day) on-going irrigation will be stopped and no further irrigation will be applied for the succeeding hour.
- If the previous hour's rainfall rate is less than 0.016 inches per hour, the control system will calculate a weighted average previous daily rainfall as follows:
  - The sum of the previous 24 hours of rain will be multiplied by 3.0
  - The sum of the previous hours 25 through 48 of rainfall will be multiplied by 2.0
  - The sum of the previous hours 49 through 72 of rainfall will be multiplied by 1.0
  - The 3 factored sums will then be added together and the total divided by 3.0 to determine the weighted previous day's rainfall.
- The weighted previous day's rainfall will then be subtracted from the 0.4 inches per day to determine the allowed application rate.
  - If the allowed application rate is negative, no irrigation will be applied for the next 24 hours.
  - If the allowed application rate is less than 0.4, a run time factor will be calculated by dividing the allowed application rate by 0.4.
  - The allowed runtime for each zone will be calculated by multiplying the normal allowed runtime for that zone by the run time factor.
- The run time factor will be recalculated prior to beginning irrigation in each time zone.

### 2.21.3 APPLICATION DYNAMICS

The spray irrigation fields follow a sequential operation dynamic. Zones in the North and South spray fields are operated sequentially. For example:

- Zone S-1 and Zone N-1 can be operated at the same time
- Zone S-1 and Zone S-2 cannot be operated at the same time

Based on the allowable applicated rate, multiple zones on each side can be operated within a day, as long as they follow the sequential dynamic.

### 2.22 AEROBIC DIGESTERS

The aerobic digester tanks are CROM prestressed concrete tanks that are divided into two (2) compartments by a center division wall. This will allow half of each tank to be drained for cleaning or repair and allow operational flexibility with half the volume available for use. The influent and effluent piping was installed to allow service to either or both cells. Each tank has a capacity of 450,000 gallons.



## 2.21 SPRAY FIELDS

### 2.21.1 BACKGROUND

Wastewater effluent to be land applied by spray irrigation at BCCX receives the same level of treatment as the effluent discharged into Mill Creek. Therefore, neither nitrogen loading nor organic loading were a limiting issue in determining the amount of land required for disposal. However, calculations were required to account for the effects of precipitation and evaporation.

The design information for the spray fields includes the following data:

- Application rate: 0.25gpd/SF = 0.40 in/day/SF
- Maximum Sprinkler application rate: 0.35 in/hour/SF
- Maximum allowed application time: 68.75 min/day
- Sprinkler flow at 60 psi: 10.6 gal/min
- Daily sprinkler flow: 728.8 gal/day
- Number of sprinklers: 638
- Maximum application: 464,974.8 gal/day

The maximum application rate cannot be continuously applied due to weather constraints.

<b>Spray Field Water Balance Calculations</b>				
<b>Month</b>	<b>P<sub>R</sub>(in/mo)</b>	<b>PET (in/mo)</b>	<b>L<sub>WH</sub> (in/mo)</b>	<b>L<sub>WH</sub> (gpd/ft<sup>2</sup>)</b>
January	7.62	0.10	4.68	0.0941
February	6.72	0.27	5.75	0.1280
March	8.85	0.97	4.32	0.0869
April	6.59	2.30	7.91	0.1644
May	6.13	3.59	9.66	0.1942
June	5.52	4.90	11.58	0.2406
July	6.85	5.44	10.79	0.2170
August	4.73	5.00	12.47	0.2507
September	5.54	3.79	10.45	0.2171
October	4.47	1.98	9.71	0.1952
November	6.11	0.82	6.91	0.1436
December	7.55	0.27	4.92	0.0989
<b>Totals</b>	<b>76.68 in/yr</b>	<b>29.43 in/yr</b>	<b>99.15 in/yr</b>	

P<sub>R</sub> = 5-year Return Monthly Precipitation (from TDEC)

PET = Potential Evapotranspiration (from TDEC)

Perc = Application Rate = 0.25 gpd/ft<sup>2</sup> = 146.4 in/year = 12.20 in/mo

L<sub>WH</sub> = (PET + Perc) - P<sub>R</sub>

$$\text{Area} = Q_Y C / L_{WD}$$

$Q_Y$  = Flow, MG/year

$L_{WD}$  = Design Hydraulic Loading Rate, in/year =  $\Sigma L_{WH}$

$C$  = 36.83 (conversion factor)

$$\text{Area} = (0.315 \text{ mgd}) (365 \text{ days/year}) (36.83) / (99.15 \text{ in/year}) = 42.71 \text{ acres}$$

While these calculations indicate that 42.71 acres are required for the effluent spray irrigation, the calculations do not include any extra area to allow the spray areas to "rest" and do not include any additional area to dispose of stored effluent also while disposing of the daily flow. Since TDEC Design Criteria require 60 days of storage volume, sufficient application area must be included to allow the disposal of the daily flow plus allow the disposal of the stored volume in a reasonable amount of time.

