State of New Jersey

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Governor

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Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SHAWN M. LATOURETTE
Commissioner

Email Only
October 26, 2022

To: Distribution List

Re: Final RENEWAL Discharge to Surface Water (DSW) Consolidated Master General Permit
Category: ASC - School General Permit (GP)
NJPDES Permit No. NJ0193381
NJPDES Master General Permit Program Interest

Dear Interested Parties:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. This master general permit serves to renew the existing Master Consolidated School General Permit (Category ASC) which authorizes the discharge of treated and disinfected domestic wastewater from 22 schools into the surface waters of the State of New Jersey. These sites are similar with respect to several factors such as: the flow fluctuates on a seasonal basis; the flow quantities are small (generally less than 0.05 MGD); and there is no off-site contribution.

The NJPDES draft Surface Water Master General Permit Renewal No. NJ0193381 was issued on July 28, 2022. Notice of the draft action appeared in seven newspapers to represent all applicable New Jersey counties and was published in the July 20, 2022 *DEP Bulletin* as available here: http://www.state.nj.us/dep/bulletin. The Public Notice was published in *The Record*, *Burlington County Times*, *The Democrat*, *Daily Record*, *The Herald News*, *The New Jersey Herald* and *The Express Times*. The public comment period ended on October 7, 2022 and comments were received on the NJPDES draft permit action. A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16.

Individual authorizations will be issued for the following facilities under this master general permit:

	NJPDES Permit No.	Facility	Permitted Flow (MGD)
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	0.05
10	NJG0023001	Salvation Army Camp Tecumseh	0.018

	NJPDES Permit No.	Facility	Permitted Flow (MGD)
11	NJG0023175	Round Valley Middle School	0.009
12	NJG0023311	Kingwood Township School	0.0048
13	NJG0023841	Lounsberry 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

Upon issuance, individual renewal authorizations will become effective on January 1, 2023. Until such time as the new permit takes effect, the existing permit conditions will continue to remain in full force and effect pursuant to N.J.A.C. 7:14A-2.8. Note that the address contained in Part II.B.11 has been revised from the July 28, 2022 draft permit action.

As per N.J.A.C. 7:14A-4.2(e)3, any person planning to continue discharging after the expiration date of an existing NJPDES permit shall file an application for renewal at least 180 calendar days prior to the expiration of the existing permit.

All monitoring shall be conducted in accordance with 1) the Department's "Field Sampling Procedures Manual" applicable at the time of sampling (N.J.A.C. 7:14A-6.5(b)4), and/or 2) the method approved by the Department in Part IV of the permit. The Field Sampling Procedures Manual is available at http://www.nj.gov/dep/srp/guidance/fspm/.

Questions or comments regarding the final action should be addressed to Tara Klimowicz or Kevin Johnson either by phone at (609) 292-4860 or email at tara.klimowicz@dep.nj.gov or kevin.johnson@dep.nj.gov.

Sincerely,

Susan Rosenwinkel

Susan Rosenwinkel
Bureau Chief
Bureau of Surface Water & Pretreatment Permitting

Enclosures

cc: Permit Distribution List
Masterfile #: 39609; PI #: 50577

Table of Contents for the Final Permit

This permit package contains the items below:

