



700 West Liberty Street | Louisville, KY 40203-1911
Phone: 502.540.6000 | LouisvilleMSD.org

October 20, 2025

Crystal Dennis
Permit Support Section
Surface Water Permits Branch
Division of Water
200 Fair Oaks Lane 4th Floor
Frankfort, KY 40601

Re: Morris Forman Water Quality Treatment Center
KPDES Permit No. KY0022411

Dear Ms. Dennis:

In accordance with the provisions of the KPDES Permit referenced above, the monthly Discharge Monitoring Report (DMR), and monthly Discharge (overflow) Report for the reporting period September 1st through September 30th, 2025, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30-day TSS and BOD, 7-day TSS and BOD, 7 Day Fecal Coliform and TSS percent removal reporting requirements.

MSD operates solids dewatering at both Hite Creek and Derek Guthrie WQTC's. Overall, this has reduced the solids loading to the Morris Forman plant. However, compromised solids handling equipment at Morris Forman continue to contribute to our effluent exceedances. Morris Forman currently has several process improvement projects in progress. The Dryer replacement project has been completed. A Dissolved Air Flotation Thickening (DAFT) rehabilitation project has been awarded. Demolition continues to make way for the Thermal Hydrolysis Process (THP), and due to the Primary Sedimentation Project, Sedimentation Basins 1 and 2 have taken out of service for the installation of new valves, gates, and bridges.

Should you have any questions, please contact me at (502) 540-6765.

Sincerely,

James Skinner
Director of Treatment Facilities

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit																											
Permit #:		KY0022411				Permittee:				Morris Forman WQTC MSD				Facility:				MORRIS FORMAN WQTC MSD									
Major:		Yes				Permittee Address:				700 W Liberty St Louisville, KY 40203				Facility Location:				4522 ALGONQUIN PKWY LOUISVILLE, KY 40211									
Permitted Feature:		001 External Outfall				Discharge:				001-B SECONDARY BYPASS																	
Report Dates & Status																											
Monitoring Period:						From 09/01/25 to 09/30/25						DMR Due Date:				10/28/25				Status:				NetDMR Validated			
Considerations for Form Completion																											
MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.1 - FINAL EFFLUENTF - SECONDARY BYPASS AFTER PRIMARYTREATMENT.																											
Principal Executive Officer																											
First Name:						James A.				Title:				Executive Director				Telephone:				502-540-6000					
Last Name:						Parrott																					
No Data Indicator (NODI)																											
Form NODI: --																											
Code	Parameter		Monitoring Location	Season #	Param. NODI	Sample	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type								
	Name						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units						
00310	BOD, 5-day, 20 deg. C		1 - Effluent Gross	0	--	Sample							=	83.0	=	180.0	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
00310	BOD, 5-day, 20 deg. C		F - Primary/Preliminary Process Complete	0	--	Sample							=	178.0	=	218.0	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
00530	Solids, total suspended		1 - Effluent Gross	0	--	Sample							=	196.0	=	480.0	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
00530	Solids, total suspended		F - Primary/Preliminary Process Complete	0	--	Sample							=	209.0	=	276.0	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
00610	Nitrogen, ammonia total [as N]		1 - Effluent Gross	0	--	Sample							=	11.0	=	17.9	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
00610	Nitrogen, ammonia total [as N]		F - Primary/Preliminary Process Complete	0	--	Sample							=	15.5	=	29.4	19 - mg/L	0	06/30 - Six Per Month WH/DS - When Discharging	CP - Composite CP - Composite							
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L											
					Value NODI																						
50050	Flow, in conduit or thru treatment plant		F - Primary/Preliminary Process Complete	0	--	Sample	=	24.9	=	19.8	03 - MGD							0	06/30 - Six Per Month WH/DS - When Discharging	CN - Continuous CN - Continuous							
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD																	
					Value NODI																						

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Morris Forman WQTC MSD

User: BURCH@LOUISVILLEMSD.ORG
Name: Robin Burch
E-Mail: robin.burch@louisvillemmsd.org
Date/Time: 2025-10-20 13:15 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
Name: James skinner
E-Mail: james.skinner@louisvillemmsd.org
Date/Time: 2025-10-21 12:27 (Time Zone: -04:00)

Format: Month/Day/Year
 Enter Start Date: 9/1/25

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF September-25
 KPDES PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM-OHIO RIVER

DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (M/L)		TSS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			RETURN SLUDGE					AERATION BASIN					ACTIVE		CHLORINATION			FINAL EFFLUENT	
	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim. final	final	FLOW MG	TSS g/L	TVSS g/L	D.O. mg/L	MLSS g/L	MLVSS g/L	SET	SVI	Sludge Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours		
																															raw	final
9/1/25	45.12	45.12	0.00	75	75	7.2	6.5	2	0.1	184	93	6.6	144	210	39	8.6	24.7	18.7	3.7	5.9	13.7	332	44	0.1746	0.0000	2.89	0.016	13	13.6	0		
9/2/25	51.08	51.08	0.00	75	75	7.3	6.6	3.5	0.5	350	157	6.4	187	219	49	10.7	25.1	19.1	11.7	6.2	14.3	301	49	0.3721	0.0587	2.71	0.016	16	21.2	0		
9/3/25	41.40	41.40	0.00	76	76	7.3	6.6	7	0.5	393	51	7.4	254	274	33	12.6	22.6333	17.4	9.2	5.8	13.4	323	52	0.3330	0.1491	2.63	0.016	20	23.9	0		
9/4/25	96.99	96.99	0.00	75	75	7.1	6.6	9	0.2	464	87	6.1	309	158	34	21.8	26.0667	19.8	14.0	6.0	13.6	150	51	0.3605	0.1774	4.07	0.016	500	17.9	0		
9/5/25	56.67	56.67	0.00	75	75	7.2	6.6	4.5	0.2	170	28	6.5	250	195	18	22.5	22.6333	17.3	6.8	6.0	13.8	184	51	0.2192	0.1943	2.98	0.016	20	17.9	0		
9/6/25	48.42	48.42	0.00	75	75	7.1	6.7	3	0.2	212	28	6.1	299	248	20	22.6	24.3667	18.7	4.6	3.5	8.1	402	52	0.0005	0.1205	3.05	0.016	20	21.6	0		
9/7/25	45.41	45.41	0.00	73	73	7.2	6.6	4	0.1	190	24	6.4	262	222	15	22.5	28.5	23.9	4.6	3.0	4.3	308	57	0.0005	0.0768	2.56	0.016	13	21.9	0		
9/8/25	53.50	53.50	0.00	70	70	7.2	6.6	5	0.1	212	29	5.8	252	227	15	21.5	29.15	22.9	5.5	4.0	6.4	287	57	0.1180	0.1120	2.92	0.016	12	23	0		
9/9/25	55.26	55.26	0.00	72	72	7.1	6.6	6	0.1	260	40	4.9	255	226	15	21.5	24.65	19.3	5.0	3.4	5.4	252	56	0.1775	0.1059	2.66	0.016	8	24.6	0		
9/10/25	50.36	50.36	0.00	72	72	7.1	6.7	7.5	0.1	284	26	5.6	281	238	11	21.5	28.7	22.9	7.7	3.0	4.7	303	56	0.1342	0.1103	2.55	0.016	4	27.6	0		
9/11/25	50.04	50.04	0.00	76	76	7	6.6	9	0.1	280	22	6.0	332	298	12	21.5	17.55	13.9	8.0	5.4	8.5	284	58	0.4224	0.0793	2.49	0.016	8	29	0		
9/12/25	46.61	46.61	0.00	76	76	7.2	6.6	8	0.1	258	28	5.7	329	307	17	21.8	29.4	23.5	8.8	3.9	6.2	290	58	0.3011	0.0714	2.58	0.016	4	24.6	0		
9/13/25	71.33	71.33	0.00	76	76	7.1	6.5	4.5	0.1	238	22	4.8	299	310	14	22.1	18.3	14.6	4.6	3.6	5.8	334	58	0.0007	0.0983	2.85	0.016	20	23.9	0		
9/14/25	51.68	51.68	0.00	77	77	6.9	6.6	1.5	0.1	172	46	5.8	204	190	25	22.1	20.75	16.6	7.0	3.5	5.4	387	54	0.0007	0.0854	3.30	0.016	12	13.4	0		
