National Pollutant Discharge Elimination System Permit
issued to

Permittee:
Mystic Aquarium
A Division of Sea Research Foundation Inc.
55 Coogan Boulevard
Mystic, CT 06355

Location Address:
Mystic Aquarium
A Division of Sea Research Foundation Inc
55 Coogan Boulevard
Mystic, CT 06355

Permit ID: CT0020630

Issuance Date: Date of Signature

Receiving Water Body: Mystic River

Effective Date: 1st of the month after Issuance Date

Receiving Water Body ID: CT-E1_007-SB

Permit Expires: 5 years from effective date

SECTION 1: GENERAL PROVISIONS

1.1 This permit is reissued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes ("Conn. Gen. Stat."), and Regulations of Connecticut State Agencies ("Regs. Conn. State Agencies") adopted thereunder, as amended, and Section 402(b) of the Clean Water Act ("CWA"), as amended, 33 USC 1251, *et. seq.*, and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a National Pollutant Discharge Elimination System ("NPDES") permit program.

1.2 **Mystic Aquarium, A Division of Sea Research Foundation Inc.** ("Permittee") shall comply with all conditions of this permit including the following sections of the Regs. Conn. State Agencies which have been adopted pursuant to Section 22a-430 of the Conn. Gen. Stat. and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsections (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (*l*)(2) of Section 22a-430-3.

Section 22a-430-3: *General Conditions*

(a) Definitions
(b) General
(c) Inspection and Entry
(d) Effect of a Permit
(e) Duty to Comply
(f) Proper Operation and Maintenance
(g) Sludge Disposal
(h) Duty to Mitigate
(i) Facility Modifications; Notification
(j) Monitoring, Records and Reporting Requirements
(k) Bypass
(m) Effluent Limitation Violations (Upsets)
(n) Enforcement
(o) Resource Conservation
(p) Spill Prevention and Control
(q) Instrumentation, Alarms, Flow Recorders
(r) Equalization

Section 22a-430-4: *Procedures and Criteria*

(a) Duty to Apply
(b) Duty to Reapply
(c) Application Requirements
(d) Preliminary Review
(e) Tentative Determination
(f) Draft Permits, Fact Sheets
(g) Public Notice, Notice of Hearing
(h) Public Comments
(i) Final Determination
(j) Public Hearings
(k) Submission of Plans and Specifications, Approval
(*l*) Establishing Effluent Limitations and Conditions
(m) Case by Case Determinations
(n) Permit Issuance or Renewal
(o) Permit Transfer
(p) Permit Revocation, Denial or Modification
(q) Variances
(s) Treatment Requirements

1.3 Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the Conn. Gen. Stat. and Regs. Conn. State Agencies.

1.4 Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under Section 22a-438 or 22a-131a of the Conn. Gen. Stat. or in accordance with Section 22a-6, under Section 53a-157b of the Conn. Gen. Stat..

1.5 The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection ("Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner, at least thirty (30) days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the Conn. Gen. Stat. and Regs. Conn. State Agencies.

1.6 No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the Permittee pursuant to this permit will result in compliance or prevent or abate pollution.

1.7 Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.

1.8 An annual fee shall be paid for each year this permit is in effect as set forth in Section 22a-430-7 of the Regs. Conn. State Agencies.

1.9 The Permittee shall operate and maintain its collection and treatment system in accordance with its Operation and Maintenance Plan and with any approvals issued in accordance with Regs. Conn. State Agencies Section 22a-430-3(i)(3). The Permittee shall revise and maintain the Operation and Maintenance Plan upon the Commissioner's request or to address equipment or operational changes in accordance with Regs. Conn. State Agencies Section 22a-430-3(f)(2).

1.10 The Permittee shall implement its Spill Prevention and Control Plan in accordance with Regs. Conn. State Agencies Section 22a-430-3(p) and 22a-430-4(c)(10). The plan shall include practices, procedures and facilities designed to prevent, minimize and control spills, leaks or such other unplanned releases of all toxic or hazardous substances and any other substances to prevent pollution of the waters of the state. Such requirements shall, unless otherwise allowed by the Commissioner, apply to all facilities used for storing, handling, transferring, loading or unloading such substances, including manufacturing areas. The Permittee shall revise and maintain the Spill Prevention and Control Plan upon the Commissioner's request or to address equipment or operational changes.

SECTION 2: DEFINITIONS

2.1 The definitions of the terms used in this permit shall be the same as the definitions contained in Section 22a-423 of the Conn. Gen. Stat. and Section 22a-430-3(a) and 22a-430-6 of the Regs. Conn. State Agencies.

2.2 In addition to the above, the following definitions shall apply to this permit:

"40 CFR" means Title 40 of the Code of Federal Regulations.

"Annually" when used as a sampling frequency in this permit, means that reporting is required in the month of December.

"Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in Section 22a-430-3(a) of the Regs. Conn. State Agencies when expressed as a concentration (e.g., mg/l). Otherwise, it means "Average Monthly Discharge Limitation" as defined in Section 22a-430-3(a) of the Regs. Conn. State Agencies.

Connecticut Water Quality Standards means the regulations adopted under Regs. Conn. State Agencies Sections 22a-426-1 through 22a-426-9, as amended.

"Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.

"DMR" means Discharge Monitoring Report.

"IC" means "Inhibition Concentration".

"IC_{25}" means a point estimate of the toxicant concentration that would cause a twenty-five (25) percent reduction in a non-lethal biological measurement of the test organism, such as reproduction or growth.

"Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.

"In-stream Waste Concentration" ("IWC%") means the concentration (as a percent) of the effluent in the receiving water.

"LC" means Lethal Concentration

"LC_{50}" means the concentration lethal to fifty (50) percent of the test organisms during a specific period.

"Lowest Observed Effect Concentration" ("LOEC") means the lowest concentration of an effluent or toxicant to which organisms are exposed in a life cycle or partial life-cycle test, which causes adverse effects on the test organisms.

"Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above)

when expressed as a concentration (e.g., mg/l). Otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity, it means "Maximum Daily Flow" as defined in Section 22a-430-3(a) of the Regs. Conn. State Agencies.

"No Observed Effect Concentration" ("NOEC") means the highest concentration of an effluent or toxicant to which organisms are exposed in a life cycle or partial life-cycle test, that causes no observable adverse effects on the test organisms.

"Quarterly", when used as a sampling frequency in this permit, means that sampling is required in the months of March, June, September, and December.

"Range During Sampling" ("RDS"), as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of: 1) a Composite Sample or, 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Reporting Frequency" means the frequency at which monitoring results must be provided.

"Semiannual" when used as a sampling frequency in this permit, means that sampling is required in the months of February and August.

SECTION 3: COMMISSIONER'S DECISION

3.1 The Commissioner has issued a final determination and found that such discharge will not cause pollution of waters of the state. The Commissioner's decision is based on Application No. 201304082 for permit reissuance received on September 13, 2013, and the administrative record established in the processing of that application.

3.2 Upon the effective date of this permit and continuing until this permit expires or is modified or revoked, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of this permit, the information provided in Application No. 201304082, received by the Commissioner on September 13, 2013, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent, for the discharge and/or activities authorized by, or associated with this Permit.

3.3 The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the Conn. Gen. Stat. or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or the Conn. Gen. Stat. or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

4.1 The Permittee shall assure that the surface water affected by the subject discharge shall conform to the *Connecticut Water Quality Standards*.

4.2 No discharge shall contain, or cause in the receiving stream, a visible oil sheen or floating solids, or cause visible discoloration or foaming in the receiving stream.

4.3 No discharge shall cause acute or chronic toxicity in the receiving water body beyond any zone of influence specifically allocated to that discharge in this permit.

4.4 The temperature of any discharge shall not increase the temperature of the receiving stream above 85 °F, or in any case, raise the temperature of the receiving stream by more than 4 °F. During the period including July, August, and September, the temperature of the receiving water shall not be raised more than 1.5°F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5.1 The discharge is restricted by and shall be monitored in accordance with the following tables in this section. The wastewater discharge shall not exceed the effluent limitations in these tables and shall otherwise conform to the specific terms and conditions listed in the tables. The Permittee shall comply with the "Footnotes" and "Remarks" noted in the tables that follow. Such footnotes and remarks are enforceable like any other term or condition of this permit.

5.2 The wastewaters authorized/approved by this permit shall be collected, treated, and discharged in accordance with this permit and with any approvals issued by the Commissioner or his/her authorized agent for the discharges and activities authorized by or associated with this permit. Any wastewater discharges not expressly identified in these tables or otherwise approved to be discharged by this permit shall not be authorized by this permit.

5.3 All samples shall be comprised of only the wastewater described in these tables. Samples shall be collected prior to combination with receiving waters or wastewater of any other type, and after all approved treatment units, if applicable. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Collection of permit-required effluent samples in any location other than the authorized location noted in this permit shall be a violation of this permit.

5.4 In cases where limits and sample type are specified but sampling is not required by this permit, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Energy and Environmental Protection ("DEEP") personnel, the Permittee, or other parties.

5.5 DSN 002, 004, 005, 006, 007, 008, 009, 010, 011, and 012 shall not discharge concurrently with any discharge covered under this permit.

5.6 All discharges under this permit shall comply with the best management practices identified in the Permittee's Operation and Maintenance Plan ("the Plan"), entitled *Best Management Plan for Mystic Aquarium Exhibit Water Management* (October 2022), or the most up-to-date revision. Total residual chlorine shall be measured to confirm compliance with effluent limitations in DSNs 001 – 012, prior to initiating a discharge, as defined in the Plan.

Table A

Discharge Serial Number: DSN 001 | **Monitoring Location:** 1 (EXTERNAL OUTFALL)

Wastewater Description: Wastewater from draining ten inches or more from the Pre-Release Tank and well water overflow of the Pre-Release Tank.

Monitoring Location Description: Sample tap located post pre-release tank pump prior to the sand filter or directly from the prerelease tank. | **Outfall Location:** Latitude (41◦ 22’ 22”) and Longitude (71◦ 57’ 54”)

Discharge is to: Mystic River | **Instream Waste Concentration (IWC):** 9.4%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Monthly	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	5.52	14.4	Monthly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Monthly	Grab	0.02
Copper, Total	01042	ug/l	26.1	70.8	Monthly	Grab	NA	NR	NA	3
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	18,500	Monthly	Daily Flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Salinity	00480	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Monthly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Monthly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	----	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the “Sample Frequency. If a “Reporting Frequency” does not follow this entry, then the “Reporting Frequency” is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels (“MLs”) identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee’s analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Table A	
Discharge Serial Number: DSN 001	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining ten inches or more from the Pre-Release Tank and well water overflow of the Pre-Release Tank.	
Monitoring Location Description: Sample tap located post pre-release tank pump prior to the sand filter or directly from the prerelease tank.	**Outfall Location:** Latitude (41◦ 22’ 22”) and Longitude (71◦ 57’ 54”)
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 9.4%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling is to be conducted when seal(s) are present when possible.
6. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table B – Acute Toxicity Monitoring

Discharge Serial Number: DSN 001-AT

Monitoring Location Codes:
T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Wastewater from draining ten inches or more from the Pre-Release Tank and well water overflow of the Pre-Release Tank.

Monitoring Location Description: Sample tap located post pre-release tank pump prior to the sand filter or directly from the pre-release tank

Discharge is to: Mystic River | **Zone of Influence:** 47,754 gallons per hour | **Instream Waste Concentration:** 9.4 % | **Outfall Location:** Latitude (41◦ 22’ 22” and Longitude (71◦ 57’ 54”)

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Whole Effluent Toxicity (WET)										
Acute Aquatic Toxicity[6] *Daphnia pulex,* LC_{50}	TAA3D	%	NA	28.4	Semi-Annually	Grab	NA	NR	NA	
Acute Aquatic Toxicity[6] *Pimephales promelas,* LC_{50}	TAA6C	%	NA	28.4	Semi-Annually	Grab	NA	NR	NA	
Acute Aquatic Toxicity[6] *Mysidopsis bahia,* LC_{50}	TAA3E	%	NA	28.4	Semi-Annually	Grab	NA	NR	NA	
Acute Aquatic Toxicity[6] *Cyprinodon variegatus,* LC_{50}	TAA6B	%	NA	28.4	Semi-Annually	Grab	NA	NR	NA	
Chemical Analyses Required with Acute Whole Effluent Toxicity Monitoring – See Section 7.1.6. for Acute Testing [7]										
Date of Acute WET Chemistry Sample Collection[8]	51883	YYYYMMDD	NA	---	Semi-Annually	Calculated	NA	NR	NA	
Alkalinity	00410	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	0.02
Copper, Dissolved	01040	µg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Copper, Total	01042	µg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	3
Dissolved Oxygen	00300	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Hardness, Total	00900	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Ammonia (total as N)	00610	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Kjeldahl (total as N)	00625	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Nitrate (total as N)	00620	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Nitrite (total as N)	00615	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	

Table B – Acute Toxicity Monitoring

Discharge Serial Number: DSN 001-AT	**Monitoring Location Codes:** T – Acute toxicity effluent results and chemical analyses
Wastewater Description: Wastewater from draining ten inches or more from the Pre-Release Tank and well water overflow of the Pre-Release Tank.	
Monitoring Location Description: Sample tap located post pre-release tank pump prior to the sand filter or directly from the pre-release tank	

Discharge is to: Mystic River	**Zone of Influence:** 47,754 gallons per hour	**Instream Waste Concentration:** 9.4 %	**Outfall Location:** Latitude (41◦ 22' 22" and Longitude (71◦ 57' 54")

PARAMETER	**NET DMR CODE**	**UNITS**	**FLOW/TIME BASED MONITORING**				**INSTANTANEOUS MONITORING**			**MINIMUM LEVEL[5]**
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Nitrogen, Total (as N)[9]	00600	lbs/day	NA	---	Semi-Annually	Grab	NA	NR	NA	
pH	00400	SU	NA	---	Semi-Annually	Grab	NA	NR	NA	
Phosphorus, Total	00665	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	
Salinity	00480	Mg/l	NA	----	Semi-Annually	Grab	NA	NR	NA	
Specific Conductance	51409	uMhos	NA	---	Semi-Annually	Grab	NA	NR	NA	
Temperature	00011	Deg. F.	NA	---	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	

Table B – Acute Toxicity Monitoring

Discharge Serial Number: DSN 001-AT

Monitoring Location Codes: T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Wastewater from draining ten inches or more from the Pre-Release Tank and well water overflow of the Pre-Release Tank.

Monitoring Location Description: Sample tap located post pre-release tank pump prior to the sand filter or directly from the pre-release tank

Discharge is to: Mystic River | **Zone of Influence:** 47,754 gallons per hour | **Instream Waste Concentration:** 9.4 % | **Outfall Location:** Latitude (41◦ 22’ 22” and Longitude (71◦ 57’ 54”)

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	

TABLE A FOOTNOTES AND REMARKS

Footnotes:

[1] WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.

[2] The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry and the “Sample Frequency” is more frequent than monthly, then the “Reporting Frequency” is monthly. If the “Sample Frequency” is specified as monthly, or less frequent, then the “Reporting Frequency” is monthly.

[3] If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Section 8.2 of this permit.

[4] Daily composite samples shall be collected for acute toxicity tests consistent with the methodology outlined in Section 7.1 of this permit.

[5] “Minimum Level” refers to Section 6.3 of this permit.

[6] Acute toxicity testing shall be conducted, and species selected in accordance with Footnote 10 in this table. The LC_{50} results (in %) for the acute toxicity testing shall be reported on the DMR. The Aquatic Toxicity Monitoring Report (“ATMR”) shall be completed for each toxicity testing event and submitted in accordance with Section 8.2 of this permit.

[7] Chemical analyses shall be conducted on samples used in the acute toxicity tests. These analyses shall be conducted on all samples used in the acute toxicity test and reported under Monitoring Location T. Results shall also be included on the ATMR and submitted in accordance with Section 8.2 of this permit.

[8] The Permittee shall report the date of sample collection for the acute toxicity test and associated chemistry data in the format: year month day (YYYYMMDD).

[9] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: mg/L means milligrams per liter; SU means Standard Units; mg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling; RDM means Range During Month.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. Analyses that indicate that a parameter was not detected or that was detected less than the noted ML shall be reported in accordance with Section 6.5.
4. Sampling is to be conducted when seal(s) are present when possible.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table C

Discharge Serial Number: DSN 002	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more from the Aquatic Animal Study Center Tank	
Monitoring Location Description: Sample tap located post Aquatic Animal Study Center pool pumps #1 or #2 and prior to the sand filters or directly from the aquatic animal study tanks.	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 14.9%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Quarterly	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	2.2	4.42	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Quarterly	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	200,000	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[6]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge. If both Aquatic Animal Study Center pools discharge on the same day, a grab sample of equal volume must be collected from each monitoring location and combined into a single sample for analysis. The Permittee must include as an attachment to the DMR, the sample location (sample tap from pump #1 or #2) that was used for the compliance sample.

Table D

Discharge Serial Number: DSN 003	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more form the Individual Care Units and well water overflow from the Individual Care Units	
Monitoring Location Description: Sample tap located post ICU pump #1-#7 and prior to the sand filter or directly from the tanks.	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 11.7%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Monthly	Daily Composite	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	4.88	14.9	Monthly	Daily Composite	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Monthly	Grab[5]	0.02
Copper, Total	01042	ug/l	26.1	70.8	Semi-Annually	Daily Composite	NA	NR	NA	3
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Flow, Total[6]	82220	gpd	NA	40,000	Monthly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen, Total (as N)[7]	00600	lbs/day	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Salinity	00480	mg/L	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
(Interim)[3] pH, Minimum	61942	SU	NA	NA	NR	NA	6	Monthly	Grab	
(Final)[8] pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Monthly	Grab	
(Interim)[3] pH, Maximum	61941	SU	NA	NA	NR	NA	9	Monthly	Grab	
(Final)[8] pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Monthly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For Total Residual Chlorine: the Permittee shall take a grab sample at the beginning middle and end of the discharge.

[6] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[7] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

[8] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.2 of this Permit.

Table D										
Discharge Serial Number: DSN 003						**Monitoring Location:** 1 (EXTERNAL OUTFALL)				
Wastewater Description: Wastewater from draining 10 inches or more form the Individual Care Units and well water overflow from the Individual Care Units										
Monitoring Location Description: Sample tap located post ICU pump #1-#7 and prior to the sand filter or directly from the tanks.						**Outfall Location:** Latitude (41◦ 22’ 22”) and Longitude (71◦ 57’ 54”)				
Discharge is to: Mystic River						**Instream Waste Concentration (IWC):** 11.7%				
PARAMETER	**NET DMR CODE**	**UNITS**	**FLOW/TIME BASED MONITORING**				**INSTANTANEOUS MONITORING**			**MINIMUM LEVEL** [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling is to be conducted when seal(s) are present when possible.
6. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge. If more than one ICU unit discharge occurs in a sample day, a grab sample of equal volume must be collected from each monitoring location and combined into a single sample for analysis. The Permittee must include as an attachment to the DMR, the sample location (sample tap from ICU pumps #1 #2, #3, …) that was used for the compliance sample.

Table E – Acute Toxicity Monitoring

Discharge Serial Number: DSN 003-AT

Monitoring Location Codes: T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Wastewater from draining 10 inches or more form the Individual Care Units and well water overflow from the Individual Care Units

Monitoring Location Description: Sample tap located post ICU pump #1-#7 and prior to the sand filter or directly from the tanks

Discharge is to: Mystic River | **Zone of Influence:** 47,754 gallons per hour | **Instream Waste Concentration:** 11.7 % | **Outfall Location:** Latitude (41◦ 22’ 22” and Longitude (71◦ 57’ 54”)

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Whole Effluent Toxicity (WET)										
Acute Aquatic Toxicity[6] *Daphnia pulex,* LC_{50}	TAA3D	%	NA	41.1	Semi-Annually	Daily Composite	NA	NR	NA	
Acute Aquatic Toxicity[6] *Pimephales promelas,* LC_{50}	TAA6C	%	NA	41.1	Semi-Annually	Daily Composite	NA	NR	NA	
Acute Aquatic Toxicity[6] *Mysidopsis bahia,* LC_{50}	TAA3E	%	NA	41.1	Semi-Annually	Daily Composite	NA	NR	NA	
Acute Aquatic Toxicity[6] *Cyprinodon variegatus,* LC_{50}	TAA6A	%	NA	41.1	Semi-Annually	Daily Composite	NA	NR	NA	
Chemical Analyses Required with Acute Whole Effluent Toxicity Monitoring – See Section 7.1.6. for Acute Testing [7]										
Date of Acute WET Chemistry Sample Collection[8]	51883	YYYYMMDD	NA	---	Semi-Annually	Calculated	NA	NR	NA	
Alkalinity	00410	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	0.02
Copper, Dissolved	01040	µg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Copper, Total	01042	µg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	3
Dissolved Oxygen	00300	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Hardness, Total	00900	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen, Ammonia (total as N)	00610	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen, Kjeldahl (total as N)	00625	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen, Nitrate (total as N)	00620	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Nitrogen, Nitrite (total as N)	00615	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	

Table E – Acute Toxicity Monitoring

Discharge Serial Number: DSN 003-AT

Monitoring Location Codes:
T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Wastewater from draining 10 inches or more form the Individual Care Units and well water overflow from the Individual Care Units

Monitoring Location Description: Sample tap located post ICU pump #1-#7 and prior to the sand filter or directly from the tanks

Discharge is to: Mystic River | **Zone of Influence:** 47,754 gallons per hour | **Instream Waste Concentration:** 11.7 % | **Outfall Location:** Latitude (41◦ 22’ 22” and Longitude (71◦ 57’ 54”)

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Nitrogen, Total (as N)[9]	00600	lbs/day	NA	---	Semi-Annually	Calculation	NA	NR	NA	
pH	00400	SU	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Phosphorus, Total	00665	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Salinity	00480	Mg/l	NA	----	Semi-Annually	Daily Composite	NA	NR	NA	
Specific Conductance	51409	uMhos	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Temperature	00011	Deg. F.	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	---	Semi-Annually	Daily Composite	NA	NR	NA	

Table E – Acute Toxicity Monitoring

Discharge Serial Number: DSN 003-AT	**Monitoring Location Codes:** T – Acute toxicity effluent results and chemical analyses
Wastewater Description: Wastewater from draining 10 inches or more form the Individual Care Units and well water overflow from the Individual Care Units	
Monitoring Location Description: Sample tap located post ICU pump #1-#7 and prior to the sand filter or directly from the tanks	

Discharge is to: Mystic River	**Zone of Influence:** 47,754 gallons per hour	**Instream Waste Concentration:** 11.7 %	**Outfall Location:** Latitude (41◦ 22’ 22” and Longitude (71◦ 57’ 54”)

PARAMETER	**NET DMR CODE**	**UNITS**	**FLOW/TIME BASED MONITORING**				**INSTANTANEOUS MONITORING**			**MINIMUM LEVEL[5]**
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,10]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	

TABLE A FOOTNOTES AND REMARKS

Footnotes:

[1] WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.

[2] The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry and the “Sample Frequency” is more frequent than monthly, then the “Reporting Frequency” is monthly. If the “Sample Frequency” is specified as monthly, or less frequent, then the “Reporting Frequency” is monthly.

[3] If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Section 8.2 of this permit.

[4] Daily composite samples shall be collected for acute toxicity tests consistent with the methodology outlined in Section 7.1 of this permit.

[5] “Minimum Level” refers to Section 6.3 of this permit.

[6] Acute toxicity testing shall be conducted, and species selected in accordance with Footnote 10 of this table. The LC_{50} results (in %) for the acute toxicity testing shall be reported on the DMR. The Aquatic Toxicity Monitoring Report (“ATMR”) shall be completed for each toxicity testing event and submitted in accordance with Section 8.2 of this permit.

[7] Chemical analyses shall be conducted on samples used in the acute toxicity tests. These analyses shall be conducted on all samples used in the acute toxicity test and reported under Monitoring Location T. Results shall also be included on the ATMR and submitted in accordance with Section 8.2 of this permit.

[8] The Permittee shall report the date of sample collection for the acute toxicity test and associated chemistry data in the format: year month day (YYYYMMDD).

[9] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: mg/L means milligrams per liter; SU means Standard Units; mg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling; RDM means Range During Month.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. Analyses that indicate that a parameter was not detected or that was detected less than the noted ML shall be reported in accordance with Section 6.5.
4. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge. If more than one ICU unit discharge occurs in a sample day, a grab sample of equal volume must be collected from each monitoring location and combined into a single sample for analysis. The Permittee must include as an attachment to the DMR, the sample location (sample tap from ICU pumps #1 #2, #3, …) that was used for the compliance sample.

Table F

Discharge Serial Number: DSN 004 | **Monitoring Location:** 1 (EXTERNAL OUTFALL)

Wastewater Description: Disinfection of tanks and ground around the Seal Rescue Clinic

Monitoring Location Description: Directly from the blocked trench drain in the Animal Rescue Clinic

Discharge is to: Mystic River | **Instream Waste Concentration (IWC):** 1%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Quarterly	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	22.7	69.8	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Quarterly	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	3.600	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[6]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	---	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table G

Discharge Serial Number: DSN 005 | **Monitoring Location:** 1 (EXTERNAL OUTFALL)

Wastewater Description: Disinfection of tanks and ground surfaces in the Aquatic Animal Study Center

Monitoring Location Description: Directly from trench drain within the berm at the Aquatic Animal Study Center | **Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")

Discharge is to: Mystic River | **Instream Waste Concentration (IWC):** 1%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
Ammonia (as N)	00610	mg/L	----	----	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Quarterly	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[3]	82220	gpd	NA	3.600	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[4] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table H

Discharge Serial Number: DSN 006	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more from the Marine Theater	
Monitoring Location Description: Sample tap post Marine Theater tanks' sand filtration system or directly from the tanks.	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 26.3%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
Ammonia (as N)	00610	mg/L	----	----	Per event	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Per event	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Per event	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Per event	Grab	NA	NR	NA	
Flow, Total[3]	82220	gpd	NA	409,000	Per event	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Per event	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Per event	Grab	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Per event	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Per event	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Per event	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Per event	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Per event	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Per event	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[4] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge. If the Permittee dishcarges through more then one sample location in a day, a grab sample of equal volume must be collected from each monitoring location and combined into a single sample for analysis. The Permittee must include as an attachment to the DMR, the sample location (sample tap from pump #1, #2, and or #3) that was used for the compliance sample.

