



# State of New Jersey

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*Governor*

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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BOB MARTIN  
*Commissioner*

KIM GUADAGNO  
*Lt. Governor*

November 7, 2016

Re: Draft RENEWAL Discharge to Surface Water (DSW) Consolidated Master General Permit  
Category: ASC - Consolidated DSW Renewal School (GP)  
NJPDES Permit No. NJ0193381  
NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST

Dear Interested Parties:

Enclosed is a **draft** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A.

Notice of this draft permit action will appear in the November 2, 2016 *DEP Bulletin* and in the newspapers listed below. The *DEP Bulletin* is available on the internet at <http://www.state.nj.us/dep/bulletin>. In accordance with N.J.A.C. 7:14A-15.10(c)1i, the public comment period will close thirty days after its appearance in the last newspaper.

Newspaper	County
<i>Burlington County Times</i>	Burlington
<i>The Democrat</i>	Hunterdon
<i>Daily Record</i>	Morris
<i>The New Jersey Herald</i>	Sussex

As detailed in the *DEP Bulletin* and aforementioned newspapers, written comments must be submitted in writing to Susan Rosenwinkel, Section Chief, Mail Code 401-02B, Division of Water Quality, Bureau of Surface Water Permitting, P.O. Box 420, Trenton, NJ 08625-0420 by the close of the public comment period. All persons, including the applicant, who believe that any condition of this draft document is inappropriate or that the Department's tentative decision to issue this draft document is inappropriate, must raise all reasonable arguments and factual grounds supporting their position, including all supporting materials, during the public comment period.

Please note, on October 22, 2015, the U.S. Environmental Protection Agency (EPA) promulgated the final National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule (see Federal Register 80:204 p. 64064). This rule requires entities regulated under the Clean Water Act NPDES program to report certain information electronically instead of filing paper reports. Consistent with this rule, please be advised that the existing reporting requirements contained within your permit have been moved and/or modified. Please refer to Parts II and IV of your permit for further details regarding the new reporting requirements. To view the final rule, please visit <https://www.gpo.gov/fdsys/pkg/FR-2015-10-22/pdf/2015-24954.pdf>. Information on how to enroll in electronic reporting may be obtained from the Department's website at [www.nj.gov/dep/dwq/mrf.htm](http://www.nj.gov/dep/dwq/mrf.htm).

The Department will respond to all significant and timely comments upon issuance of the final document. The permittee and each person who has submitted written comments will receive notice of the Department's final decision to issue, revoke, or redraft the document.

If you have questions or comments regarding the draft action, please contact Tara Klimowicz or Brian Salvo by phone at (609) 292-4860 or via e-mail at [tara.klimowicz@dep.nj.gov](mailto:tara.klimowicz@dep.nj.gov) or [brian.salvo@dep.nj.gov](mailto:brian.salvo@dep.nj.gov).

Sincerely,

A handwritten signature in black ink that reads "Susan Rosenwinkel". The signature is written in a cursive, flowing style.

Susan Rosenwinkel  
Section Chief  
Bureau of Surface Water Permitting

Enclosures

c: Permit Distribution List

Masterfile #: 39609; PI #: 50577

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**This preliminary draft master permit package contains the following items:**

- 1. Draft Master Cover Letter**
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- 5. Permit Summary Tables**
- 6. NJPDES Permit Authorization Page for Master General Permit No. NJ0193381**
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New Jersey Department of Environmental Protection  
Division of Water Quality  
Bureau of Surface Water Permitting

**PUBLIC NOTICE**

Notice is hereby given that the New Jersey Department of Environmental Protection (Department) proposes to renew a New Jersey Pollutant Discharge Elimination System (NJPDES) Discharge to Surface Water (DSW) Consolidated School Master General Permit (ASC) NJ0193381 in accordance with N.J.A.C. 7:14A-1 et seq., and by authority of the Water Pollution Control Act at N.J.S.A. 58:10A-1 et seq.

This renewal DSW Consolidated Master General Permit is issued to continue to authorize the discharge of treated domestic wastewater to surface waters of the State of New Jersey. This general permit currently includes twenty-two individual schools and will regulate these facilities under a general permit. The Department has determined that the wastewater characteristics, effluent limitations and monitoring conditions of the discharges are similar and as such are more appropriately controlled under a general permit. The specific limitations and monitoring conditions for each facility will be authorized through this consolidated master general permit and are summarized in the “permit summary tables.” Individual authorizations will be issued for each of the twenty-two school wastewater treatment plants, following the finalization of this general permit. A full copy of the consolidated master general permit, including a complete description of all effluent limitations and monitoring conditions is available at [www.state.nj.us/dep/dwq](http://www.state.nj.us/dep/dwq). The public comment period will close on December 7, 2016.

Although this general permit is specifically designed for these existing twenty-two facilities, the Department reserves the right to include any school wastewater treatment facilities, with similar wastewater characteristics, that have received all applicable Federal, State and local approvals; including the appropriate Departmental approvals and any necessary wastewater management plan (WMP) approvals.

This renewal draft NJPDES Consolidated School Master General Permit has been prepared based on the administrative record which is on file at the offices of the Department, located at 401 East State Street, Trenton, New Jersey. It is available for inspection, by appointment, Monday through Friday, between 9:00 A.M. and 2:00 P.M. An appointment for inspection may be requested through the Open Public Records Act office. Details are available online at [www.nj.gov/dep/opra](http://www.nj.gov/dep/opra), or by calling (609) 341-3121.

Written comments on this draft document must be submitted in writing to Susan Rosenwinkel, Section Chief, or Attention: Comments on Public Notice NJ0193381, at Mail Code 401-02B, Division of Water Quality, Bureau of Surface Water Permitting, P.O. Box 420, Trenton, NJ 08625-0420. Any comments shall be submitted by the close of the public comment period which closes thirty calendar days after publication of this notice in the newspapers. All persons, including the applicant, who believe that any condition of this draft document is inappropriate or that the Department's decision to issue this draft document is inappropriate, must raise all reasonable arguments and factual grounds supporting their position, including all supporting materials, during the public comment period.

The Department will respond to all significant and timely comments upon issuance of the final document. The permittee and each person who has submitted written comments will receive notice of the Department's permit decision.

New Jersey Department of Environmental Protection  
Division of Water Quality  
Bureau of Surface Water Permitting

## FACT SHEET

**Masterfile #:** Varies

**PI #:** Varies

This fact sheet sets forth the principle facts and the significant factual, legal, and policy considerations examined during preparation of the draft permit. This action has been prepared in accordance with the New Jersey Water Pollution Control Act and its implementing regulations at N.J.A.C. 7:14A-1 et seq. - The New Jersey Pollutant Discharge Elimination System.

**PERMIT ACTION:** Surface Water Master General Permit - Renewal

### **1 Background and Description of Master General Consolidated Discharge to Surface Water Permit – General Permit for Schools**

There are currently 22 individual schools covered under this master general permit that discharge their treated domestic wastewater to surface waters throughout the State of New Jersey. These existing facilities are similar in with respect to the following factors:

- Only treated domestic wastewater generated from schools is discharged with no off-site contribution;
- The total flow quantities are small ranging in size from 0.0048 up to 0.058 million gallons per day (MGD);
- Many of these facilities discharge seasonally where the majority of the flow is generally discharged during the non-summer months.

In accordance with N.J.A.C. 7:14A-6.13(b)4, the New Jersey Department of Environmental Protection (hereafter “the Department”) may issue one master general permit to cover a category of discharges that meet the following criteria: involve the same or substantially similar types of operations; discharge the same type of wastes; require the same or similar effluent limitations and operating conditions; require the same or similar monitoring; and are more appropriately controlled under a general permit than under an individual permit. The Department has determined that issuance of a master general permit for these schools meet these regulatory criteria.

There are many benefits to renewing this master general permit for these discharges. First, issuance of a master general permit serves to simplify and streamline the NJPDES permitting process for these similar types of discharges. Secondly, the issuance of an individual NJPDES/DSW permit takes a considerably longer period of time to issue as compared to a general permit authorization. By issuing this master general permit, the Department can issue more NJPDES/DSW permits in an expeditious manner with no sacrifice in protection of the water resource. Finally, given the de-minimus nature of the flow quantities and expected pollutants, issuance of a master general permit ensures that the Department’s resources are utilized in a sound manner.

Individual authorizations for discharges that are being issued under this master general permit continue to meet certain eligibility criteria. All facilities considered eligible under this master general permit are rated as minor facilities by the Department in accordance with the United States Environmental Protection Agency (EPA) rating criteria. Although this master general permit is specifically designed for these existing individual schools at this time, the Department reserves the right to include any new facilities, with similar wastewater characteristics, that have received all other applicable Federal, State and local approvals, including the appropriate departmental approvals and any necessary Wastewater Management Plan (WMP) approval.

The NJPDES category for this master general permit is “ASC”. Any individual authorization issued under the ASC permit is given two NJPDES numbers. The NJPDES number on the individual authorization page will be specific to the individual facility whereas the NJPDES number NJ0193381 is for the master ASC permit. Note that the Burnt Hill

Treatment Plant (NJG0026891), Montgomery High School STP (NJG0023124), and Camden County Tech School (NJG0031615) were covered under the master general permit effective January 1, 2012 which have since tied in to wastewater treatment plants. As such, those authorizations have been appropriately revoked and are not included in this master general permit. In addition, Holmdel Board of Education Village School (NJ0027031) has elected to be authorized under an individual permit.

Facilities Covered under the Master General Consolidated Discharge to Surface Water Permit General Permit for Schools are as follows:

	<b>NJPDES Permit No.</b>	<b>Facility</b>	<b>Permitted Flow (MGD)</b>
1	NJG0020419	Long Pond School WTP	0.01
2	NJG0020711	Warren County Technical School STP	0.012
3	NJG0021091	Jefferson Township High - Middle School	0.0275
4	NJG0021105	Arthur Stanlick School	0.007095
5	NJG0021253	Indian Hills High School	0.0336
6	NJG0021571	Springfield Township Elementary	0.0075
7	NJG0022101	Blair Academy	0.05
8	NJG0022276	Stony Brook School	0.01
9	NJG0022438	Helen A. Fort Middle School	0.012
10	NJG0023001	Salvation Army Camp Tecumseh	0.018
11	NJG0023175	Round Valley Middle School	0.009
12	NJG0023311	Kingwood Township School	0.0048
13	NJG0023841	Lounsbury Hollow Middle School	0.032
14	NJG0024091	Union Township Elementary	0.011
15	NJG0027049	Pope John XXIII High School	0.022
16	NJG0027065	Sparta Alpine School	0.025
17	NJG0027553	Lester D. Wilson Elementary	0.0075
18	NJG0028894	Kittatinny Regional HS Board of Ed	0.045
19	NJG0029432	Robert Erskine School	0.008
20	NJG0031046	North Warren Regional School District	0.02
21	NJG0031585	High Point Regional High School	0.03
22	NJG0035670	Alexandria Middle School	0.0099

## **2 Discharge Location Information and Receiving Waterbody Classification:**

Receiving waterbody classifications are obtained from N.J.A.C. 7:9B-1.1 *et seq.*, the New Jersey Surface Water Quality Standards (NJSWQS). Fresh waters are considered to be those waters classified as FW2 waters whereas pinelands waters are considered to be those waters classified as PL waters. All facilities covered under this master general permit are classified as either FW2 or PL waters. Designated uses for waterbody classifications can be found at N.J.A.C. 7:9B-1.12 and are as follows:

### *FW2:*

1. Maintenance, migration and propagation of the natural and established biota;
2. Primary and secondary contact recreation;
3. Industrial and agricultural water supply;
4. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection; and
5. Any other reasonable uses.

*PL:*

1. Cranberry bog water supply and other agricultural uses;
2. Maintenance, migration and propagation of the natural and established biota indigenous to this unique ecological system;
3. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection;
4. Primary and secondary contact recreation; and
5. Any other reasonable uses.

Receiving waterbody classifications are as follows:

<b>NJPDES Permit No.</b>	<b>Facility</b>	<b>County</b>	<b>Waterbody Classification</b>
NJG0020419	Long Pond School WTP	Sussex	FW2-NT(C2)
NJG0020711	Warren County Technical School STP	Warren	FW2-TM(C1)*
NJG0021091	Jefferson Township High - Middle School	Morris	FW2-TM(C1)
NJG0021105	Arthur Stanlick School	Morris	FW2-NT(C2)
NJG0021253	Indian Hills High School	Bergen	FW2-NT(C2)
NJG0021571	Springfield Township Elementary	Burlington	FW2-NT(C2)
NJG0022101	Blair Academy	Warren	FW2-TM(C2)
NJG0022276	Stony Brook School	Morris	FW2-NT(C2)
NJG0022438	Helen A. Fort Middle School	Burlington	PL
NJG0023001	Salvation Army Camp Tecumseh	Hunterdon	FW2-NT(C1)
NJG0023175	Round Valley Middle School	Hunterdon	FW2-TP(C1)
NJG0023311	Kingwood Township School	Hunterdon	FW2-NT(C2)
NJG0023841	Lounsbury Hollow Middle School	Sussex	FW2-TM(C2)
NJG0024091	Union Township Elementary	Hunterdon	FW2-TP(C1)
NJG0027049	Pope John XXIII High School	Sussex	FW2-NT(C1)*
NJG0027065	Sparta Alpine School	Sussex	FW2-NT(C1)*
NJG0027553	Lester D. Wilson Elementary	Hunterdon	FW2-NT(C1)
NJG0028894	Kittatinny Regional HS Board of Ed	Sussex	FW2-NT(C2)
NJG0029432	Robert Erskine School	Passaic	FW2-TM(C1)
NJG0031046	North Warren Regional School District	Warren	FW2-TM(C2)
NJG0031585	High Point Regional High School	Sussex	FW2-NT(C2)
NJG0035670	Alexandria Middle School	Hunterdon	FW2-NT(C1)

\*The receiving waterbody classification has changed since the January 1, 2012 Master General Permit.

The receiving waterbody classification and outfall name for each discharge are also indicated on the Permit Summary Tables which are included as an attachment to this document. Any parameters listed as impaired in the Permit Summary Tables are listed on Sublist 5 as per New Jersey's 2012 Integrated Water Quality Monitoring and Assessment Report (includes 305(b) Report and 303(d) List. The 75<sup>th</sup> percentile flow is defined as the flow which is exceeded 75 percent of the time for the appropriate "period of record" as determined by the United States Geological Survey (USGS).

A copy of the appropriate section of a USGS quadrangle map will be included in the individual authorizations which will be issued for each facility subsequent to finalization of this master general permit. These USGS quadrangle maps will indicate the location of the facility and discharge point for each facility. A treatment schematic will also be included in the individual authorizations where available.

### **3 Type and Quantity of the Wastes or Pollutants:**

The Permit Summary Tables for existing discharges are located near the end of this fact sheet and contain a summary of the quantity and quality of pollutants treated and discharged from existing facilities covered under this general permit. Effluent data was obtained from the Monitoring Report Forms for the time period specified in the table.

All treatment works with a discharge regulated under N.J.A.C. 7:14A must have permits that implement applicable technical standards for residual management. All applicable conditions for residual management have been included in a separate NJPDES Residual General Permit Authorization; therefore, are not included in this permit renewal.

### **4 Description of Limitations and Conditions for New and Existing Discharges:**

#### **A. Basis for Effluent Limitations and Permit Conditions - General**

The effluent limitations and permit conditions in this permit have been developed to ensure compliance with the following, as applicable:

1. NJPDES Regulations (N.J.A.C. 7:14A),
2. New Jersey Surface Water Quality Standards (N.J.A.C. 7:9B),
3. New Jersey's 2012 Integrated Water Quality Monitoring and Assessment Report (includes 305(b) Report and 303(d) List),
4. Requirements of the Delaware River Basin Commission (N.J.A.C. 7:9B-1.5(b)1),
5. Requirements of the Pinelands Commission (N.J.A.C. 7:50-6.81 to 6.87),
6. Requirements of the Highlands Commission (N.J.S.A. 13:20-1 et seq.),
7. Secondary Treatment Standards (40 CFR Part 133, N.J.A.C. 7:14A-12.2 and -12.3),
8. Existing permit limitations in accordance with N.J.A.C. 7:14A-13.19 and 40 CFR 122.44 (antibacksliding requirements),
9. Permit limitations in accordance with N.J.A.C. 7:9B-1.5(d) (antidegradation requirements),
10. Statewide Water Quality Management Planning Rules (N.J.A.C. 7:15),

In accordance with N.J.A.C. 7:14A-13.5, Water Quality Based Effluent Limitations (WQBELs) are imposed when it has been determined that the discharge of a pollutant causes an excursion of criteria specified in the NJSWQS, N.J.A.C. 7:9B-1.1 et seq., and the Federal Water Quality Standards, 40 CFR Part 131. WQBELs are authorized by Section 301 of the Clean Water Act, 40 CFR 122, N.J.S.A. 58:10A-4, and N.J.A.C. 7:14A-13.2 and 13.3. The procedures used to develop WQBELs are contained in the State and Federal Standards. Specific procedures, methodologies, and equations are contained in the current USEPA "Technical Support Document for Water Quality-based Toxics Control" (TSD) (EPA- 505/2-90-001) and are referenced in N.J.A.C. 7:14A-13.5 and 13.6.

Expression of all effluent limitations is in accordance with N.J.A.C. 7:14A-13.14 and 13.15.

Whole effluent toxicity limitations are expressed as a minimum as a percent.

Loading limitations (kg/day or g/day) are calculated by multiplying the permitted flow value (in million gallons per day (MGD)) by the conversion factor of 3.785 (L/gal) and the appropriate concentration limitation (mg/L or µg/L).

#### **B. Basis and Derivation for Effluent Limitations and Monitoring Requirements - Specific**

Please refer to the Permit Summary Table attachment of this Fact Sheet for additional information regarding effluent limitations and monitoring requirements for these existing discharges. Monitoring frequencies and samples types are in accordance with N.J.A.C. 7:14A-14, unless specified otherwise in the permit.

This permit action does not authorize any increase in the concentration of pollutants above those levels authorized under the existing permits. All permit limitations and conditions in this permit action are equal to or more stringent than those contained in the existing permit action unless otherwise specified. As a result, this permit action satisfies



the federal and state anti-degradation regulations at N.J.A.C. 7:14A-13.19, 40 CFR 131.12 and N.J.A.C. 7:9B-1.5(d), and no further anti-degradation analysis is necessary.

1. Flow:

This permit does not include a numerical limitation for flow. However, monitoring conditions are applied to all sites pursuant to N.J.A.C. 7:14A-13.13.

Monitoring Frequency and Sample Type for all sites: Flow shall be monitored on a **continuous** basis with a **metered** sample type.

2. Biochemical Oxygen Demand (BOD)<sub>5</sub> or 5-Day Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>):

The following permits contain **BOD<sub>5</sub>** limits which are being retained in accordance with N.J.A.C. 7:14A-13.19:

NJPDES Permit No.	Concentration, in mg/L		Loading (kg/day)		Percent Removal
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average Minimum
NJG0020419	25	37.5	(0.94)	(1.4)	90
NJG0020711	25	25	(1.14)	(1.14)	90
NJG0021571	25	37.5	(0.71)	(1.06)	85
NJG0022101	30	45	(6)	(9)	85
NJG0022438	25	37.5	(4.73)	(7.09)	85
NJG0023001	25	25	(1.70)	(1.70)	85
NJG0023175	30	45	(1)	(1.5)	85
NJG0023311	25	37.5	(0.45)	(0.68)	85
NJG0023841	15	22.5	(1.8)	(2.72)	85
NJG0024091	8	12	(0.33)	(0.5)	85
NJG0027049	25	40	(2.08)	(3.33)	85
NJG0027065	15	15	(1.4)	(1.4)	95
NJG0027553	25	37.5	(0.71)	(1.06)	85
NJG0028894	25	40	(4.2)	(6.8)	85
NJG0031585	15	15	(1.7)	(1.7)	85

The following permits contain **CBOD<sub>5</sub>** limits which are being retained in accordance with N.J.A.C. 7:14A-13.19:

NJPDES Permit No.	Concentration, in mg/L		Loading (kg/day)		Percent Removal
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average Minimum
NJG0021091	8	12	(0.85)	(1.25)	85
NJG0021105	25	40	(MR)	(MR)	85
NJG0021253	8	12	(1)	(1.5)	85
NJG0022276	8	12	(0.3)	(0.45)	85
NJG0029432	8	12	(0.24)	(0.36)	85
NJG0031046	25	40	(1.89)	(3.03)	85
NJG0035670	25	37.5	(1.04)	(1.56)	85

Two of these facilities have BOD<sub>5</sub> concentration limitations set at 30 mg/L as a monthly average and 45 mg/L as a weekly average. These limitations are equivalent to the definition of secondary treatment at 40 CFR 133.102(a) (1) and (2) and N.J.A.C. 7:14A-12.2 (b) 1. Other limitations are based on the minimum effluent standards for either the Atlantic Coastal Plain or Wallkill River Basin (15 mg/L as a monthly average and 22.5 mg/L as a weekly average), Delaware River Basin (25 mg/L as a monthly average and 37.5 mg/L as a weekly average), or the

Passaic River Basin (25 mg/L as a monthly average and 37.5 mg/L as a weekly average). Other effluent limitations may be based on site-specific water quality studies.

All mass loading limitations are retained from the existing permit in accordance with N.J.A.C. 7:14A-13.19. For most facilities loading limits are premised on the concentration values multiplied by the permitted flow and a conversion factor.

Percent removal limitations are retained from the existing permits in accordance with N.J.A.C. 7:14A-13.19. Any percent removal values of 85% are based on the definition of secondary treatment at 40 CFR 133.102(a)(3), N.J.A.C. 7:14A-12.2(b)3 and N.J.A.C. 7:14A-12.2(c)3.

Monitoring Frequency and Sample Type for all Facilities: The monitoring frequency of **once per month** is carried forward from the existing permit and is consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

3. Total Suspended Solids (TSS):

The effluent limitations for TSS for all sites (with one exception) are 30 mg/L as a monthly average and 45 mg/L as a weekly average and are being retained pursuant to N.J.A.C. 7:14A-13.19. These limitations are equivalent to the definition of secondary treatment at 40 CFR 133.102(a) (1) and (2) and N.J.A.C. 7:14A-12.2 (b) 1. Permit No. NJG0024091 contains site-specific effluent limitations of 8 mg/L as a monthly average and 12 mg/L as a weekly average which are being retained pursuant to N.J.A.C. 7:14A-13.19.

All mass loading limitations are retained from the existing permit in accordance with N.J.A.C. 7:14A-13.19. For most facilities loading limits are premised on the concentration values multiplied by the permitted flow and a conversion factor.

The percent removal limitation of 85% is also applied to all sites and is based on the definition of secondary treatment at 40 CFR 133.102(b)(3) and N.J.A.C. 7:14A-12.2(e)3. This limit is retained pursuant to N.J.A.C. 7:14A-13.19.

Monitoring Frequency and Sample Type for all Facilities: The monitoring frequency of **once per month** is carried forward from the existing permit and is consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

4. pH:

For all Facilities (with the exception of NJ0027065, NJ0024091): The effluent limitations for pH are an instantaneous minimum of 6.0 s.u. and an instantaneous maximum of 9.0 s.u. These effluent limitations are based on the definition of secondary treatment at 40 CFR 133.102(c) and N.J.A.C. 7:14A-12.2 (f) where the limits are retained in accordance with N.J.A.C. 7:14A-13.19.

For Facilities NJ0027065 and NJ0024091: Effluent limitations for NJ0027065 and NJ0024091 are 6.5 s.u. as an instantaneous minimum and 8.5 s.u. as an instantaneous maximum. These limits are based on N. J.A.C. 7:9B-1.1 et seq. and are equivalent to the instream NJSWQS. These limits are retained from the existing permits.

Monitoring Frequency and Sample Type for all sites: The monitoring frequency of **once per day** is carried forward from the existing permit consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

5. Temperature:

As authorized by N.J.A.C. 7:14A-6.2(a)14, monitoring and reporting requirements for effluent temperature are retained from the existing permit. While effluent temperature is a monitoring requirement that applies to all facilities, effluent temperature may also be included in the permit to track compliance with the in-stream un-ionized ammonia criteria at N.J.A.C. 7:9B-1.14(c) for certain facilities.

Monitoring Frequency and Sample Type for all sites: The monitoring frequency of **once per day** is carried forward from the existing permit consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

6. Bacterial Indicator:

As discussed in the September 19, 2005 proposal for amendments to the SWQS at N.J.A.C. 7:9B-1.14(d)1, fecal coliform historically had been the preferred indicator of fecal matter in ambient water by the USEPA and the Department. However, USEPA no longer supports the use of fecal coliform as a reliable indicator of human illness risk from primary contact recreation. The USEPA now recommends the use of *E. coli* as pathogen indicators for fresh waters and enterococcus for marine waters (USEPA's draft *Implementation Guidance for Ambient Water Quality Criteria for Bacteria*, November 2003). Therefore, the Department has replaced the fecal coliform criteria for those waters designated for primary contact recreation (FW2, SE1 and SC classifications) at N.J.A.C. 7:9B-1.14(c)1ii(1) and (2) with enterococcus (SE1 and SC waters) and *E. coli* indicators (FW2 waters), respectively.

Fecal Coliform limitations of 200 colonies per 100 mL as a monthly geometric average and 400 colonies as a weekly geometric average were imposed in the existing permit for all sites. Monitoring requirements were also included for *E. Coli* on a "5/month" frequency as a monthly average and an instant maximum.

The SWQS specify 126 colonies per 100 mL as a monthly geometric for *E. Coli*. Based on the monitoring data as summarized in the Permit Summary Tables, the permittee's effluent data indicates that they may be unable to consistently comply with the proposed final limitation of 126 colonies per 100 mL as a monthly geometric mean for *E. coli*. Therefore, a schedule of compliance is included in the permit renewal action for all facilities. As a result, the new *E. coli* limitation becomes effective on the effective date of the permit (EDP) + **12 months**. The permittee shall also monitor and report as an instantaneous maximum. *E. coli* is the appropriate indicator parameter for bacteria consistent with N.J.A.C. 7:9B-1.14(d)1. This change is consistent with the Department's antidegradation policies as *E. coli* is considered to be **an equivalent bacterial indicator**.

The Department has determined that monitoring for fecal coliform is no longer necessary based on the repealed criteria for fecal coliform and the new criteria for *E. coli*. Therefore, the requirements for fecal coliform are being removed from the permit for the final phase.

Monitoring Frequency and Sample Type for all Facilities: The monitoring frequency of **once per month** is imposed consistent with N.J.A.C. 7:14A-14.4. Monthly monitoring shall be continued for fecal coliform during the Initial Phase (EDP to EDP + 1 year) whereas quarterly monitoring shall be conducted for *E. Coli* during the Initial Phase. Monthly monitoring is required for *E. Coli* only (i.e., not fecal coliform) in the Final Phase (EDP + 1 year to permit expiration). The sample type shall be **grab**.

7. Dissolved Oxygen (DO):

All discharge authorizations for schools contain effluent limitations for DO. The technical source for these limitations vary and can be from the NJSWQS, area-wide water quality management plans, or site-specific water quality studies. The NJSWQS at N.J.A.C. 7:9B-1.1 et seq. for DO for FW2-NT waters is a 24 hour average of not less than 5.0 but not less than 4.0 at any time. For FW2-TM waters the 24 hour average is not less than 6.0 but not less than 5.0 at any time. For FW2-TP waters DO can be not less than 7.0 at any time. For the purposes of permit implementation, a 24 hour average is considered equivalent to a "daily minimum" and a limit of "at any time" is equivalent to an instantaneous minimum.

