

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BACK RIVER WWTP

ADDRESS: 8201 EASTERN AVENUE
BALTIMORE, MD 21224

FACILITY: BACK RIVER WWTP

LOCATION: 8201 EASTERN AVENUE
BALTIMORE COUNTY, MD 21224

ATTN: NICHLOS H. FRANKOS, PLT. MGR.

MD0021555	001-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
02/01/2025	02/28/2025

DMR Mailing ZIP CODE: 21202

MAJOR \$

(SUBR MD)

15-DP-0581

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	7.3	*****	*****	mg/L		Three per Day	Grab
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	5 INST MIN	*****	*****	mg/L		Three per Day	Grab
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	8.6	*****	*****	mg/L		Three per Day	Grab
00300 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MN WK AV	*****	*****	mg/L		Three per Day	Grab
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	3648	5254	lb/d	*****	3	4	mg/L		Daily	24 Hour Composite
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	11000 MX MO AV	16000 MX WK AV	lb/d	*****	10 MX MO AV	15 MX WK AV	mg/L		Daily	24 Hour Composite
pH	SAMPLE MEASUREMENT	*****	*****	*****	7	*****	7.8	SU		Three per Day	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM	*****	8.5 MAXIMUM	SU		Three per Day	Grab
Solids, total suspended	SAMPLE MEASUREMENT	2126	4186	lb/d	*****	2	3	mg/L		Daily	24 Hour Composite
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	11000 MX MO AV	16000 MX WK AV	lb/d	*****	10 MX MO AV	15 MX WK AV	mg/L		Daily	24 Hour Composite
Solids, total suspended	SAMPLE MEASUREMENT	*****	59531	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00530 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Solids, total suspended	SAMPLE MEASUREMENT	*****	82496	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00530 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	3959228 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.	Rayford McEachern		TELEPHONE		DATE	
Khalil Zaid/ Director of Public Works		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		(410)396-9820		03/28/2025	
TYPED OR PRINTED				AREA Code	NUMBER	MM/DD/YYYY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The February 2025 cover letter, discharge monthly report and monthly operations report are attachments with this submission.

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Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.7	*****	mg/L		Monthly	Calculated
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	mg/L		Monthly	Calculated
Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	130976	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00600 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	1582055 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated
Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	81266	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00600 EG 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Nitrogen, organic total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.2	*****	mg/L		Daily	24 Hour Composite
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	mg/L		Daily	24 Hour Composite
Nitrogen, ammonia total [as N]	SAMPLE MEASUREMENT	1084	*****	lb/d	*****	1	*****	mg/L		Daily	24 Hour Composite
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	5229 MX MO AV	*****	lb/d	*****	5.1 MX MO AV	*****	mg/L		Daily	24 Hour Composite
Nitrite + Nitrate total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	.5	*****	mg/L		Daily	24 Hour Composite
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	mg/L		Daily	24 Hour Composite
Phosphorus, total [as P]	SAMPLE MEASUREMENT	102	112	lb/d	*****	.09	.11	mg/L		Daily	24 Hour Composite
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	220 MX MO AV	330 MX WK AV	lb/d	*****	.2 MX MO AV	.3 MX WK AV	mg/L		Daily	24 Hour Composite

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Phosphorus, total [as P]	SAMPLE MEASUREMENT	*****	2851	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00665 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Phosphorus, total [as P]	SAMPLE MEASUREMENT	*****	5320	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00665 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	79277 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated
Cyanide, free [amenable to chlorination]	SAMPLE MEASUREMENT	*****	*****	*****	*****	< 4	*****	ug/L		Monthly	Grab
00722 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	ug/L		Monthly	Grab
Phosphate, ortho [as P]	SAMPLE MEASUREMENT	*****	*****	*****	*****	.05	*****	mg/L		Twice per Month	24 Hour Composite
04175 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	mg/L		Twice per Month	24 Hour Composite
Chlordane [tech mix. and metabolites]	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	< .2	ug/L		Monthly	24 Hour Composite
39350 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. TOTAL	ug/L		Monthly	24 Hour Composite
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	129.3	166	MGD	*****	*****	*****	*****		Continuous	Recorder (auto)
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Continuous	Recorder (auto)
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	< .1	mg/L		Three per Day	Grab
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	.1 MAXIMUM	mg/L		Three per Day	Grab

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
E. coli	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	4	MPN/100m L		Daily	Grab
51040 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	126 MX MO GMN	MPN/100m L		Daily	Grab
Chromium, hexavalent tot recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	.38	*****	mg/L		Monthly	Grab
78247 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. VALUE	*****	mg/L		Monthly	Grab
Flow, total	SAMPLE MEASUREMENT	*****	3620.5	Mgal/mo	*****	*****	*****	*****		Continuous	Recorder (auto)
82220 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. TOTAL	Mgal/mo	*****	*****	*****	*****		Continuous	Recorder (auto)

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	7.7	*****	*****	mg/L		Three per Day	Grab
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	5 INST MIN	*****	*****	mg/L		Three per Day	Grab
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	8.2	*****	*****	mg/L		Three per Day	Grab
00300 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MN WK AV	*****	*****	mg/L		Three per Day	Grab
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	57	124	lb/d	*****	< 2	< 2	mg/L		Daily	24 Hour Composite
00310 1 1 Effluent Gross	PERMIT REQUIREMENT	12520 MX MO AV	18770 MX WK AV	lb/d	*****	30 MX MO AV	45 MX WK AV	mg/L		Daily	24 Hour Composite
pH	SAMPLE MEASUREMENT	*****	*****	*****	7	*****	7.8	SU		Three per Day	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM	*****	8.5 MAXIMUM	SU		Three per Day	Grab
Solids, total suspended	SAMPLE MEASUREMENT	100	104	lb/d	*****	1	2	mg/L		Daily	24 Hour Composite
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	12520 MX MO AV	18770 MX WK AV	lb/d	*****	30 MX MO AV	45 MX WK AV	mg/L		Daily	24 Hour Composite
Solids, total suspended	SAMPLE MEASUREMENT	*****	2190	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00530 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Solids, total suspended	SAMPLE MEASUREMENT	*****	4044	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00530 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	4589026 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated

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The February 2025 cover letter, discharge monitoring report and monthly operations report are attachments with this submission. On Monday, February 17, 2025, at 7:15 a.m., flow to Outfall 002 was shut down at the request of Tradepoint Atlantic. The request was made due to pumping issues. During this shutdown period, there was no effect on plant operations. Flow to Outfall 002 resumed on February 24, 2025.

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Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.6	*****	mg/L		Monthly	Calculated
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	mg/L		Monthly	Calculated
Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	7667	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00600 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	610748 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated
Nitrogen, total [as N]	SAMPLE MEASUREMENT	*****	4331	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00600 EG 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Nitrogen, organic total [as N]	SAMPLE MEASUREMENT	83.9	*****	lb/d	*****	1.1	*****	mg/L		Daily	24 Hour Composite
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO LOAD	*****	lb/d	*****	Req. Mon. MO AVG	*****	mg/L		Daily	24 Hour Composite
Nitrogen, ammonia total [as N]	SAMPLE MEASUREMENT	87	*****	lb/d	*****	1.1	*****	mg/L		Daily	24 Hour Composite
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	2130 MX MO AV	*****	lb/d	*****	5.1 MX MO AV	*****	mg/L		Daily	24 Hour Composite
Nitrite + Nitrate total [as N]	SAMPLE MEASUREMENT	25.7	*****	lb/d	*****	.4	*****	mg/L		Daily	24 Hour Composite
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO LOAD	*****	lb/d	*****	Req. Mon. MO AVG	*****	mg/L		Daily	24 Hour Composite
Phosphorus, total [as P]	SAMPLE MEASUREMENT	7	7	lb/d	*****	.1	.1	mg/L		Daily	24 Hour Composite
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	83 MO AVG	125 WKLY AVG	lb/d	*****	.2 MO AVG	.3 WKLY AVG	mg/L		Daily	24 Hour Composite

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Phosphorus, total [as P]	SAMPLE MEASUREMENT	*****	156	lb/mo	*****	*****	*****	*****		Monthly	Calculated
00665 1 1 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. TOTAL	lb/mo	*****	*****	*****	*****		Monthly	Calculated
Phosphorus, total [as P]	SAMPLE MEASUREMENT	*****	325	lb/yr	*****	*****	*****	*****		Monthly	Calculated
00665 1 2 Effluent Gross	PERMIT REQUIREMENT	*****	30363 CUM TOTL	lb/yr	*****	*****	*****	*****		Monthly	Calculated
Cyanide, free [amenable to chlorination]	SAMPLE MEASUREMENT	*****	*****	*****	*****	8.7	*****	ug/L		Monthly	Grab
00722 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	*****	ug/L		Monthly	Grab
Phosphate, ortho [as P]	SAMPLE MEASUREMENT	*****	4	lb/d	*****	.06	*****	mg/L		Weekly	24 Hour Composite
04175 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. MO LOAD	lb/d	*****	Req. Mon. MO AVG	*****	mg/L		Weekly	24 Hour Composite
Chlordane [tech mix. and metabolites]	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	< .5	ug/L		Monthly	24 Hour Composite
39350 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. TOTAL	ug/L		Monthly	24 Hour Composite
Endrin	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	< .02	ug/L		Monthly	24 Hour Composite
39390 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. TOTAL	ug/L		Monthly	24 Hour Composite
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	7	10.7	MGD	*****	*****	*****	*****		Continuous	Recorder (auto)
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Continuous	Recorder (auto)

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The February 2025 cover letter, discharge monitoring report and monthly operations report are attachments with this submission. On Monday, February 17, 2025, at 7:15 a.m., flow to Outfall 002 was shut down at the request of Tradepoint Atlantic. The request was made due to pumping issues. During this shutdown period, there was no effect on plant operations. Flow to Outfall 002 resumed on February 24, 2025.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BACK RIVER WWTP
ADDRESS: 8201 EASTERN AVENUE
BALTIMORE, MD 21224
FACILITY: BACK RIVER WWTP
LOCATION: 8201 EASTERN AVENUE
BALTIMORE COUNTY, MD 21224

MD0021555	002-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
02/01/2025	02/28/2025

DMR Mailing ZIP CODE: 21202

MAJOR \$

(SUBR MD)

15-DP-0581, TOXIC REPORTING REQUIRED

External Outfall

No Discharge ☐

ATTN: NICHLOS H. FRANKOS, PLT. MGR.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2.4	mg/L		Three per Day	Grab
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. MAXIMUM	mg/L		Three per Day	Grab
E. coli	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1	MPN/100m L		Daily	Grab
51040 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	126 MX MO GMN	MPN/100m L		Daily	Grab
Flow, total	SAMPLE MEASUREMENT	*****	194.7	Mgal/mo	*****	*****	*****	*****		Continuous	Recorder (auto)
82220 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. TOTAL	Mgal/mo	*****	*****	*****	*****		Continuous	Recorder (auto)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.	Rayford McEachern		TELEPHONE		DATE	
Khalil Zaid/ Director of Public Works		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		(410)396-9820		03/28/2025	
TYPED OR PRINTED				AREA Code	NUMBER	MM/DD/YYYY	

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