List of Acronyms

ACR	Acute to Chronic Ratio
AL	Action Level
AML	Average Monthly Limitation
BMP	Best Management Practices
BPJ	Best Professional Judgement
CAP	Capacity Assurance Program
CFR	Code of Federal Regulations
CV	Coefficient of Variation
CWEA/CWA	Clean Water Enforcement Act/Clean Water Act
Department	New Jersey Department of Environmental Protection
DGW	Discharge to Groundwater
DMR	Discharge Monitoring Report
DRBC	Delaware River Basin Commission
DSN	Discharge Serial Number
DSW	Discharge to Surface Water
EDP/M	Effective Date of the Permit/Permit Modification
EEQ	Existing Effluent Quality
ELG	Effluent Limitation Guideline
g/d or g/day	Grams per Day
IEC	Interstate Environmental Commission
IPP	Industrial Pretreatment Program
kg/d or kg/day	Kilograms per Day
LTA	Long Term Average
MA1CD10 or 1Q10	Minimum average one day flow with a statistical recurrence interval of ten years
MA7CD10 or 7Q10	Minimum average seven consecutive day flow with a statistical recurrence interval of ten years
MA30CD5 or 30Q5	Minimum average 30 consecutive day flow with a statistical recurrence interval of five years
mg/L	Milligrams per Liter
MDL	Maximum Daily Limitation
MGD	Million Gallons per Day
MRF	Monitoring Report Form
NAICS	North American Industry Classification System
NPDES/NJPDES	National/New Jersey Pollutant Discharge Elimination System
NJR	New Jersey Register
PCB	Polychlorinated Biphenyls
PMP	Pollutant Minimization Plan
POTW	Publicly Owned Treatment Works
RPMF	Reasonable Potential Multiplying Factor
RTR	Residuals Transfer Report
RQL	Recommended Quantification Levels
RWBR	Reclaimed Water for Beneficial Reuse
SIC	Standard Industrial Classification
SIU	Significant Indirect User
SQAR	Sludge Quality Assurance Regulations
SWQS	Surface Water Quality Standards
TMDL	Total Maximum Daily Load
TR	Total Recoverable
TRIR	Toxicity Reduction Implementation Requirements
USEPA TSD	USEPA Technical Support Document for Water Quality Based Toxics Control (EPA/505/2-90-001, March 1991)
µg/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UV	Ultraviolet
WCR	Wastewater Characterization Report
WER	Water Effects Ratio
WLA	Wasteload Allocation
WWTP	Wastewater Treatment Plant
WQBEL	Water Quality Based Effluent Limitation

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

RESPONSE TO COMMENTS

Comments were received on the NJPDES draft Surface Water Master General Permit Renewal No. NJ0193381 issued on July 28, 2022. The Public Notice was published in *The Record*, *Burlington County Times*, *The Democrat*, *Daily Record*, *The Herald News*, *The New Jersey Herald* and *The Express Times*. The public notice was originally set to close on September 26, 2022. Both Kingwood Township School and Round Valley Middle School requested an extension to the public comment period via e-mail on September 15, 2022. The Department granted the extension to the public comment period via e-mail on September 16, 2022. As a result, the public comment period for all permittees ended on October 7, 2022.

A summary of the timely and significant comments received, the New Jersey Department of Environmental Protection's (the Department's) responses to these comments, and an explanation of any changes from the draft action have been included below.

The following persons commented during the public comment period:

A. Jens Riedel, Managing Engineer, Natural Systems Utilities (NSU) submitted comments for Warren County Technical School Sewage Treatment Plant (NJG0020711) in an e-mail dated August 3, 2022.

1. COMMENT:
Incorrect treatment unit listed, Master ASC Permit Summary Tables, page 4 of 66

On page 42 of the permit draft PDF, Treatment Unit #7 should read Post Aeration not Aeration Tower. The Aeration Tower has been removed. For reference, an updated flow schematic for the facility has been provided.

RESPONSE:

The Department acknowledges that an incorrect treatment unit was listed in the Facility Description section of the Individual Permit Summary Table (PST) for Warren County Technical School Sewage Treatment Plant - NJG0020711. As a result, the correct treatment unit (Post Aeration) has been included in the PST of the Final Master ASC Renewal Permit. Additionally, the updated flow schematic will be included in the renewal individual general permit authorization for NJG0020711.

No additional changes are necessary as a result of this comment.

B. James F. Cosgrove, Vice President/Principal, Kleinfelder submitted comments for Kingwood Township School Wastewater Treatment Plant (NJG0023311) in a letter dated September 30, 2022.

1. COMMENT:
Zinc Limits

Zinc effluent limits are proposed because there was one effluent total zinc result reported as 345 mg/L (equivalent to 290.2 mg/L dissolved zinc) in May 2020, which exceeded the calculated waste load allocation (WLA; 228 mg/L dissolved). We have completed a statistical analysis of the 20 zinc effluent data points available since January 2017 and results are provided in Table 1 within the comments.