Effluent limitations for the following sites conform with the NJSWQS and are being retained in this master ASC permit:

NJPDES Permit No.		DO Limits, mg/L	
<u>NJPDES Permit No.</u>	<u>Receiving Water Classification</u>	<u>Instant Minimum</u>	<u>Daily Average Minimum</u>
NJG0020711	FW2-TM(C2)	5.0	6.0
NJG0021091	FW2-TM(C1)	5.0	6.0
NJG0021105	FW2-NT(C2)	4.0	5.0
NJG0021571	FW2-NT(C2)	4.0	5.0
NJG0022101	FW2-TM(C2)	5.0	6.0
NJG0022438	PL	4.0	5.0
NJG0023001	FW2-NT(C1)	4.0	5.0
NJG0023311	FW2-NT(C2)	4.0	5.0
NJG0027049	FW2-NT(C2)	4.0	5.0
NJG0027065	FW2-NT(C1)	4.0	5.0
NJG0027553	FW2-NT(C1)	4.0	5.0
NJG0028894	FW2-NT(C2)	4.0	5.0
NJG0029432	FW2-TM(C1)	5.0	6.0
NJG0031046	FW2-TM(C2)	5.0	6.0
NJG0031585	FW2-NT(C2)	4.0	5.0
NJG0035670	FW2-NT(C1)	4.0	5.0

Effluent limitations for the following sites are more stringent than or roughly equivalent to the NJSWQS and the technical source of the limitations may have been based on a site-specific water quality study. The Department is retaining the existing limits for these facilities pursuant to N.J.A.C. 7:14A-13.19:

NJPDES Permit No.		DO Limits, mg/L			
<u>NJPDES Permit No.</u>	<u>Receiving Water Classification</u>	<u>Monthly Average Min.</u>	<u>Daily Average Min.</u>	<u>Weekly Average Min.</u>	<u>Instant Min.</u>
NJG0020419	FW2-NT(C2)	5.0	6.0	--	--
NJG0021253	FW2-NT(C2)	--	6.0	--	MR
NJG0022276	FW2-NT(C2)	--	6.0	--	MR
NJG0023841	FW2-TM(C2)	--	MR	6.0	--

The following sites are classified as FW2-TP(C1). The in-stream NJSWQS for FW2-TP(C1) waters state that DO can be not less than 7.0 at any time. However, both NJG0023175 and NJG0024091 have some dilution so the existing effluent limitations have been retained for those sites pursuant to N.J.A.C. 7:14A-13.19. A summary of these limitations is as follows:

NJPDES Permit No.		DO Limits, mg/L	
<u>NJPDES Permit No.</u>	<u>Receiving Water Classification</u>	<u>Monthly Average Min.</u>	<u>Instant Min.</u>
NJG0023175	FW2-TP(C1)	6.0	MR
NJG0024091	FW2-TP(C1)	7.0	MR

Monitoring Frequency and Sample Type for all Facilities: The monitoring frequency of **once per month** is carried forward from the existing permits and is consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

8. Oil and Grease:

The effluent limitations of 10 mg/L as a monthly average and 15 mg/L as an instantaneous maximum are included for all sites and have been retained from the existing permits pursuant to N.J.A.C. 7:14A-13.19. These effluent limitations are based on N.J.A.C. 7:14A-12.8(c).

Monitoring Frequency and Sample Type for all sites: The monitoring frequency of **quarterly** is carried forward from the existing permits. The sample type shall be **grab**.

9. Total Dissolved Solids (TDS):

TDS monitoring requirements are applicable to those facilities that discharge to waterbodies within the Delaware River Basin and have permitted flows equal to or greater than 0.01 MGD as these facilities are subject to the requirements of the Delaware River Basin Commission. As authorized by N.J.A.C. 7:14A-6.2(a)14 and consistent with the requirements of the Delaware River Basin Commission and N.J.A.C. 7:9B-1.5(b), monitoring and reporting requirements for TDS as a monthly average and daily maximum have been included in this permit renewal action for the following facilities:

	<b>NJPDES Permit No.</b>	<b>Facility</b>	<b>Permitted Flow (MGD)</b>
1	NJG0020419	Long Pond School WTP	0.01
2	NJG0020711	Warren County Technical School STP	0.01168
3	NJG0022101	Blair Academy	0.05
4	NJG0023001	Salvation Army Camp Tecumseh	0.017
5	NJG0027049	Pope John XXIII High School	0.02
6	NJG0027065	Sparta Alpine School	0.025
7	NJG0028894	Kittatinny Regional HS Board of Ed	0.045
8	NJG0031046	North Warren Regional School District	0.02

Monitoring Frequency and Sample Type for affected sites: The monitoring frequency is set at **quarterly** and the sample type shall be **grab**.

10. Chlorine Produced Oxidants (CPO):

CPO limits are appropriate for those facilities that chlorinate their effluent. While these facilities also dechlorinate, monitoring for CPO ensures measurement of any residual chlorine in the effluent. Effluent limitations for CPO have been retained from the existing permit pursuant to N.J.A.C. 7:14A-13.19 for those sites that chlorinate. For those facilities that use UV disinfection, effluent limitations for CPO are not included as chlorination is not part of the treatment process.

Monitoring Frequency and Sample Type: The monitoring frequency of **once/day** is carried forward from the existing permits for those sites that chlorinate. The sample type shall be **grab**.

11. Ammonia (Total as N):

Ammonia-N in water exists in two forms:  $\text{NH}_3$  and  $\text{NH}_4^+$ . As  $\text{NH}_3$ , ammonia-N is called "un-ionized"; as  $\text{NH}_4^+$ , ammonia-N is called "ionized". Generally, the un-ionized fraction is considered more toxic than the ionized fraction. The relative proportion that is found in each fraction is primarily dependent on the temperature and the pH of the solution. At a higher temperature and/or a higher pH, more ammonia-N exists in the un-ionized form as compared to a lower temperature and/or pH. Ammonia-N is usually measured as total ammonia-N, which includes both the ionized and the un-ionized fractions.

The NJSWQS at N.J.A.C. 7:9B-1.14 set an instream limit on the concentration of un-ionized ammonia that may be allowed in the stream. The NJSWQS may be expressed as calculations dependent on instream temperature and pH. Where this is the case, the values for temperature and pH used to calculate the un-ionized ammonia criteria are those values that exist after any allowable mixing of the effluent and receiving water. There are criteria values for both acute and chronic toxicity effects. Permit limits to protect against the toxic effects of ammonia instream are based on the more stringent calculated long term average.

Limit Derivation: The effluent limitations are calculated using the procedures in the TSD in accordance with N.J.A.C. 7:14A-13.6(a). The wasteload allocation is calculated by solving a series of simultaneous equations for the carbonate and ammonia equilibria according to the following methodology. It is assumed that there is complete and total mixing with the receiving stream. The input data in the solution of the equilibrium equations are derived from Discharge Monitoring Report (DMR) data.

Carbonate Equilibrium: The simultaneous equilibrium (temperature corrected) for the first and second carbonate equilibrium for each pH value are solved to calculate the carbon species and the hydrogen ion concentrations. This is done separately for each stream, i.e. the effluent and the upstream receiving stream.

The downstream concentrations for the carbon fractions are then calculated by mass balance. The downstream final temperature is also calculated by mass balance. The final downstream hydrogen ion concentration is then calculated by the carbonate equilibrium equations. The final pH is calculated from the final hydrogen ion concentration.

$$\begin{aligned} &\text{Equilibrium Equation:} \\ \log K &= -[A/T] + D - C \times T \\ C &= 0.032786 \\ D &= 14.8435 \\ A &= 3404.71 \\ T &= \text{Temp in } ^\circ\text{K} \end{aligned}$$

Ammonia-N Equilibrium: Using the final pH and the final temperature, the ammonia equilibrium of the final mixed stream is calculated.

$$\begin{aligned} &\text{Equilibrium Equation:} \\ \text{pK}_a &= 0.09018 + 2729.92/T \\ T &= \text{Temp in degrees K} \end{aligned}$$

The final total ammonia-N wasteload allocation is calculated by mass balance from the instream un-ionized ammonia criteria. A “reserve capacity”, or “margin of safety”, is considered in setting the wasteload allocation in accordance with N.J.A.C. 7:15-7.1 and Section 4.2.1 of the USEPA TSD. For certain sites the ammonia toxicity analysis may be a subset of a parameter specific TMDL as identified in N.J.A.C. 7:15-7.1.

The ammonia toxicity criteria adopted in January 2002 for FW2-NT waters includes separate spawning and non-spawning season equations for calculating the applicable instream criteria. The spawning season criteria apply for the months of March through October, while the non-spawning season criteria apply for the months of November through February. This is a significant departure from the historically used summer (May through October) and winter (November through April) seasons. By moving the traditional winter months of March and April into the spawning season, they are now grouped with the traditional summer months of May through October.

Due to cold weather effects on the nitrification process, some dischargers have indicated to the Department that the simple procedure of applying the summer season limits to the months of March and April could result in effluent limitation exceedances. Therefore, the Department evaluates the WQBELs for March and April using the spawning season criteria, winter season ambient stream information (where appropriate), and March/April effluent pH and temperature data. In order to keep March and April grouped with the other traditional winter months of November through February, the more stringent of the non-spawning or March/April WQBELs are applied to the traditional winter season. In this way, water quality is protected from the toxic effects of ammonia during both the non-spawning months of November through February and the spawning months of March and April. Additionally, the more stringent limitations for the other spawning months of May through October do not have to be applied to the cooler, wetter months of March and April.

The Department has evaluated all existing ammonia limits to see if any changes are warranted. The Department has determined that all site-specific ammonia limits shall be retained from the existing permit pursuant to N.J.A.C. 7:14A-13.19. The ammonia limits that are being retained are as follows:

NJPDES Permit No.	Summer Limits May through October in mg/L and (kg/day)		Winter Limits November through April in mg/L and (kg/day)	
	Monthly Average	Weekly Average	Monthly Average	Weekly Average
NJG0020419	3.5 (0.13)	(a) 5.1 (0.19)	4.7 (0.18)	(a) 6.9 (0.26)
NJG0020711	20 (0.91)	MR (MR)	20 (0.91)	MR (MR)
NJG0021091	2 (0.2)	3 (0.3)	4 (0.42)	(a) 5.8 (0.6)
NJG0021105	4.5 (MR)	(a) 6.6 (MR)	MR (MR)	(a) 8.0 (0.21)
NJG0021253	2 (0.25)	3 (0.38)	2 (0.25)	3 (0.38)
NJG0021571	MR (MR)	9.0 (0.26)	MR (MR)	16 (0.45)
NJG0022101	20 (3.8)	MR (MR)	20 (3.8)	MR (MR)
NJG0022276	2.0 (0.08)	3.0 (0.11)	MR (MR)	(a) 4.4 (0.16)
NJG0022438	20 (3.78)	(a) MR (MR)	20 (3.78)	(a) MR (MR)
NJG0023175	1.0 (0.03)	MR (MR)	MR (MR)	(a) MR (MR)
NJG0023311	2 (0.04)	(a) 3 (0.055)	3 (0.055)	(a) 4 (0.07)
NJG0023841	2.6 (0.31)	(a) 3.8 (0.46)	2.6 (0.31)	(a) 3.8 (0.46)
NJG0024091	1.0 (MR)	MR (MR)	MR (MR)	(a) MR (MR)
NJG0027065	MR (MR)	(a) 7 (0.66)	MR (MR)	(a) 12.6 (1.2)
	3.9 (0.37)	(a) 6.0 (0.57)	4.2 (0.40)	(a) 7.0 (0.66)
NJG0027553	MR (MR)	(a) 10.5 (0.3)	20 (0.57)	(a) 22 (0.62)
	MR (MR)	(a) 10.2(0.29)	MR (MR)	(a) 18.4 (0.52)
NJG0028894	20 (3.4)	(a) MR (MR)	20 (3.4)	(a) MR (MR)
NJG0029432	2 (0.06)	3 (0.09)	MR (MR)	(a) 7.0 (0.21)
NJG0031046	18.2 (1.38)	(a) 26.6 (2.01)	20 (MR)	MR (MR)
NJG0031585	MR (MR)	MR (MR)	MR (MR)	MR (MR)
NJG0035670	MR (MR)	(a) 10.5 (0.44)	20 (0.83)	(a) 22 (0.92)
NJG0023001	2.7 (0.37)	4.4 (0.59)	2.5 (0.34)	4.2 (0.57)
NJG0027049	2.4 (0.18)	4.0 (0.30)	2.5 (0.19)	4.2 (0.32)

MR- Monitor and Report  
(a) Daily Maximum

Monitoring Frequency and Sample Type for all Facilities: The monitoring frequency of **once per month** is carried forward from the existing permits and is consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.

## 12. Phosphorus:

### Background

The Department has utilized two approaches to control the discharge of phosphorus in the surface waters of the State. One is through the issuance of NJPDES permits with site specific WQBELs based on the 0.1 mg/L phosphorus standard established in the NJSWQS. The other is through the development of phosphorus total maximum daily loads (TMDLs). Phosphorus TMDLs are based on a more comprehensive analysis and provide watershed based (rather than site specific) phosphorus limits for the affected dischargers. A TMDL is "**proposed**" when the Department publishes the TMDL Report as a proposed Water Quality Management Plan (WQMP) amendment in the New Jersey Register (NJR) for public review and comment. Following the public comment period, the Department prepares a response to comments received and any required revisions to the TMDL. The revised document with response to comments is "**established**" upon submittal to EPA for review. Following EPA's review and approval process, the TMDL is deemed "**approved**" and can then be "**adopted**" as an amendment to the WQMP. The notice of adoption is published in the NJR.

### Phosphorus Requirements in the ASC Permit

The phosphorus limits have been reevaluated in light of continued TMDL issuance, SVAP procedures and WQBEL calculations. The basis for phosphorus requirements for all facilities is included below as well as the newly proposed limitations, if applicable.

- **ADOPTED TMDLs**

Adopted TMDLs exist for the following facilities:

	Existing Phosphorus Limits				Proposed Master ASC Phosphorus Limits			
	Concentration, in mg/L		Loading (kg/day)		Concentration, in mg/L		Loading (kg/day)	
<b>NJPDES Permit No.</b>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Monthly Average</u>	<u>Weekly Average</u>
NJG0020419	1.0	--	(MR)	--	1.0	--	(MR)	--
NJG0021091	1.0	1.5	(MR)	(MR)	1.0	1.5	(MR)	(MR)
NJG0021253	0.76	(MR)	(MR)	(MR)	0.76	(MR)	(MR)	(MR)
NJG0022276	1.0	1.5	(MR)	(MR)	1.0	1.5	(MR)	(MR)
NJG0023175	MR	MR	(MR)	(MR)	4.75	(MR)	(MR)	(MR)
NJG0024091	1.0	MR	(MR)	(MR)	1.0	MR	(MR)	(MR)
NJG0027065	1.0	--	(MR)	--	1.0	--	(MR)	--
NJG0029432	1.6	2.4	(MR)	(MR)	1.6	2.4	(MR)	(MR)

NJG0020419 (Long Pond School): The receiving water into which this facility discharges is within the Pequest River Watershed in the Northwest Water Region. A report entitled, “TMDLs for Phosphorus to Address Four (4) Impaired Assessment Units in the Pequest River” was adopted on June 20, 2011 and specifies “no measureable change in TMDL boundary load” for Long Pond School. Therefore, the existing phosphorus effluent limitation of 1.0 mg/L as a monthly average and the monitoring and reporting requirement for monthly average loading has been retained in this renewal action.

NJG0021091 (Jefferson Township High – Middle School): Phosphorus has been found to be a pollutant of concern for the Passaic River Basin. On May 7, 2007, the Department proposed phosphorus TMDL, and a uniform allocation of this loading capacity, for the Wanaque Reservoir. The report was entitled “Phase I Passaic River Study Total Maximum Daily Load for Phosphorus in Wanaque Reservoir Northeast Water Region” and was included as part of the amendment process for the Northeast, Upper Raritan, Sussex County and Upper Delaware WQMP. This TMDL was the first phase of a two-phase TMDL study addressing in-stream phosphorus impairments in the non-tidal Passaic River Basin. The adoption of the TMDL in the Northeast WQMP was finalized on April 24, 2008.

Jefferson Township High - Middle School is located outside the model boundaries of the TMDL. As per footnote 3 of Table 14 of the adopted TMDL, since the TP load generated by the permittee is insignificant when compared to the boundary loads, the impact of this discharge is considered de minimus. For example, assuming no natural TP load attenuation, the average total permitted load from this and other de minimus facilities is less than 0.71% of the total boundary load. Therefore, the WLAs established for this facility are based on the permitted flow and monthly average concentrations in accordance with existing permit conditions. The existing concentration limitations of 1.0 mg/L as a monthly average and 1.5 mg/L as a weekly average have been retained in this permit action. In addition, the monitoring and reporting requirement for monthly average loading and weekly average loading has also been carried forward in this permit action.

NJG0021253 (Indian Hills High School): Phosphorus has been found to be a pollutant of concern for the Ramapo River. On May 7, 2007, the Department proposed phosphorus TMDL for the Ramapo River. The report is entitled, “Total Maximum Daily Load to Address Phosphorus Impairment in the Pompton Lake and Ramapo River in the Northeast Water Region.” The TMDL was adopted on April 24, 2008.



On June 21, 2012 the Department issued an Individual General Permit Authorization modification to correct the final phosphorus effluent concentration limitations imposed on Indian Hills High School. As stated in the modification cover letter, the Department misinterpreted the TMDL and imposed a long term average (LTA) limitation rather than an average monthly limitation (AML) for phosphorus. Specifically, the final phosphorus effluent concentration limitation should be 0.76 mg/L as a monthly average and monitoring only as a weekly average concentration. Therefore, the existing final phosphorus concentration monthly average of 0.76 mg/L has been retained in this permit renewal. In addition, the monitoring and reporting requirement for monthly average loading, weekly average loading and weekly average concentration has also been carried forward.

NJG0022276 (Stony Brook School): Phosphorus has been found to be a pollutant of concern for the Passaic River Basin. On May 7, 2007, the Department proposed an amendment to the Northeast, Upper Raritan, Sussex County and Upper Delaware Water Quality Management Plans to incorporate the TMDL for phosphorus, and a uniform allocation of this loading capacity, in the Non-Tidal Passaic River Basin. The proposed amendment included a report entitled "Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments." The TMDL was adopted on April 24, 2008 and published in the New Jersey Register on May 19, 2008. The TMDL assigns a WLA of 0.04 kg/d to the permittee. Therefore, existing phosphorus effluent limitations of 1.0 mg/L as a monthly average and 1.5 mg/L as a weekly average have been retained in this permit action. In addition, the monitoring and reporting requirement for monthly average loading and weekly average loading has also been carried forward in this renewal action.

NJG0023175 (Round Valley Middle School): Phosphorus has been found to be a pollutant of concern for the Raritan River Basin. A report entitled, "TMDL Report for the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments" was adopted on May 24, 2016 and published in the New Jersey Register on June 20, 2016. The TMDL to assigns a monthly average concentration limitation of 4.75 mg/L to Round Valley Middle School. In addition, a monitoring and reporting requirement for the monthly average loading, weekly average loading and weekly average concentration has been included in this permit renewal.

NJG0024091 (Union Board of Education): The receiving water into which these facilities discharge is within the Raritan River Basin and is covered by a TMDL. As a result, the Department has carried forward the monthly average concentration limit of 1.0 mg/L from the existing permit. In addition, the monitoring and reporting requirement for the monthly average loading, weekly average loading and weekly average concentration has also been carried forward in this permit renewal.

NJG0027065 (Sparta Alpine): Phosphorus has been found to be a pollutant of concern for the Pequest River Watershed Basin. On June 7, 2010, the Department proposed a phosphorus TMDL, and a uniform allocation of this loading capacity, for the Headwaters of the Pequest River. The report was entitled "Total Maximum Daily Loads for Phosphorus to Address Four Impaired Assessment Units in the Pequest River Watershed" and was included as part of the amendment process for the Upper Delaware Water Quality Management Plan and Sussex County WQMP. The report states that the Sparta Alpine School will be required to maintain effluent quality so as to result in "no measurable change" in water quality at the point of entry into impaired assessment units. Therefore, the existing phosphorus effluent limitation of 1.0 mg/L as a monthly average has been carried forward from the existing permit. In addition, the monitoring and reporting requirement for monthly average loading has been retained in this renewal action.

NJG0029432 (Robert Erskine School): Phosphorus has been found to be a pollutant of concern for the Passaic River Basin. On May 7, 2007, the Department proposed an amendment to Northeast, Upper Raritan, Sussex County and Upper Delaware WQMPs to incorporate TMDL for phosphorus, and a uniform allocation of this loading capacity, in the Non-Tidal Passaic River Basin. The proposed amendment included a report entitled "Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments." The TMDL was adopted on April 24, 2008 and published in the New Jersey Register on May 19, 2008. The TMDL assigns a WLA of 0.05 kg/d to the permittee. Therefore, the limitations are concentrations of 1.6 mg/L as a monthly average and 2.4 mg/L as a weekly average have been carried forward from the existing permit. In addition, the monitoring and reporting requirement for monthly average loading and weekly average loading has also been retained in this permit.

• **APPROVED TMDLs (In Progress)**

The following facilities have TMDLs that have been deemed “approved” and are in the process of being “adopted”; therefore, approved TMDLs are not included at this time unless stated below. At such time as the TMDL’s are adopted the Department will reflect the new phosphorus requirement in a subsequent permit action. Details regarding each facility are as follows:

NJPDES Permit No.	Existing Phosphorus Limits				Proposed Master ASC Phosphorus Limits			
	Concentration, in mg/L		Loading (kg/d)		Concentration, in mg/L		Loading (kg/d)	
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average	Weekly Average
NJG0021105	0.561	MR	(MR)	(MR)	0.561	MR	(MR)	(MR)
NJG0021571	MR	MR	(MR)	(MR)	MR	MR	(MR)	(MR)
NJG0022438	MR	MR	(MR)	(MR)	MR	MR	(MR)	(MR)
NJG0023841	MR	0.5	(MR)	0.06	MR	0.5	(MR)	0.06
NJG0031585	MR	MR	(MR)	(MR)	MR	MR	(MR)	(MR)

NJG0021105 (Arthur Stanlick School): In a report entitled “Total Maximum Daily Loads for Phosphorus To Address 4 Eutrophic Lakes in the Northwest Water Region” approved by USEPA on September 1, 2003, the Department established a WLA of 5.5 kg/yr for 4,000 gallons per day (GPD) for the Arthur Stanlick School. On September 14, 2006, the Bureau of Watershed Regulation (BWR) received an application from the permittee to increase the NJPDES flow value from 4,000 GPD to 7,095 GPD. As a result, the BWR adopted the Jefferson Township Wastewater Management Plan and the Sussex County WQMP on July 3, 2007 to reflect the higher flow of 7,095 GPD. The WLA of 5.5 kg/yr, allocated in the TMDL equates to a monthly average loading limit of 0.015 kg/day and a monthly average concentration limit of 0.561 mg/l for 7,095 GPD. While the TMDL has not yet been adopted, the Department is retaining the existing permit limit of 0.561 mg/L as a monthly average concentration. In addition, the Department has also retained the monitoring and reporting requirement for monthly average loading and the monitoring and reporting requirement for the weekly average concentration and loading in this ASC permit.

NJG0021571 (Springfield Township Elementary): Phosphorus was found to be a pollutant of concern in Barkers Brook. Therefore, in a report entitled, “TMDLs for Phosphorus to Address 4 Stream Segments (Annaricken Brook, Barkers Brook North Branch, and Doctors Creek)” approved by USEPA on October 1, 2007, the Department established a permit limit of 0.55 mg/L and a WLA of 5.73 kg/yr for Springfield Township Elementary School. Since the TMDL has not yet been adopted, the specified TMDL effluent limitations are not enforceable in this permit action. Therefore, the existing monitoring and reporting requirements for monthly average and weekly average concentration and loading have been retained in this permit action.

NJG0022438 (Helen Fort Middle School): The receiving water into which this facility discharges is within the Rancocas / Pennsauken watershed. Since the development of a Rancocas / Pennsauken watershed TMDL is underway, appropriate Phosphorus limits will be applied at the time the TMDL is adopted. Therefore, the existing monitoring and reporting requirements for monthly average and weekly average concentration and loading have been retained in this permit action.

NJG0023841 (Lounsberry Hollow Middle School): Phosphorus has been found to be a pollutant of concern for the Wallkill River Basin. A report entitled, “Total Maximum Daily Load for Phosphorus to Address Seven (7) Stream Segments in the Northwest Water Region” approved by USEPA on September 30, 2005, the Department establishes a WLA of 22.09 kg/yr for Lounsberry Hollow Middle School. Due to the pending TMDL, the Department issued a Stay Letter on June 23, 2011 which stayed the final phosphorus effluent WQBELs to the interim phase phosphorus limitations of the June 21, 2006 permit. Since the TMDL has not yet been adopted the specified TMDL effluent limitations are not included in this permit action. Therefore, the Department has retained the existing permit limit of 0.5 mg/L as a weekly average concentration in this permit action. In addition, the

monitoring and reporting requirement for monthly average loading, weekly average loading and monthly average concentration has also been carried forward in this permit action.

NJG0031585 (High Point High School): As noted in the final permit issued July 25, 2011, phosphorus has been found to be a pollutant of concern for the Wallkill River Basin. Therefore, in accordance with N.J.A.C. 7:15-7.2(g), the Department proposed an amendment to the Sussex County WQMP to incorporate TMDL for phosphorus. The TMDL report is entitled “Total Maximum Daily Load to Address Phosphorus in the Clove Acres Lake and Papakating Creek Northwest Water Region” and was approved on September 29, 2004.

The TMDL to Address Phosphorus in the Clove Acres Lake and Papakating Creek Northwest Water Region assigns a long term average WLA of 45.2 kg/yr to High Point Regional High School. Since the TMDL has not yet been adopted, the specified TMDL effluent limitations are not included in this permit action. Therefore, the monthly average and weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

• **Facilities that have passed Stream Visual Assessment Protocol (SVAP)**

Any facility not subject to a TMDL can elect to have a SVAP performed. The SVAP provides a basic level of stream health evaluation and assesses the applicability of the water quality criteria for a discharge. The SVAP evaluation is a special consideration for small dischargers under the Department’s “Technical Manual for Phosphorus Evaluations For Discharge to Surface Waters” (Technical Manual). As per the Technical Manual, for small dischargers, (NJPDES permitted flow values of 100,000 GPD or less) the Department considers a SVAP score of 5.5 or greater to be sufficient proof that phosphorus is not rendering the waters unsuitable for the designated uses.

The following facilities have passed the SVAP and are not included under an issued TMDL or have a TMDL pending. Therefore, the Department is retaining the existing limits and monitoring and reporting requirements for these facilities pursuant to N.J.A.C. 7:14A-13.19:

NJPDES Permit No.	Phosphorus Limits			
	Concentration, in mg/L		Loading (kg/d)	
	Monthly Average	Weekly Average	Monthly Average	Weekly Average
NJG0020711	MR	MR	MR	MR
NJG0023001	1.0	MR	MR	MR
NJG0023311	MR	MR	MR	MR
NJG0027049	MR	MR	MR	MR
NJG0027553	MR	MR	MR	MR
NJG0035670	MR	MR	MR	MR

The results of the SVAP analysis are summarized below:

NJG0020711 (Warren County Technical School STP): A SVAP determination was made in response to the submittal of the Final Stream Visual Assessment Study dated September 15, 2010 with the original Work Plan submission dated October 2008. The work plan was approved and the assessment was performed on September 14, 2010. The three assessment locations received passing average scores (5.5 or higher) as follows:

Assessment Elements	Station 1 - Upstream	Station 2 - Outfall	Station 3 - Further Downstream
Water Appearance	9	10	9
Nutrient Enrichment	6	7	7
Canopy Cover	10	10	10
<b>Average</b>	8.33	9	8.67

Water appearance at all three locations was clear. Although algal growth was attached to rocks, there was no evidence of excessive algal growth or algal blooms caused by excessive nutrient enrichment exhibited at any of the locations. Canopy cover was adequate at all locations. Based on the assessment, it can be concluded that the discharge does not render the receiving waterbody for this facility, Pohatcong Creek, unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply to the discharge. As a result, the monthly average and weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

NJG0023001 (Salvation Army Camp Tecumpseh): A SVAP determination was made in response to the submittal of the Final Stream Visual Assessment Study dated October 6, 2010 with the original work plan submission dated September 21, 2009. The three assessment locations received passing average scores (5.5 or higher) as follows:

<i>Assessment Elements</i>	<i>Station 1 – upstream</i>	<i>Station 2 - downstream of outfall</i>	<i>Station 3 – further downstream</i>
Water Appearance	9.0	10	10
Nutrient Enrichment	8.0	10	10
Canopy Cover	10	10	10
<b>Overall Station Score</b>	9.0	10	10

All visual assessment locations had an approximate active channel width of between 10 to 12 feet. Water appearance at all three locations was clear. There was no evidence of algal growth or algal blooms caused by excessive nutrient enrichment at any of the locations. Canopy cover was adequate at all locations. Based on the assessment, it can be concluded that this discharge does not render the receiving waterbody, Nishisakawick Creek, unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply to the discharge. The existing limitation of 1.0 mg/L as a monthly average and the monitoring and reporting requirements for weekly average have been retained.