A preliminary soils investigation was conducted on several areas on the BCCX property to determine the most likely areas suitable for surface spray irrigation. None of the areas in the preliminary investigation contained the full amount of contiguous site that was expected to be suitable; however, the largest and apparently most suitable sites were located west of the existing WWTP both north and south of the TVA easement. Both a topographic survey and Extra High Intensity Soils Mapping have been performed on approximately 113 acres in two (2) areas with a net useable area of approximately 65.8 acres. The Area Numbers were assigned based on the areas named for the topographic survey. Area 1 was the WWTP site and Areas 2 and 3 were the areas investigated for soils. The soils areas are listed in the table following:

<b>Soils Areas Investigated</b>		
Area Number	Gross Area (Acres)	Net Area (Acres)
2	36	23.8
3	77	42.0
Totals	113	65.8

It should be noted the net area shown above is greater than the actual area covered by the spray fields. The spray fields were designed to maximize the available area; however, buffers and small or irregular shapes were omitted.

The spray field layout for both Areas 2 and 3 is included in the plans. The area is sufficient for the 0.158 mgd storage volume provided in this project. The storage volume is adequate for 60 days storage for 0.158 mgd; however, the spray fields are adequate for approximately 0.465 mgd. Additional storage and spray fields will be developed to utilize the supplemental area previously investigated prior to expansion of flows beyond current design capacity. Usage over time should verify the actual storage volume necessary.

### 2.21.2 APPLICATION RATE

The following calculations are used to determine the irrigation application rate:

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## 2.22 AEROBIC DIGESTERS

The aerobic digester tanks are CROM prestressed concrete tanks that are divided into two (2) compartments by a center division wall. This will allow half of each tank to be drained for cleaning or repair and allow operational flexibility with half the volume available for use. The influent and effluent piping was installed to allow service to either or both cells. Each tank has a capacity of 450,000 gallons.

**Bledsoe County Correctional Complex  
Land Application System - Maximum Allowed Application Rate**

Application Rate (Gal/SF/Day) =	0.25	0.40 in/SF/Day
Maximum Sprinkler Application Rate =		0.35 in/SF/Day
Maximum Allowed Application Time =		68.75 min/day
Sprinkler Flow at 60 psi =		10.6 gal/min
Daily Sprinkler Flow =		728.80 gal/day

<b>Zone</b>	<b>Heads Each</b>	<b>Max. Application Gal/Day</b>
N-1	62	45,185.6
N-2	58	42,270.4
N-3	53	38,626.4
N-4	55	40,084.0
S-1	46	33,524.8
S-2	50	36,440.0
S-3	52	37,897.6
S-4	61	44,456.8
S-5	54	39,355.2
S-6	54	39,355.2
S-7	53	38,626.4
S-8	40	29,152.0
	<b>638</b>	<b>464,974.8</b>

BCCX Wastewater Treatment Plant

TN0056626

January 20, 2023

Addendum to NPDES permit application.

#### Alternatives Analysis

Option 1 – No action, continue to discharge wastewater effluent to Mill Creek at Mile 1.0 to Glade Creek at mile 3.8.

Option 2 – Pump the wastewater plant effluent to a nearby wastewater system.

Option 3 – Land apply wastewater effluent to a constructed spray field.

Option 4 – Reuse and recycle wastewater effluent on facility grounds.

For a variety of reasons (primarily economic), we choose a combination of option 1 and option 3.

NPDES Permit Application Addendum

BLEDSON COUNTY CORRECTIONAL COMPLEX  
1045 HORSEHEAD LANE  
PIKEVILLE TN 37367  
TN0056626  
BLEDSON COUNTY

1.14

WASTEWATER APPLIED TO LAND

In the previous CIP (completed in 2022) a 42.7-acre spray field was constructed. Presented below are notes received from Mr. Neal Hall (CTI) who was the chief engineer assigned to the project.

'According to the DDR, the max field application is 464,975 gpd. The following information was copied from the Design Development Report.