At a 99% confidence level, the 345 mg/L result is statistically significantly different from the other values. In fact, the next highest zinc concentration is 178 mg/L (equivalent to 149.7 mg/L dissolved zinc), well below the 228 mg/L dissolved WLA.

Based on these findings, removing the outlier results in a demonstration that the maximum observed zinc value (149.7 mg/L dissolved) does not cause a violation of the surface water quality standard. Therefore, we request that the zinc effluent limits be removed from the final permit.

RESPONSE:

As noted in this comment and as described in the Draft Master ASC Fact Sheet, this permit action includes effluent limitations for Total Recoverable (TR) Zinc for Kingwood Township School where these limitations were deemed appropriate based on a cause analysis. As a result, a new water quality based effluent limitation WQBEL was proposed in the draft permit for TR Zinc in accordance with N.J.A.C. 7:14A-13.6(a). The Department utilized the WQBEL and End-Of-Pipe Limitation Analysis Calculation Sheet in order to determine the final limitations. Note that data from site-specific studies previously performed by the permittee were utilized in this calculation namely a site-specific hardness value of 227 mg/L of CACO3 and a site-specific translator of 0.841. Further, the Department requested copies of the analytical laboratory sheets in order to verify that the individual data points were correctly reported on the monthly monitoring report forms. The Department compared Table 1 to the effluent data and notes that the units in Table 1 are stated as mg/L whereas data in the Fact Sheet and on monthly monitoring report forms is specified in ug/L.

While not discussed within the Fact Sheet, an outlier test was performed on Kingwood's Zinc effluent data. The analysis indicated that there is **no** outlier at the 95% CI under the Log-N distribution of the sampling events.

The Department acknowledges the commentor's concern regarding the new effluent limitations for TR Zinc. However, the effluent values of 178 ug/L; 150 ug/L and 124 ug/L are not typical of effluent from a school and are comparable to the WLA of 228 ug/L. Given the low volume of flow (0.002 MGD from January 2017 to June 2021), it is suggested that treatment enhancements for solids removal be considered which could also reduce zinc levels. In the event that treatment improvements are made and there is a change in effluent characteristics, the Department would be willing to revisit the WQBEL calculation, consistent with Part IV.G.3.b, and modify the permit if appropriate. Note that these effluent limitations do not come into effect until the Final Phase. This should allow adequate time to collect new data that is representative of any treatment enhancements.

No change to the final permit has been made as a result of this comment.

2. COMMENT:
Ammonia Limits

In the Fact Sheet, page 11 of 33, the existing ammonia effluent limits for the Kingwood Township School WWTP are incorrectly stated as 2 mg/L monthly average and 3 mg/L weekly average in both the summer and winter. However, in the permit Summary Table, page 35 of 66, the ammonia effluent limits are correctly stated as 6 mg/L monthly average and 10 mg/L daily maximum in both the summer and winter. We request that the Fact Sheet be corrected so that the correct limits of 6 mg/L monthly average and 10 mg/L daily maximum are provided.

RESPONSE:

The commentor is correct. The Draft Master ASC Fact Sheet included incorrect summer and winter ammonia effluent limitations for Kingwood Township School – NJG0023311. A corrected portion of the Fact Sheet is shown as follows (additions shown with underline, deletions shown with strikethrough):

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	Daily Maximum	Monthly Average	Daily Maximum
NJG0023311	6 (0.11) ~~2 (0.04)~~	10 (0.18) ~~(a) 3 (0.055)~~	6 (0.11) ~~3 (0.055)~~	10 (0.18) ~~(a) 4 (0.07)~~

As stated in the comment, the Individual PST for NJG0023311, in the Draft Master ASC Permit, included the correct summer and winter ammonia effluent limitations. While the Department acknowledges the error in the Fact Sheet, it does not alter any of the Master ASC permit requirements. Since the Fact Sheet is not part of the final permit, this Response to Comments document serves to amend the administrative record.

No additional changes are necessary as a result of this comment.

C. Michele McCann, Kingwood Township School Business Administrator, Kingwood Board of Education submitted comments for Kingwood Township School Wastewater Treatment Plant (NJG0023311) in a letter dated October 6, 2022.