NJG0023311 (Kingwood Township School): A SVAP determination was made in response to the submittal of the Final Stream Visual Assessment Study dated January 14, 2008. This study was completed in accordance with a work plan that was approved by the Department on August 27, 2008. The SVAP was conducted at the following 3 locations:

<i>Assessment Elements</i>	<i>Kingwood 1- slightly upstream of outfall</i>	<i>Kingwood 2- immediately downstream of discharge</i>	<i>Kingwood 3 – near the downstream spatial extent boundary</i>
Water Appearance	10	10	10
Nutrient Enrichment	10	8	8
Canopy Cover	9	9	10
<b>Overall Station Score</b>	9.7	9.0	9.3

Based on the assessment, all sites exceed the minimum passing threshold of 5.5 and it can be concluded that the discharge does not render the receiving waterbody, Copper Creek, unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply to the discharge. As a result, the monthly average and weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

NJG0027049 (Pope John XXIII High School): The permittee completed an SVAP study in accordance with a work plan dated July 2010. The SVAP determination was conducted on September 22, 2010. The three assessment locations (upstream, outfall, and downstream) received passing average scores (5.5 or higher) for water appearance, nutrient enrichment and canopy cover. Water appearance was clear at all three locations. There was no evidence of excessive algal growth or algal blooms caused by excessive nutrient enrichment at any of the locations. Canopy cover was adequate at all locations. Based on the assessment, it can be concluded that the discharge does not render the unnamed tributary to Fox Hollow Lake unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply to the discharge. As a result, the monthly average and

weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

NJG0027553 (Lester D. Wilson Elementary): The permittee completed an SVAP study in accordance with a work plan dated January 14, 2008 which was approved by the Department on August 27, 2008. The stream visual assessment was conducted at the following locations:

<i>Assessment Elements</i>	<i>Wilson 1- upstream of outfall</i>	<i>Wilson 2- immediately downstream of discharge</i>	<i>Wilson 3- near the downstream spatial extent boundary</i>
Water Appearance	10	10	10
Nutrient Enrichment	8	7	8
Canopy Cover	7	7	10
<b>Overall Station Score</b>	8.3	8.0	9.3

Based on the assessment, all sites exceed the minimum passing threshold of 5.5 and it can be concluded that the discharge does not render the receiving waterbody, Nishisakawick Creek, unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply to the discharge. As a result, the monthly average and weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

NJG0035670 (Alexandria Middle School): The permittee has completed the SVAP study in accordance with a work plan that was approved by the Department on August 27, 2008. The stream visual assessment was conducted at the following three locations:

<i>Assessment Elements</i>	<i>Alex 1 - Upstream of outfall)</i>	<i>Alex 2- immediately downstream of discharge</i>	<i>Alex 3- near the downstream spatial extent boundary</i>
Water Appearance	10	9	9
Nutrient Enrichment	10	6	7
Canopy Cover	10	10	10
<b>Overall Station Score</b>	10	8.3	8.7

Based on the assessment, all sites exceed the minimum passing threshold of 5.5 and it can be concluded that this discharge does not render the receiving waterbody, Nishisakawick Creek, unsuitable for its designated uses. Therefore, the total phosphorus criteria of 0.1 mg/L does not apply. As a result, the monthly average and weekly average concentration and loading monitoring and reporting requirements have been retained in this permit action.

- **Phosphorus WQBELs Calculated**

NJG0022101 (Blair Academy), NJG0028894 (Kittatinny Regional HS) and NJG0031046 (North Warren Regional School District):

These facilities do not fall under any TMDL at this time and have not requested SVAP assessments. As a result, WQBELs have been calculated. In accordance with N.J.A.C. 7:14A-13.6(a) and 13.5(a), a WQBEL shall be imposed when the Department has determined that the discharge causes an excursion above the SWQS. In accordance with N.J.A.C. 7:9B-1.14(c), the criteria for total phosphorus (TP) is 0.1 mg/L except where site-specific or watershed criteria are developed or it can be demonstrated that total phosphorus is not a limiting nutrient and will not otherwise render the waters unsuitable for the designated uses. At this time, the Department does not have evidence to conclude that phosphorus is not the limiting nutrient in the receiving stream, nor that the discharge of phosphorus from the permittee will not render the waters unsuitable for the designated uses. Furthermore, site-specific or watershed criterion has not been developed for the subwatershed in to which the permittee discharges. Therefore, the numerical criterion of 0.1 mg/L TP is applicable for this receiving water.

In order to determine the need for phosphorus WQBELs, the Department has analyzed phosphorus effluent data from April 2013 through February 2016 for NJG0022101, NJG0028894 and NJG0031046. After review of the applicable data set, phosphorus was found to be discharged in quantifiable amounts in the effluent. Therefore, further analysis has been conducted on this pollutant.

Using the steady state mass balance equation, a WLA was developed utilizing the applicable criteria specified in the NJSWQS at N.J.A.C. 7:9B and either a low flow value obtained from USGS or a site specific dilution factor. The resulting WLA is as follows:

Permit No.	7Q10 Flow	Wasteload Allocation	Maximum Effluent Concentration	Show Cause?
NJG0022101	0.7 cfs	1.0 mg/L	0.94 mg/L	No Cause
NJG0028894	8.7 cfs	12.6 mg/L	0.78 mg/L	No Cause
NJG0031046	13 cfs	42.1 mg/L	2.98 mg/L	No Cause

As a result of the cause analysis, the discharge of phosphorus in the permittee's effluent as a monthly average was not found to cause an exceedance of the total phosphorus criteria specified in the NJSWQS at N.J.A.C. 7:9B. Therefore, a WQBEL has not been included in the permit at this time. However, consistent with the provisions at N.J.A.C. 7:14A-13.9(a) and the antidegradation requirements at N.J.A.C. 7:9B-1.5(d), the existing monthly average limitation of 1.0 mg/L has been retained for NJG0022101 and NJG0028894 with monitoring for the weekly average concentration and monthly average and weekly average loadings. Continued monitoring is also retained for NJG0031046. A summary of the findings are as follows:

	Existing Phosphorus Limits				Proposed Master ASC Phosphorus Limits			
	Concentration (mg/L)		Loading (kg/d)		Concentration (mg/L)		Loading (kg/d)	
NJPDES Permit No.	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average	Weekly Average
NJG0022101	1.0	MR	(MR)	(MR)	1.0	MR	(MR)	(MR)
NJG0028894	1.0	MR	(MR)	(MR)	1.0	MR	(MR)	(MR)
NJG0031046	MR	MR	(MR)	(MR)	MR	MR	(MR)	(MR)

Monitoring Frequency and Sample type for all sites: The monitoring frequency for Phosphorus is established at **quarterly** in consideration of the size of the discharges. The sample type shall be **grab**.

13. Nitrate (Total as N):

The Department has determined that insufficient nitrate data exist for this category of dischargers; hence, proper assessment of the quality of these facilities' discharge and impact, if any, cannot be performed at this time. The facilities covered under the ASC permit consist of 22 minor dischargers where permitted flows average 0.018 MGD and actual flows are significantly less.

Monitoring Frequency and Sample type for all sites: The monitoring frequency for Nitrate is established at **annual** in consideration of the size of the discharges. The sample type shall be **grab**.

14. Copper and Zinc

In accordance with N.J.A.C. 7:14A-13.6(a), a WQBEL shall be imposed when the Department determines, pursuant to N.J.A.C. 7:14A-13.5, that the discharge of a pollutant causes an excursion above a SWQS. In order to determine the need for toxic pollutant specific WQBELs, the Department has analyzed all effluent data sets made available to the Department. Acceptable data sets generally consist of, at a minimum, 10 data values during the most recent 2½ years of data collection. A pollutant is considered discharged in "quantifiable amounts" when an exact amount of that pollutant is measured equal to or above the detection level reported by a laboratory analysis (refer to the latest version of the "NJPDES Monitoring Report Form Reference Manual," which can be accessed at

[http://www.state.nj.us/dep/dwq/pdf/MRF\\_Manual.pdf](http://www.state.nj.us/dep/dwq/pdf/MRF_Manual.pdf)). WQBELs are evaluated using the methodologies and procedures below.

**Quantified Pollutant Analysis Methodology:** For each pollutant discharged in quantifiable amounts in the effluent, a cause analysis was conducted using the procedures specified in the USEPA TSD in accordance with N.J.A.C. 7:14A-13.5. The cause analysis consists of a comparison between the pollutant’s maximum effluent concentration value (or average value of a long term data set in the case of criteria with an averaging period longer than one year) and the pollutant’s applicable site specific WLA.

Using the steady state mass balance equation, WLAs were developed utilizing the applicable surface water quality criteria, pollutant specific upstream concentrations (when available), the permittee’s long-term average design flow, and applicable MA1CD10 (1Q10), MA7CD10 (7Q10), and/or 75<sup>th</sup> percentile stream design low flows values. The 7Q10 stream design flow is utilized for all chronic and human health non-carcinogenic calculations, while the 1Q10 and 75<sup>th</sup> percentile stream design flows are utilized for acute and human health carcinogenic calculations respectively.

For Copper and Zinc, the applied criteria is based on a default hardness value of 100 mg/L of CaCO<sub>3</sub> and a water effect ratio (WER) of 1.0 unless site-specific values are available. Default translators were utilized to convert total recoverable data to its dissolved equivalent for the cause analyses for aquatic criteria, and, if applicable, to convert the dissolved long term averages to total recoverable values for determining WQBELs. Translator values for the parameters listed below are based on the conversion factors for dissolved metals at 40 CFR Part 131 and N.J.A.C. 7:14A-13.6(c). The default metal translators used in the analyses are as follows:

Metal	Fresh Water	
	Translator (acute)	Translator (chronic)
Copper	0.908	0.908
Zinc	0.950	0.950

**WQBEL Derivation Procedures (non 303(d) listed pollutants):** The non end-of-pipe WQBELs were calculated by the procedures set forth in the USEPA TSD and in accordance with N.J.A.C. 7:14A-13.6(a). WLAs were developed using the same inputs as the cause analyses. If less than 80% of the data points in the data set were quantified, the Department utilized the greater of two values for the Coefficient of Variation (CV); the calculated lognormal CV or a default CV. If applicable, the default CV used was 0.6 based on recommendations set forth in the USEPA TSD (5.5.2). Otherwise, a parameter specific CV was calculated.

For acute and chronic calculations, long term average values were developed using the 99<sup>th</sup> percentile multiplier and the more stringent results were utilized in calculating the maximum daily limitation (MDL) and average monthly limitation (AML). However, for human health calculations the WLA was set equal to the AML (based on the TSD Section 5.4.4) and compared to the more stringent acute or chronic limitations. Of the acute, chronic, and human health calculations, the more stringent MDL and AML were established as the applicable limit. In accordance with N.J.A.C. 7:14-A-13.14(a)2, effluent limitations are expressed as concentration and mass loading. The limitations for the metal parameters are expressed in the total recoverable form in accordance with 40 CFR 122.45(c).

As noted above, WQBELs are calculated using several default or assumed values. The permittee can always provide additional technical information, as outlined in Part IV Section G, that may include a WER analysis and/or site-specific hardness values. The Department could then propose a modification to this permit to remove or modify any proposed effluent limitations. This technical information would be considered new information and would constitute an exception to antibacksliding at N.J.A.C. 7:14A-13.19.

**Copper and Zinc Requirements in the Proposed ASC Permit**

The basis for copper and zinc requirements for all facilities is included below as well as the newly proposed requirements, if applicable:

- **Facilities with Existing and Effective Permit Limits**

There are existing and effective permit limits for copper and zinc for NJG0022276; and existing and effective permit limits for copper for NJG0021105 and NJG0035670; and existing and effective limits for zinc for NJG0023841. The existing effluent limits have been retained pursuant to N.J.A.C. 7:14A-13.19 as follows:

Parameter - NJPDES Permit No.	Existing Permit Limits		Proposed ASC Limits	
	Monthly Average  In ug/L, (grams/day)	Daily Maximum  In ug/L, (grams/day)	Monthly Average In ug/L, (grams/day)	Daily Maximum In ug/L, (grams/day)
Copper - NJG0021105	Report (Report)	21.3 (0.57)	Report (Report)	21.3 (0.57)
Copper - NJG0022276	Report (Report)	17.7 (0.7)	Report (Report)	17.7 (0.7)
Copper - NJG0035670	Report (Report)	96.2 (4.0)	Report (Report)	96.2 (4.0)
Zinc - NJG0022276	Report (Report)	112 (4.3)	Report (Report)	112 (4.3)
Zinc - NJG0023841	Report (Report)	112.5 (13.6)	Report (Report)	112.5 (13.6)

For continuous discharges, N.J.A.C. 7:14A-13.15(a)3 states, “limitations on any pollutant or pollutant parameter where the monitoring frequency is once per month or less may be stated as a maximum daily limitation”. The USEPA commented on this NJPDES regulation via a memo dated September 16, 2010 from Barbara A. Finazzo, Director, Division of Environmental Planning and Protection, USEPA-Region 2 to John Plonski, Assistant Commissioner for Water Resources Management, NJDEP. USEPA noted in the memo that to ensure consistency with the federal regulations, New Jersey must establish permit limitations to provide both short-term and long-term controls to ensure water quality standards are met.

Therefore, in situations where monitoring frequency is once per month or less and consistent with section 5.5.3 of the TSD, EPA suggests that a statistical procedure be employed using n (number of samples)= 4 to derive the average monthly limitation. However, for these two sites the Department has determined that the discharge varies seasonally. Specifically, the flow decreases significantly from June through August and, as a result, the discharges from these sites are not of a continuous nature. As a result, the Department retained the existing limits which use a statistical procedure of n=1.

Monitoring Frequency and Sample Type: With the exception of NJ0023841, the monitoring frequency for these facilities is retained at **quarterly** consistent with the existing permit. This includes both copper and zinc. The monitoring frequency for NJG0023841 for copper and zinc is set at **once per six months** consistent with the existing permit as well as based on consideration of the effluent levels that are below NJSWQS. The sample type shall be **grab**.

- **Facilities with Calculated Water Effects Ratio (WER) Analysis or Site-Specific Hardness Values**

NJG0027049 (Pope John): This facility submitted a study to determine a site-specific effluent hardness to be used in Water Quality based effluent limitation calculations. This study was approved in a letter dated June 20, 2008. Based on the study, the Department approved a site specific hardness value of 275 mg/L of CaCO<sub>3</sub>. Since the hardness study did not result in the removal of the Copper WQBEL, the permittee elected to conduct a Water Effects Ratio (WER) Study for copper. The final revised study was submitted in June 2011 and is hereby approved with a resulting WER factor of 2.15. The combination of effluent hardness data in addition to the site



specific WER resulted in effluent limitations for copper of 47.53 ug/L monthly average and 66.03 ug/L Daily Maximum. Based on the effluent data available to date, the discharge shows no cause or reasonable potential to cause an excursion of the surface water quality standards and therefore an effluent limitation is no longer warranted for Copper. As such, the existing limit, which was never effective, is being removed in this permit action. However, monitoring and reporting requirements are maintained as a DMR requirement on a **semi-annual** basis with a **grab** sample type.

NJG0021253 (Indian Hills High School): Pursuant to the conditions of a September 23, 2012 ACO, the permittee submitted a "Copper Summary Report" and "Water Effects Ratio Study" as well as a "Zinc Summary Report." Both studies were dated January 9, 2014 and were submitted by Lyons Environmental Service. Based on the study results, copper and zinc effluent limitations were reevaluated and removed as per a June 10, 2015 permit modification. However, DMR monitoring and reporting is retained on a **quarterly** basis for copper and zinc with a **grab** sample type.

NJG0023311 (Kingwood Township School): This facility submitted a study to determine site-specific values for copper and zinc translators and hardness as well as a WER for copper. Based on the study submitted by Omni Environmental Corporation, entitled "Copper and Zinc Translators and Water Effect Ratio Study, Kingwood Township School WWTP" dated June 2011, the Department approved a site specific hardness value of 227 mg/L of CaCO<sub>3</sub> for copper and zinc and a WER of 4.16 for copper. In addition, site-specific translators were established at 0.437 for copper and 0.841 for zinc. As a result, the Department re-calculated the copper and zinc WQBELs using the new information and it was determined that the final copper and zinc effluent limits which were to become effective on September 1, 2014 were no longer applicable. These limits, which were never effective, were removed in the January 1, 2012 master general permit. However, DMR monitoring and reporting is retained on a **semi-annual** basis with a **grab** sample type.

- **Facilities Where Monitoring Frequencies have been Increased**

NJG0022276 (Helen A. Fort Middle School), NJG0023175 (Round Valley Middle School); NJG024091 (Union Board of Education), NJG0028894 (Kittatinny Regional HS Board of Ed), NJG0031046 (North Warren Regional School District), NJG0031585 (High Point Regional High School) and NJG0035670 (Alexandria Middle School): At this time, insufficient data exist for copper and/or zinc for these facilities in order to determine the need for WQBELs. Therefore, as authorized by N.J.A.C. 7:14A-13.5(l), the Department has included monitoring and reporting requirements for these parameters. However, in consideration of available effluent data, the monitoring frequencies have been increased to **quarterly** where data shall be reported on the DMR. The sample type shall be **grab**.

- **Facilities Where Monitoring Frequencies have been Retained from the Existing Permit**

For the remaining nine facilities, insufficient data exist for copper and/or zinc for these facilities in order to determine the need for WQBELs. Therefore, as authorized by N.J.A.C. 7:14A-13.5(l), the Department has included monitoring and reporting requirements for these parameters. However, in consideration of available effluent data as well as the effluent flow rates, the monitoring frequencies have been retained at **annual** where data shall be reported on the WCR. The sample type shall be **grab**.

## 15. Wastewater Characterization Report (WCR)

Trihalomethanes are formed as a by-product predominantly when chlorine is used to disinfect water and represent one group of chemicals generally referred to as disinfection by-products. Trihalomethanes result from the reaction of chlorine and/or bromine with organic matter present in the water being treated. The four chief constituents are chloroform, bromoform, bromodichloromethane and dichlorobromomethane. Trihalomethane annual monitoring requirements were only included for those facilities that chlorinate as a WCR requirement. Of the trihalomethanes, only bromodichloromethane was detected on a regular basis.

The 2012 master general permit required a once per permit cycle monitoring frequency for priority pollutants. This limited sampling frequency was premised on the low discharge flows of all sites as well as a comprehensive

review of available priority pollutant data as submitted under the individual permits. Priority pollutants are not expected to be present in this category of discharges yet the Department included this comprehensive sampling as a precautionary screening. The Department reviewed available priority pollutant data as submitted with renewal applications. This includes acid extractables, base/neutrals, volatile organics, and most metals (copper and zinc addressed separately). Any parameters for which there are no freshwater NJSWQS were excluded from the WCR data requirement. In general, priority pollutants were either not detected or detected at levels below NJSWQS.

Monitoring Frequency and Sample Type for for all sites: Given the above as well as the overall infrequency of detected values, the Department is continuing a **once per permit cycle** frequency for all priority pollutants. Given that some sites continue to chlorinate, the Department is continuing WCR monitoring for bromodichloromethane, dichlorobromomethane, bromoform and chloroform on an **annual** basis only for those sites that chlorinate. Monitoring for those sites that utilize UV shall be conducted on a **once per permit cycle** basis. Monitoring for all priority pollutants shall be conducted with a **grab** sample type.

16. Whole Effluent Toxicity (WET):

Section 101(a) of the Clean Water Act (CWA) establishes a national policy of restoring and maintaining the chemical, physical and biological integrity of the Nation's waters. In addition, section 101(a)(3) of the CWA and the State's SWQS at N.J.A.C. 7:9B-1.5(a)4 state that the discharge of toxic pollutants in toxic amounts is prohibited. Further, 40 CFR 122.44(d) and N.J.A.C. 7:14A-13.6(a) require that where the Department determines using site-specific WET data that a discharge causes, shows a reasonable potential to cause, or contributes to an excursion above the SWQS, the permitting authority must establish effluent limits for WET.

In order to determine the need for a WET WQBEL, the Department has analyzed all available WET effluent data from the 22 facilities under this master general permit. In general, an acceptable data set consists of, at a minimum, 10 data values including the most recent 2½ years of data. Refer the Tables below for site specific WET data.

• **Existing Limit Retained, All Data Non-Detect**

NJG0020711, NJG0021091, NJG0021105, NJG0022101, NJG0028894, NJG0031046, NJG0031585, and NJG0035670: These existing permits contain acute and/or chronic WET limitations or monitoring and reporting requirements that are based on site specific criteria. After review of the WET data, WET was not found in quantifiable amounts (all results were >100%).

Based on consistent compliance, the Department is retaining the WET limits and monitoring requirements for these facilities. The table below includes the WET requirements for these sites:

NJPDES Permit No.	Facility	Parameter	Species	Wastewater Data (Min. %) April 2013 to Feb. 2016	Limit (Min. %)	Frequency
NJG0020711	Warren County Technical School STP	Acute	<i>Ceriodaphnia</i>	>100 (3 data pts.)	AL 50	1/Year
NJG0021091	Jefferson Township High - Middle School	Chronic	<i>Ceriodaphnia</i>	>100 (3 data pts.)	18	1/Year
NJG0021105	Arthur Stanlick School	Chronic	<i>Ceriodaphnia</i>	> 100 (2 data pts.)	61	1/Year
NJG0022101	Blair Academy	Acute	<i>Pimephales</i>	>100 (3 data pts.)	AL50	1/Year
NJG0028894	Kittatinny Regional HS Board of Ed	Acute	<i>Pimephales</i>	>100 (3 data pts.)	AL 50	1/Year
NJG0031046	North Warren Regional School District	Acute	<i>Ceriodaphnia</i>	>100 (2 data pts.)	AL 50	1/Year
NJG0031585	High Point Regional High School	Acute	<i>Ceriodaphnia</i>	>100 (4 data pts.)	AL 50	1/Year
NJG0035670	Alexandria Middle School	Acute	<i>Ceriodaphnia</i>	>100 (3 data pts.)	AL 50	1/Year

AL- Action Level

Action Level for Acute WET: On January 5, 2009 the New Jersey Pollutant Discharge Elimination System (NJPDES) Rules were readopted. This readoption repealed N.J.A.C. 7:14A-5.3(a) which contained the state

minimum effluent standard for acute WET and instead adopted an acute WET action level of LC50 $\geq$ 50% at N.J.A.C. 7:14A-13.18(f). Therefore, consistent with this requirement, the existing and effective acute WET limitation of LC50 $\geq$ 50% is being replaced with an acute WET action level of LC50 $\geq$ 50% in this renewal. Monitoring and reporting will be required to determine whether the discharge causes, shows a reasonable potential to cause, or contributes to an excursion above the SWQS.

Imposing an action level for acute WET will be equally protective of water quality as an effluent limit in this circumstance, since the violation of either the WET limitation or the action level carries with it the same enforceable permit condition to initiate the Toxicity Reduction and Implementation Requirements (TRIR), in order to correct the toxicity problem should this value be exceeded. As a result, the Department anticipates there will be no change in water quality as a result of this change. This change satisfies the antibacksliding provisions at N.J.A.C. 7:14A-13.19, which incorporate Section 402(o)3 of the Federal Clean Water Act, because it includes the TRIR provisions. Specifically, Section 402(o)3 prohibits the revision of an effluent limit “if the implementation of such limitation would result in a violation of a water quality standard.” In this circumstance, violation of either the numerically identical action level or an effluent limitation will trigger an enforceable permit condition to conduct a TRIR in order to address or prevent a violation of a water quality standard.

• **Existing Limit Retained, Data Showed Detects and Non-Detects**

NJG0020419, NJG0021253, NJG0023841 and NJG0027049: After review of the WET data, WET was found at quantifiable amounts in the data for these 3 facilities. Although WET data results revealed detections, most of the data was non-detect with only one to two data points per facility found in exceedance of existing limits. However, chronic WET requirements have been retained for these facilities based on N.J.A.C. 7:14A-13.5(k)3 and the need to re-evaluate the necessity for WQBELs upon renewal of the permit (based on recommendations of section 3.1 of the EPA Technical Support Document). The table below includes the WET requirements for these sites:

NJPDES Permit No.	Facility	Parameter	Species	Wastewater Data (Min. %) April 2013 to Feb. 2016	Existing Limit (Min. %)	Frequency
NJG0020419	Long Pond School WTP	Chronic	<i>Ceriodaphnia</i>	21.5, 78.8, 84.6 and >100 (9 data pts.)	61	1 / 6 Months (1)
NJG0021253	Indian Hills High School	Chronic	<i>Ceriodaphnia</i>	7.1, 16.9, 69.8, 71.9, 83.9, 84.9, and >100	61	1 / 6 Months
NJG0023841	Lounsbury Hollow Middle School	Chronic	<i>Ceriodaphnia</i>	45.8, 63, 93.9 and >100 (2 data pts.)	55	1 / 6 Months (1)
NJG0027049	Pope John XXIII High School	Chronic	<i>Ceriodaphnia</i>	12.3, 25, 27, 63 and >100	61	1 / 6 Months

(1) Based on detections, the monitoring frequency has been increased from once per year to Once per 6 Months.

• **Monitor and Report Retained**

NJG0021571, NJG0022276, NJG0022438, NJG0023001, NJG0023175, NJG0023311, NJG0024091, NJG0027065, NJG0027553 and NJG0029432: After review of the applicable WET data, WET was found at quantifiable amounts although there is insufficient data available at this time to complete an accurate evaluation for these facilities. In addition, many of these facilities discharge on a seasonal basis. Please refer to the individual Permit Summary Tables for a listing of WET results. However, chronic WET requirements have been retained for these facilities based on N.J.A.C. 7:14A-13.5(k)3 and the need to re-evaluate the necessity for WQBELs upon renewal of the permit (based on recommendations of section 3.1 of the EPA Technical Support Document). Based on a review of individual WET results, monitoring frequencies were reconsidered where some sites are required to sample at an increased frequencies. Monitoring frequencies have been set forth as follows:

NJPDES Permit No.	Facility	Parameter	Species	Existing Monitoring Frequency	Proposed Monitoring Frequency
NJG0021571	Springfield Township Elementary	Chronic	<i>Ceriodaphnia</i>	1/Year	1/Year
NJG0022276	Stony Brook School	Chronic	<i>Ceriodaphnia</i>	1/Year	1/6 Months
NJG0022438	Helen A. Fort Middle School	Chronic	<i>Ceriodaphnia</i>	1/Year	1/6 Months
NJG0023001	Salvation Army Camp Tecumseh	Chronic	<i>Ceriodaphnia</i>	1/Year	1/Year
NJG0023175	Round Valley Middle School	Chronic	<i>Ceriodaphnia</i>	1/6 Months	1/6 Months
NJG0023311	Kingwood Township School	Chronic	<i>Ceriodaphnia</i>	1/Year	1/Year
NJG0024091	Union Township Elementary	Chronic	<i>Ceriodaphnia</i>	1/Year	1/6 Months
NJG0027065	Sparta Alpine School	Chronic	<i>Ceriodaphnia</i>	1/Year	1/Year
NJG0027553	Lester D. Wilson Elementary	Chronic	<i>Ceriodaphnia</i>	1/Year	1/6 Months
NJG0029432	Robert Erskine School	Chronic	<i>Ceriodaphnia</i>	1/Year	1/6 Months

### WET Test Species

The test species method to be used for acute testing is specified for each individual permittee. Since all the facilities discharge to freshwater, the more sensitive species as specified in each permit is either the Fathead minnow (*Pimephales promelas*) 96 hr definitive test or *Ceriodaphnia dubia* 48 hr definitive test. Such selection is based on the freshwater characteristics of the receiving stream, N.J.A.C. 7:9B-1.5 and N.J.A.C. 7:18, the Regulations Governing the Certification of Laboratories and Environmental Measurements (N.J.A.C. 7:18).