Table I

Discharge Serial Number: DSN 007	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more from the Arctic Coast	
Monitoring Location Description: Sample tap post Arctic Coast primary line pump or directly from the tank	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 41.1%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
Ammonia (as N)	00610	mg/L	0.77	1.66	Quarterly	Grab	NA	NR	Grab	
Chlorine, Total Residual	50060	mg/L	0.02[5]	0.02	Quarterly	Grab	0.02	NR	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[3]	82220	gpd	NA	800,000	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[4] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

[5] The average monthly limit for this parameter is 0.011 mg/L. The average monthly limit is below the ML for the analytical test: therefore, a compliance level of 0.02 mg/l has been set equivalent to the ML. Results at or below the compliance level will be considered in compliance with permit effluent limits. Effluent data shall be reported in accordance with Section 6.5.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table J

Discharge Serial Number: DSN 008	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from raining 10 inches or more from the Pacific Northwest Exhibit Tank	
Monitoring Location Description: Sample tap post Pacific Northwest primary line pump or directly from the tank	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 11.6 %

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Quarterly	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	2.16	6.63	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Quarterly	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	150,000	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[6]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table K

Discharge Serial Number: DSN 009 | **Monitoring Location:** 1 (EXTERNAL OUTFALL)

Wastewater Description: Overflow and draining of exhibit area freshwater pond and stream

Monitoring Location Description: Exhibit area pond and stream overflow | **Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")

Discharge is to: Mystic River | **Instream Waste Concentration (IWC):** 19.6%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
Ammonia (as N)	00610	mg/L	----	----	Annually	Daily Composite	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Annually	Grab[5]	0.02
Enterococci	61211	#/100ml	NA	----	Annually	Daily Composite	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Annually	Daily Composite	NA	NR	NA	
Flow, Total[3]	82220	gpd	NA	280,000	Annually	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Annually	Daily Composite	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Annually	Daily Composite	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Annually	Daily Composite	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Annually	Daily Composite	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Annually	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Annually	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Annually	Daily Composite	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Annually	Daily Composite	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[4] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

[5] For TRC grab samples: the Permittee shall take a grab sample at the beginning, middle, and end of the discharge.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.

Table L – Acute Toxicity Monitoring

Discharge Serial Number: DSN 009-AT

Monitoring Location Codes: T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Overflow and draining of exhibit area freshwater pond and stream

Monitoring Location Description: Exhibit area pond and stream overflow

Discharge is to: Mystic River | **Zone of Influence:** 47,754 gallons per hour | **Instream Waste Concentration:** 19.6 % | **Outfall Location:** Latitude (41◦ 22' 22" and Longitude (71◦ 57' 54")

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,11]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Whole Effluent Toxicity (WET)										
Acute Aquatic Toxicity[6] *Daphnia pulex,* LC_{50}	TAA3D	%	NA	----	Annually[9]	Daily Composite	NA	NR	NA	
Acute Aquatic Toxicity[6] *Pimephales promelas,* LC_{50}	TAA6C	%	NA	----	Annually[9]	Daily Composite	NA	NR	NA	
Chemical Analyses Required with Acute Whole Effluent Toxicity Monitoring – See Section 7.1.6. for Acute Testing [7]										
Date of Acute WET Chemistry Sample Collection[8]	51883	YYYYMMDD	NA	---	Annually[9]	Calculated	NA	NR	NA	
Alkalinity	00410	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	0.2
Copper, Dissolved	01040	µg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Copper, Total	01042	µg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	3
Dissolved Oxygen	00300	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Hardness, Total	00900	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Nitrogen, Ammonia (total as N)	00610	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Nitrogen, Kjeldahl (total as N)	00625	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Nitrogen, Nitrate (total as N)	00620	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Nitrogen, Nitrite (total as N)	00615	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Nitrogen, Total (as N)[10]	00600	lbs/day	NA	---	Annually[9]	Calculation	NA	NR	NA	
pH	00400	SU	NA	---	Annually[9]	Daily Composite	NA	NR	NA	

Table L – Acute Toxicity Monitoring

Discharge Serial Number: DSN 009-AT

Monitoring Location Codes:
T – Acute toxicity effluent results and chemical analyses

Wastewater Description: Overflow and draining of exhibit area freshwater pond and stream

Monitoring Location Description: Exhibit area pond and stream overflow

Discharge is to: Mystic River	**Zone of Influence:** 47,754 gallons per hour	**Instream Waste Concentration:** 19.6 %	**Outfall Location:** Latitude (41◦ 22' 22" and Longitude (71◦ 57' 54")

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL[5]
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit[1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4,11]	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported	
Phosphorus, Total	00665	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Specific Conductance	51409	uMhos	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Temperature	00011	Deg. F.	NA	---	Annually[9]	Daily Composite	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	---	Annually[9]	Daily Composite	NA	NR	NA	

TABLE A FOOTNOTES AND REMARKS

Footnotes:

[1] WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.

[2] The first entry in this column is the "Sample Frequency". If a "Reporting Frequency" does not follow this entry and the "Sample Frequency" is more frequent than monthly, then the "Reporting Frequency" is monthly. If the "Sample Frequency" is specified as monthly, or less frequent, then the "Reporting Frequency" is monthly.

[3] If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Section 8.2 of this permit.

[4] Daily composite samples shall be collected for acute toxicity tests consistent with the methodology outlined in Section 7.1 of this permit.

[5] "Minimum Level" refers to Section 6.3 of this permit.

[6] Acute toxicity testing shall be conducted, and species selected in accordance with Section 7.1 of this permit. The LC_{50} results (in %) for the acute toxicity testing shall be reported on the DMR. The Aquatic Toxicity Monitoring Report ("ATMR") shall be completed for each toxicity testing event and submitted in accordance with Section 8.2 of this permit.

[7] Chemical analyses shall be conducted on samples used in the acute toxicity tests. These analyses shall be conducted on all samples used in the acute toxicity test and reported under Monitoring Location T. Results shall also be included on the ATMR and submitted in accordance with Section 8.2 of this permit.

[8] The Permittee shall report the date of sample collection for the acute toxicity test and associated chemistry data in the format: year month day (YYYYMMDD).

[9] The Permittee may sample the discharge at any time during the calendar year and submit the data on the December DMR.

[10] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

[11] For daily composite and grab sample average samples types: if the duration of the discharge is less than 3 hours, the Permittee is required to take equal volume aliquots at the beginning, middle, and end of the discharge.

Remarks:

1. Abbreviations used for units are as follows: mg/L means milligrams per liter; SU means Standard Units; mg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling; RDM means Range During Month.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. Analyses that indicate that a parameter was not detected or that was detected less than the noted ML shall be reported in accordance with Section 6.5.

Table M

Discharge Serial Number: DSN 010	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more from the Penguins Pavilion	
Monitoring Location Description: Sample tap prior to the Penguin Pavillion primary line pump or directly from the tank	**Outfall Location:** Latitude (41◦ 22’ 22”) and Longitude (71◦ 57’ 54”)
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 3.1%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Quarterly	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	9.59	23.1	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Quarterly	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	36,840	Quarterly	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[6]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the “Sample Frequency. If a “Reporting Frequency” does not follow this entry, then the “Reporting Frequency” is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels (“MLs”) identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee’s analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day..

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table N

Discharge Serial Number: DSN 011	**Monitoring Location:** 1 (EXTERNAL OUTFALL)
Wastewater Description: Wastewater from draining 10 inches or more from the Pacific Northwest Holding Pool	
Monitoring Location Description: Sample tap post Pacific Northwest Holding Pool primary line pump or directly from the tank	**Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")
Discharge is to: Mystic River	**Instream Waste Concentration (IWC):** 1%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
(Interim)[3] Ammonia (as N)	00610	mg/L	----	----	Annually	Grab	NA	NR	NA	
(Final)[4] Ammonia (as N)	00610	mg/L	31.8	68.2	Annually	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	NA	NA	NR	NA	0.02	Annually	Grab	0.02
Enterococci	61211	#/100ml	NA	----	Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Annually	Grab	NA	NR	NA	
Flow, Total[5]	82220	gpd	NA	6,500	Annually	Daily flow	NA	NR	NA	
Nitrate (as N)	00620	mg/L	NA	----	Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[6]	00600	lbs/day	NA	----	Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Annually	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Annually	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] Interim limits take effect upon permit effective date.

[4] Final limits shall take effect four years and 11 months after the effective date of the permit or upon completion of all actions required under Section 10.1 of this Permit.

[5] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge.

[6] Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

Table O

Discharge Serial Number: DSN 012 | **Monitoring Location:** 1 (EXTERNAL OUTFALL)

Wastewater Description: Partial drain of less than 10 inches of any of the tanks covered by DSNs 001 through DSN 0011 (i.e., overflow and draining of Exhibit Tanks and Pools associated with routine maintenance activities)

Monitoring Location Description: In accordance with the Monitoring Location Description in Tables A-N. | **Outfall Location:** Latitude (41◦ 22' 22") and Longitude (71◦ 57' 54")

Discharge is to: Mystic River | **Instream Waste Concentration (IWC):** 14.9%

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	
Ammonia (as N)	00610	mg/L	NA	----	Quarterly	Grab	NA	NR	NA	
Chlorine, Total Residual	50060	mg/L	0.024	0.04	Quarterly	Grab	0.3	Quarterly[5]	Grab	0.02
Chlorine, Total Residual	50059	g/hour	NA	NA	Quarterly	Grab	5.7	Quarterly	Grab	
Enterococci	61211	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Fecal coliform	74055	#/100ml	NA	----	Semi-Annually	Grab	NA	NR	NA	
Flow, Total[3]	82220	gpd	NA	200,000	Quarterly	Daily Flow	NA	NR	NA	
Flow, Instantaneous	00059	Gal/hour	NA	NA	NR	NA	22,000	Quarterly	Flow	
Nitrate (as N)	00620	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrite (as N)	00615	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen, Total (as N)[4]	00600	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Nitrogen Kjeldahl, Total (as N)	81639	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	
pH, Minimum	61942	SU	NA	NA	NR	NA	6.8	Quarterly	Grab	
pH, Maximum	61941	SU	NA	NA	NR	NA	8.5	Quarterly	Grab	
Phosphorus, Total	00665	lbs/day	NA	----	Semi-Annually	Grab	NA	NR	NA	
Total Suspended Solids	00530	mg/L	NA	----	Semi-Annually	Grab	NA	NR	NA	

TABLE FOOTNOTES AND REMARKS

Footnotes:

[1] The first entry in this column is the "Sample Frequency. If a "Reporting Frequency" does not follow this entry, then the "Reporting Frequency" is monthly.

[2] Refer to Section 6.3 of this permit. The minimum levels ("MLs") identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.5.

[3] For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge, the locations that discharged that day, and the duration of discharge at each location.

[4]Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.

Table O											
Discharge Serial Number: DSN 012							**Monitoring Location:** 1 (EXTERNAL OUTFALL)				
Wastewater Description: Partial drain of less than 10 inches of any of the tanks covered by DSNs 001 through DSN 0011 (i.e., overflow and draining of Exhibit Tanks and Pools associated with routine maintenance activities)											
Monitoring Location Description: In accordance with the Monitoring Location Description in Tables A-N.							**Outfall Location:** Latitude (41◦ 22’ 22”) and Longitude (71◦ 57’ 54”)				
Discharge is to: Mystic River							**Instream Waste Concentration (IWC):** 14.9%				
PARAMETER	**NET DMR CODE**	**UNITS**	**FLOW/TIME BASED MONITORING**				**INSTANTANEOUS MONITORING**			**MINIMUM LEVEL** [2]
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [1]	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported	

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; mg/L means milligrams per liter; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling.
2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. In calculating average concentrations, use zeros for values reported as less than the ML.
4. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
5. Compliance monitoring to be conducted during dry weather only.
6. This table covers the partial lowering and draining of exhibit tanks and pools associated with routine maintenance activities. Should the level of any tank be lowered by more than 10 inches, it shall only be done in accordance with the restriction provided in Tables A through N.
7. Wastewater shall be analyzed for total residual chlorine (“TRC”) prior to discharge and if the concentration is ≤ 0.3 mg/l, the following formula shall be used to determine the maximum hourly flow authorized by the permit, up to the maximum of 22,000 gpd: maximum Instantaneous Flow (gal/hour) = 1,585/(# mg/l TRC).
8. Sampling must be conducted while the life support system is recirculating the pool/tank water and no later than 30 minutes prior to initiating a discharge.

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

6.1 All samples shall be collected, handled, and analyzed in accordance with the methods approved under 40 CFR 136, unless another method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5. To determine compliance with limits and conditions established in this permit, monitoring must be performed using sufficiently-sensitive methods approved pursuant to 40 CFR 136 for the analysis of pollutants having approved methods under that part, unless a method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5.

6.2 All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136, unless otherwise specified.

6.3 The term Minimum Level ("ML") refers to either the sample concentration equivalent to the lowest calibration point in a method or a multiple of the method detection limit ("MDL"). MLs may be obtained in several ways: They may be published in a method; they may be sample concentrations equivalent to the lowest acceptable calibration point used by the laboratory; or they may be calculated by multiplying the MDL in a method, or the MDL determined by a lab, by a factor of 3. The MLs specified in Section 5 Tables A - O. represent the minimum concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Section 5 Tables A – O. Analyses for these parameters must include check standards within ten percent of the specified ML or calibration points equal to or less than the specified ML.

6.4 The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible, consistent with the requirements of this Section of the permit.

6.5 Analyses for which quantification was verified to be below a ML, including non-detect, shall be reported as "less than the [ML]" where '[ML]' is the numerical value equivalent to the ML for that analysis on the DMR. Analytical results indicating that a parameter was not present at a concentration equal to or greater than the ML specified for that analysis shall be considered equivalent to zero (0.0) for purposes of determining compliance with effluent limitations or conditions that require calculations. The Permittee shall attach documentation demonstrating the ML of the analysis as an attachment to the DMR.

6.6 It is a violation of this permit for a Permittee or his/her designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed.

6.7 Analyses required under this permit shall be performed in accordance with Conn. Gen. Stat. Section 19a-29a. An "environmental laboratory", as that term is defined in the referenced section, that is performing analyses required by this permit, shall be registered and have certification acceptable to the Commissioner, as such registration and certification is necessary.

SECTION 7: AQUATIC TOXICITY TESTING

7.1 **ACUTE TESTING REQUIREMENTS.** The Permittee shall conduct acute aquatic toxicity testing for DSN 001, 003, and 009 as follows:

7.1.1 **TEST METHOD**: Acute aquatic toxicity shall be performed as prescribed in the reference document *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA-821-R-02-012), or the most current version, with any exceptions or clarifications noted below.

7.1.2 **SAMPLE COLLECTION AND HANDLING:**

7.1.2.1 Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 0-6 °C until aquatic toxicity testing is initiated.

7.1.2.2 Effluent samples shall not be dechlorinated, filtered, or modified in any way prior to testing for acute aquatic toxicity unless specifically approved in writing by the Commissioner for monitoring at this facility.

7.1.2.3 Tests for acute aquatic toxicity shall be initiated within 36 hours of sample collection.

7.1.3 **TEST SPECIES AND TEST DURATION:** Monitoring for aquatic toxicity to determine compliance with the acute toxicity limits in this permit shall be conducted as follows:

7.1.3.1 For when salinity of the wastewater at time of discharge is 20 ppt or less

7.1.3.1.1 For 48-hours utilizing neonatal *Daphnia pulex* (less than 24-hours old) if salinity.

7.1.3.1.2 For 48-hours utilizing larval *Pimephales promelas* (1-14 days old with no more than 24-hours range in age).

7.1.3.2 For when salinity of the wastewater at time of discharge is 21 ppt or more

7.1.3.2.1 48-hours utilizing neonatal *Mysidopsis bahia* (1-5 days old with no more than 24-hours range in age).

7.1.3.2.2 For 48-hours utilizing larval *Cyprinodon variegatus* (1-14 days old with no more than 24-hours range in age).

7.1.4 **ACUTE ENDPOINT:** Survival at 48-hours measured by LC_{50}.

7.1.5 **TEST CONDITIONS:**

7.1.5.1 Tests for acute aquatic toxicity shall be conducted as prescribed for static non-renewal tests.

7.1.5.2 Definitive (multi-concentration) testing, with LC50 as the endpoint, shall be conducted to determine compliance with limits on acute aquatic toxicity and monitoring conditions and shall incorporate, at a minimum, the following effluent concentrations: 100%, 50%, 25%, 12.5%, 6.25%, and 3%.

7.1.5.3 For *Daphnia pulex* and *Pimephales promelas*: Synthetic freshwater prepared with deionized water adjusted to a hardness of 50 mg/L (±5 mg/L) as $CaCO_3$ shall be used as dilution water.

7.1.5.4 For tests utilizing *Mysidopsis bahia* and *Cyprinodon variegatus*: Aquatic toxicity tests with saltwater organisms shall be conducted at a salinity of 25 parts per thousand (±2 parts per thousand).

7.1.5.4.1 Synthetic seawater for use as dilution water or controls shall be prepared with deionized water and artificial sea salts as described in EPA/821-R-02-012.

7.1.5.4.2 If the salinity of the source water is more than 5 parts per thousand higher, or lower than the culture water used for rearing the organisms, a second set of controls matching the salinity of the culture water shall be added to the test series. Test validity shall be determined using the controls adjusted to match the source water salinity.

7.1.5.4.3 Salinity adjustment that may be required in tests with saltwater organisms shall utilize the minimum amount of synthetic hypersaline brine (not to exceed 100 parts per thousand) or dilute (2 parts per thousand) synthetic seawater necessary to achieve the required salinity.

7.1.5.4.4 The actual effluent concentrations in definitive tests with saltwater organisms shall be used in calculating test results.

7.1.5.5 For tests utilizing *Mysidopsis bahia* and *Cyprinodon variegatus*: All effluent concentrations and the control(s) used in the test shall have the same salinity. If the effluent requires salinity adjustment to a standard salinity, this shall be accomplished by adding a minimum amount of commercial sea salts as described in EPA-821-R-02-012.

7.1.5.6 *Mysidopsis bahia* shall be fed during the tests. All other organisms shall not be fed.

7.1.5.7 For tests using *Daphnia pulex* and *Pimephales promelas*: Copper nitrate shall be used as the reference toxicant. For tests utilizing *Mysidopsis bahia* and *Cyprinodon variegatus*; Sodium lauryl sulfate or sodium dodecyl sulfate shall be used as the reference toxicant.

7.1.5.8 Dissolved oxygen, pH, and temperature shall be measured in the control and in all test concentrations at the beginning of the test, daily thereafter, and at test termination.

7.1.5.9 Specific conductance, pH, salinity, alkalinity, hardness, and total residual chlorine shall be measured in the undiluted effluent sample and in the dilution (control) water at the beginning of the test and at test termination. If total residual chlorine is not detected at test initiation, it does not need to be measured at test termination.

7.1.6 **CHEMICAL ANALYSIS:** All effluent samples used in the acute toxicity test, including salinity adjusted effluent samples, if salinity adjustment is required, shall at a minimum, be analyzed and results reported in accordance with the provisions listed in Section 5 Table B, E, and L and Section 6.1 for the parameters identified on Section 5 Table B, E, and L of the permit.

7.1.7 **TEST ACCEPTABILITY CRITERIA:** For the test results to be acceptable, control survival must equal or exceed 90%. If the laboratory control fails to meet test acceptability criteria for either of the test organisms at the end of the respective test period, then the test is considered invalid and the test must be repeated with a newly collected sample in accordance with Section 9.4.

7.1.8 **TEST COMPLIANCE:** Compliance with limits on Acute Toxicity shall be determined as follows:

7.1.8.1 For limits expressed as a minimum LC50 value, compliance shall be demonstrated when the results of a valid definitive acute aquatic toxicity test indicates that the LC50 value for the test is greater than the acute toxicity limit.

7.1.9 **REPORTING:** Results of acute toxicity monitoring shall be documented on an ATMR and reported to the Commissioner by the last day of the month following the month in which samples are collected in accordance with Section 8.2 of this permit. The report shall include the items identified in Section 8.2 of this permit. Endpoints to be reported are: 48-hour LC50 and NOAEL.

SECTION 8: REPORTING REQUIREMENTS

8.1 The results of chemical analyses and any aquatic toxicity test required by this permit shall be submitted electronically using NetDMR. Monitoring results shall be reported at the monitoring frequency specified in this permit. Any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136, or another method required for an industry-specific waste stream under 40 CFR subchapter N, or other methods approved by the Commissioner, shall also be included on the DMR, or as an attachment, if necessary, and the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Commissioner in the permit. All aquatic toxicity reports shall also be included as an attachment to the DMR. A report shall also be included with the DMR which includes a detailed explanation of any violations of the limitations specified. DMRs, attachments, and reports, shall continue to be submitted electronically in accordance with Section 8.4 below. However, if the DMRs, attachments, and reports are required to be submitted in hard copy form, they shall be received at this address by the last day of the month following the month in which samples are collected:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

8.2 The ATMR associated with aquatic toxicity monitoring shall include all applicable items identified in Section 12 of EPA-821-R-02-012 and in Section 10 of EPA-821-R-02-013 (Freshwater) or EPA-821-R-02-014 (Saltwater), including complete and accurate aquatic toxicity test data, including percent survival of test organisms in each replicate test chamber, LC_{50} values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, including measured daily flow and hours of operation for the 30 consecutive operating days prior to sample collection. The ATMR shall be submitted electronically as an attachment to the DMR and via email to: DEEP.IndustrialWETReports@ct.gov. The ATMR required by Sections 5 and 7 shall be received at this address by the last day of the month following the month in which the samples are collected.

8.3 If this permit requires monitoring of a discharge on a calendar basis (e.g., monthly, quarterly, etc.), but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR and ATMR, as scheduled, indicating no discharge has occurred using NODI code "C", For those permittees whose required monitoring is discharge dependent (e.g., per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

8.4 NetDMR Reporting Requirements:

The Permittee shall report electronically using NetDMR, a web-based tool that allows permittees to electronically submit DMRs and other required reports through a secure internet connection. The Permittee and/or the signatory authority shall electronically submit DMRs required under this permit to the Commissioner using NetDMR in satisfaction of the DMR submission requirements of Sections 5, 6, and 9 of this permit. All sampling and monitoring records required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Commissioner as an electronic attachment to the DMR in NetDMR. The Permittee shall also electronically file any written report of noncompliance described in Section 9 of this permit as an attachment in NetDMR. DMRs shall be submitted electronically to the Commissioner no later than the last day of the month following the completed reporting period. NetDMR is accessed from: http://www.epa.gov/netdmr.

SECTION 9: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

9.1 *Noncompliance Notifications:*

9.1.1 In accordance with Section 22a-430-3(j)(8), 22a-430-3(j)(11)(D), 22a-430-3(k)(4), and 22a-430-3(i)(3) of the RSCA, the Permittee shall notify the Commissioner of the following actual or anticipated noncompliance with the terms or conditions of this permit within two hours of becoming aware of the circumstances. All other actual or anticipated violations of the permit shall be reported to the Commissioner within 24 hours of becoming aware of the circumstances:

9.1.1.1 A noncompliance that is greater than two times an effluent limitation;

9.1.1.2 A noncompliance of any minimum or maximum daily limitation or excursion beyond a minimum or maximum daily range;

9.1.1.3 Any condition that may endanger human health or the environment, including but not limited to noncompliance with whole effluent toxicity WET limitations;

9.1.1.4 Any condition that may endanger the operation of a POTW, including sludge handling and disposal;

9.1.1.5 A failure or malfunction of monitoring equipment used to comply with the monitoring requirements of this permit;

9.1.1.6 Any actual or potential bypass of the Permittee's collection system or treatment facilities; or

9.1.1.7 Expansions or significant alterations of any wastewater collection, treatment facility, or its method of operation for the purpose of correcting or avoiding a permit violation.

9.1.2 Notifications shall be submitted via the Commissioner's online Noncompliance Notification Form: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

9.1.3 Within five days of any notification of noncompliance in accordance with Sections 9.1.1.1 through 9.1.1.6 of this permit, the Permittee shall submit a follow-up report using the Commissioner's online Noncompliance Follow-up Report Form: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

The follow-up report shall contain, at a minimum, the following information: (i) A description of the noncompliance and its cause; (ii) the period of noncompliance, including exact dates and times; (iii) if the noncompliance has not been corrected, the anticipated time it is expected to continue; and (iv) steps taken or planned to correct the noncompliance and reduce, eliminate and prevent recurrence of the noncompliance.

9.1.4 Within 30 days of any notification of facility modifications reported in accordance with Section 9.1.1.7 of this permit, the Permittee shall submit a written follow-up report by submitting a "Facility and Wastewater Treatment System Modification Request for Determination" for the review and approval of the Commissioner. The report shall fully describe the changes made to the facility and reasons therefor.

9.1.5 Notification of an actual or anticipated noncompliance or facility modification does not stay any term or condition of this permit.

9.2 In accordance with Section 22a-430-3(j)(11)(E) of the RSCA, the Permittee shall notify the Commissioner within 72 hours and in writing within 30 days when he or she knows or has reason to believe that the concentration in the discharge of any substance listed in the application, or any toxic substance as listed in Appendix B or D of RSCA Section 22a-430-4, has exceeded or will exceed the highest of the following levels: (1) One hundred micrograms per liter; (2) Two hundred micrograms per liter for acrolein and acrylonitrile, five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony; (3) An alternative level specified by the Commissioner, provided such level shall not exceed the level which can be achieved by the Permittee's treatment system; or (4) A level two times the level specified in the Permittee's application.

72-hour initial notifications shall be submitted via the Commissioner's online Noncompliance Notification Form. 30-day follow-up reports shall be submitted via the Commissioner's online Noncompliance Follow-up Report Form. The Forms are available at the Commissioner's website, here: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

9.3 In addition to any other written reporting requirements, the Permittee shall report any instances of noncompliance with this permit with its DMR. Such reporting shall be due no later than the last day of the month following the reporting period in which the noncompliant event occurred. The information provided in the DMR shall include, at a minimum: the type of violation, the duration of the violation, the cause of the violation, and any corrective action(s) or preventative measure(s) taken to address the violation.