1. COMMENT:
Zinc Limits

Zinc effluent limits are proposed because there was one effluent total zinc result reported as 345 mg/L, in May 2020, which exceeded the calculated wasteload allocation. This was during the pandemic and the building was in such limited use the validity of the data is in question. Upon review of the permit levels the Department questioned the lab report and the amount. Of the 20 or so data points where Zinc was tested this data is an outlier. In fact, the next highest zinc concentration is 178 mg/L, well below the 228 mg/L dissolved WLA. Based on these findings, removing the outlier results in a demonstration that the maximum observed zinc value does not cause a violation of the surface water quality standard. Therefore, we request that the zinc effluent limits remain a monitor and report with semi-annual testing in the final permit.

RESPONSE:

As discussed in Response B.1 above, the Department performed an outlier test and determined that this value does not qualify as an outlier. However, as a separate matter, the Department acknowledges that the pandemic may have resulted in unusual operating conditions. The permittee can submit additional justification to support this contention and why the data is not representative of normal operating conditions. The Department will evaluate that justification and issue a subsequent permit action if appropriate.

No change to the final permit has been made as a result of this comment.

2. COMMENT:
Ammonia Limits

In the Fact Sheet, page 11 of 33, the existing ammonia effluent limits for the Kingwood Township School Wastewater Treatment Plant are incorrectly stated as 2 mg/L monthly average and 3 mg/L weekly average in both the summer and winter. However, in the permit Summary Table, page 35 of 66, the ammonia effluent limits are correctly stated as 6 mg/L monthly average and 10 mg/L daily maximum in both the summer and winter. We request that the Fact Sheet be corrected so that the correct limits of 6 mg/L monthly average and 10 mg/L daily maximum are provided.

RESPONSE:

Please see B.2. response above.

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:	N/A
Via :	Via unnamed Tributary	Receiving River Basin:	Delaware River Basin (Zone1D)
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:	Chlordane in Fish Tissue, Biological (Cause Unknown), Mercury in Fish Tissue, PCBs in Fish Tissue
Outfall Description			
Outfall Configuration:	Non-submerged pipe		

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

*The United States Geological Survey (USGS) records reference the receiving stream as the Pequest River tributary.

3 Permit Summary Table and Permit Requirements (NJG0020419):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0023 0.033	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.015 0.015 8/31	0.94 1.4	0.94 1.4	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	2.86 2.70 5/34	25 37.5	25 37.5	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	268.96 268.96 38/1	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	97	90	90	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.015 0.015 22/17	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.05 3.05 26/13	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	345.86 345.86	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	90.1	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	441.1 1000.0 17/0	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	--	1/6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	23.4 91.9	MR MR	MR MR	1/Year	1/6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. # Det. / # ND	0.03 18/1	MR TMDL	MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. # Det. / # ND	0.398 16/1	1.0 TMDL	1.0 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max. # Det. / # ND	21.33 42.00 3/30	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Monthly Avg Daily Avg. Min.	9.09 9.14	5.0 6.0	5.0 6.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	18.00 193.0 4/13	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 11.7 25.0	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.21 8.14	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	0.0045 0.01 6/10	0.13 0.19	0.13 0.19	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.10 2.50 6/10	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	0.01 0.02 8/15	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	2.23 5.80 10/13	4.7 6.9	4.7 6.9	1/Month	1/Month
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	21.2	61	61	1/Year	1/Year

Footnotes and Abbreviations (NJG0020419):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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. Post Aeration (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 (Zone 1E)
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:	Arsenic, Biological (Cause Unknown), pH, Phosphorus, TSS
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	2.6 cfs,	MA7CD10 (7Q10) summer:	2.9cfs
MA7CD10 / 7Q10:	2.9 cfs,	MA7CD10 (7Q10) winter:	4.7.cfs
75^{th} percentile flow:	9.4 cfs	MA30CD10 (30Q10) summer:	3.4cfs
		MA30CD10 (30Q10) winter:	6.3cfs