The test species method to be used for chronic testing is specified in each individual permit. Since all the facilities discharge to freshwater, the more sensitive species as specified in each permit is either the Fathead minnow (*Pimephales promelas*) 7-day larval survival and growth test, 40 CFR 136.3, method 1000.0 or the *Ceriodaphnia dubia*, Survival and Reproduction Test, 40 CFR 136.3, method 1002.0. Such selection is based on the freshwater characteristics of the receiving stream, N.J.A.C. 7:9B-1.5 and the Department's "Chronic Toxicity Testing Specifications for Use in the NJPDES Permit Program" document. This document is included as Appendix A of this permit, in accordance with N.J.A.C. 7:14A-6.5, 11.2(a)2.iv. and 40 CFR Part 136.

### Toxicity Reduction Implementation Requirements (TRIR)

The TRIR are included in accordance with N.J.A.C. 7:14A-13.17(a), 7:14A-6.2(a)5 and recommendations in Section 5.8 of the TSD. The requirements are necessary to ensure compliance with the applicable WET toxicity limitation or action level. As included in section B.1 of the TRIR requirements, the initial step of the TRIR is to identify the variability of the effluent toxicity and to verify that a consistent toxicity problem does in fact exist.

### C. Use of Sufficiently Sensitive Test Methods for Reporting:

When more than one test procedure is approved under this part for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 136, 122.21(e)(3), and 122.44(i)(1)(iv).

An EPA-approved method is sufficiently sensitive where:

- A. The method minimum level is at or below the level of the applicable water quality criterion or permit limitation for the measured pollutant or pollutant parameter; or
- B. The method minimum level is above the applicable water quality criterion, but the amount of the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
- C. The method has the lowest minimum level of the EPA-approved analytical methods.

When there is no analytical method that has been approved under 40 CFR part 136, required under 40 CFR chapter I, subchapter N or O, and is not otherwise required by the Department, the permittee may use any suitable method upon approval by the Department.

For questions regarding the applicability of the rule and whether or not the facility is complying with the target level of sensitivity, contact Steve Seeberger of the Bureau of Surface Water Permitting at (609) 292-4860 or via email at [Stephen.Seeberger@dep.nj.gov](mailto:Stephen.Seeberger@dep.nj.gov).

For questions regarding laboratory methodologies, certifications, or specifics relating to quantitation limits associated with individual test methods, contact Debra Waller of the Office of Quality Assurance at (609) 292-3950 or via email at [Debra.Waller@dep.nj.gov](mailto:Debra.Waller@dep.nj.gov).

**D. Electronic Reporting Requirements:**

On October 22, 2015, the U.S. Environmental Protection Agency (EPA) promulgated the final National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule (see Federal Register 80:204 p. 64064). This rule requires entities regulated under the Clean Water Act NPDES program to report certain information electronically instead of filing paper reports.

In accordance with this rule, starting December 21, 2016, all required monitoring results reported on Monitoring Report Forms (MRFs) shall be electronically submitted to the Department via NJDEP's Electronic Monitoring Report Form (MRF) Submission Service. In addition, starting December 21, 2020, the following document(s) or report(s) shall be electronically submitted to the NJDEP via the Department's designated Electronic Submission Service:

- Requests for authorization (i.e. RFAs) under this general permit
- Requests for termination/revocation under this general permit

Prior to the above referenced dates, the above identified information may be submitted to the Department in paper form to the appropriate addresses identified in this permit.

Consistent with the provisions of the final rule, the permittee may seek a waiver from the mandatory electronic reporting of the above identified documents and reports for just cause. Such a request shall be made in accordance with the provisions of 40 CFR 127.15 and submitted to the Department at the address identified below:

Mail Code 401-02B  
NJDEP: Division of Water Quality  
Permit Administration Section  
P.O. Box 420  
401 E. State Street  
Trenton, NJ 08625-0420

**E. General conditions:**

In accordance with N.J.A.C. 7:14A-2.3 and 6.1(b), specific rules from the New Jersey Administrative Code have been incorporated either expressly or by reference in Part I and Part II.

**F. Operator Classification Number:**

The operator classification requirement is not included in the individual requests for authorization. To obtain or determine the appropriate licensed operator classification for the treatment works specified, the permittee shall contact the Bureau of Finance and Construction Permits: Engineering Section North at (609) 984-4429 or the Bureau of Finance and Construction Permits: Engineering Section North at (609) 633-1169.

**G. Flow Related Conditions:**

All flow related conditions are incorporated into the permit to implement the Treatment works Approval Program (N.J.A.C. 7:14A-22), the Capacity Assurance Program (N.J.A.C. 7:14A-22.16), the Sewer Ban Program (N.J.A.C.

7:14A-22.17), the applicable Water Quality Management Plan (N.J.A.C. 7:15), and the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C).

The permitted flow values used for each site are identified above in item 2. These facilities are located within their area Water Quality Management Plans in accordance with N.J.A.C. 7:14A-15.4(b).

#### **H. Removal of Modification of Final WQBELs for Copper or Zinc:**

The Department will consider proposing to remove or modify a toxic pollutant's newly imposed final effluent limitation from the permit if site-specific information is submitted for Departmental review and consideration. Items that will be considered include, but are not limited to: submission of additional effluent data; acceptable site-specific ambient data (e.g. hardness, pollutant specific data); acceptable site-specific translator values to enable assessment of a dissolved metal versus a total metal ratio; a water effects ratio (WER) study, updated 1Q10, 7Q10, 75<sup>th</sup> percentile, and/or other appropriate stream flow values.

Guidance regarding WER studies is available at:

<http://water.epa.gov/scitech/swguidance/standards/criteria/aqlife/pollutants/copper/upload/copper.pdf>

All studies require a NJDEP approved workplan that shall be submitted to the Department for approval prior to commencement of any work.

Upon receipt of this technical information the Department could propose a modification to this permit to remove or modify any existing or proposed WQBELs. This technical information would be considered new information and would constitute an exception to antibacksliding at N.J.A.C. 7:14A-13.19.

#### **I. Best Management Practices for Cleaning Products and Hazardous Wastes:**

Best Management Practices (BMP) shall be followed to control or abate the discharge of toxic pollutants that may result from the use of cleaning products or hazardous substances. Specifically, cleaning agents, paints, and chemistry laboratory chemicals should be used as directed on the product labels and excess product should be disposed of properly as a household hazardous waste based on township and/or county requirements. The permittee is encouraged to develop and implement a BMP Plan based on the school's operations. This BMP Plan is intended to ensure that toxic pollutants are not put into the sanitary wastewater collection system through sinks and floor drains; passed through the treatment system, and ultimately discharged to the receiving waterbody at the surface water outfall.

### **5 Variances to Permit Conditions:**

Procedures for modifying a WQBEL are found in the New Jersey SWQS, N.J.A.C. 7:9B-1.8 and 1.9. If a WQBEL has been proposed in this permit action, the permittee may request a modification of that limitation in accordance with N.J.A.C. 7:14A-11.7(a). This request must be made prior to the close of the public comment period. The information that must be submitted to support the request may be obtained from the Bureau of Environmental Analysis, Restoration and Standards at (609) 633-1441.

### **6 Description of Procedures for Reaching a Final Decision on the Draft Action:**

Please refer to the procedures described in the public notice published in the *DEP Bulletin*. In addition to the *DEP Bulletin*, the public notice for this permit action is published in the following newspapers to represent the counties where the majority of the facilities are located:

Newspaper	County
<i>Burlington County Times</i>	Burlington
<i>The Democrat</i>	Hunterdon
<i>Daily Record</i>	Morris
<i>The New Jersey Herald</i>	Sussex

## 7 Contact Information:

If you have any questions regarding this permit action, please contact Tara Klimowicz or Brian Salvo of the Bureau of Surface Water Permitting at either (609) 292-4860 or via e-mail at [tara.klimowicz@dep.nj.gov](mailto:tara.klimowicz@dep.nj.gov) or [brian.salvo@dep.nj.gov](mailto:brian.salvo@dep.nj.gov).

## 8 Contents of the Administrative Record

The following items are used to establish the basis of the draft master general permit:

### Rules and Regulations:

- 33 U.S.C. 1251 *et seq.*, Federal Water Pollution Control Act. [B]
- 40 CFR Part 131, Federal Water Quality Standards. [B]
- 40 CFR Part 122, National Pollutant Discharge Elimination System. [B]
- N.J.S.A. 58:10A-1 *et seq.*, New Jersey Water Pollution Control Act. [A]
- N.J.A.C. 7:14A-1 *et seq.*, NJPDES Regulations. [A]
- N.J.A.C. 7:9B-1 *et seq.*, New Jersey Surface Water Quality Standards. [A]
- N.J.A.C. 7:15, Statewide Water Quality Management Planning Rules. [A]
- N.J.A.C. 7:14C, Sludge Quality Assurance Regulations. [A]
- Delaware River Basin Commission: Administrative Manual – Part III Water Quality Regulations.

### Guidance Documents / Reports:

- "Field Sampling Procedures Manual", published by the NJDEP. [A]
- "NJPDES Monitoring Report Form Reference Manual", updated December 2007, and available on the web at [http://www.state.nj.us/dep/dwq/pdf/MRF\\_Manual.pdf](http://www.state.nj.us/dep/dwq/pdf/MRF_Manual.pdf). [A]
- "USEPA TSD for Water Quality-based Toxics Control", EPA/505/2-90-001, March 1991. [B]
- New Jersey's 2012 Integrated Water Quality Monitoring and Assessment Report (includes 305 (b) Report 303(d) List). [A]
- NJPDES/DSW Discharge Monitoring Reports as indicated on "Permit Summary Tables" attachment.

### Permits / Applications:

NJPDES Permit No.	Facility	Issuance Date of Existing Permit Authorization	Issuance Date of Modifications	Receipt Date of Renewal Application
NJ0020419	Long Pond School WTP	12/21/2011	N/A	6/30/2016
NJG0020711	Warren County Technical School STP	12/21/2011	N/A	7/5/2016
NJG0021091	Jefferson Township High - Middle School	12/21/2011	N/A	9/21/2016
NJG0021105	Arthur Stanlick School	12/22/2011	N/A	10/18/2016
NJG0021253	Indian Hills High School	12/21/2011	GPA Modification Issued: 6/21/2012 GPA Modification Issued: 6/10/2015	7/21/2016
NJG0021571	Springfield Township Elementary	12/21/2011	N/A	9/21/2016
NJG0022101	Blair Academy	12/23/2011	N/A	6/15/2016
NJG0022276	Stony Brook School	12/21/2011	N/A	9/20/2016

<b>NJPDES Permit No.</b>	<b>Facility</b>	<b>Issuance Date of Existing Permit Authorization</b>	<b>Issuance Date of Modifications</b>	<b>Receipt Date of Renewal Application</b>
NJG0022438	Helen A. Fort Middle School	12/21/2011	N/A	7/1/2016
NJG0023001	Salvation Army Camp Tecumseh	12/21/2011	N/A	10/14/2016
NJG0023175	Round Valley Middle School	12/28/2011	N/A	9/20/2016
NJG0023311	Kingwood Township School	12/21/2011	GPA Modification Issued: 4/30/2013	10/14/2016
NJG0023841	Lounsberry Hollow Middle School	12/23/2011	N/A	9/27/2016
NJG0024091	Union Township Elementary	12/21/2011	N/A	10/20/2016
NJG0027049	Pope John XXIII High School	12/23/2011	N/A	6/15/2016
NJG0027065	Sparta Alpine School	12/21/2011	N/A	9/6/2016
NJG0027553	Lester D. Wilson Elementary	12/21/2011	N/A	
NJG0028894	Kittatinny Regional HS Board of Ed	12/21/2011	N/A	9/27/2016
NJG0029432	Robert Erskine School	12/21/2011	N/A	8/3/2016
NJG0031046	North Warren Regional School District	12/21/2011	N/A	7/8/2016
NJG0031585	High Point Regional High School	12/21/2011	N/A	9/20/16
NJG0035670	Alexandria Middle School	12/21/2011	N/A	

**Footnotes:**

- [A] Denotes items that may be found on the New Jersey Department of Environmental Protection (NJDEP) website located at “<http://www.state.nj.us/dep/>”.
- [B] Denotes items that may be found on the USEPA website at “<http://www.epa.gov/>”.



## Long Pond School - NJG0020419

### 1 Facility Description:

NJPDES Flow Value: 0.01 MGD

Treatment Units:

1. Bar screen
2. Comminutor
3. Aeration tank
4. Clarifier
5. Sand filters
6. Ultraviolet (UV) Disinfection
7. Flow monitoring

Sludge generated at the facility is managed off-site at an approved residuals management operation.

### 2 Receiving Water Information:

#### Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Lake Illiff	Downstream Confluences: NA	Via : Via unnamed Tributary	Receiving River Basin: Delaware River Basin
Classification: FW2-TM (C1)	Watershed Management Area: 01	Latitude: 41° 01' 53.7"	Watershed: Pequest River (above /include Bear Swamp)
Longitude: 74° 42' 35.4"	Subwatershed: New Wawayanda Lake/Andover Pond trib	County: Sussex	14 digit Hydrologic Unit Code : 02040105070020
Municipality: Newton Town	Water Quality Impairments: None		
Outfall Description			
Outfall Configuration: Non-submerged pipe			

Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs		
MA7CD10 / 7Q10: 0.0 cfs	MA1CD10 (1Q10) winter: 0.0 cfs		
75 <sup>th</sup> percentile flow: 0.1 cfs	MA30CD10 (30Q10) summer: 0.0 cfs		
	MA30CD10 (30Q10) winter: 0.1 cfs		

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0020419):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.004	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.02 0.02 7 / 22	0.94 1.4	0.94 1.4	1/Month	1/Month

Permit Summary Tables  
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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.50 4.50 7 / 22	25 37.5	25 37.5	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	336 336	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	98.66	90	90	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.02 0.02 22 / 7	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.18 4.18 22 / 7	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	440 440	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	98.6	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max	0.001 0.001	MR --	MR --	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Daily Max	0.24 --	1.0 -- TMDL	1.0 -- TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	6.13 6.13 8 / 21	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max. # Det. / # ND	<1.0 <1.0 0 / 3	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Monthly Avg Daily Avg. Min.	7.80 7.71	5.0 6.0	5.0 6.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	<2.29 - <5.0 <2.29 - <5.0 0 / 13	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.5 11.96 22	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	4.05 7.9	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 – Oct 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0009 0.002 6 / 6	0.13 0.19	0.13 0.19	1/Month	1/Month
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.12 0.2 6 / 6	3.5 5.1	3.5 5.1	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0098 0.04 10 / 7	0.18 0.26	0.18 0.26	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.69 7.05 10 / 7	4.7 6.9	4.7 6.9	1/Month	1/Month
Copper Total Recoverable	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.07 0.14 3 / 0	MR MR	MR MR	1/Year	1/Year (2)
Copper Total Recoverable	µg/L	Monthly Avg. Daily Max. # Det. / # ND	14.03 18.1 3 / 0	MR MR	MR MR	1/Year	1/Year (2)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det. # ND	21.5 21.5, 78.8, 84.6 >100 (10 samples)	61	61	1/Quarter	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring is required as an annual WCR requirement.

## Warren County Technical School STP - NJG0020711

### **1 Facility Description:**

NJPDES Flow Value: 0.012 MGD

Treatment Units:

1. Bar Screen (1 unit)
2. Aerated Equalization Tank (1 unit)
3. Comminutor
4. Activated Sludge Process
  - a. Aeration Tank (1 unit)
  - b. Settling Tank (1 unit)
5. Secondary Settling Tank (1 unit)
5. Chlorine Contact Tank (1 unit)
6. Dechlorination Chamber (1 unit)
7. Aeration Tower (1 unit)

Sludge is stored in a holding tank before being managed at an approved residuals management site.

### **2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water: Pohatcong Creek	Downstream Confluences: Delaware River	Via : Outfall pipe	Receiving River Basin: Delaware River Basin
Classification (a): FW2-TM (C1)	Watershed Management Area: 01	Latitude: 40° 44' 23.7"	Watershed: Pohatcong Creek
Longitude: 75° 01' 13.1"	Subwatershed: Pohatcong Ck (Edison Rd – Brass Castle Ck)	County: Warren County	14 digit Hydrologic Unit Code: 02040105140030
Municipality: Franklin Township	Water Quality Impairments: TP, TSS, Arsenic, pH	<b><u>Outfall Description</u></b>	
<b><u>Outfall Configuration: non-submerged pipe</u></b>		<b><u>Current Receiving Stream Design Low Flow Values *</u></b>	
MA1CD10 / 1Q10: 3.0 cfs	MA1CD10 (1Q10) summer: 3.0 cfs	MA7CD10 / 7Q10: 3.3 cfs	MA1CD10 (1Q10) winter: 3.0 cfs
75 <sup>th</sup> percentile flow: 11.0 cfs	MA30CD10 (30Q10) summer: 3.8 cfs		MA30CD10 (30Q10) winter: 6.8 cfs

- (a) The Receiving Waterbody Classification has changed since the 1/1/12 Master General Permit.  
\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0020711):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.02	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.16 0.18 23 / 12	1.14 1.14	1.14 1.14	1 / Month	1 / Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	7.50 9.93 23 / 12	25 25	25 25	1 / Month	1 / Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	299 299	MR MR	MR MR	1 / Month	1 / Month
BOD <sub>5</sub> Min Percent Removal	%	Monthly Avg.	97.4	90	90	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.13 0.14 23 / 12	1.36 2.04	1.36 2.04	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.51 7.67 23 / 12	30 45	30 45	1 / Month	1 / Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	442 442	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum Percent Removal	%	Monthly Avg.	98.6	85	85	1 / Month	1 / Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.91 1.99	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	35.4 65.9	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.09 0.09	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	4.28 4.28	MR MR	MR MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	28.1 453 12 / 23	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	<1.0 - <2.0 <1.0 - <2.0	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg.	6.1 8.4	5.0 6.0	5.0 6.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	5.6 5.6 1 / 11	10 15	10 15	1 / Quarter	1 / Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.9 14.63 31	MR MR MR	MR MR MR	1 / Day	1 / Day
Effluent pH	su	Instant. Min. Instant. Max.	6.05 8.5	6.0 9.0	6.0 9.0	1 / Day	1 / Day
Ammonia (Total as N) May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.05 0.05 15 / 3	0.91 MR	0.91 MR	1 / Month	1 / Month
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.32 0.32 15 / 3	20 MR	20 MR	1 / Month	1 / Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.02 0.02 16 / 1	0.91 MR	0.91 MR	1 / Month	1 / Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.88 0.88 16 / 1	20 MR	20 MR	1 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	0.0010 0.008	MR 0.005	MR 0.005	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	0.04 0.09	MR 0.1	MR 0.1	1 / Day	1 / Day



Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.1 cfs	MA1CD10 (1Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA1CD10 (1Q10) winter:	0.1 cfs
75 <sup>th</sup> percentile flow (f):	0.5 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.3 cfs

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0021091):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.009 0.009	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.087 0.087	0.85 1.25	0.85 1.25	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	2.30 2.30	8 12	8 12	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	153 153	MR MR	MR MR	1/Month	1/Month
CBOD <sub>5</sub> Min Percent Removal	%	Monthly Avg.	97.4	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.17 0.17	3.1 4.7	3.1 4.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.86 4.86	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	253 253	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	97.1	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.03 2.19	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	36.2 58.5	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.013 0.013	-- --	-- --	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.20 0.20	1.0 1.5 TMDL	1.0 1.5 TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	1.52 1.52	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	1.0 1.0	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min	8.76 6.4	6.0 5.0	6.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	1.61 2.3	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.2 15.4 25.8	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.13 8.04	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.004 0.011	0.2 0.3	0.2 0.3	1/Month	1/Month
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg.	0.11 0.27	2.0 3.0	2.0 3.0	1/Month	1/Month
Ammonia (Total as N) Nov 1 – April 30	kg/d	Monthly Avg. Daily Max.	0.001 0.01	0.42 0.6	0.42 0.6	1/Month	1/Month
Ammonia (Total as N) Nov 1 – April 30	mg/L	Monthly Avg. Daily Max.	0.16 0.45	4.0 5.8	4.0 5.8	1/Month	1/Month
Copper Total Recoverable	µg/L	Monthly Avg. Daily Max. # Det. / # ND	11.9 27.0 4 / 0	MR MR	MR MR	1/Year (2)	1/Year (2)



Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	0.0 cfs
75 <sup>th</sup> percentile flow:	0.2 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0021105):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.00811 0.09	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.0453 0.0453	MR MR	MR MR	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	2.2 2.2	25 40	25 40	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	214 214	MR MR	MR MR	1/Month	1/Month
CBOD <sub>5</sub> Min Percent Removal	%	Monthly Avg.	97.6	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	1.45 1.45 25 / 11	MR MR	MR MR	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND.	22.3 22.3 25 / 11	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1148 1148	MR MR	MR MR	1/Month	1/Month
TSS Min Percent Removal	%	Monthly Avg.	95.4	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.42 (2) 2.2	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	32.7 (2) 63.1	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.033 0.038	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.16 0.16	0.561 MR TMDL	0.561 MR TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND.	1.56 1.56 36 / 0	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	2 5	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	7.7 6.13	5.0 4.0	5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND.	1.54 2.1 12 / 0	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.62 17.1 26.4	MR MR MR	-- -- --	1/Day	1/Day
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.3 17.8 27.6	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.02 9.05	MR MR	-- --	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.09 8.76	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based May 1 – Oct 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	0.0023 0.01 12 / 0	MR MR	MR MR	1/Month	1/Month



PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	0.092 0.19 12 / 0	4.5 6.6	4.5 6.6	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	0.005 0.06 17 / 0	MR 0.21	MR 0.21	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	0.18 0.54 18 / 0	MR 8.0	MR 8.0	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND.	0.199 2.24 27 / 7	MR 0.57	MR 0.57	1/Quarter	1/Quarter
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND.	6.48 20.4 34 / 0	MR 21.3	MR 21.3	1/Quarter	1/Quarter
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	>100 (2 samples)	61	61	1/ Year	1/ Year

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Permittee reported “0” twice which was not considered in average calculations as it appears to be an error.

**Indian Hills High School – NJG0021253**

**1 Facility Description:**

NJPDES Flow Value: 0.0336 MGD

Treatment Units:

1. Equalization Basin (metal with cathodic protection)
2. Aeration Basin (metal with cathodic protection)
3. Settling Tank (metal with cathodic protection)
4. Mechanical Filters (sand and charcoal filters)
5. Backwash Holding Tank (metal with cathodic protection)
6. Holding Tank for Ultra Violet Units (concrete)
7. Holding Tank for Flow meter (concrete)

Sludge Management: Sludge generated at this facility is managed off-site at an approved residuals management operation.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Pond Brook via drainage ditch Via : Outfall pipe Classification (a): FW2-NT(C2) Latitude: 41° 01' 26.2" Longitude: 74° 13' 55.1" County: Bergen Municipality: Oakland	Downstream Confluences: Ramapo River, Pompton L. Receiving River Basin: Passaic River Basin Watershed Management Area: 03 Watershed: Ramapo River Subwatershed: Crystal Lake/ Pond Brook 14 digit Hydrologic Unit Code: 020301031000060 Water Quality Impairments: pH
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0 cfs MA7CD10 / 7Q10: 0 cfs 75 <sup>th</sup> percentile flow: 0 cfs	MA1CD10 (1Q10) summer: 0 cfs MA1CD10 (1Q10) winter: 0 cfs MA30CD10 (30Q10) summer: 0 cfs MA30CD10 (30Q10) winter: 0 cfs

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0021253):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0044 0.017	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.074 0.081 8 / 27	1 1.5	1 1.5	1 / Month	1 / Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.84 3.84 8 / 27	8 12	8 12	1 / Month	1 / Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	198 198	MR MR	MR MR	1 / Month	1 / Month
CBOD <sub>5</sub> Minimum Percent Removal	%	Monthly Avg.	96.1	85	85	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.146 0.147	3.8 5.7	3.8 5.7	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	6.17 6.17	30 45	30 45	1 / Month	1 / Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	325 325	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum Percent Removal	%	Monthly Avg.	97.5	85	85	1 / Month	1 / Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.45 3.31	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	74.8 112	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0099 0.010	MR MR TMDL	MR MR TMDL	1 / Month	1 / Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.53 0.53	0.4 0.6 TMDL	0.4 0.6 TMDL	1 / Quarter	1 / Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	118 119	200 400	-- (1) -- (1)	1 / Quarter	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	167 42	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.82 7	6.0 MR	6.0 MR	1 / Month	1 / Month

Permit Summary Tables  
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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5 to < 5.26 < 5 to < 5.2	10 15	10 15	1 / Quarter	1 / Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2.5 15.6 26.8	MR MR MR	MR MR MR	1 / Day	1 / Day
Effluent pH	su	Instant. Min. Instant. Max.	6.05 8.34	6.0 9.0	6.0 9.0	1 / Day	1 / Day
Ammonia (Total as N) DO based	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.047 0.047 1 / 34	0.25 0.38	0.25 0.38	1 / Month	1 / Month
Ammonia (Total as N) DO based	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.7 1.7 1 / 34	2 3	2 3	1 / Month	1 / Month
Chlorine Produced Oxidants (UV Disinfection in use)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	-- --	(2)	(2)
Chlorine Produced Oxidants (UV Disinfection in use)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	-- --	(2)	(2)
Chlorine Produced Oxidants (Back up chlorination in use)	kg/d	Monthly Avg. Daily Max.	< 0.001 to < 0.005 < 0.001 to < 0.005	MR 0.013	MR 0.013	1 / Day	1 / Day
Chlorine Produced Oxidants (Back up chlorination in use)	mg/L	Monthly Avg. Daily Max.	< 0.01 < 0.01	MR 0.1	MR 0.1	1 / Day	1 / Day
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.3740 0.3846 35 / 0	MR (3) MR (3)	MR (3) MR (3)	1/Quarter	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	19.2817 42 35 / 0	MR (3) MR (3)	MR (3) MR (3)	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max. # Det. / # ND	1.3615 2.88 27 / 8	MR (3) MR (3)	MR (3) MR (3)	1/Quarter	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	64.5629 162 27 / 8	MR (3) MR (3)	MR (3) MR (3)	1/Quarter	1/Quarter
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det.  # ND	7.1 7.1, 16.9, 69.8, 71.9, 83.9, 84.9 >100 (1 sample)	61	61	1 / 6 Months	1 / 6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) When the facility is using UV disinfection in place of chlorination, the permittee is not required to monitor CPO.
- (3) Pursuant to the conditions of a September 23, 2012 ACO, the permittee submitted a “*Copper Summary Report*” and “*Water Effects Ratio Study*” as well as a “*Zinc Summary Report.*” Both studies were dated January 9, 2014 and were submitted by Lyons Environmental Service. Based on the study results, copper and zinc effluent limitations were reevaluated and removed as per a June 10, 2015 permit modification.

## Springfield Twp. Elementary School STP - NJG0021571

### **1 Facility Description:**

NJPDES Flow Value: 0.0075 MGD

Treatment Units:

1. Bar screen
2. Comminutor
3. Aeration tank
4. Clarifier
5. Ultraviolet disinfection system

Sludge is stored in a sludge holding tank before being managed at an approved residuals management site.

### **2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Barkers Brook Via : Pipe Classification: FW2-NT Latitude: 40° 02' 07.7" Longitude: 74° 42' 04.3" County: Burlington Municipality: Springfield Township	Downstream Confluences: Delaware River Receiving River Basin: Assiscunk Creek Watershed Management Area: 20 Watershed: Assiscunk Creek Subwatershed: Barkers Brook 14 digit Hydrologic Unit Code: 01040201100020
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0.0 cfs MA7CD10 / 7Q10: 0.0 cfs 75 <sup>th</sup> percentile flow: 0.06 cfs	

\* Information from Final Permit Approved 1/1/12.