8 - Land Application of Effluent

Wastewater effluent to be land applied by spray irrigation at BCCX will receive the same level of treatment as the effluent discharged into Mill Creek. Therefore, neither nitrogen loading nor organic loading will be a limiting issue in determining the amount of land required for disposal. However, calculations must be made which account for the effects of precipitation and evaporation. The design information contained in Appendix G includes the following data:

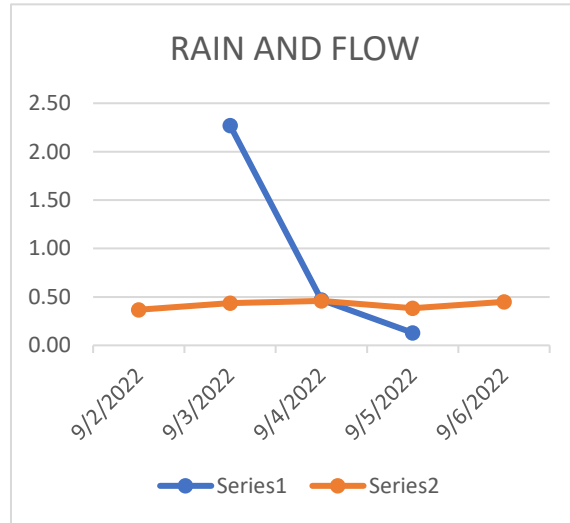
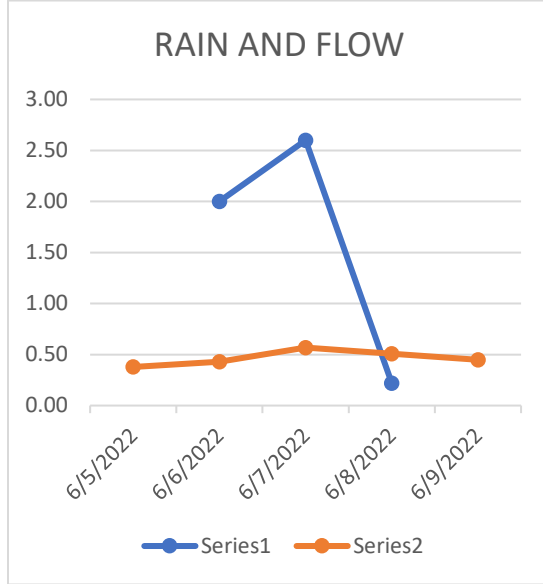
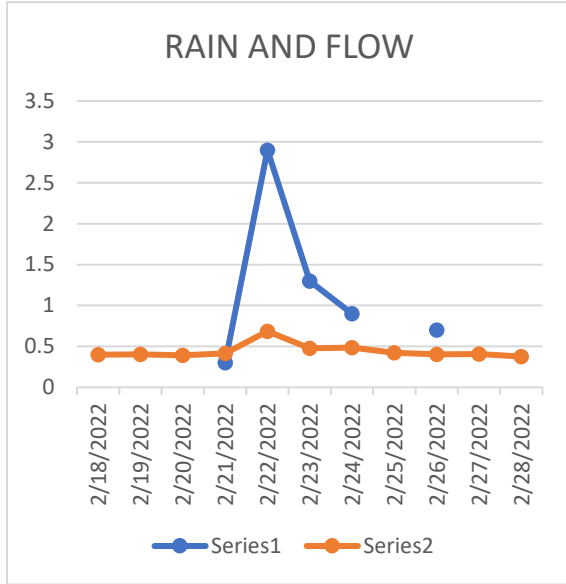
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- Number of sprinklers: 638
- Maximum application: 464,974.8 gal/day

The maximum application rate cannot be continuously applied due to weather constraints."

Neal Hall, PE'

2.2

INFLOW AND INFILTRATION



Significant rain events occurred from 2-21-22 to 2-24-22; 6-5-22 to 6-9-22; and 9-2-22 TO 9-6-22. The rain data shown on the blue line did not significantly increase the flow data shown on the red line. This shows (at the present time) that there is not a significant influence on flow from I/I.

### 3.3

#### SEASONAL OR PERIODIC DISCHARGE DATA

During the first 9 months of 2022, treated wastewater was discharged to the 001 outfall 32 days, while treated wastewater was discharged to the storage tank (and ultimately sprayed onto the spray fields) 115 days.

### 3.8

#### TREATMENT DESCRIPTION

The NPDES permit does not indicate a % removal for CBOD, TSS, or NH<sub>3</sub>-N. A value of 85% was used in the application.

#### OTHER

The NPDES permit requires E coli to be reported as an average, not a geometric mean.

The NPDES permit mentions that flow should be split between the 001 outfall and the spray fields and both discharges shall not exceed 0.315 MGD. The permit should allow for the maximum discharge of 0.465 MGD to the spray fields.