3 Permit Summary Table and Permit Requirements (NJG0020711):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	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 Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.064 0.066 44/11	1.14 1.14	1.14 1.14	1 / Month	1 / Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	8.01 8.16 30/25	25 25	25 25	1 / Month	1 / Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	292.13 292.13 55/0	MR MR	MR MR	1 / Month	1 / Month
BOD_5 Min Percent Removal	%	Monthly Avg.	97.24	90	90	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.08 0.08 43/12	1.36 2.04	1.36 2.04	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	8.49 9.14 29/26	30 45	30 45	1 / Month	1 / Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	392.91 392.91 55/0	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum Percent Removal	%	Monthly Avg. # Det. / # ND	80.90 55/0	85	85	1 / Month	1 / Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	394.21 630.00 19/0	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.53 1.24 5/0	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	49.74 101.00 5/0	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. # Det. / # ND Weekly Avg. # Det. / # ND	0.05 19/0 0.05 20/0	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. # Det. / # ND Weekly Avg. # Det. / # ND	3.94 19/0 3.94 20/0	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max. # Det. / # ND	93.24 920.00 17/30	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg. # Det. / # ND	6.10 9.20 55/0	5.0 6.0	5.0 6.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	5.45 5.70 2/17	10 15	10 15	1 / Quarter	1 / Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.20 14.14 30.90	MR MR MR	MR MR MR	1 / Day	1 / Day

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Effluent pH	su	Instant. Min. Instant. Max. # Det. / # ND	6.00 8.60 55/0	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	0.003 0.03 26/1	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	0.33 1.58 24/3	20 MR	20 MR	1 / Month	1 / Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.009 0.13 27/1	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	0.774 8.75 27/1	20 MR	20 MR	1 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0002 0.003 55/0	MR 0.005	MR 0.005	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.02 0.09 55/0	MR 0.1	MR 0.1	1 / Day	1 / Day
Acute Toxicity, LC50 *Pimephales promelas*	%	Minimum	>100	50 AL	50 AL	1 / Year	1 / Year

Footnotes and Abbreviations (NJG0020711):

MR Monitor and report only AL Action Level SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

Jefferson Township High-Middle School - NJG0021091

1 Facility Description:

NJPDES Flow Value: 0.0275 MGD

Treatment Units:
1. Comminutor
2. Aerated equalization tank
3. Aeration tank
4. Clarifier
5. Tertiary sand filters
6. Ultraviolet disinfection chamber
7. Post aeration tank

Sludge Management: Sludge removed from the clarifier is transferred to an aerobic digester before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water*:	Russia Brook	Downstream Confluences:	Russia Brook, Lake Swannanoa
Via :	Unnamed Tributary (locally known as Edison Brook)	Receiving River Basin:	Passaic River Basin
Classification:	FW2-TM (C1)	Watershed Management Area:	06
Latitude:	41° 01’ 05.3”	Watershed:	Rockaway River
Longitude:	74° 32’ 59.7”	Subwatershed:	Russia Brook (below Milton)
County:	Morris	14 digit Hydrologic Unit Code:	02030103030020
Municipality:	Jefferson Township	Water Quality Impairments:	Temperature
Outfall Description			
Outfall Configuration:	headwall		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.1 cfs	MA7CD10 (7Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA7CD10 (7Q10) winter:	0.2 cfs
75th percentile flow (f):	0.4 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.3 cfs

*The USGS records reference the receiving stream as the Russia Brook tributary.

3 Permit Summary Table and Permit Requirements (NJG0021091):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.01 0.03	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.084 0.102 38/16	0.85 1.25	0.85 1.25	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	2.65 2.65 33/21	8 12	8 12	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	154.36 154.36 54/0	MR MR	MR MR	1/Month	1/Month
$CBOD_5$ Min Percent Removal	%	Monthly Avg. # Det. / # ND	92 52/2 (>)	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.16 0.23 49/5	3.1 4.7	3.1 4.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.47 6.47 47/7	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	357.11 357.11	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg. # Det. / # ND	65 53/1	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	1.14 5.11 13/0	MR MR	MR MR	1/Year	1/6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	36.01 70.90 13/0	MR MR	MR MR	1/Year	1/6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.004 0.005 35/7	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.12 0.11 34/8	1.0 1.5 TMDL	1.0 1.5 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	12.69 2420.00 17/16	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min	9.83 6.86	6.0 5.0	6.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	1.82 2.50 7/9	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.20 16.08 30.90	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.16 8.73	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. # Det. / # ND	0.0047 0.0059 17/9	0.2 0.3	0.2 0.3	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.14 0.14 15/11	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. # Det. / # ND	0.0085 0.0101 20/8	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. # Det. / # ND	0.22 0.22 19/9	4.0 5.8	4.0 5.8	1/Month	1/Month
Total Recoverable Copper	mg/L	Monthly Avg. Daily Max. # Det. / # ND	78.87 297 4/0	MR --	MR MR	1/Year (WCR)	1 / 6 Months (DMR)
Chronic Toxicity, IC25, *Ceriodaphnia dubia*	% effluent	Minimum	24	18	18	1/Year	1/Year

Footnotes and Abbreviations (NJG0021091):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

Arthur Stanlick School - NJG0021105

1 Facility Description:

NJPDES Flow Value: 0.007095 MGD

Treatment Units:
1. Trash trap tank
2. Raw wastewater equalization tank
3. Membrane bioractor (MBR)
4. Ultraviolet (UV) disinfection
5. Post-aeration tank
6. Chemical addition facilities for alum, methanol and sodium hydroxide (added to MBR as needed)

Sludge Management: 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*:	Lake Shawnee	Downstream Confluences:	Lake Shawnee
Via :	Unnamed Tributary	Receiving River Basin:	Delaware River Basin (Zone 1E)
Classification:	FW2-NT (C2)	Watershed Management Area:	01
Latitude:	40° 58’ 16.9”	Watershed:	Musconetcong River (above Trout Brook)
Longitude:	74° 35’ 27.5”	Subwatershed:	Lake Hopatcong
County:	Morris	14 digit Hydrologic Unit Code:	02040105150020
Municipality:	Jefferson Twp.	Water Quality Impairments:	PCBs in Fish Tissue, pH, Temperature
Outfall Description			
Outfall Configuration	Partially/ seasonally submerged pipe	Submerged Pipe Characteristics:	Pipe is approximately 2-3” below the high water line during submergence season
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75th percentile flow:	0.1 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

*The USGS records reference the receiving stream as the Weldon Brook tributary.

3 Permit Summary Table and Permit Requirements (NJG0021105):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0012 0.007	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	2.57 2.51 40/15	MR MR	MR MR	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. # Det. / # ND. Weekly Avg. # Det. / # ND.	3.24 36/19 3.22 37/18	25 40	25 40	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	182.84 184.19	MR MR	MR MR	1/Month	1/Month
$CBOD_5$ Min Percent Removal	%	Monthly Avg.	97.43	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. # Det. / # ND. Weekly Avg. # Det. / # ND.	0.03 32/22 0.4 34/20	MR MR	MR MR	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. # Det. / # ND. Weekly Avg. # Det. / # ND.	4.48 29/25 4.53 30/24	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	245.24 251.44	MR MR	MR MR	1/Month	1/Month
TSS Min Percent Removal	%	Monthly Avg. # Det. / # ND.	95.80 51/3	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	0.035 0.38 16/2	MR MR	MR MR	1/Year	1/6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	6.68 33.50 16/2	MR MR	MR MR	1/Year	1/6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	0.006 0.007 34/8	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND.	0.088 0.088 29/13	0.561 MR TMDL	0.561 MR TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. # Det. / # ND. Instant Max # Det. / # ND.	1.27 15/21 2.00 16/20	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.49 6.46	5.0 4.0	5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND.	1.72 2.40 8/9	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.00 16.72 26.90	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.16 8.26	6.0 9.0	6.0 9.0	1/Day	1/Day

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) DO based May 1 – Oct 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	0.0078 0.10 15/11	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	0.11 0.302 14/12	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	0.001 0.003 20/8	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.	0.16 0.302 19/9	MR 8.0	MR 8.0	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. # Det. / # ND. Daily Max. # Det. / # ND.	0.04 26/13 0.83 27/12	MR 0.57	MR 0.57	1/Quarter	1/Quarter
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND.	7.16 73.10 25/14	MR 21.3	MR 21.3	1/Quarter	1/Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	11.8	61	61	1/ Year	1/Year