### **3 Permit Summary Table and Permit Requirements (NJG0021571):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0018 0.017	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.036 0.036 18 / 17	0.71 1.06	0.71 1.06	1 / Month	1 / Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	396 396 25 / 0	25 37.5	25 37.5	1 / Month	1 / Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	91.8	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.083 0.083 24 / 1	0.9 1.3	0.9 1.3	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	11.1 11.1 24 / 1	30 45	30 45	1 / Month	1 / Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	451 452	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	85.9	85	85	1/Month	1/Month
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	55.5 57.5 9 / 26	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	11 20	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	5.1 5.1	5.0 4.0	5.0 4.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<2.29 to < 5 <2.29 to < 5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.5 16.43 28.8	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 – Oct. 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0055 0.0055 15 / 3	MR 0.26	MR 0.26	1/Month	1/Month
Ammonia (Total as N) May 1 – Oct. 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.84 0.84 15 / 3	MR 9.0	MR 9.0	1 / Month	1 / Month
Ammonia (Total as N) Nov. 1 – Apr. 30	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0083 0.0083 16 / 1	MR 0.45	MR 0.45	1 / Month	1 / Month
Ammonia (Total as N) Nov. 1 – Apr. 30	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.27 1.27 16 / 1	MR 16	MR 16	1 / Month	1 / Month
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.044 0.044	MR MR	MR MR	1 / Quarter	1 / Quarter
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	5028 (2) 5028 (2)	MR MR	MR MR	1 / Quarter	1 / Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	33.6 39.2 3 / 0	MR MR	MR MR	1/Year (3)	1/Year (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det.	31.9, 72, 89 (3 samples)	MR	MR	1/ Year	1/ Year

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) While this data represents the average reported on DMRs, the calculation does not appear to be correct based on average concentrations and flows.
- (3) Monitoring is required as an annual WCR requirement.

**Blair Academy – NJG0022101**

**1 Facility Description:**

NJPDES Flow Value: 0.05 MGD

Treatment Units:

1. Bar Screens

2. Aeration Tank and Clarifier with Chemical Addition
3. Addition of Sodium Hypochloride for Disinfection
4. Post Aerators

Sludge is held in a storage tank before being managed at an approved residuals management site.

## 2 Receiving Water Information:

### Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Blairs Creek	Downstream Confluences: Paulins Kill	Via : Outfall pipe	Receiving River Basin: Delaware River Basin
Classification: FW2-TM	Watershed Management Area: 01	Latitude: 40° 59' 11"	Watershed: Paulins Kill (below Stillwater Village)
Longitude: 74° 57' 33"	Subwatershed: Blair Creek	County: Warren	14 digit Hydrologic Unit Code: 02040105050020
Municipality: Blairstown			
Outfall Description			
Outfall Configuration: non-submerged pipe	Submerged Pipe Characteristics: N/A		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 0.7 cfs	MA1CD10 (1Q10) summer: 0.7 cfs	MA7CD10 / 7Q10: 0.8 cfs	MA1CD10 (1Q10) winter: 0.7 cfs
75 <sup>th</sup> percentile flow: 4.8 cfs	MA30CD10 (30Q10) summer: 1.1 cfs		MA30CD10 (30Q10) winter: 2.9 cfs

\* Information from Final Permit Approved 1/1/12.

## 3 Permit Summary Table and Permit Requirements (NJG0022101):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.024 0.049	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.52 0.63	6.0 9.0	6.0 9.0	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.52 5.52 34 / 1	30 45	30 45	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	472 472	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Minimum Percent Removal	%	Monthly Avg.	86.4	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.95 0.95	6 9	6 9	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	10.1 11.6	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	344 344	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	89.0	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	3.71 23.2	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	94.6 689	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.028 0.29	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.42 0.49	1.0 MR	1.0 MR	1/Quarter	1/Quarter

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	68 82 19 / 16	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	25.5 140	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Inst. Min.	8.25 6.32	6.0 5.0	6.0 5.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	4.097 5 10 / 2	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.1 17.08 27.7	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8.88	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 to Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.10 0.10	3.8 MR	3.8 MR	1 / Month	1 / Month
Ammonia (Total as N), Summer: May 1 to Oct 31	mg/L	Monthly Avg. Weekly Avg.	0.10 0.10	20 MR	20 MR	1 / Month	1 / Month
Ammonia (Total as N), Winter: Nov 1 to Apr 30	kg/d	Monthly Avg. Weekly Avg.	0.13 0.13	3.8 MR	3.8 MR	1 / Month	1 / Month
Ammonia (Total as N), Winter: Nov 1 to Apr 30	mg/L	Monthly Avg. Weekly Avg.	0.74 0.74	20 MR	20 MR	1 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	0.0016 0.007	MR 0.019	MR 0.019	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	0.021 0.05	MR 0.1	MR 0.1	1 / Day	1 / Day
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	9.1 (2) 18.4 (2) 4 / 0	MR MR	MR MR	1/Year (3)	1/Year (3)
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	>100 (3 samples)	AL 50	AL 50	1 / Year	1 / Year

**Footnotes and Abbreviations:**

MR Monitor and report only

AL Action Level

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Units were corrected in WCR data summary.
- (3) Monitoring is required as an annual WCR requirement.

**Stony Brook Elementary School – NJG0022276**

**1 Facility Description:**

NJPDES Flow Value: 0.01 MGD

Treatment Units:

1. Wet well
2. Comminutor
3. Equalization basin
4. Aeration tank
5. Clarifier
6. Mud well
7. Rapid sand filters (2)

8. Clear well
9. Post aeration
10. Ultraviolet (UV) disinfection chamber

Sludge is stored in a sludge holding tank before being managed at an approved residuals management site.

## 2 Receiving Water Information:

### Outfall Designator: 001A

General Information	Watershed Information
Receiving Water: Untermeyer Lake via unnamed tributary and storm sewer Via : Outfall pipe Classification: FW2-NT Latitude: 40° 58' 14.736" Longitude: 74° 21' 5.691"  County: Morris Municipality: Kinnelon Boro	Downstream Confluences: East Ditch River  Receiving River Basin: Passaic River Basin Watershed Management Area: 03 Watershed: Pompton River Subwatershed: Lincoln Park Tribs (Pompton River) 14 digit Hydrologic Unit Code : 02030103030130
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0.0 cfs MA7CD10 / 7Q10: 0.0 cfs 75 <sup>th</sup> percentile flow: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs MA1CD10 (1Q10) winter: 0.0 cfs MA30CD10 (30Q10) summer: 0.0 cfs MA30CD10 (30Q10) winter: 0.0 cfs

\* Information from Final Permit Approved 1/1/12.

## 3 Permit Summary Table and Permit Requirements (NJG0022276):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.000573 0.008	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.01 0.01 2 / 34	0.3 0.45	0.3 0.45	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	<4 <4 0 / 36	8.0 12.0	8.0 12.0	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	217 217	MR MR	MR MR	1/Month	1/Month
CBOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	97.3	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.045 0.045	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	14 14	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	269 269	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	94.9	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.25 0.69	MR MR	MR MR	1/ Year	1/ Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	103 149 (2)	MR MR	MR MR	1/ Year	1/ Year



PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0004 0.0004	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.15 0.15	1.0 1.5 TMDL	1.0 1.5 TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	17.4 17.6 4 / 32	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant. Max.	<1 <1	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.5 10	6.0 MR	6.0 MR	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	All values ND All values ND	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7.6 18.577 28	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.3 9.9	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO Based Summer: May 1 to Oct 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.007 0.007 5 / 13	0.08 0.11	0.08 0.11	1/Month	1/Month
Ammonia (Total as N) DO Based Summer: May 1 to Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.95 4.95 5 / 13	2.0 3.0	2.0 3.0	1/Month	1/Month
Ammonia (Total as N) DO Based Winter: Nov 1 to Apr 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0016 0.009 8 / 10	MR 0.16	MR 0.16	1/Month	1/Month
Ammonia (Total as N) DO Based - Winter Winter: Nov 1 to Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.07 5.13 8 / 10	MR 4.4	MR 4.4	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.022 0.07 27 / 5	MR 0.7	MR 0.7	1/Quarter	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	7.74 29.5 26 / 10	MR 17.7	MR 17.7	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max.	0.142 0.65	MR 4.3	MR 4.3	1/Quarter	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max.	61.3 206	MR 112	MR 112	1/Quarter	1/Quarter
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # Det.	29.2 29.2, 32, 95.3 (3 samples)	MR	MR	1/ Year	1/ 6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Average calculation does not include value of 1021 mg/L which appears to be an erroneous value.

**Helen A. Fort Middle School - NJG0022438**

**1 Facility Description:**

NJPDES Flow Value: 0.05 MGD

Treatment Units:

1. Bar screen
2. Communitor
3. Aeration tank
4. Settling tank
5. Sand filtration beds
6. Chlorination tank
7. Dechlorination tank

Sludge is aerated during storage before being managed at an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water:	Unnamed tributary of Rancocas Creek North Branch	Downstream Confluences:	Rancocas Creek North Branch
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	PL	Watershed Management Area:	19
Latitude:	39° 59' 58.6"	Watershed:	Rancocas Creek NB (below New Lisbon dam)
Longitude:	74° 39' 51.3"	Subwatershed:	Rancocas Creek NB (Rt. 206 to Pemberton br)
County:	Burlington	14 digit Hydrologic Unit Code:	02040202040030
Municipality:	Pemberton Twp.	Water Quality Impairments:	Arsenic, Copper, Lead, Phosphorus
Outfall Description			
Outfall Configuration:	Non-submerged pipe	Submerged Pipe Characteristics:	Not Applicable
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.3		
MA7CD10 / 7Q10:	0.4		

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0022438):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.003 0.014	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.072 0.072	4.73 7.09	4.73 7.09	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	5.21 5.33	25 37.5	25 37.5	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	200 200	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min Percent Removal	%	Monthly Avg.	87	85	85	1/Month	1/Month

Permit Summary Tables  
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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.063 0.069 31 / 4	5.7 8.5	5.7 8.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.16 4.55 31 / 4	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	151.1 151.1	MR MR	MR MR	1/Month	1/Month
TSS Min Percent Removal	%	Monthly Avg.	85	85	85	1/Month	1/Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.074 0.74	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	4.14 4.14	MR MR	MR MR	1/Month	1/Quarter
Nitrogen, Nitrate (Total as N)	Kg/d	Monthly Avg. Weekly Avg.	0.68 0.68	MR MR	MR MR	1/Quarter	1/Year
Nitrogen, Nitrate (Total as N)	mg/L	Monthly Avg. Weekly Avg.	57.3 52.8	MR MR	MR MR	1/Quarter	1/Year
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	9.97 9.97 33 / 2	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	< 1 to < 10 < 1 to < 10	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg Instant Min	6.2 6.2	5.0 4.0	5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Daily Max.	<2.29 to < 5 <2.29 to < 5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2 14.68 26	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6 8.96	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 to Oct 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.018 0.140 15 / 3	3.78 MR	3.78 MR	1/Month	1/Month
Ammonia (Total as N) May 1 to Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.125 8.79 15 / 3	20 MR	20 MR	1/Month	1/Month
Ammonia (Total as N) Nov 1 to Apr 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.070 0.189 17 / 0	3.78 MR	3.78 MR	1/Month	1/Month
Ammonia (Total as N) Nov 1 to Apr 30	mg/L	Monthly Avg. Daily Max.	6.0 14.8	20 MR	20 MR	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	<0.00023 to <0.0062 <0.0016 to <0.005	MR 0.02	MR 0.02	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	<0.1 <0.1	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.061 0.07 4 / 0	MR (2) MR (2)	MR (3) MR (3)	1/Year (2)	1/Quarter (3)
Total Recoverable Zinc	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.757 1.980 4 / 0	MR (2) MR (2)	MR (3) MR (3)	1/Year (2)	1/Quarter (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # ND	30, 30 (2 samples) >100 (1 sample)	MR	MR	1/ Year	1/ 6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring was required as an Annual WCR requirement.
- (3) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.

**The Salvation Army, Camp Tecumseh – NJG0023001**

**1 Facility Description:**

NJPDES Flow Value: 0.018 MGD

The STP at this facility was upgraded in August 2005 with a prefabricated Rotating Biological Contactor (RBC) treatment system, which has a design capacity of 0.036 MGD. However, the facility’s previous STP had a design capacity of 0.018 MGD, which is also the flow identified in the current Wastewater Management Plan (WMP).

Treatment Units:

1. Primary settling tank (Below RBC)
2. Rotating biological contactor (three stage unit):
  - a. Primary biological stage
  - b. Secondary biological stage
  - c. Tertiary biological stage (Nitrification/Phosphorus Removal w/Alum)
3. Final settling tank
4. Chlorination tank
5. First dechlorination tank
6. Re-aeration
7. Second dechlorination tank

Sludge is collected in the primary settling tank before being removed to an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water:	Nishisakawick Creek	Downstream Confluences:	Delaware River Zone 1E
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT(C1)	Watershed Management Area:	11
Latitude:	40° 35' 55.3"	Watershed:	Central Delaware Tributaries
Longitude:	75° 00' 26.9"	Subwatershed:	Hakihokake/harihokake/ Nishisakawick Creek
County:	Hunterdon	14 digit Hydrologic Unit Code:	02040105170040
Municipality:	Alexandria Township		
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs		
MA7CD10 / 7Q10:	0.0 cfs		
75 <sup>th</sup> percentile flow:	0.2 cfs		

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0023001):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0067 0.112	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.101 0.101	1.70 1.70	1.70 1.70	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	4.72 4.72	25 25	25 25	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	512 512	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	98.5	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.136 0.136 32 / 4	2.04 3.06	2.04 3.06	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	7.09 7.09 32 / 4	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1566 1566	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	98.3	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.15 0.73	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	9.49 26.7	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0095 0.0097	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.509 0.509	1.0 MR	1.0 MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	51.4 51.4 5 / 31	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	28.1 800	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	7 10.0	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.29 2.29 1 / 15	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.2 14.3 25.8	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.6 8.9	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.030 0.030	MR MR	0.37 0.59	1/Month	1/Month
Ammonia (Total as N), Summer: May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.13 1.13 14 / 4	2.7 4.4	2.7 4.4	1/Month	1/Month
Ammonia (Total as N), Winter : Nov 1 – Apr 30	kg/d	Monthly Avg. Weekly Avg.	0.0016 0.0016	0.34 0.57	0.34 0.57	1/Month	1/Month
Ammonia (Total as N), Winter : Nov 1 – Apr 30	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	0.057 0.057 9 / 9	2.5 4.2	2.5 4.2	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.00078 0.002 8 / 28	MR 0.007	MR 0.007	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.029 0.05 7 / 29	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	26.9 (2) 36.2 (2) 2 / 2	MR MR	MR MR	1/Year (3)	1/Year (3)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	57 (1 sample) >100 (2 samples)	MR	MR	1/Year	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Units were corrected in WCR data summary.
- (3) Monitoring is required as an annual WCR requirement.

**Round Valley Middle School - NJG0023175**

**1 Facility Description:**

NJPDES Flow Value: 0.009 MGD

Treatment Units:

1. Comminutor and bar screen
2. Aerated equalization tank
3. Aeration tank with immersion heater, an alum feed system and a pH control system
4. Clarifier
5. Aerated sludge holding tank
6. Filter feed tank/pressurized filter
7. Ultraviolet disinfection system (2 units, one is spare)
8. Effluent discharge tank

Sludge generated at this facility is removed on a periodic basis and managed at an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water:	South Branch Rockaway Creek	Downstream Confluences:	North and South Branch Raritan River
Via :	unnamed tributary	Receiving River Basin:	Lamington River
Classification:	FW2-TP(C1)	Watershed Management Area:	08
Latitude:	40° 39' 27.5"	Watershed:	Lamington River
Longitude:	74° 50' 0.6"	Subwatershed:	Rockaway Creek South Branch
County:	Hunterdon County	14 digit Hydrologic Unit Code:	02030105050100
Municipality:	Clinton Township	Water Quality Impairments:	Phosphorus, TSS, E. Coli, Temperature
Outfall Description			
Outfall Configuration:	non-submerged pipe		

Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10: 0.1 cfs MA7CD10 / 7Q10: 0.1 cfs 75 <sup>th</sup> percentile flow: 0.4 cfs	MA1CD10 (1Q10) summer: 0.1 cfs MA1CD10 (1Q10) winter: 0.2 cfs MA30CD10 (30Q10) summer: 0.2 cfs MA30CD10 (30Q10) winter: 0.3 cfs		

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0023175):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0021 0.014	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.067 0.1 19 / 17	1.0 1.5	1.0 1.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.9 10 17 / 19	30 45	30 45	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	369 382	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	97.6	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.17 0.21 35 / 1	1.0 1.5	1.0 1.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	20 25 35 / 1	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	443 448	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	89	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.34 0.34 35 / 1	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	50.2 50.3 35 / 1	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.015 0.015	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	1.99 1.99	MR MR	4.75 MR TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	96 938 24 / 12	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	694 6500	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min.	7.3 4	6.0 MR	6.0 MR	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	5.7 6.9 2 / 13	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.8 18.8 37.1	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.9	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) Summer - May 1 through October 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.003 0.02 13 / 5	0.03 MR	0.03 MR	1/Month	1/Month
Ammonia (Total as N) Summer - May 1 through October 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.76 2.1 13 / 5	1.0 MR	1.0 MR	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Winter - November 1 through April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.03 0.3 13 / 5	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.6 14 13 / 5	MR MR	MR MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	87.2 137 4 / 0	MR MR	MR (3) MR (3)	1/Year	1/Quarter (3)
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	133 (2) 204 (2) 4 / 0	MR MR	MR (3) MR (3)	1/Year	1/Quarter (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # Det. # ND	17.8 17.8, 59.2, 65.5 >100 (3 samples)	MR	MR	1/6 Months	1/6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Units of WCR data were corrected.
- (3) Monitoring has been increased from annually to quarterly and shall be reported on the Discharge Monitoring Report form.

## Kingwood Township School – NJG0023311

### **1 Facility Description:**

NJPDES Flow Value: 0.0048 MGD.

Treatment Units:

1. Equalization tank
2. Rotor disk
3. Primary clarifier
4. Secondary clarifier
5. Filter tank
5. Ultraviolet (UV) disinfection (1 unit)

Sludge is disposed off-site at an approved residuals management site.

### **2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water : Unnamed Tributary to Copper Creek via storm water collection and conveyance system	Downstream Confluences: Delaware River Zone 2
Via : Outfall pipe	Receiving River Basin: Delaware



Classification: FW2-NT  Latitude: 40° 30' 25"  Longitude: 75° 00' 44"  County: Hunterdon  Municipality: Kingwood	Watershed Management 11 Area: Watershed: Hakihokake/Harihokake/ Nishisakawick Creek Subwatershed: Kingwood Township (Warford-Little Nishisakawick) 14 digit Hydrologic Unit 02040105170060 Code: Water Quality Impairments: Phosphorus
<b>Outfall Description</b>	
Outfall Configuration: non-submerged pipe	
<b>Current Receiving Stream Design Low Flow Values *</b>	
MA1CD10 / 1Q10: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs
MA7CD10 / 7Q10: 0.0 cfs	MA1CD10 (1Q10) winter: 0.0 cfs
75 <sup>th</sup> percentile flow: 0.0 cfs	MA30CD10 (30Q10) summer: 0.0 cfs
	MA30CD10 (30Q10) winter: 0.0 cfs

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0023311):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013-3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.11 0.006	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.029 0.029	0.45 0.68	0.45 0.68	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	5.5 5.5	25 37.5	25 37.5	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	455 455	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	98.7	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.079 0.091	0.55 0.82	0.55 0.82	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	16.4 19	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	448 448	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	95	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.23 0.45	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	39.0 55.7	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.038 0.038	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	7.55 7.55	MR MR	MR MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	26.6 68.9	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	38.7 230	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min.	6.5 2.77	5.0	-- 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5 <5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	9.2 20.4 37.3	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6 8.99	6.0 9.0	6.0 9.0	1/Day	1/Day

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013-3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Summer - May 1 through October 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.005 0.029 17 / 1	0.11 0.18	0.11 0.18	1/Month	1/Month
Ammonia (Total as N) Summer - May 1 through October 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.76 8.57 17 / 1	6 10	6 10	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.007 0.13 18 / 0	0.11 0.18	0.11 0.18	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.24 16.6 18 / 0	6 10	6 10	1/Month	1/Month
Total Recoverable Copper	g/d	Month Avg. Daily Max. # Det. / # ND	0.1 0.26 13 / 0	MR (2) MR (2)	MR (2) MR (2)	1/6 Months	1/6 Months
Total Recoverable Copper	µg/L	Month Avg. Daily Max. # Det. / # ND	23.5 64.2 13 / 0	MR (2) MR (2)	MR (2) MR (2)	1/6 Months	1/6 Months
Total Recoverable Zinc	g/d	Month Avg. Daily Max. # Det. / # ND	0.34 0.95 13/0	MR (2) MR (2)	MR (2) MR (2)	1/6 Months	1/6 Months
Total Recoverable Zinc	µg/L	Month Avg. Daily Max. # Det. / # ND	83.3 205 13 / 0	MR (2) MR (2)	MR (2) MR (2)	1/6 Months	1/6 Months
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # ND	64.6 (1 sample) >100 (1 sample)	MR	MR	1/Year	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Effluent requirements were considered based on the final copper Water Effects Ratio (WER) study and site-specific copper and zinc translators and hardness data submitted by the permittee.

**Lounsberry Hollow Middle School – NJG0023841**

**1 Facility Description:**

NJPDES Flow Value: 0.032 MGD

Treatment Units:

1. Bar Screen
2. Comminutor
3. Equalization Tank
4. Aeration Tank
5. Biological Settling Clarifier
6. Chemical Mixing Unit
7. Chemical Clarifier (Phosphorus Removal)
8. Rapid Sand Filters (2 units)
9. Clear Well
10. Ultraviolet Disinfection Chamber (2 units)
11. Post Aeration Tank

Sludge Management: Sludge is decanted then stored in a holding tank before being managed at an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Lounsberry Hollow Brook via unnamed tributary and storm sewer Via : Concrete outfall pipe Classification: FW2-TM(C2) Latitude (a): 41° 13' 23" Longitude (a): 74° 29' 49.8"  County: Sussex Municipality: Vernon Township	Downstream Confluences: Black Creek  Receiving River Basin: Wallkill River Basin Watershed Management Area: 02 Watershed: Pochuck Creek Subwatershed: Balck Creek (below G. George Resort trib) 14 digit Hydrologic Unit Code: 02020007040020 Water Quality Impairments: Dissolved Oxygen
Outfall Description	
Outfall Configuration: Non-submerged pipe	
Current Receiving Stream Design Low Flow Values*	
MA1CD10 / 1Q10: 0.0 cfs MA7CD10 / 7Q10: 0.0 cfs 75 <sup>th</sup> percentile flow: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs MA1CD10 (1Q10) winter: 0.0 cfs MA30CD10 (30Q10)summer: 0.0 cfs MA30CD10 (30Q10) winter: 0.0 cfs

\* Information from Final Permit Approved 1/1/12.  
(a) Latitude and Longitude Coordinates for the facility's "End of Pipe".

**3 Permit Summary Table and Permit Requirements (NJG0023841):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.00348 (1) 0.016	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.2 0.2 6 / 29	1.8 2.72	1.8 2.72	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.22 6.22 6 / 29	15 22.5	15 22.5	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	130 130 32 / 3	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	82.6	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.11 0.11 27 / 8	3.6 5.4	3.6 5.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.23 4.23 31 / 4	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	172 172	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	95.5	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.37 0.49	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	37.8 43	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.008 0.008 5 / 6	MR 0.06	MR 0.06	1/Quarter	1/Quarter

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.39 0.39 5 / 6	MR 0.5	MR 0.5	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	24.9 24.9 23 / 12	200 400	-- (2) -- (2)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	10.4 270	MR MR	126 (2) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg.	9.08 9.08	6.0 MR	6.0 MR	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<2.29 to <5 <2.29 to <5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0 13.4 26.4	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	Su	Instant. Min. Instant. Max.	6.14 8.15	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 - Oct. 31	kg/d	Monthly Avg. Daily Max.	< 0.001 to <0.02 <0.02	0.31 0.46	0.31 0.46	1/ Month	1/ Month
Ammonia (Total as N), Summer: May 1 - Oct. 31	mg/L	Monthly Avg. Daily Max.	<0.390 <0.390	2.6 3.8	2.6 3.8	1/ Month	1/ Month
Ammonia (Total as N), Winter: Nov. 1 - Apr. 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.039 0.18 8 / 9	0.31 0.46	0.31 0.46	1/ Month	1/ Month
Ammonia (Total as N), Winter: Nov. 1 - Apr. 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.03 2.09 8 / 9	2.6 3.8	2.6 3.8	1/ Month	1/ Month
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max # Det. / # ND	0.43 0.81 4 / 0	MR 13.6	MR 13.6	1/ 6 Months	1/ 6 Months
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max # Det. / # ND	47.9 59.5 4 / 0	MR 112.5	MR 112.5	1/ 6 Months	1/ 6 Months
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	11.1 14.6 3 / 0	MR MR	MR MR	1/ Year (3)	1/ Year (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # Det. # ND	45.8 45.8, 63, 93.9 >100 (2 samples)	55	55	1 / Year	1 / Year

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) Value of 3860 MGD was not considered in calculations as it is an anomaly and likely an inaccurate reading.
- (2) A monthly average limit of 126 #/100 ml for E. Coli will *replace* the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (3) Monitoring is required as an annual WCR requirement.

**Union Township Elementary School - NJG0024091**

**1 Facility Description:**

NJPDES Flow Value: 0.011 MGD

Treatment Units:

1. Comminutor
2. Aeration and pH maintenance tank

3. Clarifier
4. Chlorination/dosing tank
5. Sand filter bed
6. Dechlorination
7. Post aeration

Sludge is transported off-site where it is managed at an approved residuals management site, which is currently Passaic Valley Sewage Authority.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water: Mulhockaway Creek	Downstream Confluences: South & North Branch Raritan		
Via : Unnamed tributary	Receiving River Basin: Raritan River Basin		
Classification: FW2-TP (C1)	WMA: 08		
Latitude: 40° 37' 57"	Watershed: Raritan River SB (3 Brdgs to Spruce Run)		
Longitude: 74° 58' 16.9"	Subwatershed: Mulhockaway Creek		
County: Hunterdon	14 digit Hydrologic Unit Code: 02030105020030		
Municipality: Union Township	Water Quality Impairments: Phosphorus		
Outfall Description			
Outfall Configuration: non-submerged pipe			
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 0.1 cfs	MA1CD10 (1Q10) summer: 0.1 cfs		
MA7CD10 / 7Q10: 0.1 cfs	MA1CD10 (1Q10) winter: 0.1 cfs		
75 <sup>th</sup> percentile flow (d): 0.4 cfs	MA30CD10 (30Q10) summer: 0.1 cfs		
	MA30CD10 (30Q10) winter: 0.3 cfs		

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0024091):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.01	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.017 0.017 21 / 14	0.33 0.5	0.33 0.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. #Det / #ND	4.65 4.65 21 / 14	8.0 12	8.0 12	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	802 802	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	99.1	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.017 0.017 29 / 6	0.33 0.5	0.33 0.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.58 3.58 29 / 6	8.0 12	8.0 12	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	4192 4192	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	99.8	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.017 0.036	MR MR	MR MR	1/ Year	1/ Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	20.0 30.8	MR MR	MR MR	1/ Year	1/ Year

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.30 0.30 11 / 1	1.0 MR	1.0 MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.016 0.016 11 / 1	MR MR	MR MR TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. #Det/#ND	67.7 67.7 11 / 24	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	23.8 23.8 2 / 1	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Daily Avg.	9.43 9.43	MR 7.0	MR 7.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<2.29 - <5.0 <2.29 - <5.0	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 15 31	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.67 8.49	6.5 8.5	6.5 8.5	1/Day	1/Day
Ammonia (Total as N) DO based - May 1 - Oct. 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.002 0.013 15 / 3	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) DO based - May 1 - Oct. 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.23 1.0 15 / 3	1.0 MR	1.0 MR	1/Month	1/Month
Ammonia (Total as N) Nov. 1 - Apr. 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.34 5.42 3 / 14	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Nov.1 - Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	3.98 20 3 / 14	MR MR	MR MR	1/Month	1/Month
Chlorine Produced Oxidants	kg/day	Monthly Avg. Daily Max. # Det. / # ND	0.0001 0.0014 6 / 29	MR 0.0042	MR 0.0042	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.012 0.02 6 / 29	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	32.9 (2) 45.3 (2) 4 / 0	MR MR	MR MR	1/Year	1/Quarter (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	No Data Reported	MR	MR	1/ Year	1/ 6 Months (4)

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) A monthly average limit of 126 #/100 ml for E. Coli will replace the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, quarterly monitoring for E. Coli is required along with monthly monitoring for fecal coliform along with fecal coliform limits. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Units of DMR data were corrected.
- (3) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.
- (4) Frequency increased since data not reported during previous permit cycle.