9/15/25	50.08	50.08	0.00	76	76	7	6.4	9	0.1	104	16	6.7	245	200	14	22.0	20.05	16.4	10.2	4.1	6.4	303	57	0.2930	0.0777	2.68	0.016	7	15.2	0		
9/16/25	48.59	48.59	0.00	76	76	7	6.6	10	0.1	296	31	5.7	442	307	18	21.0	27.5	22.7	5.6	3.7	5.9	372	58	0.3546	0.1298	2.58	0.016	4	22.5	0		
9/17/25	47.27	47.27	0.00	77	77	7	6.6	6	0.1	436	13	5.1	465	466	22	20.5	24.35	20.0	2.7	3.2	5.2	347	59	0.4072	0.1265	2.55	0.016	4	23.9	0		
9/18/25	47.53	47.53	0.00	78	78	7	6.6	9	0.1	306	58	5.6	378	464	45	20.6	20.9	17.4	0.9	3.3	5.4	385	61	0.4241	0.1364	2.46	0.016	4	24.3	0		
9/19/25	48.33	48.33	0.00	77	77	6.9	6.6	8	0.2	412	78	4.6	567	342	68	20.6	28.5	23.5	2.2	3.0	5.1	422	63	0.2666	0.1269	2.71	0.016	23	25.8	0		
9/20/25	46.65	46.65	0.00	76	76	7.2	6.6	4.5	13.5	208	488	4.8	286	454	232	15.4	24.5	20.5	0.3	3.3	5.6	483	65	0.0007	0.1035	3.15	0.016	423	21.3	0		
9/21/25	69.71	58.41	11.30	77	77	6.9	6.6	6.5	15.5	476	480	5.7	205	218	180	11.2	32.75	27.1	5.8	2.0	3.2	375	65	0.0007	0.0924	3.31	0.016	148	12.4	0		
9/22/25	94.87	65.82	29.05	73	73	7	6.4	5	2.5	268	252	5.8	185	176	83	10.4	31.35	25.9	8.1	3.0	5.0	341	64	0.3345	0.0585	3.56	0.016	359	9.9	0		
9/23/25	95.40	73.44	21.96	74	74	6.9	6.5	2.5	1.5	264	200	4.8	193	158	90	10.3	26.8	22.3	10.8	8.1	13.4	320	60	0.2730	0.1048	3.43	0.016	452	9.8	0		
9/24/25	103.90	75.81	28.09	75	75	7.1	6.6	4	1	150	110	4.5	183	193	79	10.2	27.55	23.3	11.5	3.6	6.0	187	59	0.1803	0.0904	3.51	0.016	4500	10.2	0		
9/25/25	121.44	74.85	46.59	74	74	6.9	6.6	6	1.8	186	162	5.4	126	121	68	10.1	21.75	17.9	13.9	4.0	6.2	321	56	0.3117	0.0687	3.78	0.016	780	7.2	0		
9/26/25	86.51	73.94	12.57	72	72	7.1	6.6	6	0.5	306	78	5.9	396	221	46	10.4	34.9	28.6	12.7	6.3	10.2	202	59	0.2029	0.1101	2.96	0.016	400	9.7	0		
9/27/25	55.15	55.15	0.00	73	73	7.2	6.6	3.5	0.1	143	84	6.0	266	235	37	10.7	26.7	21.7	6.3	4.4	7.1	210	60	0.0006	0.1056	2.33	0.016	80	9.2	0		
9/28/25	51.27	51.27	0.00	74	74	7.2	6.6	6.5	0.3	222	55	6.8	252	226	23	10.8	24.65	20.5	10.7	4.0	6.8	217	58	0.0006	0.0993	2.22	0.016	24	14.9	0		
9/29/25	53.67	53.67	0.00	76	76	7.2	6.5	5	0.1	232	60	6.2	313	245	26	10.8	24.95	20.4	7.1	3.8	6.2	248	61	0.3207	0.1309	2.53	0.016	13	13.5	0		
9/30/25	50.75	50.75	0.00	76	76	7.2	6.6	5	0.1	196	28	6.7	285	230	19	10.8	26.95	21.9	6.9	4.9	7.9	267	64	0.2753	0.1469	2.58	0.016	12	20	0		
SUM	1835.0	1685.4	149.6													499.3																0.0
Average	61.17	56.18	24.93	75	75	7.1	6.6	5.7	1.3	262	96	5.8	281	253	46	16.6	25.6	20.6	7.2	4.2	7.6	305	57.4	0.2087	0.105	2.89	0.016	32	18.5	0.0		