Footnotes and Abbreviations (NJG0021105):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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 Ultraviolet (UV) 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	Downstream Confluences:	Ramapo River
Via :	Outfall pipe	Receiving River Basin:	Passaic River Basin
Classification (a):	FW2-NT (C2)	Watershed Management Area:	03
Latitude:	41° 01’ 26.2”	Watershed:	Ramapo River
Longitude:	74° 13’ 55.1”	Subwatershed:	Crystal Lake/ Pond Brook
County:	Bergen	14 digit Hydrologic Unit Code:	020301031000060
Municipality:	Oakland	Water Quality Impairments:	pH
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75th percentile flow:	0.0 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.0 cfs

3 Permit Summary Table and Permit Requirements (NJG0021253):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0034 0.022	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0678 0.0678 9 / 45	1 1.5	1 1.5	1 / Month	1 / Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.156 3.156 9 / 45	8 12	8 12	1 / Month	1 / Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	165.4 165.4	MR MR	MR MR	1 / Month	1 / Month
$CBOD_5$ Minimum Percent Removal	%	Monthly Avg.	96.37	85	85	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.1154 0.1154	3.8 5.7	3.8 5.7	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	7.917 7.917	30 45	30 45	1 / Month	1 / Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	249.8 249.8	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum Percent Removal	%	Monthly Avg.	86.7	85	85	1 / Month	1 / Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.024 3.13	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	76.28 124	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0084 0.0084	MR MR TMDL	MR MR TMDL	1 / Quarter	1 / Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.5871 0.5871	0.76 MR TMDL	MR MR TMDL	1 / Quarter	1 / Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	94.6 192.4	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.915 7.4	6.0 MR	6.0 MR	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	7.55 7.55	10 15	10 15	1 / Quarter	1 / Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.7 14.6 26.8	MR MR MR	MR MR MR	1 / Day	1 / Day
Effluent pH	su	Instant. Min. Instant. Max.	6.19 9	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	0.0045 0.0045 7 / 47	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	0.4667 0.4667 6 / 48	2 3	2 3	1 / Month	1 / Month
Chlorine Produced Oxidants (1) (Back up chlorination in use)	kg/d	Monthly Avg. Daily Max.	0.0001 0.001	MR MR	MR MR	1 / Day	1 / Day
Chlorine Produced Oxidants (1) (Back up chlorination in use)	mg/L	Monthly Avg. Daily Max.	0.0072 0.06	0.013 0.1	0.013 0.1	1 / Day	1 / Day
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.4317 1.84 15 / 3	MR MR	MR 7.8 (2)	1/Quarter	1/Quarter

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	36.89 135 15 / 3	MR MR	MR 61.17 (2)	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max. # Det. / # ND	1.119 5.42 13 / 5	MR MR	MR 32.8 (2)	1/Quarter	1/Quarter (DMR)
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	104.8 336 13 / 5	MR MR	MR 258 (2)	1/Quarter	1/Quarter (DMR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	14.5	61	61	1/6 Months	1/ 6 Months

Footnotes and Abbreviations (NJG0021253):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

(1) When the facility is using UV disinfection in place of chlorination, the permittee is not required to monitor CPO and can report “Code =N” on the monthly DMR.

(2) From EDP to EDP + 36 months, Copper and Zinc limits as well as monthly Copper and Zinc monitoring are still applicable. From EDP + end of 36 months until permit expiration, the newly calculated limits will be imposed.