9.4 If any sample analysis indicates that an aquatic toxicity effluent limitation in Section 5 of this permit has been exceeded, or that the test was invalid, another sample of the effluent shall be collected and tested for aquatic toxicity and associated chemical parameters, as described above in Sections 5 and 7. The exceedance or invalid test shall be reported to Commissioner in accordance with Section 9.1. The results shall be submitted to the Commissioner within 30 days of the exceedance or invalid test. The results and the associated ATMR shall be reported in accordance with Sections 5 and 8.2 of the permit. Results of all tests, whether valid or invalid, shall be reported. If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the month's DMR.

9.5 If any two consecutive test results or any three test results in a twelve-month period indicate that an aquatic toxicity limit has been exceeded, the Permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall also submit a report, for the review and written approval of the Commissioner, which describes in detail the steps taken or that shall be taken to eliminate the toxic impacts of the discharge on the receiving water and it shall also include a proposed schedule for implementation. Such report shall be submitted in accordance with the timeframe set forth in Section 22a-430-3(j)(10)(C) of the Regs. Conn. State Agencies. The Permittee shall implement all actions in accordance with the approved report and schedule.

SECTION 10: COMPLIANCE SCHEDULE

10.1 **Ammonia (as N) Final Effluent Limits**

The Permittee shall achieve compliance with the Ammonia (as N) limitations for DSNs 001, 002, 003, 004, 008, 010, and 011 as soon as possible but in no event later than **four years and 11 months** after the effective date of this permit in accordance with the following:

10.1.1 **Qualified Professional.** On or before **90 days** after the effective date of this permit, the Permittee shall notify the Commissioner in writing of a qualified professional retained to prepare the documents and implement or oversee the actions required under Section 10.1 of this permit. The professional shall be a professional engineer licensed to practice in Connecticut.

The professional shall be retained until all actions required under this permit section have been completed. The Permittee shall notify the Commissioner in writing within **10 days** of retaining an alternative professional.

If requested, the Permittee shall submit a description of a professional's education, experience and training to the Commissioner within ten days of such request. The Commissioner may determine at any time that a previously accepted professional is no longer acceptable.

10.1.2 **Scope of Study.** On or before **90 days** after the effective date of this permit, the Permittee shall submit, for the Commissioner's review, a scope of study and schedule for completing the analysis and final report required by Section 10.1.3.

10.1.3 **Alternative Analysis.** On or before **one year and six months** after the effective date of the permit, the Permittee shall submit for the Commissioner's review and approval, a comprehensive report evaluating options for achieving compliance with the final effluent limits. Such report shall:

10.1.3.1 Evaluate alternative actions to achieve compliance with the final effluent limitations in DSNs 001, 002, 003, 004, 008, 010, and 011, but not limited to, pollutant source reduction; process changes/innovations; chemical substitutions; recycle and zero discharge systems; water conservation measures; and other internal, tertiary, and end-of-pipe treatment technologies;

10.1.3.2 Provide a detailed schedule for performing each alternative. At the minimum, the schedule shall address planning, design, permitting, and construction phases;

10.1.3.3 List all permits and approvals required for each alternative;

10.1.3.4 Propose a preferred alternative or combination of alternatives with supporting justification; and

10.1.3.5 Provide a detailed plan and schedule to perform all actions to implement the preferred alternative. The schedule shall include the timeline associated with the planning, design, permitting, construction, and operation of the preferred alternative.

10.1.4 **Implementation.** The Permittee shall perform the approved actions in accordance with the approved schedule. Within **14 days** after completing such actions, the Permittee shall certify to the Commissioner in writing that the actions have been completed as reviewed/approved.

10.1.5 **Final Plans and Specifications.** The Permittee shall submit final plans and specifications of the selected alternative to the Commissioner. At a minimum, the final plans and specifications shall include detailed drawings to scale of all collection, treatment and disposal facilities, including all individual unit operations and their interconnection, and illustrative drawings of process controls, piping, instrumentation, chemical feed equipment and alarms.

10.2 **pH Final Effluent Limits**

The Permittee shall achieve compliance with the pH limitations in DSN 003 as soon as possible but in no event later than **four years and 11 months** after the effective date of this permit in accordance with the following:

10.2.1 **Qualified Professional.** On or before **90 days** after the effective date of this permit, the Permittee shall notify the Commissioner in writing of a qualified professional retained to prepare the documents and implement or oversee the actions required under Section 10.2 of this permit. The professional shall be a professional engineer licensed to practice in Connecticut.

The professional shall be retained until all actions required under this permit section have been completed. The Permittee shall notify the Commissioner in writing within **10 days** of retaining an alternative professional.

If requested, the Permittee shall submit a description of a professional's education, experience and training to the Commissioner within ten days of such request. The Commissioner may determine at any time that a previously accepted professional is no longer acceptable.

10.2.2 **Scope of Study.** On or before **90 days** after the effective date of this permit, the Permittee shall submit for the Commissioner's review a plan and schedule to complete the report specified in Section 10.2.2 of this permit.

10.2.2 **Alternative Analysis.** On or before **one year and 6 months** after the effective date of the permit, the Permittee shall submit for the Commissioner's review a comprehensive and thorough report which describes and evaluates alternative actions which may be taken by the Permittee to achieve compliance with final effluent limits. Such report shall:

10.2.2.1 Evaluate alternative actions to achieve compliance with the pH limitations in DSN 003 including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero discharge systems, water conservation measures, and other internal and/or end-of-pipe treatment technologies;

10.2.2.2 State in detail the most expeditious schedule for performing each alternative;

10.2.2.3 Propose a preferred alternative or combination of alternatives with supporting justification; and

10.2.2.4 A detailed program and schedule to perform all actions required by the preferred alternative. The schedule shall include the timeline associated with the planning, design, permitting, construction, and operation of the preferred alternative.

10.2.4 **Implementation.** The Permittee shall perform the approved actions in accordance with the approved schedule. Within **14 days** after completing such actions, the Permittee shall certify to the Commissioner in writing that the actions have been completed as reviewed/approved.

10.2.5 **Final Plans and Specifications.** The Permittee shall submit final plans and specifications of the selected alternative to the Commissioner. At a minimum, the final plans and specifications shall include detailed drawings to scale of all collection, treatment and disposal facilities, including all individual unit operations and their interconnection, and illustrative drawings of process controls, piping, instrumentation, chemical feed equipment and alarms.

10.3 The Permittee shall submit to the Commissioner semi-annual status reports on June 30th and December 31st of each year, beginning **60 days** after the date of concurrence of the reports referenced in Sections 10.1.2 and 10.2.2 above. Status reports shall include the following:

10.3.1 A description of the work performed by the Permittee during the past six months towards compliance with Section 10.1.2 and 10.2.2 above;

10.3.2 An assessment of whether the Permittee is on schedule to comply with the compliance deadline;

10.3.3 If the Permittee is not on-track to comply with the compliance deadline, the steps the Permittee will take to comply.

10.5 The Permittee shall use best efforts to submit to the Commissioner all documents required by this section of the permit in a complete and approvable form. If the Commissioner notifies the Permittee that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and the Permittee shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within thirty days of the Commissioner's notice of deficiencies. In approving any document or other action under this Compliance Schedule, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this section of the permit. Nothing in this paragraph shall excuse noncompliance or delay.

10.6 **Dates.** The date of submission to the Commissioner of any document required by this section of the permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this section of the permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" as used in this section of the permit means calendar day. Any document or action which is required by this section only of the permit, to be submitted, or performed, by a date which falls on, Saturday, Sunday, or, a legal Connecticut or federal holiday, shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or legal Connecticut or federal holiday.

10.7 **Notification of noncompliance.** Except as otherwise provided in this permit, in the event that the Permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this section of the permit or of any document required hereunder, the Permittee shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Permittee shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Permittee shall comply with any dates that may be approved in writing by the Commissioner. Notification by the Permittee shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.

10.8 **Notice to Commissioner of changes.** Within fifteen (15) days of the date the Permittee becomes aware of a change in any information submitted to the Commissioner under this section of the permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the Permittee shall submit the correct or omitted information to the Commissioner.

10.9 **Submission of documents.** Any document, other than a discharge monitoring report, required to be submitted to the Commissioner under this section of the permit shall, unless otherwise specified in writing by the Commissioner, be directed to:

DEEP.IndustrialNPDESCompliance@ct.gov with the subject line "Permittee Name - Permit #"

This permit is hereby issued on

_____

JENNIFER PERRY, P.E.
Bureau Chief

JP/ PB

National Pollutant Discharge Elimination System Permit Factsheet

NPDES Permit Summary	
Applicant	Mystic Aquarium, a Division of Sea Research Foundation Inc.
Permit No.	CT0020630
Application No.	201304082
Date Application Received	September 13, 2013
Location Address	55 Coogan Boulevard Mystic, CT 06355
Facility Contact	David Moyer Office Phone: 860 572-5955 Email: dmoyer@mysticaquarium.org
Mailing Address	55 Coogan Boulevard Mystic, CT 06355
DMR Contact	Gayle Sirpenski Office Phone: 860 572-5955 Email: gsirpenski@searesearch.org
Secretary of State Business ID	0535688
Permit Term	5 Years
Permit Category	National Pollutant Discharge Elimination System ("NPDES") Minor ("MI")
SIC & NAICS Code(s)	8422
Applicable Effluent Guidelines	NA
Permit Type	Reissuance
Ownership	Privately Owned Facility
Receiving Water	Mystic River
Waterbody Segment Id's	CT-E1_007-SB
Waterbody Classification	SB
Discharge Locations	DSN 001-012 Latitude 41◦ 22' 22" Longitude 71◦ 57' 54"
Compliance Schedule/Actions	No
Staff Engineer	Patrick Bieger, Environmental Engineer II, Email: patrick.bieger@ct.gov Phone:(860) 424-3805

Table of Contents

Section 1 Facility Summary

1.1 Permit Fees

***Application Fee**:*

Filing Fee	Invoice No.: DEP224129	Amount: $1,300	Date Paid: 9/13/2013
Processing Fee	Invoice No.: DEP299044	Amount: $6,300	Date Paid: 6/1/2018

Annual Fee:

Wastewater Category (per Regs. Conn. State Agencies Sec. 22a-430-7)	Flow Category (gallons per day) ("gpd")	DSN	Annual Fee (per Regs. Conn. State Agencies Sec. 22a-430-7 and Conn. Gen. Stat. sec. 22a-6f)
******Fish Hatchery & Farm*	>1,000,000	**DSN 001-012**	$4,337.50
Total			**$4,377.50**

*This facility is not a fish hatchery or farm, but the fee category was assigned to this facility because it best represents the wastewater discharged under this permit.

1.2 Application Submittal Information

On September 13, 2013, the Department of Energy and Environmental Protection ("DEEP") received an application (Application 201304082) from Mystic Aquarium, a Division of Sea Research Foundation Inc. ("the Permittee", "the Applicant", "the facility") in Mystic for the renewal of its NPDES Permit No. CT002630, expiring on March 17, 2014 ("the previous permit").

Consistent with the requirements of Section 22a-6g of the Connecticut General Statutes ("Conn. Gen. Stat."), the Permittee published a Notice of Permit Application in The Day newspaper on September 17, 2013. On October 18, 2013, the application was determined to be timely and administratively sufficient.

The Permittee seeks authorization for the following in Application 201304082:

DSN	Proposed Maximum Daily Flow (gpd)	Proposed Wastestreams	Treatment Type	Discharge To
001 (Former 001a)	18,500	Wastewater from draining ten inches or more from the Pre-Release Tank ("PRT") and well water overflow from the PRT	Dechlorination	Mystic River
002 (Former 001b)	200,000	Wastewater from draining 10 inches or more from the Aquatic Animal Study Center ("AASC")	Dechlorination and Denitrification	Mystic River
003 (Former 001c)	40,000	Wastewater from draining 10 inches or more from the Individual Care Units ("ICUs"); well water overflow from the ICUs.	Dechlorination	Mystic River
004 (Former 001d)	3,600	Disinfection of tanks and ground around the Seal Rescue Clinic	NA	Mystic River
005 (Former 001e)	3,600	Disinfection of tanks and ground surfaces in the Aquatic Animal Study Center	NA	Mystic River
006 (Former 002a)	409,000	Wastewater from draining 10 inches or more from the Marine Theater ("MT").	Dechlorination and Protein Skimming	Mystic River
007 (Former 003a)	800,000	Wastewater from draining 10 inches or more from the Arctic Coast ("AC").	Dechlorination and Protein Skimming	Mystic River
008 (Former 003b)	280,400	Wastewater from draining 10 inches or more from the Pacific Northwest ("PNW").	Dechlorination and Protein Skimming	Mystic River

DSN	Proposed Maximum Daily Flow (gpd)	Proposed Wastestreams	Treatment Type	Discharge To
009 (Former 003c)	280,000	Overflow and draining of exhibit area freshwater pond and stream	NA	Mystic River
010 (Former 003d)	36,840	Wastewater from draining 10 inches or more from the Penguins Pavilion ("PP");	Dechlorination	Mystic River
011 (Former 003e)	6,500	Wastewater from draining 10 inches or more from the Pacific Northwest Holding Pool ("PNHP").	Dechlorination	Mystic River
The previous DSN 004 was removed from the permit. A new DSN 004 is defined above.				
012 (Former 005)	200,000 gpd 22,000 gallons per hour	Partial drain of any of the tanks covered by DSNs 001-011 (i.e., draining of exhibit tanks and pools associated with routine maintenance activities)	Dechlorination	Mystic River

All discharges at this facility are collected, comingled, and conveyed to the same location in the Mystic River through the Permitee's stormwater conveyance system at the site.

The discharge serial numbers under this permit have been updated since the previous permit.

1.3 Other Permits

The Permittee is covered under the General Permit for Non-Significant Industrial User Discharges to Publicly Owned Treatment Works ("Non-SIU GP"), which includes freshwater discharges from the Milne Center and cleaning and disinfection wastewater from DSNs 001, 002, 006, 007, 008, 010, and 011 that were previously requested to be covered under this permit.

1.4 Description of Industrial Process

Mystic Aquarium, owned and operated by Sea Research Foundation Inc., functions primarily as an aquarium, used for the public exhibition of aquatic plants, invertebrates, fish, and marine mammals. The facility also assists in the rescue and rehabilitation of stranded marine mammals and serves as an educational and research institution. The aquarium houses a number of year-round and seasonal exhibits; some are located indoors and others outdoors. Wastewater is generated from the operation and maintenance of these exhibits, as well as from the rescue clinics at the facility. The wastewater is discharged to the Mystic River by way of DSNs 001-012 under this permit

1.5 Facility Description

The Animal Rescue Clinic (DSN 001, DSN 003, and DSN 004):

The Animal Rescue Clinic is used for the rehabilitation of stranded animals brought to the aquarium. The clinic is located outside and operates year-round. It contains a series of holding tanks that are designed for each stage of the rehabilitation process. This includes: seven Individual Care Units ("ICUs"), with a total volume of 4,900 gallons; two critical care tubs, with a volume of 400 gallons each; and a PRT, with a volume of 3,750 gallons. While in the clinic, the animals may need to be treated for disease or parasitic infections with various antibiotics, antifungals, parasiticides, and topicals. These substances can be applied to the seals or the water.

The tanks and care units used to hold the animals contain either filtered/dechlorinated municipal water or well water as the source water. Water in the tanks/units is maintained at a salinity of 0 to 35 parts per thousand ("ppt"); if necessary, brine is added to the municipal water for salinity adjustment. Sodium hypochlorite is added to the municipal water for disinfection purposes and soda ash, or sodium bicarbonate are added to the water to maintain the required operating pH (6.0, minimum).

Water is added to the care units to maintain the required temperature. If the system is on well water, the water is run continuously (at 40 gallons per minute) through the systems; if the systems are using municipal water, municipal water is added, as necessary, to fill the unit to its operating capacity. Each of the ICUs and the PRT are equipped with a sand filter which continuously circulates and filters the water in the tanks/units to remove solids. Filtered water is returned back to the tanks/units for reuse. The filters are periodically backwashed with well or municipal water and filter backwash is discharged to the municipal sewer via a collection tank. DSN 001 had a backwash and drain wastewater reclamation process completed in 2025, reducing discharge volume through DSN 001. PRT has a portion of water diverted to the filtration system treated with ozone; the ozone-treated water is returned back to the pools for reuse. Chillers may be used in the warmer months to cool the water in tanks; the chillers are closed-loop and do not generate any water.

Water is released from the tanks/units in order to maintain water quality within acceptable parameters. The contents of the tanks are either partially or fully drained based on the quality of the water. Sodium thiosulfate is used to reduce the chlorine level in the wastewater prior to release into the stormwater collection system. When animals are in the clinic, the exterior of the ICUs and the asphalt near these tanks are cleaned and disinfected daily with sodium hypochlorite; Accel, a hydrogen peroxide based cleaner; and Formula 10, a food safe no-rinse sanitizer. Cleaning and disinfection wastewaters are discharged under DSN 004 when animals are in the clinic. Cleaning wastewater from within the ICU tanks are no longer covered under this permit and will be discharged under the Non-SIU GP.

Tank draining above 10 inches occurs twice per week for the PRT (DSN 001) and up to 4 times a year for the ICUs and critical care tubs (DSN 003). A discharge from tank cleaning occurs up to 6 times per month (DSN 004). All operations at this location are dependent on the needs of the organisms within the tank and on rain events. Trench pipes can be blocked, and samples are taken from a sample port and trench drainpipes for DSN 003 and 004, respectively, before discharge. Sodium bicarbonate may be added to the water to maintain the required discharge pH.

Aquatic Animal Study Center (DSN 002 and DSN 005):

The AASC is used for research, as well as for the rehabilitation of a variety of stranded marine mammals or for the quarantine/holding of mammals or fish. The center is located outside and operates year-round. The AASC consists of two main pools, with a total volume of 188,400 gallons, and a medical pool, with a volume of 2,944 gallons. While in the AASC, the animals may need to be treated for disease or parasitic infections with antibiotics, antifungals, parasiticides, and topicals.

The pools used to hold the animals contain filtered/dechlorinated municipal water as the source water. Sodium/calcium hypochlorite or ACL90 (a chlorine-based disinfectant) is added to the municipal water for disinfection purposes and soda ash, or sodium bicarbonate are added to the water to maintain the required operating pH. Aluminum sulfate may be added to the skimmers for flocculation.

Water from the pools is continuously pumped to a set of sand filters which remove solids from the water. The filters are periodically backwashed with system water. Filtered water is returned back to the pools for reuse; the filter backwash is sent to a recovery tank and discharged to the municipal sewer. A portion of recirculated water is treated with ozone for disinfection before reentering the pools.

When the quality of the water becomes unacceptable, the contents of the pools are drained, either partially or fully, depending on the needs of the animals. The tanks are drained around 6 times per year through DSN 002. A discharge under DSN 005 has not occurred in the last 2 years but is still applicable to the facility and will remain in the permit. Sodium thiosulfate is added as needed to the pool water prior to discharge to stormwater collection system. As needed, the exterior of the AASC tanks and the asphalt near these tanks is cleaned and disinfected and discharged through DSN 005. Samples are collected either from the sample tap located post pool pump and prior to the sand filters or area drains respectively.

Marine Theatre (DSN 006):

The Marine Theatre is an indoor exhibit for viewing marine mammals, sharks and fish. The theatre consists of one main pool, approximately 300,000 gallons in volume; two smaller connected pools, approximately 80,000 gallons combined; and a ray touch pool, approximately 10,000 gallons. The total volume of water in the system, including the life support and related plumbing, is 409,000 gallons. As necessary, the exhibit mammals may need to be treated for disease or parasitic infection with antibiotics, antifungals, parasiticides, and topicals. The pools used to hold the animals contain filtered municipal water as the source. Water in the pools is maintained at a salinity of 30-35 ppt; brine or a synthetic seawater blend is added to the municipal water for salinity adjustment. Soda ash or sodium bicarbonate are added to the water to maintain the required operating pH.

Water from the pools are continuously pumped into a set of sand filters which remove animal waste and excess feed from the water. The filters are periodically backwashed with system water. The wastewater is sent to a recovery tank and filtered water is returned for reuse in the pool; recovered filtered solids are discharged to the municipal sewer. A portion of the water diverted to the filtration system is treated with ozone; the ozone-treated water is also returned back to the pools for reuse. Some of the filter water is also directed to a chiller; the chiller is closed-loop and does not generate any water. The water for the Ray Touch Pool can also be treated in a protein skimmer (foam fractionator), which is designed to remove nitrogenous compounds and proteins from the water. The water treated in the protein skimmer is returned back to the exhibit; the wastewater generated from the operation is discharged to the municipal sewer.

Eventually, the quality of the water in the pools will no longer meet operating standards and needs to be removed. When this is necessary, the contents of the pools are partially/fully drained depending on nitrate levels. In rare instances when sodium hypochlorite is added to the system, as needed sodium thiosulfate is added to the water to reduce the chlorine levels prior to release into the stormwater collection system. A discharge from this location has not occurred since 2018 but is still applicable and remains in the permit. . Each of the three tanks in the Marine Theater contain a discharge pump and sample port. Samples are collected from a sample tap located after the marine theater tanks sand filtration system.

Arctic Coast (DSN 007):

The Arctic Coast is an outdoor, year-round exhibit for viewing beluga whales. The exhibit consists of one main pool approximately 590,000 gallons in volume; a holding pool, approximately 120,000 gallons in volume; and a medical pool, approximately 40,000 gallons in volume. The pools are surrounded by a structure that is designed to look like a beach. The volume of water in the system, including life support and related plumbing, is 800,000 gallons. The exhibit animals may need to be treated for disease or parasitic infections with any number of antibiotics, antifungal, parasiticides, and topicals. The pools used to hold animals contain filtered/dechlorinated municipal water as the source water. Brine is added to the water for salinity adjustment. Sodium/calcium hypochlorite municipal water for disinfection purposes and soda ash or sodium bicarbonate are added to the water to maintain the required operating pH.

Water from the pools is continuously pumped to a set of sand filters which remove solids from the water. Aluminum sulfate may be added to the pool water prior to filtration in order to facilitate solids removal. A chiller may be used in the warmer months to cool the water; the chiller is closed loop and does not generate any wastewater. The filters are periodically backwashed with system water; the filtered water is recovered and returned to the exhibit; the filtered solids are discharged to the sewer. A side stream of the filtered water diverted to an ozone system for disinfection of the water. Following ozone treatment, the water is directed to a protein skimmer to remove nitrogenous compounds and proteins from the water. Water treated in the protein skimmer is returned to the system; the waste removed through the protein skimmer is discharged to the municipal sewer.

Periodically, the water in the pools will need to be removed because rain events increase the volume beyond the operating level, or an animal needs to be handled for a medical procedure. When this occurs, the contents of the tanks are either partially or fully drained. As the wastewater flows to the stormwater collection system, it is treated with sodium thiosulfate to reduce the chlorine level in the wastewater. As necessary, the beaches associated with the exhibit are also periodically cleaned and disinfected with sodium hypochlorite, Formula 10, and Accel. These wastewaters enter the tank after draining has been completed and is routed to the municipal sewer under the Non-SIU GP. Discharge from this location occurs around once every three months. Samples are taken from a tap located after the primary discharge line pump.

Pacific Northwest (DSN 008):

The PNW is an outdoor, year-round exhibit for viewing sea lions and seals. The exhibit consists of three pools: 56,100 gallons, 119,200 gallons, and 130,000 gallons. The pools are surrounded by a structure that is designed to look like a beach. The volume of water in the system, including life support and related plumbing, is 305,300 gallons. The exhibit animals may need to be treated for disease or parasitic infections with any number of antibiotics, antifungals, parasiticides, and topicals. The pools used to hold the animals contain filtered/dechlorinated municipal water as the source water with brine added to reach the desired salinity. A chiller may be used in the warmer months to cool the water; the chiller is closed loop and does not generate any wastewater. As necessary, sodium hypochlorite is added to the municipal water for disinfection purposes; soda ash or sodium bicarbonate are added to the water to maintain the required operating pH.

Water from the pools is continuously pumped to a set of sand filters which remove solids from the water; aluminum sulfate may be added to the pool water in order to facilitate solids removal. The filters are periodically backwashed with system water; the filtered water is recovered and returned to the exhibit and the filtered solids are discharged to the sewer. A portion of the filtered water is diverted to an ozone system for disinfection. Following treatment with ozone, the water is directed to a protein skimmer for removal of nitrogenous compounds and proteins. Water treated in the protein skimmer is returned to the system; the waste removed through the protein skimmer is discharged to the municipal sewer. Eventually, the water in the pools will need to be removed because precipitation events increase the volume beyond the operating level, or an animal needs to be handled for a medical procedure. When this is necessary, the contents of the tanks are either partially or fully drained. Prior to discharge, water may be treated with sodium thiosulfate to reduce chlorine levels which can then be discharged to the stormwater collection system. As necessary, the beaches associated with the exhibit are also periodically cleaned and disinfected with sodium hypochlorite, Formula 10, and Accel. The wastewater generated from this operation enters the exhibit pool after draining has been completed and is routed to the municipal sewer under the Non-SIU GP. DSN 008 discharges up to 4 times a year and samples are collected directly from the tanks prior to discharge. Samples are taken from a tap located after the primary discharge line pump.

Freshwater Pond (DSN 009):

This is an outdoor, year-round exhibit that includes a man-made pond that contains animals including fish, frogs, ducks, turtles, and herons. The total estimated volume of the pond is 280,000 gallons. The source water to the pond is supplied by the on-site well; well water is added to the pond to maintain water level. No filtration or water treatment chemicals are used in the pond water. The pond is equipped with air diffusers that add dissolved oxygen to the water. As needed, a biological mosquito larvicide, VectoLex, is added to the water. The pond is cleaned physically approximately once every other year. This location discharges approximately once every 2-5 years and would contain only pond water. The sample location is the surface directly before the pond outlet.

Penguin Pavilion (DSN 010):

The PP is an outdoor, year-round exhibit for viewing penguins. The exhibit consists of one pool with a volume of 32,200 gallons. The volume of water in the system, filters, and related plumbing, is 36,840 gallons. The exhibit animals may need to be treated for disease or parasitic infections as needed, with antibiotics, antifungals, parasiticides, and topicals. The pool contains filtered/dechlorinated municipal water as the source water. Sodium hypochlorite is added to the municipal water for disinfection purposes and soda ash, or sodium bicarbonate are added to the water to maintain the required operating pH. During the summer months, sodium hypochlorite dosage rates may be increased in order to control algae.