**Pope John XXIII High School – NJG0027049**

**1 Receiving Water Information:**

NJPDES Flow Value: 0.022 MGD

Treatment Units:

1. Comminutor
2. Bar Screen
3. Surge Tank
4. Return Activated Sludge Tank
5. Steel Tank with Dual Media Filter
6. Ultraviolet Disinfection Chamber
7. Metal Tanks with Aerators

Sludge is stored in a holding tank before being managed at an approved residuals management site.

**2 Facility Description:**

General Information		Watershed Information	
Receiving Water:	Unnamed tributary to Fox Hollow Lake	Downstream Confluences:	Lake Mohawk
Via :	Publicly owned storm sewer	Receiving River Basin:	Delaware River Basin
Classification (a):	FW2-NT(C1)	WMA:	01-Upper Delaware River
Latitude:	41° 01' 56.7"	Watershed:	Paulins Kill (above Stillwater Village)
Longitude:	74° 39' 59"	Subwatershed:	Sparta Junction tribs
County:	Sussex	14 digit Hydrologic Unit Code:	02040105040050
Municipality:	Sparta	Water Quality Impairments:	Temperature
Outfall Description			
Outfall Configuration:	N/A- discharge to a publicly owned storm sewer	Submerged Pipe Characteristics:	N/A
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0 cfs	MA1CD10 (1Q10) summer:	0 cfs
MA7CD10 / 7Q10:	0 cfs	MA1CD10 (1Q10) winter:	0 cfs
75 <sup>th</sup> percentile flow:	0 cfs	MA30CD10 (30Q10) summer:	0 cfs
		MA30CD10 (30Q10) winter:	0 cfs

(a) The Receiving Waterbody Classification has changed since the 1/1/12 Master General Permit  
 \* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0027049):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0035 0.012	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.078 0.100 11/ 24	2.08 3.33	2.08 3.33	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.125 6.25 8 / 27	25 40	25 40	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	172 174	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Minimum Percent Removal	%	Monthly Avg.	89 (1)	85	85	1/Month	1/Month

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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.127 0.18 28 / 7	2.5 3.75	2.5 3.75	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	8.78 9.59 27 / 8	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	196 198	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	93.9	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.160 0.160	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	28.6 35.3	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0069 0.0134	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.61 0.90	1.0 MR	1.0 MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	28.2 61.5 21 / 14	200 400	-- (2) -- (2)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	11.0 -----	MR MR	126 (2) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.66 6.58	5.0 4.0	5.0 4.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<1.41 to < 6.6 <1.41 to < 6.6	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1 14.48 26	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	8.84 6.08	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer, May 1 – Oct. 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0075 0.05 4 / 14	0.18 0.30	0.18 0.30	1/ Month	1/ Month
Ammonia (Total as N), Summer, May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.73 2.15 4 / 14	2.4 4.0	2.4 4.0	1/ Month	1/ Month
Ammonia (Total as N), Winter, Nov. 1 – Apr. 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.013 0.534 6 / 11	0.19 0.32	0.19 0.32	1/ Month	1/ Month
Ammonia (Total as N), Winter, Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.232 15.7 5 / 12	2.5 4.2	2.5 4.2	1/ Month	1/ Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	18.2 22.7 4 / 0	MR MR	MR MR	1/Year (3)	1/Year (3)
Chronic Toxicity, <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det. # ND	12.3 12.3, 25, 27, 63 >100	61	61	1 / 6 Months	1 / 6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) Does not include entry from 8/1/13 as it is likely an inaccurate value.
- (2) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (3) Monitoring is required as an annual WCR requirement.



**Sparta Alpine School – NJG0027065**

**1 Facility Description:**

NJPDES Flow Value: 0.025 MGD

Treatment Units:

1. Muffin Monster
2. Equalization Tank
3. Sequencing Batch Reactor
4. Dosing Tank
5. Drum Filter
6. Ultraviolet Disinfection

Sludge Management: Sludge is managed off-site at an approved sludge management operation.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water:	Unnamed tributary to Paulins Kill	Downstream Confluences:	Paulins Kill
Via :	Outfall pipe	Receiving River Basin:	Delaware River
Classification (a):	FW2-NT(C1)	WMA:	
Latitude:	41° 01' 20"	Watershed:	Paulins Kill (above Stillwater Village)
Longitude:	74° 40' 37"	Subwatershed:	Paulins Kill (above Rt 15)
County:	Sussex	14 digit Hydrologic Unit	02040105040060
Municipality:	Sparta Township	Code:	
		Water Quality Impairments:	DO and Phosphorus
Outfall Description			
Outfall Configuration:	Partially submerged pipe	Submerged Pipe Characteristics:	N/A

Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0 cfs	MA1CD10 (1Q10) summer:	0 cfs
MA7CD10 / 7Q10:	0 cfs	MA1CD10 (1Q10) winter:	0 cfs
75 <sup>th</sup> percentile flow:	0 cfs	MA30CD10 (30Q10) summer:	0 cfs
		MA30CD10 (30Q10) winter:	0 cfs

(a) The Receiving Waterbody Classification has changed since the 1/1/12 Master General Permit

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0027065):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.004 0.066	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.102 0.102 7 / 28	1.4 1.4	1.4 1.4	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.37 4.37 6 / 29	15 15	15 15	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	206 206	MR MR	MR MR	1/Month	1/Month

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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/13 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
BOD <sub>5</sub> Minimum Percent Removal	%	Monthly Avg.	97.9	95	95	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.21 0.215 33 / 2	2.9 4.4	2.9 4.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	12.6 12.9 34 / 1	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	368 362	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	92.3 (1)	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.57 0.67	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	35.3 44.1	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.01 -- 8 / 4	MR -- TMDL	MR -- TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.66 -- 8 / 4	1.0 -- TMDL	1.0 -- TMDL	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	26.8 26.8 9 / 26	200 400	-- (2) -- (2)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	2.77 164 4 / 1	MR MR	126 (2) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg.	5.7 8.38	4.0 5.0	4.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.9 2.9 1 / 11	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.1 15.7 26.3	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.5 7.63	6.5 8.5	6.5 8.5	1/Day	1/Day
Ammonia (Total as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.047 0.1 5 / 12	0.37 0.57	0.37 0.57	1/ Month	1/ Month
Ammonia (Total as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	2.74 5.73 5 / 12	3.9 6	3.9 6	1/ Month	1/ Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.068 0.19 9 / 8	0.40 0.66	0.40 0.66	1/ Month	1/ Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	3.00 7.02 9 / 8	4.2 7	4.2 7	1/ Month	1/ Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	12.9 24.2 4 / 0	MR MR	MR MR	1/Year (3)	1/Year (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det. # ND	19 19 (1 sample) >100 (2 samples)	MR	MR	1 / Year	1 / Year

**Footnotes and Abbreviations:**

MR Monitor and report only

TMDL Total Maximum Daily Load

- (1) Does not include entry from 7/1/15.
- (2) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (3) Monitoring is required as an annual WCR requirement.

## Lester D. Wilson Elementary School – NJG0027553

### **1 Facility Description:**

NJPDES Flow Value: 0.0075 MGD

Treatment Units:

1. Septic tank
2. Underground denitrification / nitrification sand filter
3. Underground polishing sand filter
4. Ultraviolet disinfection unit

Sludge Management: Sludge is pumped from the septic tank and then trucked to an approved residuals management site.

### **2 Receiving Water Information:**

#### Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Unnamed Tributary	Downstream Confluences: Nishisakawick Creek	Via : Outfall Pipe	Receiving River Basin: Delaware River Basin
Classification: FW2-NT (C1)	WMA: 11	Latitude: 40°34' 08"	Watershed: Hakihokakae/Harihokake/Nishisakawick Creek
Longitude: 75° 01'26"	Subwatershed: Nishisakawick Creek (above 40d, 33m)	County: Hunterdon	14 digit Hydrologic Unit Code: 02040105170040
Municipality: Alexandria Township			
Outfall Description			
Outfall Configuration: non-submerged pipe			
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs	MA7CD10 / 7Q10: 0.0 cfs	MA1CD10 (1Q10) winter: N/A
75 <sup>th</sup> percentile flow (b): 0.2 cfs	MA30CD10 (30Q10) summer: 0.0 cfs		MA30CD10 (30Q10) winter: 0.1 cfs

\* Information from Final Permit Approved 1/1/12.

### **3 Permit Summary Table and Permit Requirements (NJG0027553):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/2013 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.011	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.031 0.031 13 / 22	0.71 1.06	0.71 1.06	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	10.4 10.7 13 / 22	25 37.5	25 37.5	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	542 550	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	97.5	85	85	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/2013 to 3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.050 0.050 29 / 6	0.85 1.28	0.85 1.28	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	10.3 10.6 29 / 6	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1441 1441	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	97.3	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.020 0.020	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	13.4 13.4	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.008 0.010 16 / 1	MR MR	MR MR	1/ Quarter	1/ Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.0655 3.0098 16 / 1	MR MR	MR MR	1/ Quarter	1/ Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	86 1462 9 / 25	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E Coli (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	159 803	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	4 6.0	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.6 2.6 1 / 14	10 15	10 15	1/ Quarter	1/ Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.7 15.85 31.8	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.01 8.99	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.013 0.030 13 / 4	MR 0.29	MR 0.29	1/Month	1/Month
Ammonia (Total as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	4.84 9.68 13 / 4	MR 10.2	MR 10.2	1/Month	1/Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.014 0.014 12 / 5	MR 0.52	MR 0.52	1/Month	1/Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	10.2 10.3 12 / 5	MR 18.4	MR 18.4	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	5.3 6.2 5 / 0	MR MR	MR MR	1/Year	1/Year
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum # Det. # ND	16.2 16.2, 55 (2 samples) >100 (1 sample)	MR	MR	1/ Year	1/ 6 Months

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.

**Kittatiny Regional High School - NJG0028894**

**1 Facility Description:**

NJPDES Flow Value: 0.045 MGD

Treatment Units:

1. Bar Screen
2. Equalization Tank
3. Aeration Tank
4. Clarifiers (2 units)
5. Concrete Lined Settling Tank
6. Ultraviolet Disinfection
7. Aerated Manhole

Sludge Management: Sludge is managed at an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information		Watershed Information	
Receiving Water:	Paulins Kill	Downstream Confluences:	Delaware River
Via :	Outfall Pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT	WMA:	01: Upper Delaware
Latitude:	41° 06' 14"	Watershed:	Paulins Kill ( above Stillwater Village)
Longitude:	74° 45' 29.8"	Subwatershed:	Paulins Kill ( Paulins Kill outlet to Dry Brook)
County:	Sussex	14 digit Hydrologic Unit Code:	02040105040080
Municipality:	Hampton	Water Quality Impairments:	Arsenic
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	8.7 cfs	MA30CD10 (30Q10) summer:	13 cfs
MA7CD10 / 7Q10:	10 cfs	MA30CD10 (30Q10) winter:	26 cfs
75 <sup>th</sup> percentile flow:	37 cfs		

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0028894):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.004 0.31	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.18 0.18 18 / 17	4.2 6.8	4.2 6.8	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.71 6.71 18 / 17	25 40	25 40	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	201 201	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	96.3	85	85	1/Month	1/Month

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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.22 0.22	5.1 7.6	5.1 7.6	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	9.43 9.43	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	245 245	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	92.7	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.36 1.64	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	49.4 62.1	MR MR	MR MR	1/ Year	1/ Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.005 0.005 7 / 2	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.37 0.37 7 / 2	1.0 MR	1.0 MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	31.5 31.5 13 / 22	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	4.20 194	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	5.85 8.95	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.6 2.6 1 / 11	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.1 13.51 25.9	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.01 7.85	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.03 0.03 6/11	3.4 MR	3.4 MR	1/Month	1/Month
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.03 1.03 6/11	20 MR	20 MR	1/Month	1/Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.06 0.25 13/4	3.4 MR	3.4 MR	1/Month	1/Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.75 7.58 13/4	20 MR	20 MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	34.5 78.7 3 / 0	MR (2) MR (2)	MR (3) MR (3)	1/Year	1/Quarter (3)
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	115 216 3 / 0	MR (2) MR (2)	MR (3) MR (3)	1/Year	1/Quarter (3)
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	>100 (3 samples)	AL 50	AL 50	1/Year	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

AL Action Level

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring was required as an Annual WCR requirement.

(3) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.

## Robert Erskine School – NJG0029432

### **1 Facility Description:**

NJPDES Flow Value: 0.008 million gallons per day (MGD).

The wastewater treatment plant at Robert Erskine School also processes the sanitary wastewater from Peter Cooper School which is transferred over approximately two (2) times a week.

Treatment Units:

1. Bar Screen
2. Equalization Tank (Influent Well)
3. Extended Aeration Tank – Addition of Caustic Soda and Alum
4. Secondary Clarifier (Settling Tank)
5. Mud Well
6. Carbon Filters (2 units)
7. Post Aeration Tank
5. Ultraviolet (UV) Disinfection Chamber

Sludge Management: Sludge generated at this facility is held in a holding tank before being managed off-site at an approved residuals management operation.

### **2 Receiving Water Information:**

#### Outfall Designator: 001A

General Information	Watershed Information
Receiving Water: Erskine Brook via storm sewer Via : Outfall pipe Classification: FW2-TM(C1) Latitude: 41° 05' 31.5" Longitude: 74° 15' 52.6"  County: Passaic Municipality: Ringwood Borough	Downstream Confluences: Wanaque Reservoir Receiving River Basin: Passaic WMA: 03 Watershed: Wanaque River Subwatershed: Wanaque Reservoir (below Monks gage) 14 digit Hydrologic Unit Code: 02030103070050 Water Quality Impairments: Dissolved Oxygen, Temperature, E. Coli
Outfall Description	
<b>Current Receiving Stream Design Low Flow Values</b>	
Outfall Configuration: submerged pipe  MA1CD10 / 1Q10: 0.0 cfs MA7CD10 / 7Q10: 0.0 cfs 75 <sup>th</sup> percentile flow: 0.3 cfs	MA1CD10 (1Q10) summer: N/A MA1CD10 (1Q10) winter: N/A MA30CD10 (30Q10) summer: 0.0 cfs MA30CD10 (30Q10) winter: 0.2 cfs

\* Information from Final Permit Approved 1/1/12.

### **3 Permit Summary Table and Permit Requirements (NJG0029432):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0006 0.003	MR MR	MR MR	Continuous	Continuous

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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.0077 0.0077	0.24 0.36	0.24 0.36	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	2.0 2.0	8 12	8 12	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	147 147	MR MR	MR MR	1/Month	1/Month
CBOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	98.6	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.022 0.022	0.91 1.4	0.91 1.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	6.9 6.9	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	266 266	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	96.9	85	85	1/Month	1/Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0014 0.0014	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.44 0.44	1.6 2.4 TMDL	1.6 2.4 TMDL	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	1/Year	1/Year
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	2.1 2.1	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	<1 <1	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min	9.1 8.5	MR 7.0	MR 7.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	All values ND All values ND	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7 15.4 23.1	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.05 8.21	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer, May 1 to Oct.31	kg/d	Monthly Avg. Weekly Avg.	0.001 0.001	0.06 0.09	0.06 0.09	1/Month	1/Month
Ammonia (Total as N) DO based Summer, May 1 to Oct.31	mg/L	Monthly Avg. Weekly Avg.	0.30 0.30	2 3	2 3	1/Month	1/Month
Ammonia (Total as N) Toxicity based Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max.	0.001 0.003	MR 0.21	MR 0.21	1/Month	1/Month
Ammonia (Total as N) Toxicity based Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max.	0.33 1.1	MR 7.0	MR 7.0	1/Month	1/Month
Total Recoverable Copper	gr/d	Monthly Avg. Daily Max. # Det. / # ND	0.01 0.01 1 / 0	MR MR	MR MR	1/Year	1/Year
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	22.1 22.1 1 / 0	MR MR	MR MR	1/Year	1/Year
Total Recoverable Zinc	gr/d	Monthly Avg. Daily Max. # Det. / # ND	0.04 0.04 1 / 0	MR MR	MR MR	1/Year	1/Year
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	93 93 1/0	MR MR	MR MR	1/Year	1/Year
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum # Det. # ND	13.8 13.8, 56 > 100 (2 samples)	MR	MR	1/Year	1/Year

**Footnotes and Abbreviations:**  
MR Monitor and report only



- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring was required as an Annual WCR requirement.

## North Warren Regional School District– NJG0031046

### **1 Facility Description:**

NJPDES Flow Value: 0.02 MGD

Treatment Units:

1. Bar screen
2. Comminutor
3. Activated sludge with clarification
4. Sodium hypochlorite disinfection
5. Sulfur dioxide dechlorination
6. Post aeration

Sludge is stored in a holding tank before being managed at an approved residuals management site.

### **2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Paulins Kill Via : Outfall pipe Classification: FW2-TM Latitude: 40° 58' 46.8"  Longitude: 74° 59' 16.2" County: Warren Municipality: Blairstown Twp.	Receiving River Basin: Delaware WMA: 01 Watershed: Upper Delaware Subwatershed: Paulins Kill ( below Blairstown gauge) 14 digit Hydrologic Unit Code: 020401005050050 Outfall Configuration: non-submerged pipe Water Quality Impairments: Temperature, Mercury & PCB in fish tissue
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 13 cfs MA7CD10 / 7Q10: 18 cfs 75 <sup>th</sup> percentile flow: 72 cfs	MA1CD10 (1Q10) winter: 13 cfs MA30CD10 (30Q10): 22 cfs MA30CD10 (30Q10) winter: 46 cfs

\* Information from Final Permit Approved 1/1/12.

### **3 Permit Summary Table and Permit Requirements (NJG0031046):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.009 0.022	MR MR	MR MR	Continuous	Continuous

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PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg.	0.10 0.10	1.89 3.03	1.89 3.03	1/ Month	1/ Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg.	6.38 6.38	25 40	25 40	1/ Month	1/ Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	159 159	MR MR	MR MR	1/ Month	1/ Month
CBOD <sub>5</sub> Minimum Percent Removal	%	Monthly Avg.	96.9	85	85	1/ Month	1/ Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.20 0.20 30 / 5	2.28 3.41	2.28 3.41	1/ Month	1/ Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	9.4 9.4 30 / 5	30 45	30 45	1/ Month	1/ Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	2004 2004	MR MR	MR MR	1/ Month	1/ Month
TSS Minimum Percent Removal	%	Monthly Avg.	98.9	85	85	1/ Month	1/ Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.67 4.79	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	6.02 8.38	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.010 0.010	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.72 0.72	MR MR	MR MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	39.0 84.5 5 / 30	200 400	-- (1) -- (1)	1/ Month	1/ Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	22.6 166 2 / 1	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/ Month - Final
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.49 7.04	6.0 5.0	6.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	8.11 8.11 1 / 12	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.1 14.84 25.7	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.58 7.91	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.002 0.002 11 / 8	1.38 2.01	1.38 2.01	1/ Month	1/ Month
Ammonia (Total as N) DO based Summer - May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.11 0.11 11 / 8	18.2 26.6	18.2 26.6	1/ Month	1/ Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.004 0.004 9 / 8	MR MR	MR MR	1/ Month	1/ Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.23 0.23 9 / 8	20 MR	20 MR	1/ Month	1/ Month
Chlorine Produced Oxidants	Kg/day	Monthly Avg.	0.0003	0.008	0.008	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. # Det. / # ND	<0.01 0 / 35	0.1	0.1	1/Day	1/Day
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	143 (2) 466 (2) 4 / 0	MR MR	MR (3) MR (3)	1/Year	1/Quarter (3)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	50.7 (2) 104 (2) 4 / 0	MR MR	MR (3) MR (3)	1/Year	1/Quarter (3)
Acute Toxicity, LC50 <i>Ceriodaphnia</i> (1)	% effluent	Minimum	>100 (2 samples)	AL 50	AL 50	1/Year	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

AL Action Level

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Units of DMR data were corrected.
- (3) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.

## High Point Regional High School – NJG0031585

### **1 Facility Description:**

The facility’s permitted flow value is 0.03 million gallons per day (MGD).

Treatment Units:

1. Comminutor
2. Aeration Tank
3. Clarifiers (2) Primary & Secondary in succession
4. Tertiary Filters (2) in parallel
5. Clear Well (post aeration)
6. Ultraviolet Disinfection Chamber

Sludge Management: Sludge is held in a holding tank before being managed at an approved residuals management site.

### **2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Papakating Creek West Branch Via : Outfall pipe Classification: FW2-NT (C2) Latitude: 41° 12’ 12.3” Longitude: 74° 38’ 35.4”  County: Sussex Municipality: Wantage Township	Downstream Confluences: Walkkill River  Receiving River Basin: Walkkill River Basin WMA: 02 Watershed: Papakating Creek Subwatershed: Papakating Creek West Branch (below 74d39m30s side road) 14 digit Hydrologic Unit Code: 02020007020050
Outfall Description	
Outfall Configuration:	non-submerged pipe

Current Receiving Stream Design Low Flow Values*			
MA1CD10 /1Q10: 0.2 cfs MA7CD10 / 7Q10: 0.3 cfs 75 <sup>th</sup> percentil 2.9 cfs flow:	MA1CD10 (1Q10)summer: 0.2 cfs MA1CD10 (1Q10)winter: 0.2 cfs MA30CD10(30Q10)summer: 0.5 cfs MA30CD10(30Q10)winter: 2.0 cfs		

\* Information from Final Permit Approved 1/1/12.

### 3 Permit Summary Table and Permit Requirements (NJG0031585):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 3/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0045 0.0409	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.06 0.06 8 / 28	1.7 1.7	1.7 1.7	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.5 4.5 8 / 28	15 15	15 15	1/Month	1/Month
Influent BOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	291 291	MR MR	MR MR	1/Month	1/Month
BOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	98.5	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.06 0.08	3.4 5.1	3.4 5.1	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	3.4 3.4	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	406 406	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	98.9	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.66 10.4	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	25.6 32.3	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.04 0.04 10 / 1	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.9 2.04 10 / 1	MR MR	MR MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	36.7 81.6	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	20.7 600	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg. Min.	5.77 8.96	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	2.3 2.3	10 15	10 15	1/ Quarter	1/ Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.8 14.3 25.9	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.5 8.47	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia Total (as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Weekly Avg.	0.13 0.13	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Weekly Avg.	5.2 5.2	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg.	0.11 0.11	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg.	4.7 4.7	MR MR	MR MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	55.9 110 4 / 0	MR MR	MR (2) MR (2)	1/Year	1/Quarter (2)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Zinc	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.757 1.980 4 / 0	MR MR	MR (2) MR (2)	1/Year	1/Quarter (2)
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	>100 (4 samples)	50	50 AL	1/Year	1/Year

**Footnotes and Abbreviations:**

MR Monitor and report only

AL- Action Level

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.

**Alexandria Middle School- NJG0035670**

**1 Facility Description:**

NJPDES Flow Value: 0.0099 MGD

Treatment Units:

1. Comminutor
2. Aerated equalization tank
3. Extended aeration activated sludge tank
4. Clarifier
5. Rapid sand filter (steel tank)
6. Ultraviolet disinfection system

Sludge Management: Sludge is stored in holding tanks before being removed to an approved residuals management site.

**2 Receiving Water Information:**

**Outfall Designator: 001A**

General Information	Watershed Information
Receiving Water: Nishisakawick Creek Via : Outfall pipe Classification: FW2-NT (C1) Latitude: 40° 34' 23" Longitude: 75° 00' 36.8" County: Hunterdon Municipality: Alexandria Township	Downstream Confluences: Delaware River Receiving River Basin: Delaware River Basin WMA : 11 Watershed: Hakihokake / Nishisakawick Ck Subwatershed: Nishisakawick Creek (above 40d 33m) 14 digit Hydrologic Unit Code: 02040105170040
Outfall Description	
Outfall Configuration: non-submerged pipe	Submerged Pipe Characteristics: N/A
Current Receiving Stream Design Low Flow Values*	
MA1CD10 / 1Q10: 0.1 cfs MA7CD10 / 7Q10: 0.1 cfs 75 <sup>th</sup> percentile flow: 0.6 cfs	MA7CD10 (1Q10) winter: 0.3 cfs MA30CD10 (30Q10) summer: 0.2 cfs MA30CD10 (30Q10) winter: 0.4 cfs

\* Information from Final Permit Approved 1/1/12.

**3 Permit Summary Table and Permit Requirements (NJG0035670):**

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/2013 -3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0013 0.0116	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.029 0.029 20 / 15	0.094 1.405	0.094 1.405	1/Month	1/Month
PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/1/2013 -3/30/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.19 6.2 17 / 18	25 37.5	25 37.5	1/Month	1/Month
Influent CBOD <sub>5</sub>	mg/L	Monthly Avg. Weekly Avg.	181 195	MR MR	MR MR	1/Month	1/Month
CBOD <sub>5</sub> Min. Percent Removal	%	Monthly Avg.	94.9	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.088 0.090	1.12 1.70	1.12 1.70	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	16.4 16.9	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	411 411	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	91.6	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.27 0.64	MR MR	MR MR	1 / Year	1 / Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	56.9 88.2	MR MR	MR MR	1 / Year	1 / Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max.	0.028 0.072	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Daily Max.	6.34 9.65	MR MR	MR MR	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	60.0 394	200 400	-- (1) -- (1)	1/Month	1/Month - Initial
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	48.0 400	MR MR	126 (1) MR	5 / Month in an annual period	1/Quarter - Initial 1/Month - Final
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	5 7.56	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 2.29 to < 5 < 2.29 to < 5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2.8 16.7 38.1	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.01 9.98	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), May 1 – Oct. 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0021 0.018 13 / 5	MR 0.39	MR 0.39	1/Month	1/Month
Ammonia (Total as N), May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.42 3 13 / 5	MR 10.5	MR 10.5	1/Month	1/Month
Ammonia (Total as N), Nov. 1 – Apr. 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.035 0.35 14 / 3	0.75 0.82	0.75 0.82	1/Month	1/Month
Ammonia (Total as N), Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	5.80 47.9 14 / 3	20 22	20 22	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.278 0.278 11 / 24	MR 4	MR 4	1/Quarter	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	53.9 53.9 11 / 24	MR 96.2	MR 96.2	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max. # Det. / # ND	1.11 4.19 7 / 0	MR MR	MR (2) MR (2)	1/6 Months	1/Quarter (2)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 4/2013 – 2/2016	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	223 528 7 / 0	MR MR	MR (2) MR (2)	1/6 Months	1/Quarter (2)
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	%	Minimum	>100 (3 samples)	MR	MR	1/ Year	1/ Year
Acute Toxicity, LC50 <i>Pimephales promelas</i>	%	Minimum	>100 (3 samples)	MR	--	1/ Year	--

**Footnotes and Abbreviations:**

MR Monitor and report only

- (1) A monthly average limit of 126 #/100 ml for E. Coli will **replace** the effluent limits for fecal coliform at EDP + 1 year. From EDP to EDP + 1 year, fecal coliform limits and monthly fecal coliform monitoring is still applicable; however, quarterly monitoring for E. Coli is also required. From EDP + 1 year until permit expiration, monthly monitoring for E. Coli will be required where fecal coliform effluent limits and monitoring will no longer be applicable.
- (2) Monitoring has been increased to quarterly and shall be reported on the Discharge Monitoring Report form.



# NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

**Permit Number: NJ0193381**

**Draft: Surface Water Master General Permit Renewal**

**Permittee:**

NJPDES Master General Permit Program Interest  
 Category ASC  
 Per Individual Notice of Authorization  
 Division of Water Quality  
 401-02B; P.O. Box 420  
 401 East State Street  
 Trenton, NJ 08625

**Property Owner:**

NJPDES Master General Permit Program Interest  
 Category ASC  
 Per Individual Notice of Authorization  
 Division of Water Quality  
 401-02B; P.O. Box 420  
 401 East State Street  
 Trenton, NJ 08625

**Location Of Activity:**

NJPDES Master General Permit Program Interest  
 Category ASC  
 Per Individual Notice of Authorization  
 Division of Water Quality  
 401-02B; P.O. Box 420  
 401 East State Street  
 Trenton, NJ 08625

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
ASC -Consolidated DSW Renewal School (GP)	Pending	Pending	Pending

**By Authority of:  
 Commissioner's Office**

**DEP AUTHORIZATION**  
**Susan Rosenwinkel, Section Chief**  
**Bureau of Surface Water Permitting**  
**Division of Water Quality**

(Terms, conditions and provisions attached hereto)

**Division of Water Quality**



## PART I GENERAL REQUIREMENTS: NJPDES

### A. General Requirements of all NJPDES Permits

#### 1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
- |   |                                     |
|---|-------------------------------------|
| Penalties for Violations                            | N.J.A.C. 7:14-8.1 <u>et seq.</u>    |
| Incorporation by Reference                          | N.J.A.C. 7:14A-2.3                  |
| Toxic Pollutants                                    | N.J.A.C. 7:14A-6.2(a)4i             |
| Duty to Comply                                      | N.J.A.C. 7:14A-6.2(a)1 & 4          |
| Duty to Mitigate                                    | N.J.A.C. 7:14A-6.2(a)5 & 11         |
| Inspection and Entry                                | N.J.A.C. 7:14A-2.11(e)              |
| Enforcement Action                                  | N.J.A.C. 7:14A-2.9                  |
| Duty to Reapply                                     | N.J.A.C. 7:14A-4.2(e)3              |
| Signatory Requirements for Applications and Reports | N.J.A.C. 7:14A-4.9                  |
| Effect of Permit/Other Laws                         | N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c) |
| Severability  | N.J.A.C. 7:14A-2.2                  |
| Administrative Continuation of Permits              | N.J.A.C. 7:14A-2.8                  |
| Permit Actions                                      | N.J.A.C. 7:14A-2.7(c)               |
| Reopener Clause                                     | N.J.A.C. 7:14A-6.2(a)10             |
| Permit Duration and Renewal                         | N.J.A.C. 7:14A-2.7(a) & (b)         |
| Consolidation of Permit Process                     | N.J.A.C. 7:14A-15.5                 |
| Confidentiality                                     | N.J.A.C. 7:14A-18.2 & 2.11(g)       |
| Fee Schedule  | N.J.A.C. 7:14A-3.1                  |
| Treatment Works Approval                            | N.J.A.C. 7:14A-22 & 23              |
- c. Operation And Maintenance
- |                                      |                       |
|--------------------------------------|-----------------------|
| Need to Halt or Reduce not a Defense | N.J.A.C. 7:14A-2.9(b) |
| Proper Operation and Maintenance     | N.J.A.C. 7:14A-6.12   |
- d. Monitoring And Records
- |   |                    |
|---|--------------------|
| Monitoring                                    | N.J.A.C. 7:14A-6.5 |
| Recordkeeping                                 | N.J.A.C. 7:14A-6.6 |
| Signatory Requirements for Monitoring Reports | N.J.A.C. 7:14A-6.9 |
- e. Reporting Requirements
- |   |                                       |
|---|---------------------------------------|
| Planned Changes                               | N.J.A.C. 7:14A-6.7                    |
| Reporting of Monitoring Results               | N.J.A.C. 7:14A-6.8                    |
| Noncompliance Reporting                       | N.J.A.C. 7:14A-6.10 & 6.8(h)          |
| Hotline/Two Hour & Twenty-four Hour Reporting | N.J.A.C. 7:14A-6.10(c) & (d)          |
| Written Reporting                             | N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h) |
| Duty to Provide Information                   | N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1  |
| Schedules of Compliance                       | N.J.A.C. 7:14A-6.4                    |
| Transfer                                      | N.J.A.C. 7:14A-6.2(a)8 & 16.2         |

## PART II

# GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

### A. Additional Requirements Incorporated By Reference

#### 1. Requirements for Discharges to Surface Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
  - i. Surface Water Quality Standards N.J.A.C. 7:9B-1
  - ii. Water Quality Management Planning Regulations N.J.A.C. 7:15

### B. General Conditions

#### 1. Scope

- a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

#### 2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the expiration date.

#### 3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

#### 4. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

#### 5. Access to Information

- a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access/copy any records that must be kept under the conditions of this permit.

## 6. Operator Certification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 and any amendments. The name of the proposed operator, where required shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.
  - i. Notifications shall be submitted to:  
NJDEP  
Bureau of Licensing & Pesticides Operations  
Mail Code 401-04E  
P.O. Box 420  
Trenton, New Jersey 08625-0420  
(609) 777-1013
- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

## 7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

## 8. Standard Reporting Requirements – Monitoring Report Forms (MRFs)

- a. As of the effective date identified below, all required monitoring results reported on Monitoring Report Forms (MRFs) shall be electronically submitted to the Department via NJDEP's Electronic Monitoring Report Form (MRF) Submission Service.
- b. Any electronic MRF data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee.
- c. MRFs shall be submitted at the frequencies identified in Part III of this permit.
- d. All MRFs shall be certified by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility.
- e. The highest ranking official may delegate responsibility to certify the MRFs in his or her absence. Authorizations for other individuals to certify shall be made in accordance with N.J.A.C. 7:14A-4.9(b).
- f. Monitoring results shall be submitted in accordance with the current NJPDES Monitoring Report Form Reference Manual and any updates thereof.
- g. If monitoring for a parameter is not required in a monitoring period, the permittee must report "CODE=N" for that parameter.

- h. If, for a monitored location, there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results by checking the “No Discharge this monitoring period” box on the paper or electronic version of the monitoring report submittal form.

**9. Standard Reporting Requirements - Electronic Submission of NJPDES Information**

- a. Effective December 21, 2020, the below identified documents and reports, if required to be submitted by this permit, shall be electronically submitted to the NJDEP via the Department’s designated Electronic Submission Service.
  - i. General permit authorization requests (i.e. RFAs)
  - ii. General permit termination/revocation requests

## PART III

# LIMITS AND MONITORING REQUIREMENTS

**MONITORED LOCATION:**

ASCA Sanitary Outfall

**RECEIVING STREAM:**

On Individual Authorization

**STREAM CLASSIFICATION:**

**DISCHARGE CATEGORY(IES):**

ASC - Consolidated DSW Renewal  
School (GP)

**Location Description**

Individual authorization will reference latitude and longitude of discharge location.

**Contributing Waste Types**

Sanitary

**Surface Water DMR Reporting Requirements:**

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP) Unless specified otherwise, all limits have been retained from the existing permit pursuant to N.J.A.C. 7:14A-13.19. Please refer to the individual authorization for more information.

**Comments:**

Effluent limitations and monitoring requirements are contained on the Permit Summary Tables and Part III of the individual authorizations.

**Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements**

**PHASE:**Final

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, Total	Effluent Gross Value	*****	REPORT Daily Average	MGD	*****	*****	*****	*****	1/Month	Metered
January thru December	QL	***	***		***	***	***			

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

**Comments:**

Annual monitor and report requirements shall be included for copper and zinc for certain facilities as specified on the WCR form. Bromodichloromethane, bromoform, and chloroform shall be sampled on an annual basis for facilities that chlorinate. See Part III of the individual authorizations for specific sampling requirements.

**Table III - A - 2: Surface Water WCR - Annual Limits and Monitoring Requirements**

PHASE:Final                      PHASE Start Date:                      PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Copper, Total (as Cu)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Zinc, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

PHASE:Final                      PHASE Start Date:                      PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Cyanide, Total (as CN)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Selenium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Thallium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Beryllium, Total Recoverable (as Be)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Barium, Total Recoverable (as Ba)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Nickel, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Silver, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Cadmium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Lead, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chromium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Antimony, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Mercury Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acenaphthylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acenaphthene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Anthracene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Benzo(b)fluoranthene (3,4-benzo)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(k)fluoranthene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(a)pyrene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bis(2-chloroethyl) ether	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bis(2-chloroethoxy) methane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bis (2-chloroiso- propyl) ether	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Butyl benzyl phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chrysene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Diethyl phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Dimethyl phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Diphenyl- hydrazine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Fluoranthene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Fluorene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Hexachlorocyclo- pentadiene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Hexachloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December



**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Indeno(1,2,3-cd)-pyrene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Isophorone	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodi-n-propylamine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodiphenyl-amine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodimethyl-amine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Nitrobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Phenanthrene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Pyrene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(ghi)perylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(a)anthracene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2,4-Trichloro-benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Dibenzo(a,h)anthracene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,3-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,4-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2-Chloronaphthalene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,6-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
3,3'-Dichloro-benzidine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
4-Bromophenyl phenyl ether	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Naphthalene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Di-n-butyl phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzidine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Hexachlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro-benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodiethyl-amine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Toluene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chlorodibromomethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Ethylbenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methyl Bromide	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methylene Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Tetrachloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Trichlorofluoro-methane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,1-Trichloro-ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,2-Trichloro-ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,2,2-Tetrachloro-ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Dichloropropane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-trans-Dichloro-ethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2-Chloroethyl Vinyl Ether (Mixed)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Vinyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Trichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-Nitrosodi-n-butylamine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:Final**

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Parachloro-m-cresol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Phenols	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4,5-Trichloro-phenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2-Nitrophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dichlorophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dimethylphenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dinitrophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4,6-Trichloro-phenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
4-Chlorophenyl phenyl ether	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
4-Nitrophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Phenol Single Compound	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Pentachlorophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

**Comments:**

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

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**Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:**Final

**PHASE Start Date:**

**PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

## PART IV

# SPECIFIC REQUIREMENTS: NARRATIVE

### Consolidated DSW Renewal School (GP)

#### A. MONITORING REQUIREMENTS

##### 1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136 unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. When more than one test procedure is approved for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 136, 122.21(e)(3), and 122.44(i)(1)(iv).
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual, or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. Any additional samples taken consistent with the monitoring and reporting requirements contained herein shall be reported with the Monitoring Report Forms.
- g. If annual and semi-annual wastewater testing is specified, it shall be conducted in a different quarter of each year so that tests are conducted in each of the four permit quarters of the permit cycle. Testing may be conducted during any month of the permit quarters.
- h. Flow shall be measured using a meter unless specified otherwise in the individual authorization.

#### B. RECORDKEEPING

##### 1. Standard Recordkeeping Requirements

- a. The permittee shall retain records of all monitoring information, including 1) all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation (if applicable), 2) copies of all reports required by this NJPDES permit, 3) all data used to complete the application for a NJPDES permit, and 4) monitoring information required by the permit related to the permittee's residual use and/or disposal practices, for a period of at least 5 years, or longer as required by N.J.A.C. 7:14A-20, from the date of the sample, measurement, report, application or record.
- b. Records of monitoring information shall include 1) the date, locations, and time of sampling or measurements, 2) the individual(s) who performed the sampling or measurements, 3) the date(s) the analyses were performed, 4) the individual(s) who performed the analyses, 5) the analytical techniques or methods used, and 6) the results of such analyses.

## **C. REPORTING**

### **1. Standard Reporting Requirements**

- a. In accordance with the schedule in Part II of the permit, all required monitoring results reported on Monitoring Report Forms (MRFs) shall be electronically submitted to the Department via NJDEP's Electronic Monitoring Report Form (MRF) Submission Service.
- b. For intermittent discharges, the permittee shall obtain a sample during at least one of the discharge events occurring during a monitoring period.
- c. If the permittee does not anticipate discharge events for one year or more and does not want to receive monitoring report forms (MRFs), please contact the Bureau of Surface Water Permitting at (609) 292-4860 to temporarily cease MRF generation. In the event that a discharge is expected to occur, notify the Bureau of Surface Water Permitting as far in advance as possible to resume MRF generation.

## **D. SUBMITTALS**

### **1. Standard Submittal Requirements**

- a. The permittee shall amend the Operation & Maintenance Manual whenever there is a change in the treatment works design, construction, operations or maintenance which substantially changes the treatment works operations and maintenance procedures.

## **E. FACILITY MANAGEMENT**

### **1. Discharge Requirements**

- a. The permittee shall discharge at the location(s) specified in PART III of the individual authorization.
- b. The permittee shall not discharge foam or cause foaming of the receiving water that: 1) Forms objectionable deposits on the receiving water, 2) Forms floating masses producing a nuisance, or 3) Interferes with a designated use of the waterbody.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen.
- e. When an average of three (3) consecutive rolling monthly average values of the committed flow (actual flow and approved allocated flow) reaches or exceeds 80% of the permitted capacity the permittee shall:
  - i. Develop a Capacity Assurance Program (CAP) in accordance with N.J.A.C. 7:14A-22.16
  - ii. For more information concerning the CAP, please contact the Bureau of Construction and Connection Permits at (609) 984-4429.
  - iii. Contact the Office of Water Resources Management Coordination to discuss whether an amendment to the Water Quality Management Plan (WQMP) or Wastewater Management Plan (WMP) will be necessary.

### **2. Applicability of Discharge Limitations and Effective Dates**

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements



- i. (If a one year compliance schedule is included for the individual authorization- Part III) This permit includes multiple phases for "initial" and "final." The "initial" phase limits are effective from the effective date of the permit (EDP) to EDP + 12 months. The "final" limits will become effective beginning EDP + 12 months.
- b. Wastewater Characterization Report (WCR) Form Requirements
  - i. The final effluent monitoring conditions in Part III of the individual authorization apply for the full term of this permit action.

### **3. Operation, Maintenance and Emergency Conditions**

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit as specified in the Operation and Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with N.J.A.C. 7:14A-6.12(d).

### **4. Acute Toxicity Testing Requirements (applicable only if an acute toxicity requirement is specified in Part III)**

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Acute toxicity tests shall be conducted using the test species and method identified in Part III of the individual authorization.
- c. Part III of the individual authorization may contain an effluent limitation or Action Level (AL) for acute Whole Effluent Toxicity. Toxicity Reduction and Implementation Requirements may be triggered based on exceedences of this limitation. See the Toxicity Reduction and Implementation Requirements section below for more details.
- d. Any test that does not meet the specifications of N.J.A.C. 7:18, laboratory certification regulations, must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- e. LC50 - Lethal Concentration - Concentration of effluent that is lethal to 50% of the test organisms, as compared to the control.
- f. NOAEC (No Observable Adverse Effect Concentration): The lowest concentration of effluent where survival in the test group is not significantly different from the control. This is always set at 100% effluent.
- g. The permittee shall submit an Acute Methodology Questionnaire within 60 days of commencement of discharge or of any change in laboratory.
- h. Submit an acute whole effluent toxicity test report along with your Discharge Monitoring Reports within twenty-five days after the end of every month during which an acute whole effluent toxicity test was performed. These toxicity tests shall be performed according to the frequency specified in the individual General Permit Authorization. The permittee shall submit toxicity test results on the appropriate forms.

- i. Test reports shall be submitted to:  
 NJDEP  
 Mail Code 401-02B  
 Bureau of Surface Water Permitting  
 P.O. Box 420  
 Trenton, New Jersey 08625-0420

**5. Chronic Toxicity Testing Requirements (applicable only if a chronic toxicity requirement is specified in Part III)**

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Chronic toxicity tests shall be conducted using the test species and method identified in Part III of this permit.
- c. Any test that does not meet the specifications contained in the Department's "Chronic Toxicity Testing Specifications for Use in the NJPDES Program" document must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- d. The permittee shall collect and analyze the concentration of ammonia-N in the effluent on the day a sample is collected for WET testing. This result is to be reported on the Biomonitoring Report Form.
- e. IC25 - Inhibition Concentration - Concentration of effluent which has an inhibitory effect on 25% of the test organisms for the monitored effect, as compared to the control (expressed as percent effluent).
- f. Test results shall be expressed as the IC25 for each test endpoint. Where a chronic toxicity testing endpoint yields IC25's from more than one test endpoint, the most sensitive endpoint will be used to evaluate effluent toxicity.
- g. The permittee shall submit a Chronic Methodology Questionnaire within 60 days of commencement of discharge or of any change in laboratory.
- h. Submit a chronic whole effluent toxicity test report along with your Discharge Monitoring Reports within twenty-five days after the end of every month during which a chronic whole effluent toxicity test was performed. These toxicity tests shall be performed according to the frequency specified in the individual General Permit Authorization. The permittee shall submit toxicity test results on appropriate forms.
- i. Test reports shall be submitted to:  
 NJDEP  
 Mail Code 401-02B  
 Bureau of Surface Water Permitting  
 P.O. Box 420  
 Trenton, New Jersey 08625-0420

**6. Toxicity Reduction Implementation Requirements (TRIR) (applicable only if a whole effluent toxicity limit is specified in Part III)**

- a. The permittee shall initiate a tiered toxicity investigation if two out of six consecutive WET tests demonstrate that the effluent does not comply or will not comply with the toxicity limit or action level specified in Part III of the individual authorization.
  - i. If the exceedence of the toxicity limit or action level is directly caused by a documented facility upset, or other unusual event which has been identified and appropriately remedied by the permittee, the toxicity test data collected during the event may be eliminated when determining the need for initiating a TRIR upon written Department approval.
- b. The permittee shall begin toxicity characterization within 30 days of the end of the monitoring period when the second toxicity test exceeds the toxicity limits or action level in Part III. The monitoring frequency for toxicity testing shall be increased to semi-monthly (i.e. every two months). Up to 12 additional tests may be required.
  - i. The permittee may return to the toxicity testing frequency specified in Part III if four consecutive toxicity tests conducted during the Toxicity Characterization do not exceed the toxicity limit or action level.
  - ii. If two out of any six consecutive, acceptable tests again exceed the toxicity limit or action level in Part III, the permittee shall repeat Toxicity Reduction Implementation Requirements.
- c. The permittee shall initiate a preliminary toxicity identification (PTI) upon the fourth exceedence of the toxicity limit or action level specified in Part III during toxicity characterization.
  - i. The permittee may return to the monitoring frequency specified in PART III while conducting the PTI. If more frequent WET testing is performed during the PTI, the permittee shall submit all biomonitoring reports to the DEP and report the results for the most sensitive species on the DMR.
  - ii. As appropriate, the PTI shall include:
    - (1) treatment plant performance evaluation,
    - (2) evaluation of chemical use and processes at the facility, and
    - (3) an evaluation of incidental facility procedures and chemical spill disposal which may contribute to effluent toxicity.
  - iii. The permittee shall submit a Preliminary Toxicity Identification Notification within 15 months of triggering TRIR. This notification shall include a determination that the permittee intends to demonstrate compliance OR plans to initiate a CTI.
- d. The permittee must demonstrate compliance with the WET limitation or action level in four consecutive WET tests to satisfy the requirements of the Toxicity Reduction Investigation Requirements. After successful completion, the permittee may return to the WET monitoring frequency specified in PART III.
- e. The permittee shall initiate a Comprehensive Toxicity Investigation (CTI) if the PTI does not identify the cause of toxicity and a demonstration of consistent compliance with the toxicity limit or action level in Part III can not be made.
  - i. The permittee shall develop a project study plan identifying the party or parties responsible for conducting the comprehensive evaluation, establish a schedule for completing the study, and a description of the technical approach to be utilized.

- ii. If the permittee determines that the PTI has failed to demonstrate consistent compliance with the toxicity limit or action level in Part III , a Comprehensive Toxicity Investigation Workplan must be prepared and submitted within 90 days.
  - iii. The permittee shall summarize the data collected and the actions taken in CTI Quarterly Reports. The reports shall be submitted within 30 calendar days after the end of each quarter.
  - iv. The permittee shall submit a Final CTI Report 90 calendar days after the last quarterly report. The final CTI report shall include the corrective actions identified to reduce toxicity and a schedule for implementing these corrective actions.
- f. Upon receipt of written approval from the Department of the corrective action schedule, the permittee shall implement those corrective actions consistent with that schedule.
- i. The permittee shall satisfy the requirements of the Toxicity Reduction Implementation Requirements and return to the original toxicity monitoring frequency after corrective actions are implemented and the permittee demonstrates consistent compliance with the toxicity limit or action level in Part III in four consecutive toxicity tests.
  - ii. If the implemented corrective measures do not result in consistent compliance with the toxicity limit or action level in Part III, the permittee shall submit a plan for resuming the CTI.

## **F. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS**

- 1. There are no pretreatment program requirements for this facility.**

## **G. CONDITIONS FOR MODIFICATION**

### **1. Notification Requirements**

- a. For new discharges, the permittee shall notify the Department that a tag to mark the location of the outfall pipe has been installed consistent with N.J.A.C. 7:14A-6.2(a)9.

### **2. Causes for modification**

- a. The Department may modify or revoke and reissue any permit to incorporate 1) any applicable effluent standard or any effluent limitation, including any effluent standards or effluent limitations to control the discharge of toxic pollutants or pollutant parameters such as acute or chronic whole effluent toxicity and chemical specific toxic parameters, 2) toxicity reduction requirements, or 3) the implementation of a TMDL or watershed management plan adopted in accordance with N.J.A.C. 7:15-7.
- b. The Department may modify individual authorizations under this permit through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1 to reduce the WET monitoring sample frequency. The criteria for such reduction is a minimum of 4 consecutive data points with a result of >100. The Department may also consider site-specific characteristics such as discharge volume, location and wastewater constituents.
- c. The Department may modify individual authorizations under this permit through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1 to reduce toxics monitoring frequencies.
- d. For discharges where a new chronic whole effluent toxicity limit is imposed: The Department may issue a minor modification further deferring the effective date of the chronic whole effluent toxicity limitation if a facility is implementing the Toxicity Reduction Implementation Requirements (TRIR) in Part IV of this permit.

### **3. Removal or Modification of Final WQBELs or Criteria End-of-Pipe Effluent Limitations for Chemical Specific Toxic Pollutants**

- a. The Department will consider proposing to remove or modify a toxic pollutant's newly imposed final effluent limitation from the permit if any or all of the information in item "b" below is submitted for Departmental review and consideration.
- b. Items that will be considered include, but are not limited to:
  - i. Submission of additional effluent data.
  - ii. Acceptable site-specific ambient data (e.g. hardness, pollutant specific data) collected in accordance with a NJDEP approved work plan.
  - iii. Acceptable site-specific translator values to enable assessment of a dissolved metal versus a total metal ratio. A Water Effects Ratio (WER) study can also be conducted for copper. Guidance regarding a Water Effects Ratio study can be obtained at <http://water.epa.gov/scitech/swguidance/standards/criteria/aqlife/pollutants/copper/upload/copper> Assessment of site-specific translators or a WER shall be developed in accordance with a NJDEP approved work plan.
  - iv. Acceptable site-specific criteria developed in accordance with a NJDEP approved work plan.
  - v. Updated 1Q10, 7Q10, 75th percentile, and/or other appropriate stream flow values where applicable.
- c. All studies require a NJDEP approved workplan that shall be submitted to the Department for approval prior to commencement of any work.
  - i. It is recommended that all ambient monitoring associated with the establishment of hardness values, pollutant concentrations, site-specific translator values and/or a WER study be conducted under the confines of a single work plan.
- d. The Department will review all submitted information and will either propose a permit action to remove/modify the final effluent limitation(s) or deny the modification request.

## **H. CUSTOM REQUIREMENTS**

### **1. Best Management Practices (BMPs) for Cleaning Products and Hazardous Wastes**

- a. Best Management Practices (BMP) shall be followed to control or abate the discharge of toxic pollutants that may result from the use of cleaning products or hazardous substances. Specifically, cleaning agents, paints, and chemistry laboratory chemicals should be used as directed on the product labels and excess product should be disposed of properly as a household hazardous waste based on township and/or county requirements. The permittee is encouraged to develop and implement a BMP Plan based on the schools operations. This BMP Plan is intended to ensure that toxic pollutants are not put into the sanitary wastewater collection system through sinks and floor drains; passed through the treatment system, and ultimately discharged to the receiving waterbody at the surface water outfall.

### **2. Chlorine Produced Oxidants (CPO)**

- a. Effluent shall not exceed a daily maximum concentration of 0.1 mg/L for CPO at all times. This requirement also applies to facilities that use UV disinfection even though a routine reporting requirement for CPO is not specified.

NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST, Trenton

Permit No.NJ0193381  
DSW160006 Surface Water Master General Permit Renewal

## H. CUSTOM REQUIREMENTS (Continued)

(applicable to Delaware River Basin dischargers only with permitted flows greater than 0.01 MGD)

3. **Delaware River Basin Commission Requirements – applicable to NJG0020419, NJG0020711, NJG0022101, NJG0023001, NJG0027049, NJG027065, NJG0028894, NJG0031046 only**
  - a. The permittee shall comply with the Delaware River Basin Commission (DRBC) Water Quality Regulations.
  - b. Prior to the permittee initiating any substantial alterations or additions to the existing WWTP as defined in Section 3.10.3A2.a.16) of the Delaware River Basin Commission's *Water Quality Regulations (18CFR Part 410)*, a No Measureable Change to Existing Water Quality Analysis must be conducted by the Delaware River Basin Commission. The No Measureable Change to Existing Water Quality Analysis shall be conducted prior to final design to ensure that the Commission can provide the permittee with proposed effluent limitations to be included in a future NJPDES permit for Special Protection Waters specific parameters as guidance for treatment design purposes. The permittee is encouraged to contact DRBC staff during the planning stages of any project that meets the definition of substantial alteration or additions, as per DRBC.
  - c. Except as otherwise authorized by this permit, if the permittee seeks relief from any limitation based upon a Delaware River Basin Commission water quality standard or minimum treatment requirement, the permittee shall apply for approval from the Delaware River Basin Commission Executive Director and NJDEP for a permit revision.
  - d. The permittee may conduct a study to determine if specific conductance may be substituted for TDS in the permit. The study should include effluent specific data to be used to determine a correlation between TDS and specific conductance. Upon review, the Delaware River Basin Commission will determine if the permit may be modified to allow the substitution of specific conductivity for TDS monitoring. The TDS limit would then be supplanted by a specific conductance limit in the permit.
  - e. Based upon the written recommendation of the DRBC staff, when the discharge is operated in accordance with the provisions and conditions established by this permit, then with respect to effluent quality and stream quality objectives, the project does not substantially impair or conflict with the Commission's Comprehensive Plan.

**APPENDIX A:**

**CHRONIC TOXICITY TESTING SPECIFICATIONS  
FOR USE IN THE NJPDES PERMIT PROGRAM**

**Version 2.1**

**May 1997**



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Notice: Mention of trade names or commercial products do not constitute endorsement or recommendation for use.

## I. AUTHORITY AND PURPOSE

These methods specifications for the conduct of whole effluent chronic toxicity testing are established under the authority of the NJPDES permitting program, N.J.A.C. 7:14A-6.5(a)2 and 40 CFR 136, for discharges to waters of the State. The methods referenced herein are included by reference in 40 CFR 136, Table 1.A. and, therefore, constitute approved methods for chronic toxicity testing. The information contained herein serves to clarify testing requirements not sufficiently clarified in those methods documents and also serves to outline and implement the interlaboratory Standard Reference Toxicant Program until a formal laboratory certification program is established under N.J.A.C. 7:18. As such these methods are intended to be used to determine compliance with discharge permits issued under the authority of the NJPDES permit program. Tests are to be conducted in accordance with the general conditions and test organism specific method specifications contained in this document. All other conditions and specifications can be found in 40 CFR 136 and USEPA methodologies.

Until a subchapter on chronic toxicity testing within the regulations governing the certification of laboratories and environmental measurements (N.J.A.C. 7:18) becomes effective, tests shall be conducted in conformance with the methodologies as designated herein and contained in 40 CFR 136. The laboratory performing the testing shall be within the existing acute toxicity testing laboratory certification program established under N.J.A.C. 7:18, as required by N.J.A.C. 7:9B-1.5(c)5.

Testing shall be in conformance with the subchapter on chronic toxicity testing within the N.J.A.C. 7:18 when such regulations become effective. The laboratory performing the toxicity testing shall be within the chronic toxicity testing laboratory certification program to be established under that subchapter, when it becomes effective.

These methods are incorporated into discharge permits as enforceable permit conditions. Each discharge permit will specify in Part IV of the permit, the test species specific methods from this document that will be required under the terms of the discharge permit. Although the test species specific methods for each permit are determined on a case-by-case basis, the purpose of this methods document is to assure consistency among dischargers and to provide certified laboratories with information on the universe of tests to be utilized so that they can make the necessary preparations, including completing the required Standard Reference Toxicant testing. Please note that these methodologies are required for compliance testing only. Facilities and/or laboratories conducting testing under the requirements of a Toxicity Identification Evaluation or for informational purposes are not bound by these methods.

This document constitutes the second version of the NJDEP's interim chronic methodologies. This version contains no significant changes to the test methods themselves. However, in keeping with the Department's continued emphasis on good laboratory practices and quality control, the areas addressing the Standard Reference Toxicant Program, data analysis and data reporting, have been significantly revised.

## II. GENERAL CONDITIONS

### A. LABORATORY SAFETY, GLASSWARE, ETC.

All safety procedures, glassware cleaning procedures, etc., shall be in conformance with 40 CFR 136 and USEPA's "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms" and N.J.A.C. 7:18.

### B. TEST CONCENTRATIONS / REPLICATES

All testing is to be performed with a minimum of five effluent concentrations plus a dilution water control. A second reference water control is optional when a dilution water other than culture water is used. The use of both a 0.5 or 0.75 dilution factor is acceptable for the selection of test concentrations. If hypothesis testing will be used to determine the test endpoint, one effluent concentration shall be the chronic permit limitation, unless the existing data for the discharge indicate that the NOEC is expected to be significantly less than the permit limit. The use of the 0.5 dilution factor may require more than five dilutions to cover the entire range of effluent concentrations as well as the chronic permit limit, since the permit limit will often not be one of the nominal concentrations in a 0.5 dilution series. In such an instance, the 0.5 dilution series may be altered by including an additional test concentration equal to the permit limit in the dilution series, or by changing the concentration closest to the permit toxicity limit to be equal to that limit. The Department recommends the use of the 0.75 dilution factor using Table 1.0 to determine test concentrations. That table establishes test concentrations based on the chronic toxicity limitation.

For either the 0.5 or 0.75 dilution factor, there shall be at least one test concentration above the permit limitation and at least three test concentrations below the permit limit along with the dilution water control unless the permit limitation prohibits such (e.g., limitations greater than 75% effluent). An effort shall be made to bracket the anticipated test result.

To use Table 1.0, locate the permit limit in column 4. The dilution series becomes the row that corresponds to the permit limit in column 4. For example, a permit limit of 41 would require a dilution series of the dilution water control, 17%, 23%, 31%, 41% and 55% effluent.

The number of replicates used in the test must, at a minimum, satisfy the specifications of the applicable methods contained herein. Increased data sensitivity can be obtained by increasing the number of replicates equally among test concentrations and thus an increased number of replicates is acceptable. Further, the use of nonparametric statistical analysis requires a minimum of four replicates per test concentration. If the data for any particular test is not conducive to parametric analyses and if less than four replicates were included, the test may not be considered acceptable for compliance purposes.

The use of single concentration tests consisting of the permit limitation as a concentration and a control is not permitted for compliance purposes, but may be used by a permittee in the conduct of a Toxicity Investigation Evaluation (TIE) or for information gathering purposes. Such a test would be considered a "pass" if there was no significant difference in test results, using hypothesis testing methods.

**Table 1.0: 0.75 DILUTION SERIES INDEXED BY PERMIT LIMIT**

			Permit Limit					Permit Limit			
Col #	1	2	3	4	5	Col #	1	2	3	4	5
	0.4	0.6	0.8	1	1.3		22	29	38	51	68
	0.8	1.1	1.5	2	2.7		22	29	39	52	69
	1.3	1.7	2.3	3	4		22	30	40	53	71
	1.7	2.3	3	4	5.3		23	30	41	54	72
	2.1	2.8	3.8	5	6.7		23	31	41	55	73
	2.5	3.4	4.5	6	8		24	32	42	56	75
	3	4	5	7	9		24	32	43	57	76
	3	5	6	8	11		24	33	44	58	77
	4	5	7	9	12		25	33	44	59	79
	4	6	8	10	13		25	34	45	60	80
	5	6	8	11	15		26	34	46	61	81
	5	7	9	12	16		26	35	47	62	83
	5	7	10	13	17		27	35	47	63	84
	6	8	11	14	19		27	36	48	64	85
	6	8	11	15	20		27	37	49	65	87
	7	9	12	16	21		28	37	50	66	88
	7	10	13	17	23		28	38	50	67	89
	8	10	14	18	24		29	38	51	68	91
	8	11	14	19	25		29	39	52	69	92
	8	11	15	20	27		30	39	53	70	93
	9	12	16	21	28		30	40	53	71	95
	9	12	17	22	29		30	41	54	72	96
	10	13	17	23	31		31	41	55	73	97
	10	14	18	24	32		31	42	56	74	99
	11	14	19	25	33		32	42	56	75	100
	11	15	20	26	35	24	32	43	57	76	
	11	15	20	27	36	24	32	43	58	77	
	12	16	21	28	37	25	33	44	59	78	
	12	16	22	29	39	25	33	44	59	79	
	13	17	23	30	40	25	34	45	60	80	
	13	17	23	31	41	26	34	46	61	81	
	14	18	24	32	43	26	35	46	62	82	
	14	19	25	33	44	26	35	47	62	83	
	14	19	26	34	45	27	35	47	63	84	
	15	20	26	35	47	27	36	48	64	85	
	15	20	27	36	48	27	36	48	65	86	
	16	21	28	37	49	28	37	49	65	87	
	16	21	29	38	51	28	37	50	66	88	
	16	22	29	39	52	28	38	50	67	89	
	17	23	30	40	53	28	38	51	68	90	
	17	23	31	41	55	29	38	51	68	91	
	18	24	32	42	56	29	39	52	69	92	
	18	24	32	43	57	29	39	52	70	93	
	19	25	33	44	59	30	40	53	71	94	
	19	25	34	45	60	30	40	53	71	95	
	19	26	35	46	61	30	41	54	72	96	
	20	26	35	47	63	31	41	55	73	97	
	20	27	36	48	64	31	41	55	74	98	
	21	28	37	49	65	31	42	56	74	99	
	21	28	38	50	67	32	42	56	75	100	

\* Select the dilution series by finding the row which contains the permit limit in column #4.  
NOTE: All values are in units of "% effluent" not toxic units.

## C. DILUTION WATER

### 1. Marine and Estuarine Waters

A high quality natural water, such as the Manasquan River Inlet is strongly recommended as the dilution water source for chronic toxicity testing with marine and estuarine organisms. The use of the receiving water as the dilution water source is not required. Saline waters prepared with hypersaline brine and deionized water may also be used as dilution water. Hypersaline brines shall be prepared from a high quality natural seawater and shall not exceed a concentration of 100 ppt. The type of a dilution water for a permittee may not be changed without the prior approval of the Department.

The standard test salinity shall be 25 ppt, except for *Champia parvula*, which shall be tested at 30 ppt. Since most effluents are freshwater based, in most cases it will be necessary to adjust the salinity of the test concentrations to the standard test salinity.

### 2. Fresh Waters

A high quality natural water, such as Round Valley Reservoir (if access is allowed) or Lake Hopatcong, is strongly recommended as the dilution water source for chronic toxicity testing with freshwater organisms. It is not required to perform the toxicity testing with the receiving water as dilution water. Tests performed with a reconstituted water or up to 20% Diluted Mineral Water (DMW) as dilution water is acceptable. For testing with *Ceriodaphnia dubia*, the addition of 5 µg/l selenium (2 µg/l selenium with natural water) and 1 µg/l vitamin B12 is recommended (Keating and Dagbusan, 1984; Keating, 1985 and 1988). The source of a dilution water for a permittee may not be changed without the prior approval of the Department. Reconstituted water and DMW should be prepared with Millipore Super Q<sup>R</sup> or equivalent, meet the requirements of N.J.A.C. 7:18-6 and should be aerated a minimum of 24 hrs prior to use, but not supersaturated.

## D. EFFLUENT SAMPLE COLLECTION

Effluent samples shall be representative of the discharge being regulated. For each discharge serial number (DSN), the effluent sampling location shall be the same as that specified in the NJPDES permit for other sampling parameters unless an alternate sampling point is specified in the NJPDES discharge permit. For industrial dischargers with a combined process/sanitary waste stream, effluent sampling shall be after chlorination, unless otherwise designated in the permit.

For continuous discharges, effluent sampling shall consist of 24 hour composite samples consisting either of equal volumes taken once every hour or of a flow-proportionate composite sample, unless otherwise approved by the Department. At a minimum, three samples shall be collected as specified above, one every other day. The first sample shall be used for test initiation and the first renewal. The second sample for the next two renewals. The third sample shall be used for the final three renewals. For the *Champia* and *Selenastrum* tests, a single sample shall be collected not more than 24 hours prior to test initiation. No effluent sample shall be over 72 hours old at the time of its use to initiate or renew solutions in a test. It is acceptable to collect samples more frequently for chronic WET testing and if samples are collected daily for acute toxicity testing conducted concurrently, available samples may be used to renew the test solutions as appropriate.

For all other types of discharges, effluent sampling shall be conducted according to specifications contained within the discharge permit, methodology questionnaire or as otherwise specified by the Department. The use of grab samples or other special sampling procedures will be based on time of occurrence and duration of intermittent discharge events.

If a municipal discharger has concerns that the concentrations of ammonia and/or chlorine in an effluent are adequate to cause violations of the permit limit for chronic toxicity testing, the permittee should conduct analyses, as specified in USEPA's toxicity investigation methods documents, to illustrate the relationship between chronic effluent toxicity and chlorine and/or ammonia as applicable. This data may then be submitted

to the Department as justification for a request to use modified test procedures, which account for ammonia and/or chlorine toxicity, in future chronic toxicity tests. The Department may, where adequate justification exists, permit the adjustment of these pollutants in the effluent sample if discharge limits for these pollutants are contained in the NJPDES permit and those permit limitations are adequate for the protection of water quality. Any proposed modified test procedures to adjust effluent chlorine and/or ammonia shall be approved by the Department prior to use of those test procedures for any compliance testing.

Except for filtration through a 2 mm or larger screen or an adjustment to the standard test salinity, no other adjustments to the effluent sample shall be made without prior written approval by the Department. Aeration of samples prior to test start shall be minimized where possible and samples shall not be aerated where adequate saturation exists to maintain dissolved oxygen.

## **E. PHYSICAL CHEMICAL MEASUREMENTS**

At a minimum, the physical chemical measurements shall be as follows:

- pH and dissolved oxygen shall be measured at the beginning and end of each 24 hour exposure period, in at least one chamber, of the high, medium and low test concentrations and the control. In order to ensure that measurements for these parameters are representative of the test concentrations during the test, measurements for these parameters should be taken in an additional replicate chamber for such concentrations which contains no test organisms, but is subject to the same test conditions.
- Temperature shall either be monitored continuously, measured daily in at least two locations in the environmental control system, or measured at the beginning of each 24 hr exposure period in at least one replicate for each treatment.
- Salinity shall be measured in all salt water tests at the beginning of each 24 hour exposure period, in at least one replicate for each treatment.
- For all freshwater tests, alkalinity, hardness and conductivity shall be measured in each new sample (100% effluent) and control.
- Nitrite, nitrate and ammonia shall be measured in the control before each renewal in the mysid test only.
- For samples of discharges where concentrations of ammonia and/or chlorine are known or are suspected to be sufficient to cause toxicity, it is recommended that the concentrations of these pollutants be determined and submitted with the standardized report form. The laboratory is advised to consult with the permittee to determine if these parameters should be measured in the effluent. Where such measurements are deemed appropriate, measurements shall be conducted at the beginning of each 24 hour exposure period. Also, since a rise in the test pH can affect the toxicity of ammonia in the effluent, analysis of ammonia during the test may be appropriate if a rise in pH is accompanied by a significant increase in mortality.

## **F. STATISTICS**

The use of both hypothesis testing techniques and point estimate techniques are currently in use by the Department or by permittees for compliance purposes. The NJPDES permit should be checked to determine which type of analysis is required and appropriate for each specific facility. It is not acceptable to simply evaluate any data by "visual data review" unless in the analysis of survival data, no mortality occurred in the test. All data sets must be appropriately statistically evaluated.

For hypothesis testing techniques, statistical analysis shall follow the protocols in USEPA (1988, 1989) to evaluate adverse effects. A significance level of 0.05 shall be utilized to evaluate such effects. Use of a protocol not contained in these documents must be accompanied by a reference and explanation addressing its

applicability to the particular data set. Please note the following when evaluating data using hypothesis testing techniques.

Special attention should be given to the omission and inclusion of a given replicate in the analysis of mysid fecundity data (USEPA 1994, p. 275) and *Ceriodaphnia* reproduction data (USEPA 1994, page 174).

Determination of acceptability criteria and average individual dry weight for the growth endpoints must follow the specifications in the applicable documents (e.g., p.84 for saltwater methods document.)

**Use of nonparametric statistical analyses requires a minimum of four replicates per test concentration. If the data for any particular test are not conducive to parametric analyses and if less than four replicates were included, the test may not be acceptable to the Department.**

Where hypothesis testing is used for compliance purposes, if the results of hypothesis testing indicate that a deviation from the dose response occurs such that two test concentrations are deemed statistically significant from the control but an intermediate test concentration is not, the test is deemed unacceptable and cannot be used for compliance testing purposes.

For point estimate techniques, statistical analysis should follow the protocol contained in "A Linear Interpolation Method for Sublethal Toxicity: The Inhibition Concentration (IC<sub>p</sub>) Approach (Version 2.0), July 1993, National Effluent Toxicity Assessment Center Technical Report 03-93." Copies of the program can be obtained by contacting the Department. The linear interpolation estimate IC<sub>p</sub> values and not the bootstrap mean IC<sub>p</sub>, shall be reported for permit compliance purposes. The IC<sub>p</sub> value reported on the Discharge Monitoring Report shall be rounded off as specified in the Department's "Discharge Monitoring Report (DMR) Instruction Manual, December 1993." IC<sub>25</sub> values shall be reported under the parameter code listed as "NOEC" on the DMR, until the DMR's are adjusted accordingly.

If the result reported by the IC<sub>p</sub> method is greater than the highest concentration tested, the test result is reported as "greater than C" where "C" is the highest tested concentration. If the IC<sub>p</sub> is lower than the lowest concentration tested, the test result is reported as "less than C" where "C" is the lowest tested concentration.

If separate NOEC's/IC<sub>25</sub>'s can be calculated from multiple test endpoints, for example a reproductive endpoint and a growth endpoint, the lowest NOEC/IC<sub>25</sub> value expressed in units of "% effluent" will be used to determine permit compliance and should, therefore, be reported as the NOEC/IC<sub>25</sub> value for the test. If the NOEC value for growth and/or reproduction is not lower than that for survival, the NOEC/IC<sub>25</sub> value reported for the test shall be as survival. For saltwater tests, where additional controls are used in a test (i.e. brine and/or artificial sea salt control), a T-test shall be used to determine if there is a significant difference between the original test control and the additional controls. If there is a significant difference between any of the controls, the test may be deemed unacceptable and if so, will not be used for permit compliance.

### III. TEST ACCEPTABILITY CRITERIA

Any test that does not meet these acceptability criteria will not be used by the Department for any purpose and must be repeated as soon as practicable, with a freshly collected sample.

1. Tests must be performed by a laboratory approved for the conduct of chronic toxicity tests and certified for acute toxicity testing under N.J.A.C. 7:18.
2. Test results may be rejected due to inappropriate sampling, including the use of less than three effluent samples in a test and/or use of procedures not specified in a permit or methodology questionnaire, use of frozen or unrefrigerated samples or unapproved pretreatment of an effluent sample.
3. Controls shall meet the applicable performance criteria specified in the Table 2.0 and in the individual method specifications contained herein.
4. Acceptable and applicable Standard Reference Toxicant Data must be available for the test.
5. No unapproved deviations from the applicable test methodology may be present.
6. When using hypothesis testing techniques, a deviation from the dose response as explained in the statistical portion of this document shall not be present in the data.

Table 2.0: CONTROL PERFORMANCE

TEST ORGANISM	MINIMUM SURVIVAL	MINIMUM WEIGHT GAIN	MINIMUM FECUNDITY/ REPRODUCTION
<i>Pimephales promelas</i>	80%	0.25 mg avg	N/A
<i>Ceriodaphnia dubia</i>	80%	N/A	Average of $\geq 15$ young per surviving female
<i>Selenastrum capricornutum</i>	Density $\geq 2 \times 10^5$ cells/ml	N/A	Variability in controls not to exceed 20%.
<i>Cyprinodon variegatus</i>	80%	0.60 mg (unpreserved) avg 0.50 mg (preserved) avg	N/A
<i>Menidia beryllina</i>	80%	0.50 mg (unpreserved) avg 0.43 mg (preserved) avg	N/A
<i>Mysidopsis bahia</i>	80%	0.2 mg per mysid avg	egg production by 50% of control females if fecundity is used as an endpoint.
<i>Champia parvula</i>	100%	N/A	$\geq 10$ cystocarps per plant Plants in controls and lower test concentrations shall not fragment so that individual plants cannot be identified.

THE DETERMINATION OF A TEST AS UNACCEPTABLE DOES NOT RELIEVE THE FACILITY FROM MONITORING FOR THAT MONITORING PERIOD



## IV. STANDARD REFERENCE TOXICANT TESTING

All chronic testing shall be accompanied by testing with a Standard Reference Toxicant (SRT) as a part of each laboratory's internal quality control program. Such a testing program should be consistent with the quality assurance/quality control protocols described in the USEPA chronic testing manuals. Laboratories may utilize the reference toxicant of their choice and toxicants such as cadmium chloride, potassium chloride, sodium dodecyl sulfate and copper sulfate are all acceptable. However, Potassium chloride has been chosen by several laboratories and is recommended by the Department. The concentration of the reference toxicant shall be verified by chemical analysis in the low and high test concentrations once each year or every 12 tests, whichever is less. It is not necessary to run SRT tests, for all species using the same SRT.

### A. INITIAL STANDARD REFERENCE TOXICANT (SRT) TESTING REQUIREMENTS

At a minimum, this testing shall include an initial series of at least five SRT tests for each test species method. Acceptable SRT testing for chronic toxicity shall be performed utilizing the short term chronic toxicity test methods as specified herein. Reference toxicant tests utilizing acute toxicity testing methods, or any method other than those contained in this document are not acceptable. The laboratory should forward results of the initial SRT testing, including control charts, the name of the reference toxicant utilized, the supplier and appropriate chemical analysis of the toxicant to either address listed in the reporting requirements section herein. The initial series of a least five SRT tests for a specific test species method shall be completed and approved in writing by the Department prior to the conduct of any chronic toxicity testing for compliance purposes.

### B. SUBSEQUENT SRT TESTING REQUIREMENTS

After receiving the initial approval from the Department to conduct chronic toxicity tests for compliance purposes, subsequent SRT testing shall be conducted as follows:

1. Where organisms used in testing are cultured at the testing laboratory, SRT testing should be conducted once per month for each species/method.
2. Where the laboratory purchases organisms from a laboratory certified in New Jersey for the conduct of acute toxicity testing and approved for the conduct of chronic toxicity testing for the test organism in question (i.e. the "supplier laboratory"), SRT data provided by the "supplier laboratory" for each lot of organisms purchased is acceptable as long as the SRT test result falls within the control limits of the control chart established by the "supplier laboratory" for that organism. The laboratory using purchased organisms is responsible for the results of any compliance tests they perform.
3. A testing laboratory purchasing organisms from a supplier laboratory must still perform SRT testing on a quarterly basis at a minimum, for each species they test with, in order to adequately document their own interlaboratory precision.
4. If a testing laboratory purchasing organisms elects not to use the SRT data from a "supplier laboratory" or such data is unavailable or where organisms are purchased from another organism supplier, the testing laboratory must conduct SRT testing on each lot of organisms purchased.
5. For industrial laboratories certified under N.J.A.C. 7:18 to conduct acute toxicity tests, only the SRT testing conditions specified in 2. through 4. above apply. Where that laboratory/facility cultures their own test organisms, the frequency of SRT testing required will be determined on a case by case basis, based on the frequency of testing for that facility.

NOTE: Based on these requirements, SRT data are considered applicable to a compliance test when the SRT test results are acceptable and the SRT test is conducted within 30 days of the compliance test, for the test species and SRT in question. Therefore, it is not necessary for an approved laboratory to run an SRT test every month if the laboratory is not conducting compliance tests for a particular species.

### **C. CHANGING OF AN ESTABLISHED REFERENCE TOXICANT**

The SRT used for any species by a laboratory may be changed at any time provided that the following conditions have been satisfied:

1. A series of at least three reference toxicant tests are conducted with the new reference toxicant and the results of those tests are identified as satisfactory, in writing, by the Department.
2. Laboratories must continue using the already approved SRT in their ongoing QA/QC program, until such time as the letter referenced above, is received by the laboratory.

### **D. CONTROL CHARTS**

Control charts shall be established from SRT test results in accordance with the procedures outlined in the USEPA methods documents. Control charts shall be constructed using IC25's using the following methods:

1. The upper and lower control limits shall be calculated by determining +/- two standard deviations above and below the mean.
2. SRT test results which exhibit an IC25 that is greater than the highest concentration tested or less than the lowest concentration tested (i.e. a definitive endpoint cannot be determined), shall not be used to establish control charts.
3. SRT tests which do not meet the acceptability criteria for a specific species shall not be used to establish control charts.
4. All values used in the control charts should be as nominal concentrations. However, the control charts shall be accompanied by a chart tabulating the test results as measured concentrations.
5. An outlier (i.e. values which fall outside the upper and lower control limits) should be included on the control chart unless it is determined that the outlier was caused by factors not directly related to the test organisms (e.g., test concentration preparation) as the source of variability would not be directly applicable to effluent tests. In such case, the result and explanation shall be reported to the Department within 30 days of the completion of the SRT test.

The control chart established for the initial series of SRT data submitted will be used by the laboratory and the Department to determine outliers from SRT test results reported in the "NJPDES Biomonitoring Report Form - Chronic Toxicity Test" submitted by the permittees for the test species. These initial control limits will remain unchanged until twenty SRT tests have been completed by the laboratory.

The following procedures shall be used for continually updating control charts after twenty acceptable SRT tests have been completed:

1. Once a laboratory has completed twenty acceptable SRT tests for a test species, the upper and lower control limits shall be recalculated with those twenty values.
2. For each successive SRT test conducted after these first twenty tests, a moving average shall be calculated and the control limits reevaluated using the last twenty consecutive test results.
3. The upper and lower control limits shall be reported on the "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" along with the SRT test result.

#### **E. UNACCEPTABLE SRT TEST RESULTS**

If a laboratory produces any SRT test results which are outside the established upper and lower control limits for a test species at a frequency greater than one test in any ten tests, a report shall be forwarded to the Department at the address contained herein. This report shall include any identified problem which caused the values to fall outside the expected range and the corresponding actions that have been taken by the laboratory. The Department may not accept or may require repeat testing for any toxicity testing that may have been affected by such an occurrence.

If a laboratory produces two consecutive SRT test results or three out of any ten test results which are outside the established upper and lower limits for a specific test species, the laboratory shall be unapproved to conduct chronic toxicity tests for compliance purposes for that test species. Reapproval shall be contingent upon the laboratory producing SRT test results within the established upper and lower control limits for that test species in two consecutive SRT tests. If one or both of those test results again fall outside the established control levels, the laboratory is unapproved for that test species until five consecutive test results within the established upper and lower control limits are submitted and approved by the Department.

#### **F. ANNUAL SUBMITTALS**

Control charts shall be forwarded to the Department on an annual basis, on the anniversary of approval for the test species.

The Department may request, at any time, any information which is essential in the evaluation of SRT results and/or compliance data.

## V. TEST CANCELLATION / RESCHEDULING EVENTS

A lab may become aware of QA problems during or immediately following a test that will prevent data from being submitted or a lab may be unable to complete a tests due to sample collection or shipping problems. If for any reason a chronic toxicity test is initiated and then prematurely ended by the laboratory or at the request of the permittee, the laboratory shall submit the form entitled "Chronic Whole Effluent Toxicity Testing Test Cancellation / Rescheduling Event Form" contained herein. This form shall be used to detail the reason for prematurely ending the test. This completed form and any applicable raw data sheets shall be submitted to the appropriate biomonitoring program at the address above within 30 days of the cessation of the test.

Tests are considered to be initiated once test organisms have been added to all test chambers.

Submission of this form does not relieve the facility from monitoring for that monitoring period.

## VI. REPORTING

The report form entitled "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" should be used to report the results of all NJPDES chronic compliance biomonitoring tests. Laboratory facsimiles are acceptable but must contain all information included on any recent revisions of the form by the Department. Statistical printouts and raw data sheets for all endpoints analyzed shall be included with the report submitted to the Department. One copy of the chronic toxicity test report form shall be submitted to the following address as applicable:

New Jersey Department of Environmental Protection  
Bureau of Surface Water Permitting  
Division of Water Quality  
401 East State Street  
Mail Code 401-02B  
Trenton, NJ 08625-420

It is not necessary to attach a copy of a test report form to the Discharge Monitoring Report (DMR) form when submitting this form to the Department. However, the results of all chronic toxicity tests conducted for compliance purposes must be reported on the DMR form under the appropriate parameter code in the monitoring period in which the test was conducted.

## VII. METHOD SPECIFICATIONS

The following method specifications shall be followed as specified in the NJPDES permit. Any changes to these methods will not be considered acceptable unless they are approved in writing by the Department, prior to their use.

- A. Fathead Minnow (*Pimephales promelas*), Larval Survival and Growth Test, method 1000.0
- B. *Ceriodaphnia dubia*, Survival and Reproduction Test, method 1002.0
- C. Algal, (*Selenastrum capricornutum*), Growth Test, method 1003.0
- D. Sheepshead Minnow (*Cyprinodon variegatus*), Larval Survival and Growth Test, method 1005.0
- E. Inland Silverside (*Menidia beryllina*), Larval Survival and Growth Test, method 1006.0
- F. *Mysidopsis bahia*, Survival, Growth, and Fecundity Test, method 1007.0
- G. *Champia parvula*, Sexual Reproduction Test, method 1009.0

## VIII. REFERENCES

1. Keating, K. 1985. The influence of Vitamin B12 deficiency on the reproduction of Daphnia pulex Leydig (Cladocera). *J. Crustacean Biology* 5:130-136.
2. Keating, K. 1988. N.J.D.E.P. Project C29589, Fiscal 1988 Third Quarter Summary Report. Producing Nutritionally Competent Daphnids for Use in Bioassay. 44p.
3. Keating, K., and B. Dagbusan. 1984. Effect of selenium deficiency on cuticle integrity in Cladocera (Crustacea). *Proc. Natl. Acad. Sci. USA* 81:3433-3437.
4. NJDEP, 1993. Discharge Monitoring Report (DMR) Instruction Manual.
5. USEPA. 1994. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA-600/4-91-003. July 1994. Second Edition.
6. USEPA. 1994. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA/600/4-91/002. July 1994. Third Edition.

New Jersey Department of Environmental Protection  
Bureau of Surface Water Permitting  
ATTN: BIOMONITORING PROGRAM  
Division of Water Quality  
401 East State Street  
Mail Code 401-02B  
Trenton, NJ 08625-420

**CHRONIC WHOLE EFFLUENT TOXICITY TESTING  
TEST CANCELLATION / RESCHEDULING EVENT FORM**

**THIS FORM IS TO BE COMPLETED AND SUBMITTED TO THE DEPARTMENT DIRECTLY BY THE  
LABORATORY CONDUCTING CHRONIC TOXICITY TESTS WHENEVER A CHRONIC TOXICITY TEST  
IS PREMATURELY ENDED FOR ANY REASON**

NJPDES No.: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_

**CANCELLATION EVENT:**

LABORATORY NAME / NUMBER: \_\_\_\_\_

CONTACT: \_\_\_\_\_

TEST START DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

TEST END DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

REASON FOR CANCELLATION: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**EFFLUENT SAMPLING:**

SAMPLING POINT / DESCRIPTION OF SAMPLING SITE: \_\_\_\_\_

SAMPLING INITIATED: DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ TIME: \_\_\_\_\_

SAMPLING ENDED: DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ TIME: \_\_\_\_\_

NUMBER OF EFFLUENT SAMPLES COLLECTED: \_\_\_\_\_

SAMPLE TYPE (GRAB/COMPOSITE): \_\_\_\_\_

RECEIVED IN LAB BY/FROM: \_\_\_\_\_

METHOD OF SHIPMENT: \_\_\_\_\_

(ALL APPLICABLE RAW DATA SHEETS MUST BE ATTACHED)

c: Permittees authorized agent.