SEWER CONNECTIONS 148624 TIMES 4 = 594496 SEWER POPULATION
 148537
 IND. WASTER POPULATION EQ
 CUSTOMERS 405
 FLOW 405 433916
 BOD 249754
 TSS 48486

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Sep-25

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	61.17	50.22	20.59	11.28
Tanks in Service	2.00	8.0	7.9	3.9
Surface Area (Ft.2)	38500.00	69200.00	68706.37	34007.23
Volume (MG)	4.17	7.09	7.04	3.48
Weir Length (Ft.)	1430.00	2868.00	2847.54	1409.43
Avg. Weir Overflow (GPD/Ft)	42773.92	17510.46	7231.25	7999.69
Avg. Settling Rate (GPD/Ft2)	1588.75	211.60	417.05	419.01
Avg. Detention Time	1.63	3.39	8.20	7.41

AERATION TANKS	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	14.64	28.65	14.25
Avg. Detention Time (Hours)	2.01	4.90	4.47

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.46

Remarks: BY-PASS REPORTS (See Attached)



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0022411	WQTCMF	MORRIS FORMAN WQTC	OHIO RIVER	JEFFERSON

Facility Type	Facility ID	Facility Address	Receiving Stream	Discharge To
Sewer Manhole	16649	1726 FRASER DR	SOUTH FORK BEARGRASS CREEK	DITCH

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	4001299		9/24/2025 11:45:00 PM	DAVIS BROWN		DOCUMENTED	1/24/2002 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	09/26/25 12:00 AM	MAIN

Discharge Reporting:

Discharge Amount:	94 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO THE SIZE OF THE CREEK AND DIFFICULTY ACCESSING DISCHARGE AREAS.
Impact:	NONE OBSERVED OVERFLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

Notifications:

9/25/25 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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IMSAST0004
Overflow Report
9/1/2025 12:00:00 AM to 9/30/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0022411	WQTCMF	MORRIS FORMAN WQTC	OHIO RIVER	JEFFERSON

Facility Type	Facility ID	Facility Address	Receiving Stream	Discharge To
Sewer Manhole	92009	4800 SPRINGDALE RD	LITTLE GOOSE CREEK	STREAM

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3994301		9/11/2025 9:30:00 AM	FERRELL		REPAIRED - ISSUE RESOLVED	9/11/2025 12:00:00 AM	OBSTRUCTION-NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE-WATERS	09/11/25 01:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	5,250 GAL
Cause:	OBSTRUCTION IN MAIN SEWER.
Clean Up:	MSD PERSONNEL WILL CLEAN AND SANITIZE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS ON SITE/MSD PERSONNEL ADVISED THE CUSTOMER TO AVOID CONTACT WITH SEWAGE.
Impact:	SEWAGE/WATER AROUND MANHOLE.
Repair:	FLUSHED MAIN SEWER 3994302.
Public Notification:	ADVISED CUSTOMER ON SITE.

Notifications:

9/12/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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IMSAST0004
Overflow Report
9/1/2025 12:00:00 AM to 9/30/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0022411	WQTCMF	MORRIS FORMAN WQTC	OHIO RIVER	JEFFERSON

Facility Type	Facility ID	Facility Address	Receiving Stream	Discharge To
Sewer Manhole	CSO038	510 W BROADWAY	OHIO RIVER	

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3994146		9/10/2025 12:00:00 AM	DAVIS BROWN		REPAIRED - ISSUE RESOLVED	9/11/2025 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE- WATERS	09/11/25 01:30 AM	MAIN

Discharge Reporting:

Discharge Amount:	105,830 GAL
Cause:	ROBINSON PIPE MSD CONTRACTOR WORKING ON MSD SANITARY LINE REPORTED BLADDER. DEFLATED CAUSING DISCHARGE.
Clean Up:	NOT REQUIRED DISCHARGED TO CRD DIRECTLY TO OHIO RIVER.
Control Zone:	NO CONTROL ZONE WAS SET- CRD DISCHARGE DIRECTLY TO OHIO RIVER.
Impact:	NONE OBSERVED OVERFLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM. DURING SITE VISIT CONTRACTOR ADVISED BLADDER FAILURE.
Repair:	NONE REQUIRED AT THIS TIME.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE RIVER, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

9/11/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
9/11/25 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION