

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
PERMITS SECTION
235 PROMENADE STREET
PROVIDENCE, RHODE ISLAND 02908-5767

PUBLIC NOTICE OF PROPOSED PERMIT ACTIONS UNDER THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PROGRAM WHICH REGULATES DISCHARGES INTO THE WATERS OF THE STATE UNDER CHAPTER 46-12 OF THE RHODE ISLAND GENERAL LAWS OF 1956, AS AMENDED.

DATE OF NOTICE: February 9, 2024

PUBLIC NOTICE NUMBER: PN 24-01

DRAFT RIPDES PERMITS

RIPDES PERMIT NUMBER: RI0100366

NAME AND MAILING ADDRESS OF APPLICANT:

Town of Jamestown
P.O. Box 377
Jamestown, Rhode Island 02835

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Jamestown Wastewater Treatment Facility
Taylor Point
Jamestown, Rhode Island 02835

RECEIVING WATER: Narragansett Bay (Waterbody ID #:RI0007029E-01F)

RECEIVING WATER CLASSIFICATION: SB1

The facility, which is the source of the discharge, is located in Jamestown and is engaged in the treatment of domestic and commercial sewage from the sanitary sewer system in the Town of Jamestown. On June 1, 2021, the facility reapplied to the Rhode Island Department of Environmental Management for reissuance of an individual RIPDES permit to discharge water from the treatment plant, which includes the use of the following equipment: coarse screening, grit removal using an aerated grit chamber, extended aeration, secondary clarification, and chlorination. The discharge of treated effluent is made to Narragansett Bay through outfall 001A. The permit includes limits to ensure that the discharge will not cause a water quality violation.

The draft permit contains new requirements for monitoring perfluorinated compounds, additional monitoring of Nitrogen parameters, more stringent limits for biotoxicity, the submittal of a resiliency plan, and inspection of the facility's outfall.

RIPDES PERMIT NUMBER: RI0100196

NAME AND MAILING ADDRESS OF APPLICANT:

New Shoreham Sewer Commission & New Shoreham Water Commission
P.O. Drawer 774
Block Island, RI 02807

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

New Shoreham Water Pollution Control Facility
20 Spring Street
Block Island, RI 02807
&
Block Island Water Company
436 Sand's Pond Road
Block Island, RI 02807

RECEIVING WATER: Rhode Island Sound (Waterbody ID: RI0010046E-02A (Block Island Waters))

RECEIVING WATER CLASSIFICATION: SB1

The facility which is the source of the wastewater discharge is engaged in treatment of wastewater from the sanitary sewer system in New Shoreham. On March 9, 2021, the facility reapplied to the Rhode Island Department of Environmental Management for reissuance of an individual RIPDES permit to discharge water from the treatment plant. The wastewater is treated via coarse screening/bar racks, grit removal, fine screening/mechanical filter screen, aeration, secondary settling, chlorination and dechlorination. The Block Island Water Company is engaged in the operation of a Reverse Osmosis (RO) process located on Sands Pond Road to treat well water for domestic consumption. The discharges are from the New Shoreham WPCF effluent (Outfall 100A) that discharges into Rhode Island Sound. The above two facilities are the sources of the wastewater discharges. The permit includes limits to ensure that the discharge will not cause a water quality violation.

The draft permit contains new requirements for monitoring perflourinated compounds, additional monitoring of Nitrogen parameters, for the submittal of a resiliency plan, and for inspection of the facility's outfall.

RIPDES PERMIT NUMBER: RI0100374

NAME AND MAILING ADDRESS OF APPLICANT:

Town of South Kingstown
180 High Street
Wakefield, RI 02879

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

South Kingstown Regional Wastewater Treatment Plant
275 Westmoreland Street

Narragansett, Rhode Island

RECEIVING WATER: Rhode Island Sound (Waterbody ID: RI0010042E-01A)

RECEIVING WATER CLASSIFICATION: SB1

The facility, which is the source of the wastewater discharge, is located in South Kingstown and is engaged in treatment of wastewater from the sewer system in the Town of South Kingstown. On November 18, 2021, the facility reapplied to the Rhode Island Department of Environmental Management for reissuance of an individual RIPDES Permit to discharge water from the treatment plant, which includes the use of the following equipment and processes: coarse screening, comminution, primary settling, fine bubble aeration, secondary settling, chlorination, and dechlorination. The discharge of treated effluent is made to Rhode Island Sound through outfall 001A. The permit includes limits to ensure that the discharge will not cause a water quality violation.

The draft permit contains new requirements for monitoring perfluorinated compounds, additional monitoring of Nitrogen parameters, for the submittal of a resiliency plan, and for inspection of the facility's outfall.

II. DRAFT RIPDES PERMIT MODIFICATIONS

RIPDES PERMIT NUMBER: RI0100455

NAME AND MAILING ADDRESS OF APPLICANT:

Burrillville Sewer Commission
P.O. Box 71
Harrisville, RI 02830

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Burrillville Wastewater Treatment Facility
141 Clear River Drive
Harrisville, Rhode Island 02830

RECEIVING WATER: Clear River [RI0001002R-05D]

RECEIVING WATER CLASSIFICATION: B1

The facility, which is the source of the wastewater discharge, is engaged in the treatment of domestic sewage from the sanitary sewer system in the Town of Burrillville. The treatment system consists of the following processes: Treatment consists of Preliminary Treatment, Primary Settling, Activated Sludge, Secondary Clarification, Phosphorous Removal, Chlorination/Dechlorination and Effluent Re-Aeration. DEM reissued the facility's RIPDES permit on February 8, 2020. On November 8, 2023, the facility submitted a written request to DEM that the facility's permit be modified allow the facility to begin using an Aluminum-based flocculant compound in its wastewater treatment process. The permit modification, which was drafted in response to the November 8, 2023 request, permits the use of the Aluminum-based flocculant compound and ensures that the discharge will not cause a water quality violation.

The DEM has determined that the proposed activities comply with the Policy on the Implementation of the Antidegradation Provisions of the Rhode Island Water Quality Regulations and that existing uses will be maintained and protected. A detailed evaluation of the water quality impact from the proposed activities and any important benefits demonstrations, if required, may be found in the fact sheets which are available as noted below.

FURTHER INFORMATION:

Fact sheets (describing the type of facility and significant factual, legal and policy questions considered in these permit actions) may be obtained at no cost by writing or calling DEM as noted below:

Samuel Kaplan, P.E.
Environmental Engineer II
Rhode Island Department of Environmental Management
Office of Water Resources
Permits Section
235 Promenade Street
Providence, Rhode Island 02908-5767
samuel.kaplan@dem.ri.gov
(401) 537-4240

The administrative record containing all documents relating to these permit actions is on file and may be inspected, by appointment, at the DEM's Providence office mentioned above between 8:30 a.m. and 4:00 p.m., Monday through Friday, except holidays.

PUBLIC COMMENT AND REQUEST FOR PUBLIC HEARING:

Pursuant to Chapter 42-17.4 of the Rhode Island General Laws a public hearing has been scheduled to consider these permits if requested. Requests for a Public Hearing must be submitted in writing to the attention of Samuel Kaplan at the address indicated above. Notice should be taken that if DEM receives a request from twenty-five (25) people, a governmental agency or subdivision, or an association having no less than twenty-five (25) members on or before 4:00 PM, March 12, a public hearing will be held at the following time and place:

5:00 PM Wednesday, March 20
Room 280
235 Promenade Street
Providence, Rhode Island 02908

Interested persons should contact DEM to confirm if a hearing will be held at the time and location noted above.

235 Promenade Street is accessible to individuals who are handicapped. If communication assistance (readers/interpreters/captioners) is needed, or any other accommodation to ensure equal participation, please call Samuel Kaplan or RI Relay 711 at least three (3) business days prior to the meeting so arrangements can be made to provide such assistance at no cost to the person requesting.

Interested parties may submit comments on the permit actions and the administrative record to the address above no later than 4:00 PM Thursday, March 21.

If, during the public comment period, significant new questions are raised concerning the permit, DEM may require a new draft permit or statement of basis or may reopen the public comment period. A public notice will be issued for any of these actions.

Any person, including the permittee/applicant, who believes these permit actions are inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period under 250-RICR-150-10-1.42 of the Regulations for the Rhode Island Pollutant Discharge Elimination System. The public comment period is from February 9, 2024 to March 21, 2024. Commenters may request a longer comment period if necessary to provide a reasonable opportunity to comply with these requirements. Comments should be directed to DEM as noted above.

FINAL DECISION AND APPEALS:

Following the close of the comment period, and after a public hearing, if such hearing is held, the Director will issue a final decision and forward a copy of the final decision to the permittee and each person who has submitted written comments or requested notice. Within 30 days following the notice of the final decision, any interested person may submit a request for a formal hearing in accordance with the requirements of 250-RICR-150-10-1.50 of the Regulations for the Rhode Island Pollutant Discharge Elimination System.

01 Feb 2024
Date

Heidi Traverso
Heidi Travers, P.E.
Environmental Engineer IV
RIPDES, Office of Water Resources
Department of Environmental Management

MODIFICATION

AUTHORIZATION TO DISCHARGE UNDER THE
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended, RIPDES Permit No. RI0100455 issued to the Burrillville Wastewater Facility on February 28, 2020 shall be modified as follows:

The Phosphorus and Nitrogen monitoring requirement listed in Part I.A.3 of the permit shall be deleted in their entirety and replaced with the limits and monitoring requirements in Attachment I of this modification. The modification removes a footnote that provided potentially conflicting information regarding sample frequency.

The Aluminum and Iron monitoring requirements in Part I.A.4 of the permit shall be deleted in their entirety and replaced with the limits and monitoring requirements in Attachment II of this modification.

The remaining effluent limitations, monitoring requirements and other conditions in the original permit are unchanged and in effect.

This modification shall become effective on [REDACTED].

This permit and the authorization to discharge expire at midnight, July 1, 2025.

This change modifies the permit issued on February 28, 2020 that was previously modified November 30, 2022.

This modification consists of three (3) pages.

Signed this [REDACTED] day of [REDACTED].

DRAFT

Joseph B. Haberek, P.E., Administrator of Surface Water Protection
Office of Water Resources
Rhode Island Department of Environmental Management
Providence, Rhode Island

ATTACHMENT I

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirement</u>			
	Quantity - lbs. per day	Concentration - specify units		Measurement Frequency	Sample Type		
	<u>Average Monthly</u>	<u>Maximum Daily</u>	<u>Average Monthly</u>	<u>Average Weekly</u>	<u>Maximum Daily</u>		
Phosphorus, Total (November-March)			1.0 mg/L		--- mg/L	1/Week	24-Hr. Comp.
(April-October)			0.1 mg/L		--- mg/L	1/Week	24-Hr. Comp.
Orthophosphorus (November – March)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
TKN (as N) (November-April)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
(May-October)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
Nitrate, Total (as N) (November-April)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
(May-October)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
Nitrite, Total (as N) (November-April)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
(May-October)			--- mg/L		--- mg/L	1/Week	24-Hr. Comp.
Ammonia, Total (as N) (November – April)			20.0 mg/L		103 mg/L	1/Week	24-Hr. Comp.
(May – October)			5.1 mg/L		42.6 mg/L	1/Week	24-Hr. Comp.
Nitrogen, Total (TKN + Nitrate + Nitrite, as N) (November-April)	lbs/day		--- mg/L		--- mg/L	1/Week	Calculated
(May-October)	lbs/day		--- mg/L ¹		--- mg/L	1/Week	Calculated

--- signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

¹ The permittee shall operate the treatment facility to reduce the discharge of Total Nitrogen to the maximum extent possible using all available treatment equipment in place at the facility.

Samples taken in compliance with the monitoring requirements specified above at: Outfall 001A. (Final Discharge after Dechlorination).

ATTACHMENT II

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirement</u>			
	Quantity - lbs. Average <u>Monthly</u>	per day Maximum <u>Daily</u>	Concentration - specify units Average <u>Monthly</u>	Average <u>Weekly</u>	Maximum <u>Daily</u>	Measurement <u>Frequency</u>	Sample <u>Type</u>
Copper, Total			5.3 µg/L		7.1 µg/L	1/ Week	24-Hr. Comp.
Lead, Total			1.1 µg/L		27.5 µg/L	1/ Week	24-Hr. Comp.
Zinc, Total			68.3 µg/L		68.3 µg/L	1/ Week	24-Hr. Comp.
Iron, Total			1627.2 µg/L		--- µg/L	See Footnote 2	24-Hr. Comp.
Cyanide			--- µg/L		--- µg/L	1/ Quarter	Composite ¹
Cadmium, Total			--- µg/L		--- µg/L	1/ Quarter	24-Hr. Comp.
Nickel, Total			--- µg/L		--- µg/L	1/ Quarter	24-Hr. Comp.
Aluminum, Total			141.5 µg/L		1220.4 µg/L	See Footnote 2	24-Hr. Comp.

--- signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

¹ Compliance with these limitations shall be determined by taking three (3) grab samples per day with a minimum of three (3) hours between grabs and preserved immediately upon collection. All three (3) samples shall be composited then analyzed for available cyanide.

² Weekly sampling for Total Iron and/or Total Aluminum is only in effect during months in which Iron based and/or Aluminum based chemicals are used in the treatment process. For all other periods sampling is only required for Total Iron and Total Aluminum on a quarterly basis in accordance with Part I.B. of this permit.

Samples taken in compliance with the monitoring requirements specified above shall be taken Monday through Friday at: Outfall 001A. (Final Discharge after Dechlorination).

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 PROMENADE STREET
PROVIDENCE, RHODE ISLAND 02908-5767

FACT SHEET

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PERMIT TO DISCHARGE TO WATERS OF THE STATE

RIPDES PERMIT NO. RI0100455

NAME AND ADDRESS OF APPLICANT:

Burrillville Sewer Commission
P.O. Box 71
Harrisville, RI 02830

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Burrillville Wastewater Treatment Facility
141 Clear River Drive
Harrisville, Rhode Island 02830

RECEIVING WATER: **Clear River [RI0001002R-05D]**

CLASSIFICATION: B1

I. **Proposed Action, Type of Facility, and Discharge Location**

The Rhode Island Department of Environmental Management proposes to issue a modification to the above-mentioned facility's RIPDES Permit to discharge into the designated receiving water. The facility is engaged in the treatment of sanitary sewage contributed by the municipality of Burrillville. The discharge is from the outfall 001A. The permit issued on February 28, 2020, and which became effective on July 1, 2020, is being modified in several ways as indicated below.

Proposed Permit Modifications

Modification of sampling frequency footnote in Part I.A.3. of the permit for Phosphorus and Nitrogen parameters.

Addition of permit limits for Monthly Average Aluminum and Daily Maximum Aluminum in Part I.A.4 of the permit.

Addition of a permit limit for Daily Maximum Iron in part I.A.4. of the permit.

Addition of conditions to the monitoring frequency for Monthly Average Aluminum and Daily Maximum Aluminum in Part I.A.4 of the permit.

Addition of conditions to the monitoring frequency for Monthly Average Iron and Daily Maximum Iron in Part I.A.4 of the permit.

II. Limitations and Conditions

The effluent limitations, monitoring requirements, and any implementation schedule (if required) may be found in the permit.

III. Permit Basis and Explanation of Effluent Limitation Derivation

Permit Limit Development

Aluminum

In correspondence dated November 8, 2023, the facility requested a modification to its RIPDES Permit issued on February 28, 2020. The facility requested a change in the treatment chemical which the plant uses for Phosphorus removal. The chemical currently being used is ferric chloride. The chemical proposed for use is polyaluminum chloride (PAC).

The facility requested this change due to an impurity in the ferric chloride currently being used, which the facility stated is adding 2.5 µg/L to 5 µg/L to the facility's effluent copper concentration. The facility reported that the impurities impacted the facility's ability to comply with effluent copper limits. Additionally, the facility stated that the use of the ferric chloride led to fouling of plant equipment, particularly fouling of the chlorine analyzers, which led to overdosing of sodium hypochlorite (used for effluent disinfection) and increased consumption of sodium bisulfite (used to dechlorinate effluent).

The facility presented results of a pilot test of the use of PAC that demonstrated that the facility could maintain compliance with copper, aluminum, and phosphorus limits. However, the facility will continue to operate under its current consent agreement (RIA-433) to determine whether the current copper limit is appropriate for the receiving water.

The facility stated that no equipment changes are needed to switch from using ferric chloride to using PAC. Therefore, the facility would have the capability to switch back to the use of ferric, if needed.

Aluminum and Iron monitoring were incorporated in the permit issued on February 28, 2020, due to use of treatment chemicals at the facility, and due to Aluminum being included in the permit as a bioassay requirement.

In accordance with 40 CFR Part 122.4(d)(1)(iii), it is only necessary to establish limitations for those pollutants in the discharge which have the reasonable potential to cause or contribute to the exceedance of the instream criteria.

This permit modification adds a monthly average permit limit of 141.5 µg/L and daily maximum permit limit of 1220.4 µg/L for Aluminum due to the pilot test's results indicating that reasonable potential exists for an exceedance of monthly average permit limits. DEM typically assigns permit limits for parameters when the average effluent value exceeds 50% of the potential permit limit.

The permit modification adds a monthly average permit limit of 1627.2 µg/L for iron due to the facility's monthly average DMR data having a value of 523.0 µg/L. Therefore, the daily maximum permit limit is assigned because DEM assigns permit limits on a case-by-case basis when the average of the monthly average values is in the range of 25%-50% of the potential permit limit. Given that the facility may at a future time use ferric chloride in its treatment project, the assignment of an iron limit is justified. There is no potential monthly average permit limit for Iron for this permit because there are no acute water quality criteria for Iron in the Rhode Island Water Quality Regulations (250-RICR-150-05-01).

Additional, note that the sampling frequency for both parameters has been modified. The 2020 permit lists the iron sampling frequency as once per month and the aluminum sampling frequency as once per quarter. A footnote has been added which states that Weekly sampling for Total Iron and/or Total Aluminum is only in effect during months in which Iron based and/or Aluminum based chemicals are used in the treatment process. For all other periods sampling is only required for Total Iron and Total

Aluminum on a quarterly basis in accordance with Part I.B. of this permit. Please refer to Attachment II which contains modifications to Part I.A.4. of this permit. Please refer to Attachment A which contains effluent monthly average Iron Data for the facility for July 2020- October 2023.

Sampling Frequency Footnote for Phosphorus and Nitrogen Parameters

The 2020 permit contained a footnote on Part I.A.3. that proscribed sampling for Phosphorus parameters (Total Phosphorus, Orthophosphorus) and Nitrogen parameters (Total Kjeldahl Nitrogen, Total Nitrogen, Total Nitrite, Total Nitrate, Total Ammonia) that was not consistent with the sampling frequency for those parameters listed in Part I.A.3 of the permit, therefore, that footnote has been modified in this modification. The footnote was updated to be consistent with the sampling frequency for the above-referenced parameters. The footnote now reads "Samples taken in compliance with the monitoring requirements specified above at: Outfall 001A. (Final Discharge after Dechlorination)." Please refer to Attachment I which contains a corrected version of Part I.A.3 of the permit.

Permit Limitation Summary

The tables in the Permit Limitation Summary have been updated below. The changes update sampling requirements and limitations for Aluminum and Iron from Outfall 001A.

Outfall 001A

Effluent Characteristic	Average Monthly Permit Limit	Average Weekly Permit Limit	Maximum Daily Permit Limit	Sampling Frequency
Flow	1.5 MGD		--- MGD	Continuous
BOD ₅ (May - Oct)	125.1 lb/day		212.7 lb/day	3/Week
BOD ₅ (Nov - April)	375.3 lb/day		625.5 lb/day	3/Week
BOD ₅ (May - Oct)	10 mg/L	15 mg/L	17 mg/L	3/Week
BOD ₅ (Nov - April)	30 mg/L	45 mg/L	50 mg/L	3/Week
BOD ₅ - % Removal	≥85%			1/Month
TSS (May - Oct)	187.7 lb/day		312.8 lb/day	3/Week
TSS (Nov - April)	375.3 lb/day		625.5 lb/day	3/Week
TSS (May - Oct)	15 mg/L	20 mg/L	25 mg/L	3/Week
TSS (Nov - April)	30 mg/L	45 mg/L	50 mg/L	3/Week
TSS - % Removal	≥85%			3/Week
Settleable Solids	--- mL/L	--- mL/L	--- mL/L	3/Week
Enterococci	54 cfu / 100 mL		175 cfu / 100 mL	3/Week
Total Residual Chlorine (TRC)	22 µg/L		39 µg/L	Daily and Continuous
pH	(6.0 S.U.)		(9.0 S.U.)	2/Day
Phosphorus, Total (November-March)	1.0 mg/L		--- mg/L	1/Week
Phosphorus, Total (April-October)	0.1 mg/L		--- mg/L	1/Week
Orthophosphorus (November – March)	--- mg/L		--- mg/L	1/Week

Effluent Characteristic	Average Monthly Permit Limit	Average Weekly Permit Limit	Maximum Daily Permit Limit	Sampling Frequency
TKN (as N) (November-April)	--- mg/L		--- mg/L	1/Week
TKN (as N) (May-October)	--- mg/L		--- mg/L	1/Week
Nitrate, Total (as N) (November-April)	--- mg/L		--- mg/L	1/Week
Nitrate, Total (as N) (May-October)	--- mg/L		--- mg/L	1/Week
Nitrite, Total (as N) (November-April)	--- mg/L		--- mg/L	1/Week
Nitrite, Total (as N) (May-October)	--- mg/L		--- mg/L	1/Week
Ammonia, Total (as N) (November-April)	20.0 mg/L		103 mg/L	1/Week
Ammonia, Total (as N) (May – October)	5.1 mg/L		42.6 mg/L	1/Week
Nitrogen, Total (TKN + Nitrate + Nitrite, as N) (November-April)	--- mg/L		--- mg/L	1/Week
Zinc, Total	68.3 µg/L		68.3 µg/L	1/Week
Nitrogen, Total (TKN + Nitrate + Nitrite, as N) (May-October)	--- mg/L ¹		--- mg/L	1/Week
Copper, Total	5.3 µg/L		7.1 µg/L	1/Week
Lead, Total	1.1 µg/L		27.5 µg/L	1/Week
Iron, Total	1627.2 µg/L		--- µg/L	See Footnote 2
Cyanide, Total	--- µg/L		--- µg/L	1/Quarter
Cadmium, Total	--- µg/L		--- µg/L	1/Quarter
Nickel, Total	--- µg/L		--- µg/L	1/Quarter
Aluminum, Total	141.5 µg/L		1220.4 µg/L	See Footnote 2
Ceriodaphnia sp LC50 ³			100% or Greater ⁴	1/Quarter
Ceriodaphnia sp C-NOEC ⁵			55% or Greater ⁶	1/Quarter
Ceriodaphnia sp IC25 ⁷			Report ⁸	1/Quarter

() Values in parentheses represent the minimum and maximum values.

--- Signifies a parameter which must be monitored, and data must be reported; no limit has been established at this time.

¹ The permittee shall operate the treatment facility to reduce the discharge of Total Nitrogen to the maximum extent possible using all available treatment equipment in place at the facility.

² Weekly sampling for Total Iron and/or Total Aluminum is only in effect during months in which Iron based and/or Aluminum based chemicals are used in the treatment process. For all other periods sampling is only required for Total Iron and Total Aluminum on a quarterly basis in accordance with Part I.B. of this permit.

³LC₅₀ is defined as the concentration of wastewater that causes mortality to 50% of the test organisms.

⁴The 100% or greater limit is defined as a sample which is composed of 100% effluent.

⁵C-NOEC is defined as the highest concentration of toxicant or effluent at which no adverse effects are observed.

⁶The 55% or greater limit is defined as a sample which is composed of 55% effluent.

⁷IC₂₅ is defined as the concentration of wastewater that causes a 25% reduction in growth or reproduction of test organisms.

⁸A numeric limit is not associated with this parameter, but the IC₂₅ must be reported as part of the test results from any chronic WET tests.

IV. **Comment Period, Hearing Requests, and Procedures for Final Decisions**

All persons, including applicants, who believe any condition of the draft permit is inappropriate must raise all issues and submit all available arguments and all supporting material for their arguments in full by the close of the public comment period, to the Rhode Island Department of Environmental Management, Office of Water Resources, 235 Promenade Street, Providence, Rhode Island, 02908-5767. Any person may also present oral comments on the draft permit at the scheduled public hearing. In reaching a final decision on the draft permit the Director will respond to all significant comments, either received in writing during the public comment period or presented orally at the public hearing, and make these responses available to the public at DEM's Providence Office. Following the close of the comment period, and after the public hearing, the Director will issue a final permit decision and forward a copy of the final decision to the applicant and each person who has submitted written comments, presented oral testimony, or requested notice. Within thirty (30) days following the notice of the final permit decision any interested person may submit a request for a formal hearing to reconsider or contest the final decision. Requests for formal hearings must satisfy the requirements of 250-RICR-150-10-1.50 of the Regulations for the Rhode Island Pollutant Discharge Elimination System.

V. **DEM Contact**

Additional information concerning the permit may be obtained between the hours of 8:30 a.m. and 4:00 p.m., Monday through Friday, excluding holidays, from:

Samuel Kaplan, P.E.
Environmental Engineer II
RIPDES Program, Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908
Telephone: (401) 537-4240
samuel.kaplan@dem.ri.gov

06 Feb 2024
Date

Heidi Traverso
Heidi Traverso, P.E.
Environmental Engineer IV
Office of Water Resources
Department of Environmental Management

ATTACHMENT A – Effluent Iron Data July 2020-October 2023

NPDES Permit Number	Outfall Number	Parameter Description	Monitoring Period Date	Limit Value	Limit Value Unit	Limit Type	DMR Value	DMR Value Unit
RI0100455	1	Iron, total (as Fe)	7/31/2020	Mon	ug/L	MO AVG	218	ug/L
RI0100455	1	Iron, total (as Fe)	8/31/2020	Mon	ug/L	MO AVG	555	ug/L
RI0100455	1	Iron, total (as Fe)	9/30/2020	Mon	ug/L	MO AVG	393	ug/L
RI0100455	1	Iron, total (as Fe)	10/31/2020	Mon	ug/L	MO AVG	990	ug/L
RI0100455	1	Iron, total (as Fe)	11/30/2020	Mon	ug/L	MO AVG	238	ug/L
RI0100455	1	Iron, total (as Fe)	12/31/2020	Mon	ug/L	MO AVG	151	ug/L
RI0100455	1	Iron, total (as Fe)	1/31/2021	Mon	ug/L	MO AVG	186	ug/L
RI0100455	1	Iron, total (as Fe)	2/28/2021	Mon	ug/L	MO AVG	163	ug/L
RI0100455	1	Iron, total (as Fe)	3/31/2021	Mon	ug/L	MO AVG	87	ug/L
RI0100455	1	Iron, total (as Fe)	4/30/2021	Mon	ug/L	MO AVG	980	ug/L
RI0100455	1	Iron, total (as Fe)	5/31/2021	Mon	ug/L	MO AVG	716	ug/L
RI0100455	1	Iron, total (as Fe)	6/30/2021	Mon	ug/L	MO AVG	933	ug/L
RI0100455	1	Iron, total (as Fe)	7/31/2021	Mon	ug/L	MO AVG	851	ug/L
RI0100455	1	Iron, total (as Fe)	8/31/2021	Mon	ug/L	MO AVG	1300	ug/L
RI0100455	1	Iron, total (as Fe)	9/30/2021	Mon	ug/L	MO AVG	647	ug/L
RI0100455	1	Iron, total (as Fe)	10/31/2021	Mon	ug/L	MO AVG	1070	ug/L
RI0100455	1	Iron, total (as Fe)	11/30/2021	Mon	ug/L	MO AVG	170	ug/L
RI0100455	1	Iron, total (as Fe)	12/31/2021	Mon	ug/L	MO AVG	185	ug/L
RI0100455	1	Iron, total (as Fe)	1/31/2022	Mon	ug/L	MO AVG	126	ug/L
RI0100455	1	Iron, total (as Fe)	2/28/2022	Mon	ug/L	MO AVG	101	ug/L
RI0100455	1	Iron, total (as Fe)	3/31/2022	Mon	ug/L	MO AVG	124	ug/L
RI0100455	1	Iron, total (as Fe)	4/30/2022	Mon	ug/L	MO AVG	1060	ug/L
RI0100455	1	Iron, total (as Fe)	5/31/2022	Mon	ug/L	MO AVG	1100	ug/L

ATTACHMENT A Cont. – Effluent Iron Data July 2020-October 2023

RI0100455	1	Iron, total (as Fe)	6/30/2022	Mon	ug/L	MO AVG	435	ug/L
RI0100455	1	Iron, total (as Fe)	7/31/2022	Mon	ug/L	MO AVG	766	ug/L
RI0100455	1	Iron, total (as Fe)	8/31/2022	Mon	ug/L	MO AVG	600	ug/L
RI0100455	1	Iron, total (as Fe)	9/30/2022	Mon	ug/L	MO AVG	679	ug/L
RI0100455	1	Iron, total (as Fe)	10/31/2022	Mon	ug/L	MO AVG	101	ug/L
RI0100455	1	Iron, total (as Fe)	11/30/2022	Mon	ug/L	MO AVG	123	ug/L
RI0100455	1	Iron, total (as Fe)	12/31/2022	Mon	ug/L	MO AVG	115	ug/L
RI0100455	1	Iron, total (as Fe)	1/31/2023	Mon	ug/L	MO AVG	103	ug/L
RI0100455	1	Iron, total (as Fe)	2/28/2023	Mon	ug/L	MO AVG	162	ug/L
RI0100455	1	Iron, total (as Fe)	3/31/2023	Mon	ug/L	MO AVG	96	ug/L
RI0100455	1	Iron, total (as Fe)	4/30/2023	Mon	ug/L	MO AVG	797	ug/L
RI0100455	1	Iron, total (as Fe)	5/31/2023	Mon	ug/L	MO AVG	1010	ug/L
RI0100455	1	Iron, total (as Fe)	6/30/2023	Mon	ug/L	MO AVG	1220	ug/L
RI0100455	1	Iron, total (as Fe)	7/31/2023	Mon	ug/L	MO AVG	918	ug/L
RI0100455	1	Iron, total (as Fe)	8/31/2023	Mon	ug/L	MO AVG	632	ug/L
RI0100455	1	Iron, total (as Fe)	9/30/2023	Mon	ug/L	MO AVG	468	ug/L
RI0100455	1	Iron, total (as Fe)	10/31/2023	Mon	ug/L	MO AVG	352	ug/L

	Average of Monthly Average Values:	523.025	ug/L
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