Water from the pools may be continuously pumped to a sand filter which removes solids from the water; aluminum sulfate is added to the pool water in order to facilitate solids removal. The filter is periodically backwashed with municipal water. Filter backwash is discharged to the municipal sewer, and the filtered water is returned back to the pools for reuse. Chillers may be used in the warmer months to cool the water in tanks; the chillers are closed loop and do not generate water. In the colder months, a heat exchanger may be used to heat the pool water; the heat exchanger is closed loop and does not generate any wastewater. The clarity of the water determines when it needs to be discharged. Prior to discharge, sodium thiosulfate is added directly into the pool water to reduce the chlorine content. Following addition of sodium thiosulfate, the entire contents of the tank are released into the stormwater collection system. This location can discharge up to 4 times per year, a sample is taken from a sample tap located after the primary discharge line pump

Pacific Northwest Holding Pools (DSN 011):

The PNW exhibit also includes an indoor holding pool (DSN 011) with a volume of 2,600 gallon that serves as an isolation, treatment, and holding unit for pinnipeds. Filtered/dechlorinated municipal water or water from the PNW is used as source water. Brine is added as necessary. Sodium hypochlorite is added to the water for disinfection purposes. Water is continuously circulated through a sand filter, which is backwashed as necessary with municipal water. Filtered water is returned back to the pool for reuse, while filter backwash is discharged to the municipal sewer via a collection tank. Aluminum sulfate may be added to the pool water in order to facilitate solids removal. A chiller may be used in the warmer months to cool the water in tanks; the chiller is closed loop and does not generate any water. Clarity determines whether the water needs to be removed from the holding pool and discharged via DSN 0011. Sodium thiosulfate is used to dechlorinate the wastewater prior to discharge into the stormwater system.

DSN 011 is virtually discontinued at the site. However, the Permittee still wishes to keep the discharge active as it retains its ability to drain and discharge. Samples would be taken from a tap located after the primary discharge line pump.

Partial Drain Down of Less Than Ten Inches (DSN 012):

All exhibit tanks described above periodically need to be partially drained to manage the water level following precipitation events. The discharge from the partial draining of the exhibit tanks less than ten inches from the operating level of the tank are authorized through DSN 012. The wastewater is treated with sodium thiosulfate prior to discharge into the stormwater system.

Historically, all DSNs required monitoring on a per discharge basis. Tanks can be partially drained multiple times per day due to the changing needs of the marine organism or possible rainfall. A DSN dedicated to partial drain downs was created in the 2000 permit issuance to prevent the Permittee from being required to take daily samples of each tank. Additionally, the partial drain down waters would contain a larger amount of stormwater than a complete drain down during normal operations. This DSN was given a quarterly monitoring frequency to ensure that those discharges were still monitored. In 2011 the previous permit was modified, and a limit was given to this DSN based off of the maximum volume of a 10 inch drain down.

All discharges are monitored internally by the Permittee to ensure compliance with the permit limits before discharge. Partial drain downs receive the same treatment as the corresponding tank's description above.

1.6 Facility Changes

The Regulations of the Connecticut State Agencies ("Regs. Conn. State Agencies") require that Permittees notify DEEP and obtain written approval of any facility expansion or process change that may result in an increased or new discharge or constitute a new source, and of any expansion or significant changes made to a wastewater collection system, treatment system, or its method of operation in accordance with Regs. Conn. State Agencies Section 22a-430-3(i). These regulatory provisions are commonly referred to as "3(i) determinations". DEEP will review the notification and determine if the change can be implemented under the current permit or if the requested change requires a permit modification to protect waters of the State in accordance with Regs. Conn. State Agencies Section 22a-430-4(p).

3(i) Number	3(i) Description	Date Issued	Change Implemented
202508529	A request to add backwash reclamation to DSN 001, upgrading DSN 001's filtration system with inline water chilling and disinfection, and installation of additional sample ports before the sand filters on DSN 001 and DSN 003.	1/7/2026	Yes
202508527	Request to add an autotrophic sulfur denitrification treatment to DSN 002.	1/7/2026	Yes

Other facility changes:

In 2022, the Permittee completed the removal of the "Challenge of the Deep" Tank and the waterfront pool from their facility. The tank and pool were previously covered under DSN 004. Those discharges are no longer covered under this permit and DSN 004 has been designated as the location for the disinfection wastewater discharge from the Animal Rescue Clinic.

Cleaning and disinfection at DSNs 001, 002, 006, 007, 008, 010, and 011 is still being conducted. The Permittee no longer allows these wastewaters to enter the pools/tanks as they are being drained under this permit. These wastewaters enter the pools/tanks after draining has been completed and valves switched to divert the cleaning and disinfection waters to the municipal sewer under the Non-SIU GP.

Sample Locations:

The sample locations have been updated from the previous permit by Permittee request. The new locations are described both in the permit and in the facility description above. The previous locations were directly from the aquarium exhibit tanks. The Permittee requested that DSN 001, 00, 003, 006, 007, 008, 009, 010, and 011 be moved to sample ports located within the exhibit discharge and recirculation piping. After review of the Permittee's O&M Plan, Sampling Plan, and discharge piping schematics, it was determined the new sampling locations meet all requirements and can capture a sample representative of the discharge.

1.7 Treatment System Description

There is no centralized treatment system for the discharges at the facility. However, certain tanks contain protein skimmers and sand filters, which remove animal wastes from the tanks. DSN 002 has a denitrification process to reduce nitrogen in the tanks. Additionally, the tanks can be treated chemically to ensure the health of the animals. If necessary, wastewater is dechlorinated and adjusted for pH prior to discharge.

1.8 Compliance History

A review of the Permittee's monitoring data from January 1, 2020 to January 1, 2025 was completed. The table below contains a summary of permit limit violations found during the review.

Permit Limit Violations					
Date	**Parameter**	**DSN**	**Permit Limit**	**Reported Value**	**Units**
10/31/2022	Total residual chlorine	004	0.02	0.07	mg/L
06/30/2022	pH (Maximum)	011	9	9.06	S.U.
07/31/2024	Total residual chlorine	011	0.02	0.59	mg/L
01/31/2021	Total residual chlorine	012	5.7	7.54	g/hr

Is the Permittee subject to an ongoing enforcement action? ☐ Yes ☒ No

Did the previous permit have a compliance schedule? ☐ Yes ☒ No

1.9 General Issues Related to the Application

1.9.1 Federally Recognized Indian Land

As provided in the permit application, the site is not located on federally-recognized Indian land.

1.9.2 Coastal Area/Coastal Boundary

The activity is located within a coastal boundary as defined in Conn. Gen. Stat. 22a-94(b).

1.9.3 Endangered Species

As provided in the permit application, the site is located within an area identified as a habitat for endangered, threatened or special concern species according to the *State and Federal Listed Species and Natural Communities Map*. It was determined that the proposed activities will not impact any extant populations of federal or state endangered, threatened or special concern species in the vicinity of the discharge.

1.9.4 Aquifer Protection Areas

As provided in the permit application, the site is not located within a protected area identified on a Level A or B map.

1.9.5 Conservation Or Preservation Restriction

As provided in the permit application, the property is not subject to a conservation or preservation restriction.

1.9.6 Public Water Supply Watershed

As provided in the permit application, the site is not located within a public water supply watershed,

Section 2 Receiving Water Body Information

The Permittee discharges into the section of the Mystic River identified as Waterbody Segment ID CT-E1_007-SB. This section of the river is classified as "SB". Class SB water is designated for: habitat for fish and other aquatic life and wildlife; recreation; industrial water supply; navigation; and commercial shellfish harvesting.

This waterbody segment is listed as an impaired waterbody in the State's 305(b) list of impaired waters. The impairment is to shellfish harvesting due to fecal coliform. Recreation and aquatic life are fully supported by the River. A Total Maximum Daily Load ("TMDL") has not yet been developed for this impairment.

Additionally, *A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound*, December 2000, applies to this waterbody. The Permittee's discharge has not been assigned a waste load allocation for total nitrogen as part of this TMDL.

The 2024 results of assessed and impaired waters are listed on the Connecticut Integrated Water Quality Report ("IWQR"): https://portal.ct.gov/-/media/deep/water/water_quality_management/305b/2024/final-2024-iwqr.pdf?rev=dc2b70f96a2047f0aa5c8beac4849d9d&hash=33F2D83C70C5A00E6CE87440BAE51473.

Figure 1. Image of Discharge Location

Results of the 2022 IWQR Appendix A-3				
Waterbody Segment ID	**Aquatic Life**	**Recreation**	**Shellfish**	**Shellfish Class**
CT-E1_007-SB	Fully Supporting	Fully Supporting	Not Supporting	Commercial shellfish harvesting where authorized

Results of the 2022 IWQR Appendix B-1			
Waterbody Segment ID	**Waterbody Name**	**Cause**	**Impaired Designated Use**
CT-E1_007-SB	LIS EB Inner-Mystic River (Mouth) Stonington	Fecal coliform	Commercial shellfish harvesting where authorized

Section 3 Permit Conditions and Effluent Limitations

3.1 Effluent Guidelines

The following Effluent Guidelines and Standards were reviewed to determine their applicability to the facility's discharge:

The Concentrated Aquatic Animal Production Point Source Category at 40 CFR Part 451 was reviewed for applicability with the Permittee's discharge. The category is applicable to discharges from facilities that produce 100,000 pounds or more of aquatic animals per year. The Permittee does not produce aquatic animals for sale; therefore, the category is not applicable to the waters discharged at the site.

3.2 Pollutants of Concern

The following pollutants have been identified as pollutants of concern and are included as monitoring requirements in the permit for the reasons noted below:

DSN 001-012

Pollutant	Reason For Inclusion			
	Pollutant With an Applicable Technology-Based Limit	Pollutant With a Waste Load Allocation From a TMDL	Pollutant Identified as Present in the Effluent Through Sampling	Pollutant Otherwise Expected to be Present in the Effluent
Copper*			X	
Fecal Coliform			X	
Total Nitrogen			X	
Total Ammonia Nitrogen			X	
Nitrate (as N)			X	
Nitrite (as N)			X	
Total Kjeldahl Nitrogen				X
pH			X	
Total Phosphorus				X
Salinity			X	
Total Suspended Solids			X	
Total Residual Chlorine			X	

*Only applicable to DSN 001, DSN 003 and DSN 009.

3.3 Basis for Limits

Technology and water-quality based requirements are considered when developing permit limits. Technology-based effluent limits ("TBELs") represent the minimum level of control imposed under the Clean Water Act ("CWA"). Industry-specific technology-based limits are set forth in 40 CFR Sections 405 – 471 (EPA's Effluent Limitation Guidelines) and in Regs. Conn. State Agencies Section 22a-430-4(s)(2). Water quality-based limits are designed to protect water quality and are determined using the procedures set forth in EPA's *Technical Support Document for Water Quality-Based Toxics Control*, 1991 ("TSD"). When both technology and water quality-based limits apply to a particular pollutant, the more stringent limit would apply. In addition, water quality-based limits are required when any pollutant or pollutant parameter (conventional, non-conventional, toxic, and whole effluent toxicity) is or may be discharged at a level that causes, has reasonable potential to cause, or contributes to an excursion above any water quality criteria. Numeric water quality criteria are found in Regs. Conn. State Agencies Section 22a-429-9 of the *Connecticut Water Quality Standards* ("WQS").

3.4 Waterbody Ambient Conditions

Parameter	Value
pH*	7.6-8.2 S.U.
Salinity*	1-32 part per thousand ("ppt")
Temperature*	32-79 ◦F

* Data for these parameters was taken from the United States Geological Survey ("USGS") station at the Ram Island Yacht Club at Noank, CT.

3.5 Zone of Influence ("ZOI")

This permit contains a ZOI based on a portion of the 7Q10 of the Mystic River. The 7Q10 was calculated using the drainage area and stratified drift in the drainage basin, upstream of the Permittee's discharge. The ZOI of 47,754 gallons per hour ("gph"), which is half of the 7Q10 of the Mystic River, was then allotted to all discharges from the site.

DSNs 002, 004, 005, 006, 007, 008, 009, 010, and 011 are allowed to utilize the site's full ZOI due to their infrequency of discharge. DSN 012 also can utilize the sites full ZOI. DSN 012 allows for partial draining of less than 10 inches of water from all tanks described in DSNs 001-011. However, Section 5.5 of the proposed permit prohibits these outfalls from discharging concurrently with any outfall regulated by the permit to ensure the site's ZOI is not exceeded by concurrent discharges. DSN 001 and DSN 003 are allocated 30% and 70% of the ZOI based on their flow volumes.

DSN	**Allocated ZOI**	**Instream Waste Concentration**
001	14,326 gph	9.4%
002	47,754 gph	14.9%
003	33,427gph	11.7%
004	47,754 gph	1%
005	47,754 gph	1%
006	47,754 gph	26.3%
007	47,754 gph	41.1%
008	47,754 gph	11.6%
009	47,754 gph	19.6%
010	47,754 gph	3.1%
011	47,754 gph	1%
012	47,754 gph	14.9%

3.6 Reasonable Potential Analysis

Pursuant to CWA Section 301(b)(1)(C) and 40 CFR Section 122.44(d)(1), NPDES permits must contain any requirements in addition to TBELs that are necessary to achieve water quality standards established under Section 303 of the CWA. See also 33 United States Code (USC) Section 1311(b)(1)(C). In addition, limitations "must control any pollutant or pollutant parameter (conventional, non-conventional, or toxic) which the permitting authority determines are or may be discharged at a level which will cause, have the reasonable potential to cause, or contribute to an excursion above any water quality standard, including State narrative criteria for water quality." 40 CFR Section 122.44(d)(1)(i). To determine if the discharge causes, or has the reasonable potential to cause, or contribute to an excursion above any WQS, EPA considers: 1) existing controls on point and non-point sources of pollution; 2) the variability of the pollutant or pollutant parameter in the effluent; 3) the sensitivity of the species to toxicity testing (when evaluating whole effluent toxicity); and 4) where appropriate, the dilution of the effluent by the receiving water. See 40 CFR Section 122.44(d)(1)(ii).

If the permitting authority determines that the discharge of a pollutant will cause, has the reasonable potential to cause, or contribute to an excursion above WQSs, the permit must contain Water Quality Based Effluent Limits ("WQBELs") or require additional monitoring if there is insufficient data to develop a WQBEL, for that pollutant. See 40 CFR Section 122.44(d)(1)(i).

The Permittee discharges to an estuarine portion of the Mystic River. This section of the river can fluctuate in salinity from 1 ppt to 28 ppt. The Regs. Conn. State Agencies Section 22a-430-3(j)(7)(A)(iii)(a-c) classifies freshwater at salinity of 1 ppt or less, estuarine at 10-20 ppt, and saltwater over 20 ppt salinity. As the receiving water salinity fluctuates between all three ranges both the saltwater and freshwater WQS were used when determining reasonable potential. For this permit all saltwater criteria were found to be more stringent than the freshwater criteria.

Total Ammonia Nitrogen: The following freshwater acute and chronic WQS for ammonia were determined using equations specified in Section 22a-426-9 of the WQS for the purpose of the reasonable potential analysis. These can be found in Figure A.2 in Attachment A of this factsheet.

The saltwater acute and chronic WQS are expressed as un-ionized ammonia. Equivalent total ammonia standards were converted from the un-unionized ammonia standards by performing the procedure described in *Ambient Water Quality Criteria for Ammonia (Saltwater)—1989*, EPA 440/5-88-004. While the freshwater criteria vary in response to ambient surface water temperature, pH, and the presence of salmonids.

The values for pH, salinity, and temperature data needed for both criteria were found using data collected between 2023 and 2025 at the USGS gage station at Ram Island Yacht Club at Noank, CT- 411940071590300. The critical receiving water values are summarized in the table below.

Receiving Water Critical Values	
Parameter	**Value**
pH	8.2 S.U.
Salinity	10.0 ppt
Temperature	23.8 ◦C

Below are the calculated ammonia criteria for freshwater and saltwater. The saltwater criteria were found to be more stringent and are used in the reasonable potential analysis for ammonia. The full ammonia criteria calculations are included as Attachment A of this factsheet.

Calculated Ammonia Criteria			
	Acute	**Chronic**	**4-Day Average**
Freshwater Salmonids	3.83 mg/l	0.99 mg/l	2.46 mg/l
Freshwater No Salmonids	5.73 mg/l	0.99 mg/l	2.46 mg/l
Saltwater	2.64 mg/l	0.4 mg/l	NA

3.6.1 Reasonable Potential Calculation Summary

A reasonable potential analysis was completed for ammonia, copper, and chlorine for each DSN, except DSN 006 and 009, when applicable. Monitoring data from January 1, 2020 to January 1, 2025 (found in Attachment C) was used for the analysis. DSN 006 has not discharged in the past 5 years and DSN 009 has been sampled once during the last 5 years. Therefore, there is not enough data to run a reasonable potential analysis for those discharge locations at this time. Monitoring will continue at these locations as they are expected to be utilized during the next permit term.

Monitoring data was reviewed from January 1, 2020 through January 1, 2025. The average concentration, maximum concentration, the standard deviation of the data, the coefficient of variation ("CV"), the number of data points, and a statistical multiplier was found for each parameter analyzed.

The equation to calculate the CV is: $$CV = \frac{Standard\ Deviation}{Average}$$

A statistical multiplier is found for each parameter using a lookup table found in the TSD. The lookup table calculates a statistical multiplier using the number of samples and the CV.

The Permittee's flow and ZOI used for this analysis are included at the end of the factsheet as Attachment B.

Summary of Monitoring Data							
DSN	**Parameter**	**Average Value**	**Maximum Value**	**Standard Deviation**	**CV**	**Number of Samples**	**Statistical Multiplier**
001	Copper	7.8 µg/l	36 µg/l	9.6	1.2	10	6.6
	Chlorine	17 µg/l	20 µg/l	5	0.3	7	2
	Ammonia	2,029 µg/l	7,500 µg/l	2.15	1.1	20	3.8
002	Chlorine	14.6 µg/l	20 µg/l	5.4	0.4	16	1.9
	Ammonia	6,249 µg/l	7,400 µg/l	17.3	2*	17	2.5
003	Chlorine	15.4 µg/l	20 µg/l	5.4	0.3	20	1.6
	Ammonia	1,675 µg/l	14,200 µg/l	3,144	1.9	20	6.5
004	Chlorine	17.5 µg/l	70 µg/l	17.9	0.8	12	3.7
	Ammonia	1,818 µg/l	13,200 µg/l	3,680	2*	12	10.6
005	Chlorine	16.7 µg/l	20 µg/l	4.7	0.3	3	2.5
	Ammonia	356 µg/l	1,010 µg/l	462	1.3	3	22.2
006	No RP Completed (Insufficient Data)						
007	Chlorine	15 µg/l	20 µg/l	6.7	0.4	10	2.2
	Ammonia	112 µg/l	300 µg/l	74	0.7	10	3.5
008	Chlorine	12.5 µg/l	20 µg/l	5.1	0.4	10	2.2
	Ammonia	328 µg/l	2,280 µg/l	654	2	10	12.6
009	No RP Completed (Insufficient Data)						
010	Chlorine	12.9 µg/l	20 µg/l	4.5	0.4	14	2
	Ammonia	6,599 µg/l	16,400 µg/l	5,770	0.9	14	3.9
011	Chlorine	30.6	590	86	2*	20	6.8
	Ammonia	13,390	39,400	9,201	0.7	20	2.6
012	Chlorine	81	170	35.6	0.4	20	1.8

* EPA's TSD recommends a maximum value of 2 when determining a statistical multiplier. The CVs have been lowered to 2.

The estimated maximum concentration is compared to the lowest of its acute, chronic, and human health ("HH") WQS after applying the allocated ZOI. HH criteria that are considered carcinogenic do not get adjusted to account for the ZOI. Acute, chronic, and HH criteria can be adjusted following the equation below.

$$\frac{WQC_{acute}}{IWC_{1\ hour}} = Adjusted\ WQC_{acute} \qquad \frac{WQC_{chronic\ or\ HH}}{IWC_{24\ hour}} = Adjusted\ WQC_{chronic\ or\ HH}$$

If the estimated concentration is above the lowest adjusted WQC there is reasonable potential for that parameter to exceed the WQC.

$$Maximum\ Value * Statistical\ Multiplier = Estimated\ Maximum\ Concentration$$

Freshwater vs. Saltwater WQC							
Parameter	**Units**	**Freshwater**		**Saltwater**		**HH Fish Consumption**	**HH Fish and Water Consumption**
		Acute	Chronic	Acute	Chronic		
Copper	µg/L	14.3	4.8	4.8	3.1	NA	1,300
Chlorine	µg/L	19	11	13	7.5	NA	NA
Ammonia	µg/L	3,830	990	2,640	400	NA	NA

The saltwater criteria are more stringent than the freshwater criteria for copper, chlorine, and ammonia. Therefore, the saltwater criteria were used to determine if the discharge has reasonable potential to exceed the WQC.

Based on the analysis, the following pollutants have the reasonable potential to exceed the WQC:

Reasonable Potential Analysis Results				
DSN	**Parameter***	**Estimated Maximum Concentration**	**Lowest Adjusted WQC**	**Reasonable Potential**
001	Copper	237.6 µg/l	38 µg/l	Yes
	Chlorine	40 µg/l	103 µg/l	No
	Ammonia	28,500 µg/l	7,834 µg/l	Yes
002	Chlorine	28 µg/l	40 µg/l	No
	Ammonia	185,000 µg/l	2,692 µg/l	Yes
003	Chlorine	32 µg/l	110 µg/l	No
	Ammonia	92,300 µg/l	8,422 µg/l	Yes
004	Chlorine	259 µg/l	750 µg/l	No
	Ammonia	139,920 µg/l	40,000 µg/l	Yes
005	Chlorine	50 µg/l	750 µg/l	No
	Ammonia	22,422 µg/l	40,000 µg/l	No
007	Chlorine	44 µg/l	18.3 µg/l	Yes
	Ammonia	1,050 µg/l	973 µg/l	No
008	Chlorine	30 µg/l	32 µg/l	No
	Ammonia	28,728 µg/l	3,801 µg/l	Yes
010	Chlorine	40 µg/l	164 µg/l	No
	Ammonia	63,690 µg/l	14,128 µg/l	Yes
011	Chlorine	4,012 µg/l	750 µg/l	Yes
	Ammonia	90,620 µg/l	40,000 µg/l	Yes
012	Chlorine	306 µg/l	40 µg/l	Yes

* Parameters shaded in green have a reasonable potential to exceed the WQS.

WQBEL calculations for parameters with reasonable potential are presented in Section 3.8 of this fact sheet.

3.7 Whole Effluent Toxicity

The Permittee shall comply with effluent standards or prohibitions established by CWA Section 307(a) and Regs. Conn. State Agencies Section 22a-430-4(l) and may not discharge toxic pollutants in concentrations or combinations that are harmful to humans, animals, or aquatic life. If toxicity is suspected in the effluent, DEEP may require the Permittee to perform acute or chronic whole effluent toxicity testing.

Effluent data from January 1, 2020 through December 31, 2025 was reviewed for DSN 001, 003, and 009 to determine the potential for toxicity at each outfall.

DSN 001 has the capability to discharge both salt and freshwater based on the needs of the seals. As such, the permit contains the ability for the Permittee to select the proper test organisms based on the salinity of the discharge. DSN 001 has only used freshwater species for toxicity between January 1, 2020 to January 1, 2025. There are 10 samples reported for toxicity at this DSN during that time frame. All samples were reported to have a $LC_{50} > 100\%$ effluent indicating that toxicity has not been observed within this discharge. Therefore, a reasonable potential analysis has not been performed.

Toxicity limits are being assigned to DSN 001 consistent with Regs. Conn. State Agencies Section 22a-430-3(j)(7)(A)(i) and 22a-430-4(l)(5). A minimum daily toxicity limit of $LC_{50} \geq 28.2\ \%$ is calculated using the outfall's instream waste concentration of 9.5%. The discharge frequency of this location is twice a week. Therefore, no chronic toxicity monitoring is required as the discharge duration is shorter than the 7-day chronic toxicity test exposure period in the receiving water.

DSN 009 has discharged once between January 1, 2020 through December 31, 2025. During that sampling event, the Permittee reported an acute toxicity of $LC_{50} > 100\%$ effluent. There is not enough data to complete a reasonable potential analysis. Since this discharge is comprised of pond water from the natural freshwater pond on site, toxicity is not expected at this location. Additionally, due to the frequency of this discharge, chronic toxicity sampling is not required as it is shorter than the 7-day chronic toxicity test exposure period in the receiving water.

DSN 003 has 9 sample results for acute toxicity during the last 5 years. LC_{50} results indicated a toxic response in both *D. pulex* and *P. promelas* tests, with the lowest LC_{50} results of 93.9% and 25.9%, respectively. Due to the toxic response, a reasonable potential analysis was conducted for acute toxicity for DSN 003. It was determined that the discharge has a reasonable potential to discharge to cause toxicity in the receiving waters. The results are presented in Section 3.7.1. below. A minimum daily toxicity limit of $LC_{50} \geq 14.2\ \%$ has been incorporated into this permit. The limit is calculated using the outfall's instream waste concentration of 11.7%, consistent with Regs. Conn. State Agencies Section 22a-430-3(j)(7)(A)(i) and 22a-430-4(l)(5).

3.7.1 WET Reasonable Potential Calculations Summary

The reasonable potential analysis for toxicity for DSN 003 follows the same procedure as for other parameters as described in Section 3.5.1 of this factsheet. Toxicity data was reviewed from January 1, 2020 through January 1, 2025. The average toxicity, minimum toxicity, standard deviation of the data, CV, number of data points, and a statistical multiplier was found for acute toxicity. The summary of values can be found in the table below.

Summary of Monitoring Data							
DSN	**Species**	**Average Value**	**Minimum Value**	**Standard Deviation**	**CV**	**Number of Samples**	**Statistical Multiplier**
003	*D. Pulex*	$LC_{50} \geq$ 99.32%	$LC_{50} \geq$ 93.9%	1.9%	0.1	9	1.2
	P. Promelas	$LC_{50} \geq$ 91.7 %	$LC_{50} \geq$ 25.9%	23.2%	0.3	9	1.8

Once the most toxic LC_{50} value is converted to acute toxic units ("TU_a"), it is multiplied by the statistical multiplier to calculate the estimated maximum TU_a. The ZOI for DSN 003 is applied to the TU_a to account for the mixing volume. If the estimated maximum toxicity for either species is above 1 TU, then the discharge has reasonable potential to cause toxicity in the receiving stream.

$$TU_a = 100/\mathrm{LC}_{50}$$

Reasonable Potential Analysis Results					
DSN	**Parameter**	**Toxicity in TU_a**	**Estimated Maximum TU_a**	**Toxic Level**	**Reasonable Potential**
003	*D. Pulex*	1.06	1.4	1	Yes
	P. Promelas	3.86	7.5	1	Yes

3.8 Water Quality Based Effluent Limitations ("WQBELs")

The CWA and federal regulations require that effluent limitations based on water quality considerations be established for point source discharges when such limitations are necessary to meet state or federal water quality standards that are applicable to the designated receiving water. This is necessary when less stringent TBELs would interfere with the attainment or maintenance of water quality criteria in the receiving water. See CWA Section 301(b)(1)(C) and 40 CFR Section 122.44(d)(1),122.44(d)(5), 125.84(e) and 125.94(i).

Based on the results of the reasonable potential analysis, WQBELs were calculated for pH, copper, ammonia, and chlorine for applicable DSNs. The calculations used to determine these limits are described below.

3.8.1 WQBEL Calculations

Parameters with reasonable potential are given a waste load allocation ("WLA"). A WLA is calculated for each WQC. A long-term average ("LTA") is calculated from each WLA following the procedure found in the TSD. The lowest LTA is used to calculate an average monthly limit ("AML") and a maximum daily limit ("MDL"). These limits are protective of the waterbody and its designated uses. The equations and results of these calculations are listed below.

WLA Acute, Chronic, and Human Health ("HH") Equation:

$$WLA_{acute,chronic,HH} = \frac{Q_d * C_{d(acute,chronic,HH} - Q_u * C_{u(acute,chronic,HH)}}{Q_e}$$

Q_d = downstream flow = discharge flow + zone of influence
C_d = downstream concentration = lowest WQC
C_u = upstream concentration
Q_u = upstream flow = zone of influence
Q_e = average permitted flow

LTA Acute Equation:

$$LTA_{acute} = WLA_{acute} \text{ X } e^{(0.5\sigma^2 - z\sigma)}$$

LTA Chronic Equation:

$$LTA_{chronic} = WLA_{chronic} \text{ X } e^{(0.5\sigma_n^2 - z\sigma_n)}$$

LTA Human Health ("HH") Equation:

$$LTA_{HH} = WLA_{HH}$$

MDL Equation:

$$MDL = LTA \text{ X } e^{(z\sigma - 0.5\sigma^2)}$$

Z = 1.645 for 95th percentile probability basis
Z = 2.326 for 99th percentile probability basis

AML Equation:

$$AML = LTA \text{ X } e^{(z\sigma_n - 0.5\sigma_n^2)}$$

σ2 = ln(CV2 + 1)
n = number of samples per month, If < 4 = 4

WQBEL Calculation Results						
DSN	**Parameter**	**Units**	**Lowest WLA**	**Lowest LTA**	**AML**	**MDL**
001	Copper	µg/l	38.3	12.11	26.1	70.8
	Ammonia	µg/l	7,834	2,704	5,520	14,400
002	Ammonia	µg/l	2,692	1419	2,200	4,420
003	Ammonia	µg/l	8,422	1,798	4,880	14,900
004	Ammonia	µg/l	40,000	8,157	22,700	69,800
007	Chlorine	µg/l	18.245	8.78	11.9	20
	Ammonia	µg/l	973	467	770	1,660
008	Ammonia	µg/l	3,801	775	2,160	6,630
010	Ammonia	µg/l	12,844	5,187	9,590	23,100
011	Total Residual Chlorine	µg/l	750	102	284	873
	Ammonia	µg/l	40,000	19,396	31,800	68,200
012	Chlorine	µg/l	40.9	18	24.4	40.9

These limits have been implemented into the corresponding DSNs.

3.8.2 pH

Instantaneous maximum pH limits of 6.8-8.5 S.U. have been applied to all DSNs in this permit. These limitations are consistent with the WQS for class SB waterbodies pursuant to Regs. Conn. State Agencies 22a-426-9(a)(1). The Permittee will require a compliance schedule for DSN 003 to achieve compliance with the new pH limitations.

3.8.3 Total Residual Chlorine Mass and Flow Rate Limits for DSN 012

During the previous permit term, the Permittee added the seal rescue clinic to their site. The updated rescue clinic had the potential to discharge more frequently, based on the needs of the seals. This created an increased discharge frequency from DSN 012, outside of storm events.

To ensure that this change of discharge pattern did not adversely impact the Mystic River, an instantaneous maximum mass-based total residual chlorine ("TRC") of 5.7 grams per hour was implemented. In addition, an instantaneous maximum flow rate limit of 22,000 gph was implemented, with the condition that flow must be restricted further than 22,000 gph as necessary to comply with TRC mass limits. The permit condition for flow rate states: "Wastewater shall be analyzed for TRC prior to discharge and if the concentration is ≤ 0.3 mg/l, the following formula shall be used to determine the maximum hourly flow authorized by the permit, up to the maximum of 22,000 gpd: Instantaneous Maximum Flow (gal/hour) = 1,585/(# mg/l TRC)". Together, these limits were calculated to ensure the discharge does not exceed the chlorine WQS instream at the IWC of 14.9%, at a max discharge duration of 9 hours.

These existing permit conditions have been carried forward into this permit, along with the newly calculated WQBELs for TRC (as described in Section 3.8.1) to prevent an exceedance of acute and chronic WQS.

3.9 Technology Based Effluent Limitations

Technology-based treatment requirements represent the minimum level of control that must be imposed under CWA Section 301(b) and 402 to meet best practicable control technology currently available ("BPT") for conventional pollutants and some metals, best conventional control technology ("BCT") for conventional pollutants, and best available technology economically achievable ("BAT") for toxic and non-conventional pollutants. See 40 CFR Section 125 Subpart A and Regs. Conn. State Agencies Section 22a-430-4(l)(4)(A).

Subpart A of 40 CFR Section 125 establishes criteria and standards for the imposition of technology-based treatment requirements in permits under Section 301(b) of the CWA, including the application of EPA promulgated Effluent Limitation Guidelines ("ELGs") and case-by-case determinations of effluent limitations under CWA Section 402(a)(1). EPA promulgates New Source Performance Standards ("NSPS") under CWA Section 306 and 40 CFR Section 401.12. See also 40 CFR Section 122.2 (definition of "new source") and 122.29.

In the absence of published technology-based effluent guidelines, the permit writer is authorized under CWA Section 402(a)(1)(B) and Regs. Conn. State Agencies Section 22a-430-4(m) to establish effluent limitations on a case-by-case basis using best professional judgment ("BPJ").

No Effluent Limit Guidelines are applicable to this facility (see Section 3.1 of this fact sheet); therefore, no TBELs have been incorporated into this permit.

3.10 Comparison of Limits

After preparing and evaluating applicable TBELs and WQBELs, the most stringent limits are applied in the permit. Pollutants of concern that only require monitoring without limits are not included in the table below. Limits in green cells are implemented into the permit.

DSN 001 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or ph Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Acute Toxicity	%					28.2%
Nitrogen, Ammonia	mg/L				5.52	14.4
Total Copper	µg/L				26.1	70.8
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/L			0.02		

DSN 002 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Nitrogen, Ammonia	mg/l				2.2	4.42
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 003 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** ***Water Quality Standards***	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Acute Toxicity	%					$LC_{50} \geq$ 14.2%
Nitrogen, Ammonia	mg/l				4.88	14.9
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 004 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** ***Water Quality Standards***	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Nitrogen, Ammonia	mg/l				22.7	69.8
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 005 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality *Water Quality Standards***	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 006 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality *Water Quality Standards***	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 007 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality *Water Quality Standards***	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02	0.011	0.02
Nitrogen, Ammonia	mg/l				0.77	1.66

DSN 008 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Nitrogen, Ammonia	mg/l				2.16	6.63
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 009 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 010 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Nitrogen, Ammonia	mg/l				9.59	23.1
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02		

DSN 011 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
Nitrogen, Ammonia	mg/l				31.8	68.2
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.02	0.284	0.873

DSN 012 Limit Comparison						
Parameter	**Units**	**Previous Permit**			**Water Quality** *Water Quality Standards*	
		Average Monthly Limit or pH Minimum	**Maximum Daily Limit or pH Maximum**	**Instantaneous Limit**	**Average Monthly Limit or pH Minimum**	**Maximum Daily Limit or pH Maximum**
pH	S.U.	6.0	9.0		6.8	8.5
Total Residual Chlorine	mg/l			0.3	0.024	0.040
Total Residual Chlorine	grams/ hour			5.7		
Instantaneous Flow	gal/hour			22,000		

3.10.1 Total Residual Chlorine Compliance Level

The minimum level ("ML") for the analytical test method for TRC is 0.02 mg/l. Compliance cannot be determined with the average monthly limit of DSN 007 because it is below the ML for the analytical test; therefore, a compliance level equivalent to the ML of the test method has been included in the permit, consistent with Section 5.7.3. EPA's TSD. Results detected at or above the compliance level will be considered in compliance with the effluent limits.

3.11 Sampling Frequency, Type, and Reporting

40 CFR Section 122.44 requires all monitoring to be "established on a case-by-case basis with a frequency dependent on the nature and effect of the discharge, but in no case less than once a year." A review of the discharge frequency, duration, and potential to discharge pollutants has been completed for this renewal. The monitoring frequencies found in this permit are as stringent as the previous permit.

Sample types are not changing from the previous permit. DSNs 001, 002, 006, 007, 008, 010, and 011 are all batch discharges, with constant water filtration and recirculation, from the exhibits' life support systems. After review of the Permittee's O&M Plan and Sampling Plan it was determined that a grab sample taken immediately prior to discharge would be representative of the water contained throughout the exhibit tanks and life support systems. DSN 004 and DSN 005 have short discharge durations (<3 hours) and require a grab sample for compliance, consistent with the previous permit. DSN 003 and 009 are continuous discharges and require composite sampling, consistent with the previous permit.

Monitoring for Enterococci has been added to the permit. The CT WQS require fecal coliform testing for saltwater designated for shell fishing and Enterococci for saltwater designated for recreational uses.

DSN 001			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Monthly	Copper	Due to the addition of the seal rescue clinic during the previous permit term, this location increased its discharge frequency to multiple times a week. The monitoring frequency for chlorine and ammonia has changed from each batch to monthly to better represent the discharge frequency. Toxicity remains at a semi-annual sampling frequency. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term.
		Ammonia	
	Semi-Annually	*Enterococci*	
		Fecal Coliform	
		Nitrate	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Salinity	
		Total Suspended Solids	
	Monthly	Chlorine	
	Semi-Annually	Acute/Chronic Toxicity	

DSN 002, DSN 008, and DSN 010			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Quarterly	Ammonia	The sampling frequency has changed from each batch to quarterly for ammonia and chlorine to better match the discharge frequencies of these DSNs. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term.
	Semi-Annually	Fecal Coliform	
		Enterococci	
		Nitrate	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
	Quarterly	Chlorine	

DSN 006			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Per Event	*Enterococci*	The sample frequency has changed from each batch to annually for all parameters to reflect the discharge frequency from these outfalls. While these DSNs have the functional ability to drain and are requested to remain in the permit, DSN 006 has not discharged since 2018 and DSN 011 is virtually discontinued but may be used as an option when needed.
		Fecal Coliform	
		Ammonia	
		Nitrate	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
		Chlorine	

DSN 011			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Annually	*Enterococci*	The sample frequency has changed from each batch to annually for all parameters to reflect the discharge frequency from these outfalls. While these DSNs have the functional ability to drain and are requested to remain in the permit, DSN 006 has not discharged since 2018 and DSN 011 is virtually discontinued but may be used as an option when needed.
		Fecal Coliform	
		Ammonia	
		Nitrate	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
		Chlorine	

DSN 003			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Composite	Monthly	Ammonia	The sampling frequency has changed from each batch to monthly for ammonia and chlorine to better match the discharge frequencies of these DSNs. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term.
	Semi-Annually	Nitrate	
		Nitrite	
		Enterococci	
		Fecal Coliform	
		Total Suspended Solids	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Salinity	
		Copper	
		Phosphorus	
Grab	Monthly	Chlorine	
Composite	Semi-Annually	Acute/Chronic Toxicity	

DSN 004 and DSN 005			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Quarterly	Ammonia	The sample frequencies did not change for Ammonia and Chlorine at these locations. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term. These discharges are infrequent and may not discharge during the sampling months prescribed in the permit. The previous sampling frequency for these locations was quarterly.
	Semi-Annually	Nitrate	
		Enterococci	
		Fecal Coliform	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
	Quarterly	Chlorine	

DSN 007			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Quarterly	Ammonia	See discussion above on sample type changes. The sampling frequency has changed from each batch to quarterly for ammonia and chlorine to better match the discharge frequencies of this DSN. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term.
	Semi-Annually	*Enterococci*	
		Fecal Coliform	
		Nitrate	
		Nitrite	
		Total Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
	Quarterly	Chlorine	

DSN 009			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Composite	Annually	Nitrite	Sampling frequencies have not changed from the previous permit.
		Nitrate	
		Ammonia	
		Nitrogen	
		Kjeldahl Nitrogen	
		Phosphorus	
		Enterococci	
		Fecal Coliform	
		Total Suspended Solids	
		Copper	
Grab	Annually	Chlorine	
Composite	Annually	Acute/Chronic Toxicity	

DSN 012			
Sample Type	**Sample Frequency**	**Parameter**	**Discussion**
Grab	Quarterly	Ammonia	See discussion above on sample type changes. The sampling frequency has changed from each batch to quarterly for ammonia and chlorine to better match the discharge frequencies of this DSN. Semi-annual monitoring is required for bacteria, nutrients, salinity, and total suspended solids to allow for enough data to be captured and reviewed during the next permit term.
	Semi-Annually	Fecal Coliform	
		Enterococci	
		Nitrate	
		Nitrite	
		Kjeldahl Nitrogen	
		Phosphorus	
		Total Suspended Solids	
		Nitrogen	
	Quarterly	Chlorine	

3.12 Other Permit Conditions

To ensure compliance with the TRC limits, a condition was added to the permit requiring the Permittee to comply with their Operation and Maintenance Plan ("the Plan") as it relates to TRC treatment and sampling. The Plan states that the Permittee will sample the potential wastewater for TRC, treat for TRC to the limits found within this permit, and after a minimum of 30 minutes of mixing another sample is taken for TRC analysis to confirm compliance with permit limits prior to discharge. All sample results are recorded and if the wastewater is below the permit limits the tank is then discharged.

DSN 001 and DSN 003

Medications and other substances are only added to the water from this discharge when seals are present. Medications and therapeutics often contain copper as a component, to ensure data captured under this permit is representative, DSN 001 toxicity and pollutant sampling are required to be completed when seals are present. For months when seals are not present in the care tanks, sampling can be completed at any point during the month.

DSNs 002, 004, 005, 006, 007, 008, 009, 010, 011, and 012

The ZOI was calculated and allocated to these discharges based on the condition that these discharges do not occur concurrently. To ensure the ZOI is not exceeded, the above listed DSNs are prohibited from being discharged at the same time as any other DSN.

3.13 Compliance Schedule

The permit has a compliance schedule that follows the requirements found under 40 CFR Section 122.47 and RSCA Section 22a-430-4(l)(3).

Does the Permit contain a compliance schedule? Yes

Ammonia (as N)

This permit introduces new WQBELs for ammonia. The Permittee will not be able to comply with the new limits upon permit issuance. The Permittee is granted a compliance period of the five-year permit term. During this time, the Permittee shall evaluate potential approaches for achieving compliance, including processes modifications, source reduction, and implementation of treatment technologies, and shall submit a report identifying the selected actions along with a schedule for completing all necessary measures to achieve compliance with the new limits.

pH

This permit introduces new pH limits reflective of the WQS. The Permittee will not be able to comply with the new limit for pH at DSN 003 upon permit issuance. The Permittee is granted a compliance schedule period of the five-year permit term. During this time, the Permittee shall evaluate potential approaches for achieving compliance, including processes modifications, source reduction, and implementation of treatment technologies, and shall submit a report identifying the selected actions along with a schedule for completing all necessary measures to achieve compliance with the new limits.

3.14 Antidegradation

Implementation of the Antidegradation Policy follows a tiered approach pursuant to the federal regulations (40 CFR Section 131.12) and consistent with the Connecticut Antidegradation Policy included in the Connecticut Water Quality Standards (Section 22a-426-8(b-f) of the Regulations of Connecticut State Agencies). Tier 1 Antidegradation review applies to all existing permitted discharge activities to all waters of the state. Tiers 1 and 2 Antidegradation reviews apply to new or increased discharges to high quality waters and wetlands, while Tiers 1 and 3 Antidegradation reviews apply to new or increased discharges to outstanding national resource waters.

This discharge is an existing discharge, and the Permittee does not propose an increase in volume or concentration of constituents. Therefore, only the Tier 1 Antidegradation Evaluation and Implementation Review was conducted to ensure that existing and designated uses of surface waters and the water quality necessary for their protection are maintained and preserved, consistent with Connecticut Water Quality Standards, Regs. Conn. State Agencies Sec.22a-426-8(a)(1). This review involved:

- An evaluation of narrative and numeric water quality standards, criteria and associated policies;
- The discharge activity both independently and in the context of other dischargers in the affected waterbodies; and
- Consideration of any impairment listed pursuant to Section 303d of the federal Clean Water Act or any TMDL established for the waterbody.

Compliance with all the terms and conditions in the renewed permit would ensure that existing and designated uses of surface waters and the water quality necessary for their protection are maintained and preserved.

3.15 Anti-Backsliding

This permit has effluent limitations, standards or conditions that are at least as stringent as the final effluent limitations, standards, or conditions in the previous permit as required in 40 CFR Section 122.44(l) and Regs. Conn. State Agencies Section 22a-430-4(l)(4)(A)(xxiii).

3.16 Categorical Discharge Conditions

Not applicable

3.17 Variances and Waivers

No variances or waivers were requested.

3.18 E-Reporting

The Permittee is required to electronically submit documents in accordance with 40 CFR Section 127.

Section 4 Summary of New Permit Conditions and Limits from the Previous Permit

- The previously designated (DSN 004) has been removed from the permit.
- A condition was added to the permit to require the Permittee to follow Best Management Practices ("BMPs") prior to initiating a chlorine discharge. Specifically, the Permittee is required to test TRC to determine compliance with effluent limitations in DSNs 001 – 012 prior to initiating a discharge.
- The pH limits in this permit have been updated to 6.8-8.5 across all DSNs in accordance with the WQS for Class SB waters.
- DSN 001 contains total copper limits of 26.1 µg/l and 70.8 µg/l and an acute toxicity limit of $LC_{50} \geq 28.4\%$
- DSN 003 contains an acute toxicity limit of $LC_{50} \geq 14.2\%$
- DSN 002, 003, 004, 007, 008, 010, and 011 contain ammonia limits that can be found in Section 3.10 of this factsheet
- All DSNs excluding DSN 001 and 003 have a restriction that they can only discharge if no other discharge is occurring under this permit at the same time.
- DSN 012 contains an average monthly TRC limit of 0.024 mg/l and a maximum daily limit of 0.04 mg/l.
- Cleaning and disinfection wastewaters were removed from DSNs 001, 002, 006, 007, 008, 010, and 011.
- The flow limit for DSN 008 has been reduced to 150,000 gpd at the Permittee's request.
- The permit contains a compliance schedule for pH and ammonia that can be found in Section 3.13 of this factsheet.
- The permit contains tiered pH and Ammonia limits that go into effect upon completion of the compliance schedule or 59 months after the effective date of the permit.

Section 5 Public Participation Procedures

5.1 Information Requests

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

Application No. 201304082 Permit No. CT0020630

Interested persons may obtain copies of the application from Gayle Sirpenski, Mystic Aquarium, a Division of Sea Research Foundation, Inc. 55 Coogan boulevard, Mystic, CT 06355.

The application is available for inspection by contacting Patrick Bieger at Patrick.bieger@ct.gov, at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT 06106-5127 from 8:30 - 4 :30, Monday through Friday.

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

5.2 Public Comment

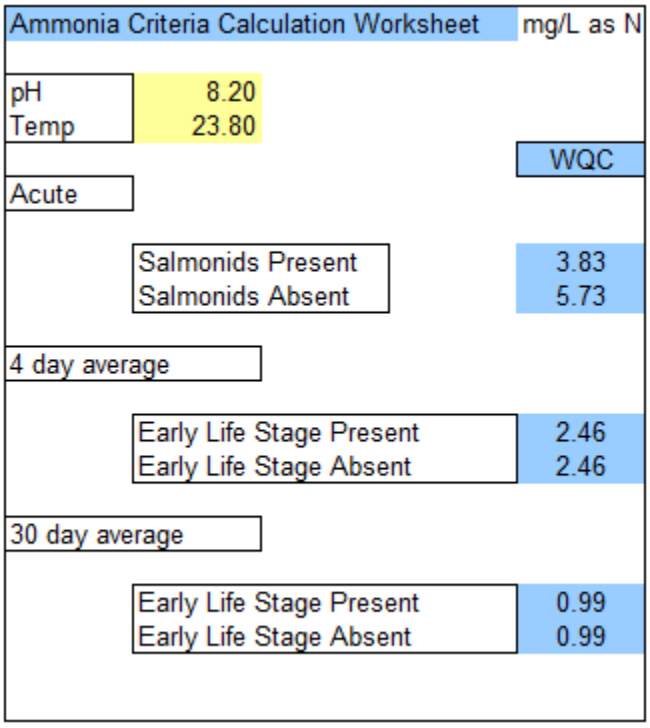
Prior to making a final decision to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within 30 days of this public notice. Written comments should be directed to Patrick Bieger, Environmental Engineer, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127 or DEEP.IndustrialNPDESPublicComments@ct.gov and should indicate the Permit ID No. CT0020630 in the subject line. The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby, and shall hold a hearing upon receipt of a petition signed by at least twenty five (25) persons. Notice of any public hearing shall be published at least thirty (30) days prior to the hearing.

Petitions shall be submitted within thirty (30) days from the date of publication of this public notice and should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. Upon receipt of a petition, the Commissioner shall take action as required by relevant laws, including Public Act 25-84, which was effective upon passage in June 2025. The Office of Adjudications will accept electronically-filed petitions for hearing in addition to those submitted by mail or hand-delivered. Petitions with required signatures may be sent to deep.adjudications@ct.gov; those mailed or delivered should go to the DEEP Office of Adjudications, 79 Elm Street, Hartford, CT 06106. If the signed original petition is only in an electronic format, the petition must be submitted with a statement signed by the petitioner that the petition exists only in that form. Original petitions that were filed electronically must also be mailed or delivered to the Office of Adjudications within 30 days of electronic submittal. Additional information can be found at www.ct.gov/deep/adjudications.

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act ("ADA"). If you are seeking a communication aid or service, have limited proficiency in English, wish to file an ADA or Title VI discrimination complaint, or require some other accommodation, including equipment to facilitate virtual participation, please contact the DEEP Office of Diversity and Equity at 860-418-5910 or by email at deep.accommodations@ct.gov. Any person needing an accommodation for hearing impairment may call the State of Connecticut relay number - 711. In order to facilitate efforts to provide accommodation, please request all accommodations as soon as possible following notice of any agency hearing, meeting, program, or event.

Attachment A

Figure A.1: Freshwater Ammonia Criteria Calculator Results



Ammonia Criteria Calculation Worksheet		mg/L as N
pH	8.20	
Temp	23.80	
		WQC
Acute		
	Salmonids Present	3.83
	Salmonids Absent	5.73
4 day average		
	Early Life Stage Present	2.46
	Early Life Stage Absent	2.46
30 day average		
	Early Life Stage Present	0.99
	Early Life Stage Absent	0.99

Figure A.2: Freshwater Ammonia Criteria Equations

14 Criteria for ammonia, (mg/L as N) vary in response to ambient surface water temperature (T, degrees C) and pH. Biological integrity is considered impaired when:

A The one-hour average concentration of total ammonia exceeds:

$[0.275/(1+10^{(7.204-pH)})] + [39.0/(1+10^{(pH-7.204)})]$ when salmonids are present

Or

$[0.411/(1+10^{(7.204-pH)})] + [58.4/(1+10^{(pH-7.204)})]$ when salmonids are absent

B The four-day average concentration of total ammonia exceeds 2.5 times the value obtained from the formula in 14.c. below.

C The 30-day average concentration of total ammonia exceeds:

$[0.0577/(1+10^{(7.688-pH)})] + [2.487/(1+10^{(pH-7.688)})] \times [MIN(2.85, 1.45 \times (10^{(0.028(25-T))})]$

when early life stages are present;

or

$[0.0577/(1+10^{(7.688-pH)})] + [2.487/(1+10^{(pH-7.688)})] \times [1.45 \times (10^{(0.028(25-MAX(T,7))})]$

when early life stages are absent.

Figure A.3: Saltwater Ammonia Criteria Calculator Results

Saltwater Ammonia Calculator

9/26/2025

Based on: Ambient Water Quality Criteria for Ammonia (saltwater) - 1989, EPA 440/5-88-004 April 1989

Temp	pH	Salinity	Pressure	Molal Ionic Strength	pKa*	% Unionized:	Unionized WQC		Total NH3		Total NH3 as N	
(deg C)	(su)	(ppt)	(ATM)	(not valid if >0 @ 25 deg C			Acute	Chronic	Acute	Chronic	Acute	Chronic
											mg/L	mg/L
23.8	8.2	10.0	1.0	0.201	9.268	7.244%	0.233	0.035	3.22	0.48	2.64	0.40

Figure A.4: Saltwater Ammonia Criteria Equations

Permit limits are in NH3 as N. Conversion is 14.00674 (molec. Wt of N) divided by 14.00674 + 3(1.00794 molec. Wt. of H) = 0.822

Molar Ionic Strength I = (19.9273S)/(1000 - 1.005109S) where S = salinity

pKa* = 9.245 + 0.116I (Model B - Regression equation) -Whitfield (1974) - Reference is available in Resources folder of NPDES Channel

Pressure = 1 ATM (Page 2 of EPA 440/5-88-004 document)

%UIA = 100/(1 + 10(Pka + 0.0324(298 - T) + 0.0415(P/T) - pH))

Attachment B

Figure B.1: DSN 001 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 001
Receiving Water:	Mystic River
Average Flow per Day (gpd):	18,500
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	14,326
Date of Analysis:	1/28/2025

Figure B.2: DSN 002 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 002
Receiving Water:	Mystic River
Average Flow per Day (gpd):	200,000
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.3: DSN 003 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 003
Receiving Water:	Mystic River
Average Flow per Day (gpd):	40,000
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	33,427
Date of Analysis:	1/28/2025

Figure B.4: DSN 004 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 004
Receiving Water:	Mystic River
Average Flow per Day (gpd):	3,600
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.5: DSN 005 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 005
Receiving Water:	Mystic River
Average Flow per Day (gpd):	3,600
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.6: DSN 007 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 007
Receiving Water:	Mystic River
Average Flow per Day (gpd):	800,000
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.7: DSN 008 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 008
Receiving Water:	Mystic River
Average Flow per Day (gpd):	150,000
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.8: DSN 010 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 010
Receiving Water:	Mystic River
Average Flow per Day (gpd):	36,840
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.9: DSN 011 RPA Flow Data

Water Quality Based Permit Evaluations	
Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 011
Receiving Water:	Mystic River
Average Flow per Day (gpd):	6,500
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Figure B.10: DSN 012 RPA Flow Data

Water Quality Based Permit Evaluations

Discharger:	**Mystic Aquarium**
Permit Number:	CT0020630
DSN:	DSN 012
Receiving Water:	Mystic River
Average Flow per Day (gpd):	200,000
Avg Hours of Discharge (hrs/d):	9
Allocated ZOI (gph):	47,754
Date of Analysis:	1/28/2025

Permit CT0020630

Permit Name	Version Nmbr	Curr. Major Minor Status	Issue Date	Effective Date	Expiration Date
SEA RESEARCH FOUNDATION	0	Minor	#######	4/1/2009	3/31/2014

Version # 0

Outfall 001A

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Range During Sampling	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=C	NODI=C
3/31/20	6.75	7.58
4/30/20	6.48	7.09
5/31/20	6.31	7.72
6/30/20	6.69	6.69
7/31/20	8.25	8.25
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C
11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	6.94	6.94
3/31/21	6.74	6.74
4/30/21	6.39	7.74
5/31/21	NODI=C	NODI=C
6/30/21	NODI=C	NODI=C
7/31/21	NODI=C	NODI=C
8/31/21	NODI=C	NODI=C
9/30/21	NODI=C	NODI=C
10/31/21	NODI=C	NODI=C
11/30/21	NODI=C	NODI=C
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	6.65	6.65
4/30/22	6.98	6.98
5/31/22	6.61	7.51
6/30/22	6.47	6.93
7/31/22	6.68	7.3
8/31/22	NODI=C	NODI=C
9/30/22	7.59	7.59
10/31/22	8.12	8.12
11/30/22	NODI=C	NODI=C
12/31/22	NODI=C	NODI=C
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	6.5	6.87
4/30/23	6.71	6.93
5/31/23	6.53	7.79
6/30/23	6.37	7.29
7/31/23	6.31	7.29
8/31/23	6.5	6.68
9/30/23	6.55	7.41

10/31/23	6.63	7.54
11/30/23	NODI=C	NODI=C
12/31/23	7.53	7.67
1/31/24	6.66	8
2/29/24	6.85	7.45
3/31/24	6.46	7.37
4/30/24	6.75	7.24
5/31/24	6.44	6.79
6/30/24	6.62	6.69
7/31/24	6.43	7.95
8/31/24	NODI=C	NODI=C
9/30/24	NODI=C	NODI=C
10/31/24	NODI=C	NODI=C
11/30/24	6.56	7.31
12/31/24	6.54	7.28

00480 Salinity / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Parts per Trillion
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	.26
4/30/20	.91
5/31/20	.96
6/30/20	1.13
7/31/20	.59
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.29
3/31/21	.81
4/30/21	.81
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	.65
4/30/22	.81
5/31/22	.77
6/30/22	1.17
7/31/22	.67
8/31/22	NODI=C
9/30/22	.15
10/31/22	.61
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C

3/31/23	1.17
4/30/23	1.47
5/31/23	12.48
6/30/23	26.1
7/31/23	18
8/31/23	1.07
9/30/23	2.92
10/31/23	.94
11/30/23	NODI=C
12/31/23	7.28
1/31/24	3.96
2/29/24	.69
3/31/24	.87
4/30/24	1.84
5/31/24	.75
6/30/24	.8
7/31/24	.85
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	1.48
12/31/24	1.18

00480 Salinity / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Parts per Trillion
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.59
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.67
1/31/23	NODI=C
7/31/23	18
1/31/24	3.96
7/31/24	.85

00480 Salinity / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	.26
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C

2/28/21	.29
3/31/21	.81
4/30/21	.81
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.65
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	1.17
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	1.48
12/31/24	Not Received

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	<5
4/30/20	10
5/31/20	5
6/30/20	3
7/31/20	3.3
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C

1/31/21	NODI=C
2/28/21	<3.3
3/31/21	<3.3
4/30/21	<3.3
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	<3.3
4/30/22	3.3
5/31/22	3.3
6/30/22	5
7/31/22	<3.3
8/31/22	NODI=C
9/30/22	3
10/31/22	<2.5
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	<2.6
4/30/23	2.4
5/31/23	4.4
6/30/23	10
7/31/23	<16
8/31/23	<2.1
9/30/23	<2.5
10/31/23	<17
11/30/23	NODI=C
12/31/23	2
1/31/24	<2.3
2/29/24	<2.5
3/31/24	<5
4/30/24	6.7
5/31/24	3.3
6/30/24	<3.3
7/31/24	<3.3
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	<2.1
12/31/24	<2.4

00530 Solids, total suspended / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	3.3
1/31/21	NODI=C
7/31/21	NODI=C

1/31/22	NODI=C
7/31/22	<3.3
1/31/23	NODI=C
7/31/23	16
1/31/24	<2.3
7/31/24	<3.3

00530 Solids, total suspended / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	<5
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	<3.3
3/31/21	<3.3
4/30/21	<3.3
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	<3.3
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	<2.6
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C

9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	<2
12/31/24	Not Received

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	4.75
4/30/20	3.98
5/31/20	.64
6/30/20	.05
7/31/20	.04
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.09
3/31/21	.66
4/30/21	<.25
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	.23
4/30/22	1.77
5/31/22	6.86
6/30/22	3.35
7/31/22	.68
8/31/22	NODI=C
9/30/22	.23
10/31/22	<.05
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	1.13
4/30/23	1.7
5/31/23	<.1
6/30/23	1.07
7/31/23	.87
8/31/23	.21
9/30/23	2.75
10/31/23	.54
11/30/23	NODI=C
12/31/23	5.69

1/31/24	7.02
2/29/24	1.45
3/31/24	1.59
4/30/24	7.5
5/31/24	2.42
6/30/24	1.71
7/31/24	1.49
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	2.69
12/31/24	3.6

00610 Nitrogen, ammonia total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.04
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.68
1/31/23	NODI=C
7/31/23	.87
1/31/24	7.02
7/31/24	1.49

00610 Nitrogen, ammonia total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	4.75
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	.09
3/31/21	.66
4/30/21	<.25
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C

12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.23
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	1.13
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.45
12/31/24	Not Received

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	.278
4/30/20	.016
5/31/20	.151
6/30/20	.005
7/31/20	.01
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.004
3/31/21	.006
4/30/21	.006
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C

10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	.001
4/30/22	.01
5/31/22	.012
6/30/22	2.179
7/31/22	.221
8/31/22	NODI=C
9/30/22	.012
10/31/22	.004
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.014
4/30/23	.009
5/31/23	.005
6/30/23	.008
7/31/23	.009
8/31/23	1.065
9/30/23	.075
10/31/23	.067
11/30/23	NODI=C
12/31/23	.232
1/31/24	.006
2/29/24	.013
3/31/24	.016
4/30/24	.02
5/31/24	.015
6/30/24	.026
7/31/24	.016
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.051
12/31/24	.011

00615 Nitrogen, nitrite total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.01
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.221
1/31/23	NODI=C
7/31/23	.009
1/31/24	.006
7/31/24	.016

00615 Nitrogen, nitrite total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis

4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	.278
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	.004
3/31/21	.006
4/30/21	.006
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.001
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	.014
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.005
12/31/24	Not Received

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	

Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	3.9
4/30/20	3.1
5/31/20	3.2
6/30/20	3.2
7/31/20	.1
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.23
3/31/21	1.8
4/30/21	1.74
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	1.52
4/30/22	1.67
5/31/22	1.8
6/30/22	2.4
7/31/22	1.2
8/31/22	NODI=C
9/30/22	.2
10/31/22	.6
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	2.2
4/30/23	2.11
5/31/23	.73
6/30/23	1.17
7/31/23	1.99
8/31/23	4.56
9/30/23	1.63
10/31/23	1.37
11/30/23	NODI=C
12/31/23	1.1
1/31/24	1.5
2/29/24	1.37
3/31/24	1.36
4/30/24	1.64
5/31/24	1.65
6/30/24	1.62
7/31/24	1.59
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C

11/30/24	1.92
12/31/24	1.62

00620 Nitrogen, nitrate total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.1
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	1.2
1/31/23	NODI=C
7/31/23	1.99
1/31/24	1.5
7/31/24	1.59

00620 Nitrogen, nitrate total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	3.9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	.23
3/31/21	1.8
4/30/21	1.74
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	1.52
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received
11/30/22	NODI=C

12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	2.2
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	1.75
12/31/24	Not Received

01042 Copper, total [as Cu] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.005
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.003
1/31/23	NODI=C
7/31/23	.036
1/31/24	.005
7/31/24	.006

01042 Copper, total [as Cu] / Location 1 / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	.009
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C

2/28/21	NODI=8
3/31/21	.004
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.004
4/30/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	.003
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=C
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.003
12/31/24	NODI=9

01042 Copper, total [as Cu] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	.005
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.003
1/31/23	NODI=C
7/31/23	.036
1/31/24	.005
7/31/24	.006

01042 Copper, total [as Cu] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	.009
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	NODI=8
3/31/21	.004
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.004
4/30/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	.003
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.003
12/31/24	Not Received

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	.02
4/30/20	.02
5/31/20	.02
6/30/20	.01
7/31/20	.02
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.02
3/31/21	.01
4/30/21	.02
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	.01
4/30/22	.02
5/31/22	.02
6/30/22	.02
7/31/22	.02
8/31/22	NODI=C
9/30/22	.02
10/31/22	.01
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.02
4/30/23	.02
5/31/23	.02
6/30/23	.02
7/31/23	<.02
8/31/23	.02
9/30/23	.02
10/31/23	.02
11/30/23	NODI=C
12/31/23	.02
1/31/24	.02
2/29/24	<.02
3/31/24	.02
4/30/24	.02
5/31/24	.02
6/30/24	.02
7/31/24	.02
8/31/24	NODI=C
9/30/24	NODI=C

10/31/24	NODI=C
11/30/24	.02
12/31/24	.02

50060 Chlorine, total residual / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
7/31/20	.02
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	.02
1/31/23	NODI=C
7/31/23	.02
1/31/24	.02
7/31/24	.02

50060 Chlorine, total residual / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	.02
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	.02
3/31/21	.01
4/30/21	.02
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	.01
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	Not Received
10/31/22	Not Received

11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	.02
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	Not Received
11/30/23	NODI=C
12/31/23	Not Received
2/29/24	NODI=9
3/31/24	Not Received
4/30/24	Not Received
5/31/24	Not Received
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.02
12/31/24	Not Received

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	488.6
4/30/20	2419.6
5/31/20	2419.6
6/30/20	59.5
7/31/20	0
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	0
3/31/21	152.9
4/30/21	2419.6
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	2419.6
4/30/22	0
5/31/22	>24196
6/30/22	1553.1

7/31/22	196
8/31/22	NODI=C
9/30/22	12
10/31/22	0
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	383
4/30/23	>1000
5/31/23	>1000
6/30/23	>1000
7/31/23	>1000
8/31/23	527
9/30/23	>1000
10/31/23	378
11/30/23	NODI=C
12/31/23	250
1/31/24	>1000
2/29/24	>1000
3/31/24	>1000
4/30/24	>1000
5/31/24	>1000
6/30/24	>1000
7/31/24	>1000
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	>1000
12/31/24	450

74076 Flow / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	18500.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	3200
4/30/20	3200
5/31/20	3200
6/30/20	3200
7/31/20	3200
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	3200
3/31/21	3200
4/30/21	3200
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C

12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	3200
4/30/22	3200
5/31/22	3200
6/30/22	3200
7/31/22	3200
8/31/22	NODI=C
9/30/22	3200
10/31/22	3200
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	3200
4/30/23	3200
5/31/23	3200
6/30/23	3200
7/31/23	3200
8/31/23	3200
9/30/23	3200
10/31/23	3200
11/30/23	NODI=C
12/31/23	3200
1/31/24	3200
2/29/24	3200
3/31/24	3200
4/30/24	3200
5/31/24	3200
6/30/24	3200
7/31/24	3200
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	3200
12/31/24	3200

TAA3D LC50 Static 48Hr Acute D. Pulex / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	NODI=9
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	>100
1/31/23	NODI=C
7/31/23	>100
1/31/24	>100
7/31/24	>100

TAA3D LC50 Static 48Hr Acute D. Pulex / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	

Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	>100
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	NODI=8
3/31/21	>100
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	>100
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	>100
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	>100
12/31/24	NODI=9

TAA3E LC50 Static 48Hr Acute Americamysis bahia (formerly Mysidopsis bahia) / Location

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	

DMR Values	
1/31/20	NODI=C
7/31/20	NODI=9
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	NODI=9
1/31/23	NODI=C
7/31/23	NODI=9
1/31/24	NODI=9
7/31/24	NODI=9

TAA3E LC50 Static 48Hr Acute Americamysis bahia (formerly Mysidopsis bahia) / Location

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	NODI=8
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	NODI=9
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9

4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	Not Received
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

TAA6B LC50 Static 48Hr Acute Menidia / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	NODI=9
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	NODI=9
1/31/23	NODI=C
7/31/23	NODI=9
1/31/24	NODI=9
7/31/24	NODI=9

TAA6B LC50 Static 48Hr Acute Menidia / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	NODI=8
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	NODI=9
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9

8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

TAA6C LC50 Static 48Hr Acute Pimephales promelas / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
1/31/20	NODI=C
7/31/20	NODI=9
1/31/21	NODI=C
7/31/21	NODI=C
1/31/22	NODI=C
7/31/22	>100
1/31/23	NODI=C
7/31/23	>100
1/31/24	>100
7/31/24	>100

TAA6C LC50 Static 48Hr Acute Pimephales promelas / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/29/20	NODI=C
3/31/20	>100
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C

11/30/20	NODI=C
12/31/20	NODI=C
2/28/21	NODI=8
3/31/21	>100
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
2/28/22	NODI=C
3/31/22	>100
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=C
12/31/22	NODI=C
2/28/23	NODI=C
3/31/23	>100
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	>100
12/31/24	NODI=9

Outfall 001B

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	RANG-C	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	6.59	6.59
3/31/20	7.03	7.03
4/30/20	NODI=C	NODI=C
5/31/20	NODI=C	NODI=C
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C

11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	7.63	7.63
3/31/21	NODI=C	NODI=C
4/30/21	NODI=C	NODI=C
5/31/21	NODI=C	NODI=C
6/30/21	NODI=C	NODI=C
7/31/21	NODI=C	NODI=C
8/31/21	NODI=C	NODI=C
9/30/21	NODI=C	NODI=C
10/31/21	NODI=C	NODI=C
11/30/21	7.39	7.4
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	NODI=C	NODI=C
5/31/22	NODI=C	NODI=C
6/30/22	NODI=C	NODI=C
7/31/22	NODI=C	NODI=C
8/31/22	NODI=C	NODI=C
9/30/22	7.69	7.72
10/31/22	NODI=C	NODI=C
11/30/22	NODI=C	NODI=C
12/31/22	NODI=C	NODI=C
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	7.89	7.89
4/30/23	8.3	8.3
5/31/23	7.64	8.06
6/30/23	7.84	7.84
7/31/23	6.64	7.85
8/31/23	NODI=C	NODI=C
9/30/23	NODI=C	NODI=C
10/31/23	NODI=C	NODI=C
11/30/23	7.65	7.65
12/31/23	7.96	8.89
1/31/24	NODI=C	NODI=C
2/29/24	NODI=C	NODI=C
3/31/24	7.82	7.82
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	NODI=C	NODI=C
7/31/24	NODI=C	NODI=C
8/31/24	8	8.13
9/30/24	7.6	7.6
10/31/24	7.3	7.3
11/30/24	NODI=C	NODI=C
12/31/24	7.72	7.76

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	23

3/31/20	13
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	25
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	20
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	6.7
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	10
4/30/23	12
5/31/23	12
6/30/23	10
7/31/23	11
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	5.2
12/31/23	19
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	12
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	8.8
9/30/24	9.6
10/31/24	<2.1
11/30/24	NODI=C
12/31/24	13

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	0
3/31/20	0
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	<.25
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	2.54
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	.25
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	9.8
4/30/23	9.23
5/31/23	<.1
6/30/23	.18
7/31/23	.34
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	1.02
12/31/23	.11
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	74
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	.13
9/30/24	8

10/31/24	<.05
11/30/24	NODI=C
12/31/24	.19

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	2.69
3/31/20	.541
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.01
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	2.08
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	.029
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.04
4/30/23	.16
5/31/23	.973
6/30/23	.014
7/31/23	.036
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	27.2
12/31/23	31.23
1/31/24	NODI=C

2/29/24	NODI=C
3/31/24	9.859
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	.038
9/30/24	11.852
10/31/24	.567
11/30/24	NODI=C
12/31/24	.424

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	35.1
3/31/20	11.7
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	151
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	13.6
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	16
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	16.8
4/30/23	31.8
5/31/23	13.9

6/30/23	6.2
7/31/23	8.63
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	6.6
12/31/23	10.1
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	26.7
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	8.13
9/30/24	5.78
10/31/24	3.99
11/30/24	NODI=C
12/31/24	139

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	.01
3/31/20	.02
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.02
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	.01
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	.02

10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.01
4/30/23	.02
5/31/23	<.01
6/30/23	.02
7/31/23	.02
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	.02
12/31/23	<.02
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	.02
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	<.02
9/30/24	<=.02
10/31/24	<.02
11/30/24	NODI=C
12/31/24	.02

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	291
3/31/20	609
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	10
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	0
12/31/21	NODI=C
1/31/22	NODI=C

2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	0
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	108
4/30/23	168
5/31/23	>1000
6/30/23	33
7/31/23	>1000
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	173
12/31/23	88
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	0
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	0
9/30/24	2
10/31/24	4
11/30/24	NODI=C
12/31/24	9

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	200000.
DMR Values	
1/31/20	NODI=C
2/29/20	30000
3/31/20	25000
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	14130
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C

7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	55000
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	30000
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	10990
4/30/23	18840
5/31/23	18840
6/30/23	18840
7/31/23	28260
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	35000
12/31/23	15000
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	50000
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	50000
9/30/24	50000
10/31/24	50000
11/30/24	NODI=C
12/31/24	50000

Outfall 001C

00400 pH / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Monthly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	6.32	6.32
3/31/20	6.16	6.38
4/30/20	6.21	6.24
5/31/20	6.39	6.42
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C

11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	7.57	7.57
3/31/21	7.57	7.59
4/30/21	NODI=C	NODI=C
5/31/21	NODI=C	NODI=C
6/30/21	NODI=C	NODI=C
7/31/21	NODI=C	NODI=C
8/31/21	NODI=C	NODI=C
9/30/21	NODI=C	NODI=C
10/31/21	NODI=C	NODI=C
11/30/21	NODI=C	NODI=C
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	6.23	6.23
5/31/22	6.37	6.37
6/30/22	7.98	7.98
7/31/22	6.2	6.42
8/31/22	6.45	6.45
9/30/22	7.8	7.8
10/31/22	7.87	7.87
11/30/22	7.17	7.17
12/31/22	7.05	7.05
1/31/23	NODI=C	NODI=C
2/28/23	6.73	6.73
3/31/23	6.25	7.48
4/30/23	6.44	7.81
5/31/23	6.33	6.45
6/30/23	6.15	6.15
7/31/23	6.42	6.48
8/31/23	6.53	7.34
9/30/23	6.55	6.75
10/31/23	6.43	6.54
11/30/23	6.47	6.61
12/31/23	7.06	7.2
1/31/24	6.52	6.6
2/29/24	6.41	7.62
3/31/24	6.29	6.44
4/30/24	6.88	7.4
5/31/24	6.97	7.04
6/30/24	6.38	6.72
7/31/24	6.55	6.56
8/31/24	NODI=C	NODI=C
9/30/24	6.76	6.76
10/31/24	6.39	6.72
11/30/24	6.5	6.63
12/31/24	6.29	6.53

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	.28

3/31/20	.53
4/30/20	.92
5/31/20	.66
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	<.05
3/31/21	.09
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.14
5/31/22	.14
6/30/22	<.05
7/31/22	.34
8/31/22	.15
9/30/22	7.46
10/31/22	14.2
11/30/22	1.77
12/31/22	3.18
1/31/23	NODI=C
2/28/23	<.05
3/31/23	.13
4/30/23	1.95
5/31/23	.11
6/30/23	.25
7/31/23	.37
8/31/23	.74
9/30/23	**NODI=E**
10/31/23	.23
11/30/23	1.63
12/31/23	6.53
1/31/24	.34
2/29/24	.13
3/31/24	.63
4/30/24	10.9
5/31/24	3.66
6/30/24	.84
7/31/24	.42
8/31/24	NODI=C
9/30/24	.16
10/31/24	.83
11/30/24	.06
12/31/24	.47

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	.005
3/31/20	.008
4/30/20	.057
5/31/20	.033
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.004
3/31/21	.003
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.002
5/31/22	.002
6/30/22	.009
7/31/22	.006
8/31/22	.007
9/30/22	.013
10/31/22	.012
11/30/22	.013
12/31/22	.011
1/31/23	NODI=C
2/28/23	.003
3/31/23	.01
4/30/23	.01
5/31/23	.004
6/30/23	.01
7/31/23	.005
8/31/23	.006
9/30/23	.027
10/31/23	.01
11/30/23	.029
12/31/23	.17
1/31/24	.011
2/29/24	.008
3/31/24	.011
4/30/24	.019
5/31/24	.015
6/30/24	.004
7/31/24	.007
8/31/24	NODI=C
9/30/24	.008

10/31/24	.005
11/30/24	.007
12/31/24	.004

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	.5
3/31/20	1.1
4/30/20	.5
5/31/20	.9
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.3
3/31/21	.63
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	1.7
5/31/22	1.85
6/30/22	.08
7/31/22	2.75
8/31/22	2.32
9/30/22	.08
10/31/22	.19
11/30/22	.25
12/31/22	.1
1/31/23	NODI=C
2/28/23	2.13
3/31/23	2.06
4/30/23	1.53
5/31/23	1.75
6/30/23	1.39
7/31/23	1.6
8/31/23	1.55
9/30/23	1.69
10/31/23	1.43
11/30/23	.39
12/31/23	.85
1/31/24	1.13

2/29/24	1.09
3/31/24	1.68
4/30/24	1.51
5/31/24	1.42
6/30/24	1.38
7/31/24	1.66
8/31/24	NODI=C
9/30/24	1.82
10/31/24	1.29
11/30/24	1.86
12/31/24	1.76

50060 Chlorine, total residual / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	.02
3/31/20	.01
4/30/20	.02
5/31/20	.02
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	.02
3/31/21	0
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.01
5/31/22	.01
6/30/22	<.02
7/31/22	.01
8/31/22	.02
9/30/22	.02
10/31/22	.01
11/30/22	.02
12/31/22	.02
1/31/23	NODI=C
2/28/23	<.02
3/31/23	<.01
4/30/23	.01
5/31/23	<.01

6/30/23	<.02
7/31/23	<.02
8/31/23	.02
9/30/23	.02
10/31/23	.02
11/30/23	.02
12/31/23	.02
1/31/24	.02
2/29/24	.02
3/31/24	.02
4/30/24	.02
5/31/24	.02
6/30/24	.02
7/31/24	<.02
8/31/24	NODI=C
9/30/24	<=.02
10/31/24	<.02
11/30/24	.02
12/31/24	.02

74055 Coliform, fecal general / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Monthly

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	271.7
3/31/20	227.7
4/30/20	2419.6
5/31/20	0
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	0
3/31/21	0
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	0
5/31/22	55.6
6/30/22	20
7/31/22	161
8/31/22	18
9/30/22	26

10/31/22	3
11/30/22	0
12/31/22	0
1/31/23	NODI=C
2/28/23	86
3/31/23	0
4/30/23	715
5/31/23	131
6/30/23	36
7/31/23	>1000
8/31/23	0
9/30/23	>1000
10/31/23	371
11/30/23	>1000
12/31/23	>1000
1/31/24	>1000
2/29/24	>1000
3/31/24	>1000
4/30/24	17
5/31/24	32
6/30/24	>1000
7/31/24	396
8/31/24	NODI=C
9/30/24	30
10/31/24	23
11/30/24	36
12/31/24	0

74076 Flow / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Monthly

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	40000.
DMR Values	
1/31/20	NODI=C
2/29/20	20056
3/31/20	19105
4/30/20	27264
5/31/20	25303
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	300
3/31/21	700
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C

3/31/22	NODI=C
4/30/22	700
5/31/22	700
6/30/22	700
7/31/22	1400
8/31/22	700
9/30/22	700
10/31/22	700
11/30/22	700
12/31/22	700
1/31/23	NODI=C
2/28/23	25920
3/31/23	21600
4/30/23	24596
5/31/23	23722
6/30/23	23052
7/31/23	22754
8/31/23	12351
9/30/23	20452
10/31/23	21217
11/30/23	14677
12/31/23	19727
1/31/24	19329
2/29/24	17504
3/31/24	22240
4/30/24	20825
5/31/24	25780
6/30/24	28030
7/31/24	22804
8/31/24	NODI=C
9/30/24	25684
10/31/24	26171
11/30/24	19746
12/31/24	17145

TAA3D LC50 Static 48Hr Acute D. Pulex / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	MINIMUM
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	>100
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	>100
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C

8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	>100
5/31/22	Not Received
6/30/22	NODI=9
7/31/22	>100
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	>100
3/31/23	NODI=9
4/30/23	Not Received
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	93.9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	>100
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	>100
8/31/24	NODI=C
9/30/24	NODI=9
10/31/24	>100
11/30/24	NODI=9
12/31/24	NODI=9

TAA3E LC50 Static 48Hr Acute Americamysis bahia (formerly Mysidopsis bahia) / Location

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	MINIMUM
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C

1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
7/31/22	Not Received
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

TAA6B LC50 Static 48Hr Acute Menidia / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	MINIMUM
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9

6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=9
5/31/22	Not Received
6/30/22	NODI=9
7/31/22	Not Received
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=9
8/31/24	NODI=C
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

TAA6C LC50 Static 48Hr Acute Pimephales promelas / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Twice per Year

Limit	
Limit Unit Desc	Percent
Statistical Base	MINIMUM

Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	>100
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	>100
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	>100
5/31/22	Not Received
6/30/22	NODI=9
7/31/22	>100
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	>100
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	25.9
8/31/23	NODI=9
9/30/23	Not Received
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	>100
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	>100
8/31/24	NODI=C
9/30/24	NODI=9
10/31/24	>100
11/30/24	NODI=9
12/31/24	NODI=9

Outfall 001D

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Quarterly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=9	NODI=9
3/31/20	NODI=9	NODI=9
4/30/20	6.39	6.39
5/31/20	NODI=9	NODI=9
6/30/20	NODI=9	NODI=9
7/31/20	NODI=C	NODI=C
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	NODI=C	NODI=C
11/30/20	NODI=9	NODI=9
12/31/20	NODI=9	NODI=9
1/31/21	NODI=C	NODI=C
2/28/21	NODI=9	NODI=9
3/31/21	NODI=9	NODI=9
4/30/21	6.86	6.86
5/31/21	NODI=9	NODI=9
6/30/21	NODI=9	NODI=9
7/31/21	NODI=C	NODI=C
8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	NODI=C	NODI=C
11/30/21	NODI=9	NODI=9
12/31/21	NODI=9	NODI=9
1/31/22	NODI=C	NODI=C
2/28/22	NODI=9	NODI=9
3/31/22	NODI=9	NODI=9
4/30/22	6.43	6.43
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	6.37	6.37
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	7.91	7.91
11/30/22	NODI=9	NODI=9
12/31/22	NODI=9	NODI=9
1/31/23	NODI=C	NODI=C
2/28/23	6.41	6.41
3/31/23	NODI=9	NODI=9
4/30/23	6.61	6.61
5/31/23	NODI=9	NODI=9
6/30/23	NODI=9	NODI=9
7/31/23	6.55	6.55
8/31/23	NODI=9	NODI=9
9/30/23	NODI=9	NODI=9
10/31/23	6.62	6.62
11/30/23	NODI=9	NODI=9
12/31/23	NODI=9	NODI=9
1/31/24	NODI=C	NODI=C
2/29/24	6.58	6.58
3/31/24	NODI=9	NODI=9
4/30/24	6.53	6.53

5/31/24	NODI=9	NODI=9
6/30/24	NODI=9	NODI=9
7/31/24	NODI=C	NODI=C
8/31/24	NODI=9	NODI=9
9/30/24	NODI=9	NODI=9
10/31/24	6.46	6.46
11/30/24	NODI=9	NODI=9
12/31/24	NODI=9	NODI=9

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	.04
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	.05
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.09
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	3.19
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	13.2
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	<.05
3/31/23	NODI=9
4/30/23	.19
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	4.18
8/31/23	NODI=9

9/30/23	NODI=9
10/31/23	.14
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	.06
3/31/24	NODI=9
4/30/24	.41
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	.24
11/30/24	NODI=9
12/31/24	NODI=9

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	.003
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	.009
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.003
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	.013
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	.031
11/30/22	NODI=9
12/31/22	NODI=9

1/31/23	NODI=C
2/28/23	.003
3/31/23	NODI=9
4/30/23	.004
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	.014
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	.011
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	.007
3/31/24	NODI=9
4/30/24	.006
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	.004
11/30/24	NODI=9
12/31/24	NODI=9

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	.2
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	1.4
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	1.84

5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	1.76
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	.19
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	2.06
3/31/23	NODI=9
4/30/23	1.54
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	1.33
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	1.43
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	1.57
3/31/24	NODI=9
4/30/24	1.71
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	1.79
11/30/24	NODI=9
12/31/24	NODI=9

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	.01
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	.01
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9

9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	0
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	0
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	.07
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	.02
3/31/23	NODI=9
4/30/23	.02
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	.02
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	.02
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	.02
3/31/24	NODI=9
4/30/24	0
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	.02
11/30/24	NODI=9
12/31/24	NODI=9

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Quarterly

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	3600.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	20.98
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C

2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	323.6
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	32.12
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	75.98
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	13.22
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	23
3/31/23	NODI=9
4/30/23	179
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	83
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	39
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	287
3/31/24	NODI=9
4/30/24	340
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	7
11/30/24	NODI=9
12/31/24	NODI=9

Outfall 001E

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Quarterly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=9	NODI=9
3/31/20	NODI=9	NODI=9
4/30/20	NODI=C	NODI=C
5/31/20	NODI=9	NODI=9

6/30/20	NODI=9	NODI=9
7/31/20	NODI=C	NODI=C
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	NODI=C	NODI=C
11/30/20	NODI=9	NODI=9
12/31/20	NODI=9	NODI=9
1/31/21	NODI=C	NODI=C
2/28/21	NODI=9	NODI=9
3/31/21	NODI=9	NODI=9
4/30/21	NODI=C	NODI=C
5/31/21	NODI=9	NODI=9
6/30/21	NODI=9	NODI=9
7/31/21	NODI=C	NODI=C
8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	7.59	7.59
11/30/21	NODI=9	NODI=9
12/31/21	NODI=9	NODI=9
1/31/22	NODI=C	NODI=C
2/28/22	7.4	7.4
3/31/22	NODI=9	NODI=9
4/30/22	7.19	7.19
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	NODI=C	NODI=C
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	NODI=C	NODI=C
11/30/22	NODI=9	NODI=9
12/31/22	NODI=9	NODI=9
1/31/23	NODI=C	NODI=C
2/28/23	NODI=9	NODI=9
3/31/23	NODI=9	NODI=9
4/30/23	NODI=C	NODI=C
5/31/23	NODI=9	NODI=9
6/30/23	NODI=9	NODI=9
7/31/23	NODI=C	NODI=C
8/31/23	NODI=9	NODI=9
9/30/23	NODI=9	NODI=9
10/31/23	NODI=C	NODI=C
11/30/23	NODI=9	NODI=9
12/31/23	NODI=9	NODI=9
1/31/24	NODI=C	NODI=C
2/29/24	NODI=9	NODI=9
3/31/24	NODI=9	NODI=9
4/30/24	NODI=C	NODI=C
5/31/24	NODI=9	NODI=9
6/30/24	NODI=9	NODI=9
7/31/24	NODI=C	NODI=C
8/31/24	NODI=9	NODI=9
9/30/24	NODI=9	NODI=9
10/31/24	NODI=C	NODI=C
11/30/24	NODI=9	NODI=9
12/31/24	NODI=9	NODI=9

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter

Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=C
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	<.1
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	1.01
3/31/22	NODI=9
4/30/22	.01
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=C
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=C
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=C
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=C
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	.004
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	.018
3/31/22	NODI=9
4/30/22	.003
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=C
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=C
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=C
5/31/24	NODI=9

6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=C
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	.51
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	2.58
3/31/22	NODI=9
4/30/22	1.6
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=C
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9

10/31/23	NODI=C
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=C
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=C
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	0
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	.02
3/31/22	NODI=9
4/30/22	.02
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C

2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=C
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=C
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=C
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Quarterly

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	3600.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=C
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	50.25
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	153.46
3/31/22	NODI=9
4/30/22	52.61
5/31/22	NODI=9
6/30/22	NODI=9

7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=C
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=C
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=C
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=C
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=C
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=C
11/30/24	NODI=9
12/31/24	NODI=9

Outfall 0021

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	RANG-C	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=C	NODI=C
3/31/20	NODI=C	NODI=C
4/30/20	NODI=C	NODI=C
5/31/20	NODI=C	NODI=C
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C
11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	NODI=C	NODI=C
3/31/21	NODI=C	NODI=C
4/30/21	NODI=C	NODI=C
5/31/21	NODI=C	NODI=C
6/30/21	NODI=C	NODI=C
7/31/21	NODI=C	NODI=C
8/31/21	NODI=C	NODI=C
9/30/21	NODI=C	NODI=C
10/31/21	NODI=C	NODI=C

11/30/21	NODI=C	NODI=C
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	NODI=C	NODI=C
5/31/22	NODI=C	NODI=C
6/30/22	NODI=C	NODI=C
7/31/22	NODI=C	NODI=C
8/31/22	NODI=C	NODI=C
9/30/22	NODI=C	NODI=C
10/31/22	NODI=C	NODI=C
11/30/22	NODI=C	NODI=C
12/31/22	NODI=C	NODI=C
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	NODI=C	NODI=C
4/30/23	NODI=C	NODI=C
5/31/23	NODI=C	NODI=C
6/30/23	NODI=C	NODI=C
7/31/23	NODI=C	NODI=C
8/31/23	NODI=C	NODI=C
9/30/23	NODI=C	NODI=C
10/31/23	NODI=C	NODI=C
11/30/23	NODI=C	NODI=C
12/31/23	NODI=C	NODI=C
1/31/24	NODI=C	NODI=C
2/29/24	NODI=C	NODI=C
3/31/24	NODI=C	NODI=C
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	NODI=C	NODI=C
7/31/24	NODI=C	NODI=C
8/31/24	NODI=C	NODI=C
9/30/24	NODI=C	NODI=C
10/31/24	NODI=C	NODI=C
11/30/24	NODI=C	NODI=C
12/31/24	NODI=C	NODI=C

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C

3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C

7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX

Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C

6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C

10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C

2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	409000.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	NODI=C
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C

7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

Outfall 003A

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	RANG-C	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=C	NODI=C
3/31/20	NODI=C	NODI=C
4/30/20	NODI=C	NODI=C
5/31/20	NODI=C	NODI=C
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C
11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	NODI=C	NODI=C
3/31/21	NODI=C	NODI=C
4/30/21	NODI=C	NODI=C
5/31/21	NODI=C	NODI=C
6/30/21	7.94	7.94
7/31/21	7.91	7.91
8/31/21	7.61	8
9/30/21	7.81	8
10/31/21	7.83	7.83

11/30/21	7.69	7.69
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	NODI=C	NODI=C
5/31/22	8.04	8.12
6/30/22	NODI=C	NODI=C
7/31/22	NODI=C	NODI=C
8/31/22	NODI=C	NODI=C
9/30/22	NODI=C	NODI=C
10/31/22	NODI=C	NODI=C
11/30/22	NODI=C	NODI=C
12/31/22	NODI=C	NODI=C
1/31/23	7.82	7.82
2/28/23	NODI=C	NODI=C
3/31/23	NODI=C	NODI=C
4/30/23	NODI=C	NODI=C
5/31/23	NODI=C	NODI=C
6/30/23	NODI=C	NODI=C
7/31/23	NODI=C	NODI=C
8/31/23	7.8	7.8
9/30/23	NODI=C	NODI=C
10/31/23	NODI=C	NODI=C
11/30/23	NODI=C	NODI=C
12/31/23	NODI=C	NODI=C
1/31/24	NODI=C	NODI=C
2/29/24	NODI=C	NODI=C
3/31/24	NODI=C	NODI=C
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	NODI=C	NODI=C
7/31/24	NODI=C	NODI=C
8/31/24	NODI=C	NODI=C
9/30/24	7.8	7.8
10/31/24	NODI=C	NODI=C
11/30/24	NODI=C	NODI=C
12/31/24	NODI=C	NODI=C

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C

3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	22
7/31/21	19
8/31/21	26
9/30/21	26
10/31/21	25
11/30/21	19
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	4.7
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	7.2
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	11
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	7.6
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C

7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	.17
7/31/21	.13
8/31/21	.3
9/30/21	.12
10/31/21	<.1
11/30/21	.09
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	.11
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	<.1
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	<.1
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	<.1
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX

Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	.011
7/31/21	.012
8/31/21	.026
9/30/21	.018
10/31/21	.018
11/30/21	.013
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	.011
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	.005
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	.009
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	.009
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	54.2
7/31/21	44.7
8/31/21	57
9/30/21	39.6
10/31/21	42.1
11/30/21	41.8
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	48.8
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	28
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	58
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C

6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	55
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	.02
7/31/21	0
8/31/21	.01
9/30/21	.02
10/31/21	.01
11/30/21	.02
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	.01
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	.02
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	.02
9/30/23	NODI=C

10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	.02
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	0
7/31/21	10
8/31/21	31
9/30/21	318
10/31/21	199
11/30/21	52
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	0
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	16

2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	7
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	0
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	800000.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	NODI=C
5/31/21	NODI=C
6/30/21	40000
7/31/21	24900
8/31/21	41500
9/30/21	29050
10/31/21	8300
11/30/21	20750
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	23240
6/30/22	NODI=C

7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	33200
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	24900
9/30/23	NODI=C
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	40000
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

Outfall 003B

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	RANG-C	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=C	NODI=C
3/31/20	NODI=C	NODI=C
4/30/20	NODI=C	NODI=C
5/31/20	NODI=C	NODI=C
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	NODI=C	NODI=C
11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	NODI=C	NODI=C
3/31/21	NODI=C	NODI=C
4/30/21	7.85	7.85
5/31/21	NODI=C	NODI=C
6/30/21	NODI=C	NODI=C
7/31/21	NODI=C	NODI=C
8/31/21	7.78	7.78
9/30/21	NODI=C	NODI=C
10/31/21	NODI=C	NODI=C

11/30/21	NODI=C	NODI=C
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	8.41	8.41
5/31/22	7.82	7.82
6/30/22	7.71	7.71
7/31/22	NODI=C	NODI=C
8/31/22	NODI=C	NODI=C
9/30/22	NODI=C	NODI=C
10/31/22	NODI=C	NODI=C
11/30/22	NODI=C	NODI=C
12/31/22	NODI=C	NODI=C
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	7.9	7.9
4/30/23	NODI=C	NODI=C
5/31/23	NODI=C	NODI=C
6/30/23	NODI=C	NODI=C
7/31/23	NODI=C	NODI=C
8/31/23	NODI=C	NODI=C
9/30/23	NODI=C	NODI=C
10/31/23	7.6	7.6
11/30/23	NODI=C	NODI=C
12/31/23	NODI=C	NODI=C
1/31/24	NODI=C	NODI=C
2/29/24	7.94	7.94
3/31/24	7.87	7.87
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	NODI=C	NODI=C
7/31/24	NODI=C	NODI=C
8/31/24	NODI=C	NODI=C
9/30/24	NODI=C	NODI=C
10/31/24	7.77	7.77
11/30/24	NODI=C	NODI=C
12/31/24	NODI=C	NODI=C

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C

3/31/21	NODI=C
4/30/21	25
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	14
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	15
5/31/22	19
6/30/22	15
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	10
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	12
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	13
3/31/24	12
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	9.2
11/30/24	NODI=C
12/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C

7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	.26
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	.05
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.18
5/31/22	<.1
6/30/22	.16
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.15
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	<.1
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	<.1
3/31/24	<.1
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	2.28
11/30/24	NODI=C
12/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX

Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	.01
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	.01
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.026
5/31/22	.028
6/30/22	.029
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.018
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	.027
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	.008
3/31/24	.017
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	.023
11/30/24	NODI=C
12/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	104
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	66.5
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	65
5/31/22	46
6/30/22	36.3
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	41.9
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	66.5
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	97.5
3/31/24	64
4/30/24	NODI=C
5/31/24	NODI=C

6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	66.5
11/30/24	NODI=C
12/31/24	NODI=C

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	.01
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	0
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	.02
5/31/22	.01
6/30/22	<.02
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.02
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C

10/31/23	.01
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	<.02
3/31/24	.02
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	<.02
11/30/24	NODI=C
12/31/24	NODI=C

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	345
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	185
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	2723
5/31/22	109
6/30/22	117
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C

2/28/23	NODI=C
3/31/23	37
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	84
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	87
3/31/24	38
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	86
11/30/24	NODI=C
12/31/24	NODI=C

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	280400.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	NODI=C
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	NODI=C
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	NODI=C
4/30/21	109120
5/31/21	NODI=C
6/30/21	NODI=C
7/31/21	NODI=C
8/31/21	120490
9/30/21	NODI=C
10/31/21	NODI=C
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	109120
5/31/22	109120
6/30/22	120490

7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	109120
4/30/23	NODI=C
5/31/23	NODI=C
6/30/23	NODI=C
7/31/23	NODI=C
8/31/23	NODI=C
9/30/23	NODI=C
10/31/23	109120
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	120490
3/31/24	109120
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	105000
11/30/24	NODI=C
12/31/24	NODI=C

Outfall 003C

00400 pH / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Annual

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=9	NODI=9
2/29/20	NODI=9	NODI=9
3/31/20	NODI=C	NODI=C
4/30/20	NODI=9	NODI=9
5/31/20	NODI=9	NODI=9
6/30/20	NODI=9	NODI=9
7/31/20	NODI=C	NODI=C
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	NODI=9	NODI=9
11/30/20	NODI=9	NODI=9
12/31/20	NODI=9	NODI=9
1/31/21	NODI=9	NODI=9
2/28/21	NODI=9	NODI=9
3/31/21	NODI=9	NODI=9
4/30/21	NODI=9	NODI=9
5/31/21	NODI=C	NODI=C
6/30/21	NODI=9	NODI=9
7/31/21	NODI=C	NODI=C
8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	NODI=9	NODI=9

11/30/21	NODI=9	NODI=9
12/31/21	NODI=9	NODI=9
1/31/22	NODI=9	NODI=9
2/28/22	NODI=9	NODI=9
3/31/22	NODI=9	NODI=9
4/30/22	7.19	8.26
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	NODI=C	NODI=C
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	NODI=9	NODI=9
11/30/22	NODI=9	NODI=9
12/31/22	NODI=9	NODI=9
1/31/23	NODI=9	NODI=9
2/28/23	NODI=9	NODI=9
3/31/23	NODI=9	NODI=9
4/30/23	NODI=9	NODI=9
5/31/23	NODI=9	NODI=9
6/30/23	NODI=9	NODI=9
7/31/23	NODI=C	NODI=C
8/31/23	NODI=9	NODI=9
9/30/23	NODI=9	NODI=9
10/31/23	NODI=9	NODI=9
11/30/23	NODI=9	NODI=9
12/31/23	NODI=9	NODI=9
1/31/24	NODI=9	NODI=9
2/29/24	NODI=9	NODI=9
3/31/24	NODI=9	NODI=9
4/30/24	NODI=9	NODI=9
5/31/24	NODI=9	NODI=9
6/30/24	NODI=9	NODI=9
7/31/24	NODI=C	NODI=C
8/31/24	NODI=9	NODI=9
9/30/24	NODI=9	NODI=9
10/31/24	NODI=9	NODI=9
11/30/24	NODI=9	NODI=9
12/31/24	NODI=9	NODI=9

00530 Solids, total suspended / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9

3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	9.3
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

00530 Solids, total suspended / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

00530 Solids, total suspended / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	9.3
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9

11/30/24	NODI=9
12/31/24	NODI=9

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	<.05
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9

3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

00610 Nitrogen, ammonia total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	<.05

5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9

12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.006
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

00615 Nitrogen, nitrite total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	

DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.006
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	

Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.05
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9

11/30/24	NODI=9
12/31/24	NODI=9

00620 Nitrogen, nitrate total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.05
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9

2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

01042 Copper, total [as Cu] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=9
7/31/20	NODI=C
1/31/21	NODI=9
7/31/21	NODI=C
1/31/22	NODI=9
7/31/22	NODI=C
1/31/23	NODI=9
7/31/23	NODI=C
1/31/24	NODI=9
7/31/24	NODI=C

01042 Copper, total [as Cu] / Location 1 / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9

2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.011
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

01042 Copper, total [as Cu] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

01042 Copper, total [as Cu] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	

Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MIN
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.011
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

50060 Chlorine, total residual / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis

8/1/2011	3/31/2014	Range During Sampling	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.02
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.01
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9

9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

50060 Chlorine, total residual / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

50060 Chlorine, total residual / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	.01
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9

12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

74055 Coliform, fecal general / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	
Limit Unit Desc	Number per 100 Milliliters
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	218
5/31/22	NODI=9

6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

74076 Flow / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Composite	Annual

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	280000.
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9

11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	280000
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	NODI=C
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	NODI=C
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

TAA3D LC50 Static 48Hr Acute D. Pulex / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

TAA3D LC50 Static 48Hr Acute D. Pulex / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	

1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	>100
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

TAA6C LC50 Static 48Hr Acute Pimephales promelas / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN

Limit Value	
DMR Values	
7/31/20	NODI=C
7/31/21	NODI=C
7/31/22	NODI=C
7/31/23	NODI=C
7/31/24	NODI=C

TAA6C LC50 Static 48Hr Acute Pimephales promelas / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Annual

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
1/31/20	NODI=9
2/29/20	NODI=9
3/31/20	NODI=C
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=C
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	>100
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	NODI=9
5/31/23	NODI=9
6/30/23	NODI=9
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	NODI=9
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	NODI=9
2/29/24	NODI=9

3/31/24	NODI=9
4/30/24	NODI=9
5/31/24	NODI=9
6/30/24	NODI=9
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	NODI=9
11/30/24	NODI=9
12/31/24	NODI=9

Outfall 003D

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Range During Sampling	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=C	NODI=C
3/31/20	NODI=C	NODI=C
4/30/20	NODI=C	NODI=C
5/31/20	7.06	7.06
6/30/20	NODI=C	NODI=C
7/31/20	NODI=C	NODI=C
8/31/20	NODI=C	NODI=C
9/30/20	NODI=C	NODI=C
10/31/20	6.11	6.11
11/30/20	NODI=C	NODI=C
12/31/20	NODI=C	NODI=C
1/31/21	NODI=C	NODI=C
2/28/21	NODI=C	NODI=C
3/31/21	6.35	6.35
4/30/21	NODI=C	NODI=C
5/31/21	7.31	7.31
6/30/21	6.91	6.91
7/31/21	7.15	7.15
8/31/21	6.97	6.97
9/30/21	NODI=C	NODI=C
10/31/21	6.94	6.94
11/30/21	NODI=C	NODI=C
12/31/21	NODI=C	NODI=C
1/31/22	NODI=C	NODI=C
2/28/22	NODI=C	NODI=C
3/31/22	NODI=C	NODI=C
4/30/22	NODI=C	NODI=C
5/31/22	NODI=C	NODI=C
6/30/22	NODI=C	NODI=C
7/31/22	NODI=C	NODI=C
8/31/22	NODI=C	NODI=C
9/30/22	NODI=C	NODI=C
10/31/22	NODI=C	NODI=C
11/30/22	NODI=C	NODI=C
12/31/22	7.6	7.6
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	NODI=C	NODI=C
4/30/23	NODI=C	NODI=C
5/31/23	6.94	6.94
6/30/23	NODI=C	NODI=C
7/31/23	6.84	6.84

8/31/23	NODI=C	NODI=C
9/30/23	7.35	7.35
10/31/23	NODI=C	NODI=C
11/30/23	NODI=C	NODI=C
12/31/23	NODI=C	NODI=C
1/31/24	NODI=C	NODI=C
2/29/24	NODI=C	NODI=C
3/31/24	NODI=C	NODI=C
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	6.65	6.65
7/31/24	NODI=C	NODI=C
8/31/24	NODI=C	NODI=C
9/30/24	NODI=C	NODI=C
10/31/24	NODI=C	NODI=C
11/30/24	6.57	6.57
12/31/24	NODI=C	NODI=C

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	5
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	3.3
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	<3.3
4/30/21	NODI=C
5/31/21	<3.3
6/30/21	<3.3
7/31/21	<3.3
8/31/21	<3.3
9/30/21	NODI=C
10/31/21	<3.3
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C

12/31/22	<2.2
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	<2
6/30/23	NODI=C
7/31/23	<2.5
8/31/23	NODI=C
9/30/23	<2
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	<2.5
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	4
12/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	8.5
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	.2
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	.41
4/30/21	NODI=C
5/31/21	13.4
6/30/21	12.2
7/31/21	10.1
8/31/21	.45
9/30/21	NODI=C
10/31/21	5.2
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C

4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	.87
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	9.84
6/30/23	NODI=C
7/31/23	13.3
8/31/23	NODI=C
9/30/23	.06
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	1.45
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	16.4
12/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	.024
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	.003
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	.005
4/30/21	NODI=C
5/31/21	.441
6/30/21	.204
7/31/21	.391

8/31/21	.008
9/30/21	NODI=C
10/31/21	.01
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	.003
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	.03
6/30/23	NODI=C
7/31/23	.076
8/31/23	NODI=C
9/30/23	.004
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	.004
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	.09
12/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	4.1
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	10.6
11/30/20	NODI=C

12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	3.68
4/30/21	NODI=C
5/31/21	.73
6/30/21	1.82
7/31/21	3.14
8/31/21	1.37
9/30/21	NODI=C
10/31/21	1.93
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	4.74
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	.75
6/30/23	NODI=C
7/31/23	1.02
8/31/23	NODI=C
9/30/23	.55
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	2.96
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	1.75
12/31/24	NODI=C

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C

4/30/20	NODI=C
5/31/20	.01
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	<.02
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	.01
4/30/21	NODI=C
5/31/21	.01
6/30/21	.02
7/31/21	.01
8/31/21	.02
9/30/21	NODI=C
10/31/21	.01
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	.01
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	.02
6/30/23	NODI=C
7/31/23	<.02
8/31/23	NODI=C
9/30/23	.02
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	<.02
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	<.02
12/31/24	NODI=C

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	

Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	0
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	0
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	0
4/30/21	NODI=C
5/31/21	18.3
6/30/21	9.7
7/31/21	0
8/31/21	0
9/30/21	NODI=C
10/31/21	53.8
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	1
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	7
6/30/23	NODI=C
7/31/23	54
8/31/23	NODI=C
9/30/23	0
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	0
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C

11/30/24	0
12/31/24	NODI=C

74076 Flow / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	36840.
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=C
3/31/20	NODI=C
4/30/20	NODI=C
5/31/20	32000
6/30/20	NODI=C
7/31/20	NODI=C
8/31/20	NODI=C
9/30/20	NODI=C
10/31/20	32000
11/30/20	NODI=C
12/31/20	NODI=C
1/31/21	NODI=C
2/28/21	NODI=C
3/31/21	32000
4/30/21	NODI=C
5/31/21	32000
6/30/21	32000
7/31/21	32000
8/31/21	32000
9/30/21	NODI=C
10/31/21	32000
11/30/21	NODI=C
12/31/21	NODI=C
1/31/22	NODI=C
2/28/22	NODI=C
3/31/22	NODI=C
4/30/22	NODI=C
5/31/22	NODI=C
6/30/22	NODI=C
7/31/22	NODI=C
8/31/22	NODI=C
9/30/22	NODI=C
10/31/22	NODI=C
11/30/22	NODI=C
12/31/22	32000
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	NODI=C
4/30/23	NODI=C
5/31/23	32000
6/30/23	NODI=C
7/31/23	32000
8/31/23	NODI=C
9/30/23	32000
10/31/23	NODI=C
11/30/23	NODI=C
12/31/23	NODI=C
1/31/24	NODI=C
2/29/24	NODI=C
3/31/24	NODI=C

4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	32000
7/31/24	NODI=C
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	32000
12/31/24	NODI=C

Outfall 003E

00400 pH / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Range During Sampling	Once per Batch

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	7.9	7.9
2/29/20	8.05	8.05
3/31/20	7.83	8.01
4/30/20	8.19	8.19
5/31/20	8.1	8.1
6/30/20	8.06	8.06
7/31/20	7.94	7.94
8/31/20	7.92	7.97
9/30/20	7.96	7.99
10/31/20	7.93	7.93
11/30/20	7.92	7.93
12/31/20	NODI=C	NODI=C
1/31/21	7.83	8
2/28/21	NODI=C	NODI=C
3/31/21	8.14	8.14
4/30/21	7.98	8.11
5/31/21	8.04	8.04
6/30/21	8	8
7/31/21	7.95	7.95
8/31/21	7.61	7.86
9/30/21	7.73	7.73
10/31/21	7.81	7.92
11/30/21	7.86	8.14
12/31/21	8.04	8.08
1/31/22	NODI=C	NODI=C
2/28/22	8.26	8.26
3/31/22	NODI=C	NODI=C
4/30/22	8.04	8.04
5/31/22	7.84	7.88
6/30/22	7.73	**9.06**
7/31/22	7.67	7.73
8/31/22	8.02	8.02
9/30/22	7.94	8.98
10/31/22	7.72	7.85
11/30/22	7.88	8.04
12/31/22	NODI=C	NODI=C
1/31/23	NODI=C	NODI=C
2/28/23	NODI=C	NODI=C
3/31/23	7.83	7.9
4/30/23	7.85	7.87
5/31/23	7.78	8.45
6/30/23	7.92	8.36
7/31/23	7.84	7.97

8/31/23	7.84	7.9
9/30/23	7.76	8.45
10/31/23	7.59	7.92
11/30/23	7.81	8.94
12/31/23	7.65	7.96
1/31/24	7.78	8.08
2/29/24	NODI=C	NODI=C
3/31/24	NODI=C	NODI=C
4/30/24	NODI=C	NODI=C
5/31/24	NODI=C	NODI=C
6/30/24	NODI=C	NODI=C
7/31/24	7.79	7.89
8/31/24	NODI=C	NODI=C
9/30/24	NODI=C	NODI=C
10/31/24	NODI=C	NODI=C
11/30/24	NODI=C	NODI=C
12/31/24	NODI=C	NODI=C

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	17
2/29/20	25
3/31/20	41
4/30/20	17
5/31/20	25
6/30/20	25
7/31/20	26
8/31/20	31
9/30/20	24
10/31/20	20
11/30/20	26
12/31/20	NODI=C
1/31/21	95
2/28/21	NODI=C
3/31/21	22
4/30/21	26
5/31/21	25
6/30/21	25
7/31/21	34
8/31/21	28
9/30/21	21
10/31/21	20
11/30/21	20
12/31/21	23
1/31/22	NODI=C
2/28/22	23
3/31/22	NODI=C
4/30/22	19
5/31/22	25
6/30/22	19
7/31/22	27
8/31/22	18
9/30/22	17
10/31/22	16
11/30/22	21

12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	17
4/30/23	16
5/31/23	17
6/30/23	16
7/31/23	20
8/31/23	15
9/30/23	20
10/31/23	16
11/30/23	18
12/31/23	19
1/31/24	16
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=E
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00610 Nitrogen, ammonia total [as N] / Location H / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	10.3
2/29/20	6.47
3/31/20	9.1
4/30/20	3.96
5/31/20	5.69
6/30/20	3.05
7/31/20	4.16
8/31/20	10.5
9/30/20	16.7
10/31/20	10.1
11/30/20	11.6
12/31/20	NODI=C
1/31/21	16.4
2/28/21	NODI=C
3/31/21	5.06
4/30/21	13.8
5/31/21	12.4
6/30/21	3.86
7/31/21	6.02
8/31/21	7.4
9/30/21	10.9
10/31/21	14.3
11/30/21	3.22
12/31/21	7.09
1/31/22	NODI=C
2/28/22	4.04
3/31/22	NODI=C

4/30/22	12.6
5/31/22	9.94
6/30/22	9.46
7/31/22	11.3
8/31/22	13.6
9/30/22	8.36
10/31/22	3.36
11/30/22	19.2
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	21
4/30/23	38.5
5/31/23	18
6/30/23	14.5
7/31/23	18.9
8/31/23	21.4
9/30/23	33.5
10/31/23	29.2
11/30/23	17.3
12/31/23	31.5
1/31/24	39.4
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	8.77
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	.539
2/29/20	.535
3/31/20	1.21
4/30/20	.712
5/31/20	.539
6/30/20	.122
7/31/20	.411
8/31/20	.276
9/30/20	.53
10/31/20	1.51
11/30/20	.915
12/31/20	NODI=C
1/31/21	2.67
2/28/21	NODI=C
3/31/21	.703
4/30/21	1.349
5/31/21	.306
6/30/21	.222
7/31/21	.104

8/31/21	.177
9/30/21	.393
10/31/21	.336
11/30/21	.122
12/31/21	.109
1/31/22	NODI=C
2/28/22	.934
3/31/22	NODI=C
4/30/22	.53
5/31/22	1.504
6/30/22	1.036
7/31/22	1.542
8/31/22	.804
9/30/22	1.25
10/31/22	.435
11/30/22	.65
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.956
4/30/23	.203
5/31/23	.462
6/30/23	2.027
7/31/23	.335
8/31/23	2.531
9/30/23	2.009
10/31/23	.963
11/30/23	.545
12/31/23	.67
1/31/24	.854
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	2.454
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	61.9
2/29/20	61.5
3/31/20	62
4/30/20	58.5
5/31/20	59.4
6/30/20	60.7
7/31/20	59.2
8/31/20	61.4
9/30/20	58.5
10/31/20	57.9
11/30/20	60.8

12/31/20	NODI=C
1/31/21	96.5
2/28/21	NODI=C
3/31/21	94.2
4/30/21	94.7
5/31/21	76.2
6/30/21	63.6
7/31/21	55.4
8/31/21	89.5
9/30/21	47.2
10/31/21	53.7
11/30/21	60.9
12/31/21	64.4
1/31/22	NODI=C
2/28/22	71.2
3/31/22	NODI=C
4/30/22	66.3
5/31/22	64.8
6/30/22	37.7
7/31/22	45.5
8/31/22	37
9/30/22	48.2
10/31/22	46.5
11/30/22	46.2
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	41.6
4/30/23	67.8
5/31/23	62.6
6/30/23	60.7
7/31/23	60.8
8/31/23	59.9
9/30/23	57.3
10/31/23	33.9
11/30/23	49
12/31/23	62.7
1/31/24	69.5
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	92
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	.01
2/29/20	.02
3/31/20	.02

4/30/20	.01
5/31/20	.02
6/30/20	.01
7/31/20	.02
8/31/20	.02
9/30/20	.01
10/31/20	<.02
11/30/20	<.02
12/31/20	NODI=C
1/31/21	.02
2/28/21	NODI=C
3/31/21	.01
4/30/21	.02
5/31/21	.02
6/30/21	.01
7/31/21	.02
8/31/21	.02
9/30/21	.02
10/31/21	.02
11/30/21	.02
12/31/21	.01
1/31/22	NODI=C
2/28/22	.02
3/31/22	NODI=C
4/30/22	.02
5/31/22	.01
6/30/22	.02
7/31/22	.01
8/31/22	.02
9/30/22	.02
10/31/22	.02
11/30/22	.02
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	.02
4/30/23	.02
5/31/23	.02
6/30/23	.02
7/31/23	.02
8/31/23	.02
9/30/23	.02
10/31/23	.02
11/30/23	.02
12/31/23	.02
1/31/24	.02
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	.59
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

74055 Coliform, fecal general / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/2009	3/31/2014	Grab	Once per Batch

Limit	

Limit Unit Desc	Number per 100 Milliliters
Statistical Base	INST MAX
Limit Value	
DMR Values	
1/31/20	0
2/29/20	0
3/31/20	20
4/30/20	10
5/31/20	0
6/30/20	1497
7/31/20	1374
8/31/20	75
9/30/20	313
10/31/20	10
11/30/20	10
12/31/20	NODI=C
1/31/21	281
2/28/21	NODI=C
3/31/21	0
4/30/21	231
5/31/21	439
6/30/21	0
7/31/21	10
8/31/21	627
9/30/21	20
10/31/21	2755
11/30/21	20
12/31/21	0
1/31/22	NODI=C
2/28/22	0
3/31/22	NODI=C
4/30/22	0
5/31/22	117.5
6/30/22	4
7/31/22	>1000
8/31/22	32
9/30/22	102
10/31/22	26
11/30/22	218
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	215
4/30/23	136
5/31/23	26
6/30/23	57
7/31/23	>1000
8/31/23	442
9/30/23	>1000
10/31/23	389
11/30/23	256
12/31/23	2
1/31/24	54
2/29/24	NODI=C
3/31/24	NODI=C
4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	NODI=E
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C

11/30/24	NODI=C
12/31/24	NODI=C

74076 Flow / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Totalizer	Once per Batch

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	6500.
DMR Values	
1/31/20	2600
2/29/20	2600
3/31/20	2600
4/30/20	2600
5/31/20	2600
6/30/20	2600
7/31/20	2600
8/31/20	2600
9/30/20	2600
10/31/20	2600
11/30/20	2600
12/31/20	NODI=C
1/31/21	2600
2/28/21	NODI=C
3/31/21	2600
4/30/21	2600
5/31/21	2600
6/30/21	2600
7/31/21	2600
8/31/21	2600
9/30/21	2600
10/31/21	2600
11/30/21	2600
12/31/21	2600
1/31/22	NODI=C
2/28/22	2600
3/31/22	NODI=C
4/30/22	2600
5/31/22	2600
6/30/22	2600
7/31/22	2600
8/31/22	2600
9/30/22	2600
10/31/22	2600
11/30/22	2600
12/31/22	NODI=C
1/31/23	NODI=C
2/28/23	NODI=C
3/31/23	2600
4/30/23	2600
5/31/23	2600
6/30/23	2600
7/31/23	2600
8/31/23	2600
9/30/23	2600
10/31/23	2600
11/30/23	2600
12/31/23	2600
1/31/24	2600
2/29/24	NODI=C
3/31/24	NODI=C

4/30/24	NODI=C
5/31/24	NODI=C
6/30/24	NODI=C
7/31/24	2600
8/31/24	NODI=C
9/30/24	NODI=C
10/31/24	NODI=C
11/30/24	NODI=C
12/31/24	NODI=C

Outfall 0041

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	NODI=C	NODI=C
2/29/20	NODI=9	NODI=9
3/31/20	NODI=9	NODI=9
4/30/20	7.71	7.71
5/31/20	NODI=9	NODI=9
6/30/20	NODI=9	NODI=9
7/31/20	NODI=C	NODI=C
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	NODI=C	NODI=C
11/30/20	NODI=9	NODI=9
12/31/20	NODI=9	NODI=9
1/31/21	NODI=C	NODI=C
2/28/21	NODI=9	NODI=9
3/31/21	7.91	7.91
4/30/21	NODI=C	NODI=C
5/31/21	NODI=9	NODI=9
6/30/21	NODI=9	NODI=9
7/31/21	NODI=C	NODI=C
8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	NODI=C	NODI=C
11/30/21	8.3	8.3
12/31/21	NODI=9	NODI=9
1/31/22	NODI=C	NODI=C
2/28/22	NODI=9	NODI=9
3/31/22	NODI=9	NODI=9
4/30/22	NODI=C	NODI=C
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	NODI=C	NODI=C
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	NODI=C	NODI=C
11/30/22	7.43	7.43
12/31/22	NODI=2	NODI=2
1/31/23	NODI=2	NODI=2
2/28/23	NODI=2	NODI=2
3/31/23	NODI=2	NODI=2
4/30/23	NODI=2	NODI=2
5/31/23	NODI=2	NODI=2
6/30/23	NODI=9	NODI=9
7/31/23	NODI=2	NODI=2

8/31/23	NODI=2	NODI=2
9/30/23	NODI=2	NODI=2
10/31/23	NODI=2	NODI=2
11/30/23	NODI=2	NODI=2
12/31/23	NODI=2	NODI=2
1/31/24	NODI=2	NODI=2
2/29/24	NODI=2	NODI=2
3/31/24	NODI=2	NODI=2
4/30/24	NODI=2	NODI=2
5/31/24	NODI=2	NODI=2
6/30/24	NODI=2	NODI=2
7/31/24	NODI=2	NODI=2
8/31/24	NODI=2	NODI=2
9/30/24	NODI=2	NODI=2
10/31/24	NODI=2	NODI=2
11/30/24	NODI=2	NODI=2
12/31/24	NODI=2	NODI=2

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	.02
DMR Values	
1/31/20	NODI=C
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	.01
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=C
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=C
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	NODI=C
2/28/21	NODI=9
3/31/21	.02
4/30/21	NODI=C
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	NODI=C
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=C
11/30/21	0
12/31/21	NODI=9
1/31/22	NODI=C
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	NODI=C
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	NODI=C
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=C
11/30/22	.02

12/31/22	NODI=2
1/31/23	NODI=2
2/28/23	NODI=2
3/31/23	NODI=2
4/30/23	NODI=2
5/31/23	NODI=2
6/30/23	NODI=9
7/31/23	NODI=2
8/31/23	NODI=2
9/30/23	NODI=2
10/31/23	NODI=2
11/30/23	NODI=2
12/31/23	NODI=2
1/31/24	NODI=2
2/29/24	NODI=2
3/31/24	NODI=2
4/30/24	NODI=2
5/31/24	NODI=2
6/30/24	NODI=2
7/31/24	NODI=2
8/31/24	NODI=2
9/30/24	NODI=2
10/31/24	NODI=2
11/30/24	NODI=2
12/31/24	NODI=2

Outfall 0051

00058 Flow rate / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit	
Limit Unit Desc	Gallons per Hour
Statistical Base	INST MAX
Limit Value	22000.
DMR Values	
1/31/20	16600
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	20750
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	20750
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	20750
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	16600
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	20750
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	20750
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	20750
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	20750
2/28/22	NODI=9

3/31/22	NODI=9
4/30/22	20750
5/31/22	NODI=9
6/30/22	NODI=9
7/31/22	20750
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	11304
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	20750
2/28/23	NODI=9
3/31/23	NODI=9
4/30/23	20750
5/31/23	NODI=9
6/30/23	NODI=9
7/31/23	20750
8/31/23	NODI=9
9/30/23	NODI=9
10/31/23	20750
11/30/23	NODI=9
12/31/23	NODI=9
1/31/24	20750
2/29/24	NODI=9
3/31/24	NODI=9
4/30/24	20750
5/31/24	NODI=9
6/30/24	NODI=9
7/31/24	20750
8/31/24	NODI=9
9/30/24	NODI=9
10/31/24	20750
11/30/24	NODI=9
12/31/24	NODI=9

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6.	9.
DMR Values		
1/31/20	7.75	8.28
2/29/20	NODI=9	NODI=9
3/31/20	NODI=9	NODI=9
4/30/20	8.11	8.39
5/31/20	NODI=9	NODI=9
6/30/20	NODI=9	NODI=9
7/31/20	7.51	8.42
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	7.89	8.25
11/30/20	NODI=9	NODI=9
12/31/20	NODI=9	NODI=9
1/31/21	7.82	8.42
2/28/21	NODI=9	NODI=9
3/31/21	NODI=9	NODI=9
4/30/21	7.89	8.43
5/31/21	NODI=9	NODI=9
6/30/21	NODI=9	NODI=9
7/31/21	7.69	7.97

8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	7.73	7.95
11/30/21	NODI=9	NODI=9
12/31/21	NODI=9	NODI=9
1/31/22	7.82	8.34
2/28/22	NODI=9	NODI=9
3/31/22	NODI=9	NODI=9
4/30/22	7.06	8.47
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	7.88	8.12
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	7.77	7.86
11/30/22	NODI=9	NODI=9
12/31/22	NODI=9	NODI=9
1/31/23	7.65	7.85
2/28/23	NODI=9	NODI=9
3/31/23	NODI=9	NODI=9
4/30/23	7.62	7.98
5/31/23	NODI=9	NODI=9
6/30/23	NODI=9	NODI=9
7/31/23	7.7	7.9
8/31/23	NODI=9	NODI=9
9/30/23	NODI=9	NODI=9
10/31/23	7.78	7.83
11/30/23	NODI=9	NODI=9
12/31/23	NODI=9	NODI=9
1/31/24	7.79	7.86
2/29/24	NODI=9	NODI=9
3/31/24	NODI=9	NODI=9
4/30/24	7.75	7.91
5/31/24	NODI=9	NODI=9
6/30/24	NODI=9	NODI=9
7/31/24	7.83	8.02
8/31/24	NODI=9	NODI=9
9/30/24	NODI=9	NODI=9
10/31/24	7.7	7.81
11/30/24	NODI=9	NODI=9
12/31/24	NODI=9	NODI=9

50060 Chlorine, total residual / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/2011	3/31/2014	Grab	Quarterly

Limit		
Limit Unit Desc	Grams per hour	Milligrams per Liter
Statistical Base	INST MAX	INST MAX
Limit Value	5.7	.3
DMR Values		
1/31/20	5.65	.1
2/29/20	NODI=9	NODI=9
3/31/20	NODI=9	NODI=9
4/30/20	4.71	.07
5/31/20	NODI=9	NODI=9
6/30/20	NODI=9	NODI=9
7/31/20	3.93	.13
8/31/20	NODI=9	NODI=9
9/30/20	NODI=9	NODI=9
10/31/20	5.5	.07
11/30/20	NODI=9	NODI=9

12/31/20	NODI=9	NODI=9
1/31/21	**7.54**	.12
2/28/21	NODI=9	NODI=9
3/31/21	NODI=9	NODI=9
4/30/21	5.65	.12
5/31/21	NODI=9	NODI=9
6/30/21	NODI=9	NODI=9
7/31/21	5.03	.1
8/31/21	NODI=9	NODI=9
9/30/21	NODI=9	NODI=9
10/31/21	3.93	.09
11/30/21	NODI=9	NODI=9
12/31/21	NODI=9	NODI=9
1/31/22	5.5	.07
2/28/22	NODI=9	NODI=9
3/31/22	NODI=9	NODI=9
4/30/22	5.3	.07
5/31/22	NODI=9	NODI=9
6/30/22	NODI=9	NODI=9
7/31/22	5.03	.08
8/31/22	NODI=9	NODI=9
9/30/22	NODI=9	NODI=9
10/31/22	5.34	.17
11/30/22	NODI=9	NODI=9
12/31/22	NODI=9	NODI=9
1/31/23	5.03	.08
2/28/23	NODI=9	NODI=9
3/31/23	NODI=9	NODI=9
4/30/23	3.14	.02
5/31/23	NODI=9	NODI=9
6/30/23	NODI=9	NODI=9
7/31/23	2.36	.03
8/31/23	NODI=9	NODI=9
9/30/23	NODI=9	NODI=9
10/31/23	2.51	.04
11/30/23	NODI=9	NODI=9
12/31/23	NODI=9	NODI=9
1/31/24	3.85	.09
2/29/24	NODI=9	NODI=9
3/31/24	NODI=9	NODI=9
4/30/24	2.36	.04
5/31/24	NODI=9	NODI=9
6/30/24	NODI=9	NODI=9
7/31/24	3.14	.08
8/31/24	NODI=9	NODI=9
9/30/24	NODI=9	NODI=9
10/31/24	3.93	.05
11/30/24	NODI=9	NODI=9
12/31/24	NODI=9	NODI=9

NOTICE OF TENTATIVE DETERMINATION
INTENT TO RENEW A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
FOR THE FOLLOWING DISCHARGES INTO THE WATERS OF THE STATE OF CONNECTICUT

1.0 TENTATIVE DECISION

The Commissioner of the Department of Energy and Environmental Protection ("the Commissioner") hereby gives notice of a tentative determination to renew a permit based on an application and administrative record submitted by Mystic Aquarium, A Division of Sea Research Foundation Inc. ("the Applicant") under Section 22a-430 of the Connecticut General Statutes ("Conn. Gen. Stat.") for a permit to discharge into the waters of the state.

In accordance with applicable federal and state law, the Commissioner has made a tentative determination that continuance of the existing system to treat the discharge would protect the waters of the state from pollution.

The Commissioner proposes to renew a permit for the discharge to the Mystic River. The proposed permit, if issued by the Commissioner, will require that all wastewater be treated to meet the applicable effluent limitations.

2.0 APPLICANT'S PROPOSAL

Mystic Aquarium, A Division of Sea Research Foundation Inc. presently discharges 1,948,040 gallons per day of aquarium tank maintenance wastewater, stormwater overflow, and pond water from the operation and maintenance of the on-site seal rescue clinic, aquarium tanks, and natural pond exhibit to the Mystic River from operations at an Aquarium.

The name and mailing address of the permit Applicant are: Mystic Aquarium, A Division of Sea Research Foundation Inc. 55 Coogan Boulevard, Mystic, CT 06355

The activity takes place at: 55 Coogan Boulevard, Mystic, CT 06355

3.0 REGULATORY CONDITIONS

3.1 Type of Treatment

DSN 001, 003, 010, 011, 012: Dechlorination
DSN 002: Dechlorination and denitrification
DSN 006, 007, 008: Dechlorination and protein skimming

3.2 Effluent Limitations

This permit contains effluent limitations consistent with: water quality based-effluent limits, which will meet water quality standards, including the Anti-Degradation Policy.

In accordance with Section 22a-430-4(l) of the Regulations of Connecticut State Agencies the permit contains effluent limitations for the following types of toxic substances: heavy metals, fecal coliform, nutrients, pH, and chlorine.

4.0 COMMISSIONER'S AUTHORITY

The Commissioner of the Department of Energy and Environmental Protection is authorized to approve or deny such permits pursuant to Section 402(b) of the Federal Water Pollution Control Act, as amended, 33 USC 1251, et. seq. and Section 22a-430 of the Conn. Gen. Stat. and the Water Discharge Permit Regulations (Section 22a-430-3 and 4 of the Regulations of Connecticut State Agencies).

5.0 INFORMATION REQUESTS

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

APPLICATION NO. 201304082 **PERMIT NO.** CT0020630

Interested persons may obtain copies of the application from David Moyer, Mystic Aquarium, a Division of Sea Research Foundation Inc., 55 Coogan Boulevard, Mystic 06355, gsirpenski@searesearch.org, Phone No.: (860) 572-5955

The application is available for inspection by contacting Patrick Bieger, Environmental Engineer II, at 860 424-3805 or patrick.bieger@ct.gov, at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT 061065127 from 8:30-4:30, Monday through Friday.

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

6.0 PUBLIC COMMENT

Prior to making a final decision to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within 30 days of this public notice. Written comments should be directed to Patrick Bieger, Environmental Engineer II, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 061065127 or DEEP.IndustrialNPDESPublicComments@ct.gov and should indicate the Permit ID No. CT0020630 in the subject line. The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby, and shall hold a hearing upon receipt of a petition signed by at least twenty -five persons. Notice of any public hearing shall be published at least thirty (30) days prior to the hearing.

7.0 PETITIONS FOR HEARING

Petitions shall be submitted within thirty (30) days from the date of publication of this public notice and should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. Upon receipt of a petition, the Commissioner shall take action as required by relevant laws, including Public Act 25-84, which was effective upon passage in June 2025. The Office of Adjudications will accept electronically-filed petitions for hearing in addition to those submitted by mail or hand-delivered. Petitions with required signatures may be sent to deep.adjudications@ct.gov; those mailed or delivered should go to the DEEP Office of Adjudications, 79 Elm Street, Hartford, CT 06106. If the signed original petition is only in an electronic format, the petition must be submitted with a statement signed by the petitioner that the petition exists only in that

form. Original petitions that were filed electronically must also be mailed or delivered to the Office of Adjudications within 30 days of electronic submittal. Additional information can be found at www.ct.gov/deep/adjudications.

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). If you are seeking a communication aid or service, have limited proficiency in English, wish to file an ADA or Title VI discrimination complaint, or require some other accommodation, including equipment to facilitate virtual participation, please contact the DEEP Office of Diversity and Equity at 860-418-5910 or by email at deep.accommodations@ct.gov. Any person needing an accommodation for hearing impairment may call the State of Connecticut relay number - 711. In order to facilitate efforts to provide accommodation, please request all accommodations as soon as possible following notice of any agency hearing, meeting, program, or event.

Audra Godfrey

Audra Godfrey, Director
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance
Department of Energy and Environmental Protection

Dated: June 2, 2026