Springfield Township 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	Downstream Confluences:	Assiscunk Creek
Via :	Pipe	Receiving River Basin:	Delaware River Basin (Zone 2)
Classification:	FW2-NT (C2)	Watershed Management Area:	20
Latitude:	40° 02’ 07.7”	Watershed:	Assiscunk Creek
Longitude:	74° 42’ 04.3”	Subwatershed:	Barkers Brook (above 40d02m30s)
County:	Burlington	14 digit Hydrologic Unit Code:	02040201100020
Municipality:	Springfield Township	Water Quality Impairments:	Arsenic, Dissolved Oxygen, Biological – cause unknown
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75^{th} percentile flow:	0.0 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.0 cfs

3 Permit Summary Table and Permit Requirements (NJG0021571):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.018	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.024 0.024 26 / 28	0.71 1.06	0.71 1.06	1 / Month	1 / Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.559 4.559 24 / 30	25 37.5	25 37.5	1 / Month	1 / Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	80	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.080 0.087 52 / 2	0.9 1.3	0.9 1.3	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	14.591 15.002 54/0	30 45	30 45	1 / Month	1 / Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	304.6 354.7	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	33.9	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	--	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	58.86 79.3	MR MR	MR MR	1/Year	1 / 6 Months
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	18.0 90	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	5.854 5.15	5.0 4.0	5.0 4.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	1.95 2.3	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.7 16.7 29.2	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.21 7.94	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	0.0022 0.0022 20 / 9	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	0.2657 0.2657 20 / 9	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	0.019 0.019 19 / 9	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	0.5247 0.5247 19 / 9	MR 16	MR 16	1 / Month	1 / Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.029 0.029	MR MR TMDL	MR MR TMDL	1 / Quarter	1 / Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	4.92 4.92	MR MR TMDL	MR MR TMDL	1 / Quarter	1 / Quarter

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	-- 56.1 5 / 0	MR MR	MR MR	1/Year (WCR)	1/6 Months (DMR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	72.5	MR	MR	1/Year	1/Year

Footnotes and Abbreviations (NJG0021571):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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 (Zone 1D)
Classification:	FW2-TM (C1)*	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	Water Quality Impairments:	Temperature
Outfall Description			
Outfall Configuration:	non-submerged pipe	Submerged Pipe Characteristics:	N/A
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.7 cfs	MA7CD10 (7Q10) summer:	0.8 cfs
MA7CD10 / 7Q10:	0.8 cfs	MA7CD10 (7Q10) winter:	1.8 cfs
75th percentile flow:	4.8 cfs	MA30CD10 (30Q10) summer:	1.1 cfs
		MA30CD10 (30Q10) winter:	2.9 cfs

*The receiving waterbody classification has changed since the January 1, 2017 Master General Permit.

3 Permit Summary Table and Permit Requirements (NJG0022101):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0177 0.044	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg.	0.1975 0.1975	6.0 9.0	6.0 9.0	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.4917 3.4898 54 / 0	30 45	30 45	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	528.46 528.46	MR MR	MR MR	1/Month	1/Month
BOD_5 Minimum Percent Removal	%	Monthly Avg.	94.29	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.2735 0.2735	6 9	6 9	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.975 4.975	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	383.94 383.94	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	86.36	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	757.59 1400	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.086 1.34	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	1.257 14	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0264 0.0264	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.4830 0.4830	1.0 MR	1.0 MR	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	21.38 110	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Inst. Min.	8.86 4.4	6.0 5.0	6.0 5.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	5.005 5 20/0	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.2 17.1 28	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.14 8.64	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.	0.0913 0.0913	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.	1.199 1.199	20 MR	20 MR	1 / Month	1 / Month
Ammonia (Total as N), Winter: Nov 1 to Apr 30	kg/d	Monthly Avg. Weekly Avg..	0.077 0.077	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.	1.356 1.356	20 MR	20 MR	1 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	0.014 0.355	MR 0.019	MR 0.019	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	0.0162 0.06	MR 0.1	MR 0.1	1 / Day	1 / Day
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	-- 70.3 4 / 0	MR MR	MR MR	1/Year (WCR)	1/6 Months (DMR)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Acute Toxicity, LC50 *Pimephales promelas*	% effluent	Minimum	>100	AL 50	AL 50	1 / Year	1 / Year

Footnotes and Abbreviations (NJG0022101):

MR Monitor and report only AL Action Level

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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	Downstream Confluences:	East Ditch River
Via :	Outfall pipe	Receiving River Basin:	Passaic River Basin
Classification:	FW2-NT (C2)	Watershed Management Area:	03
Latitude:	40° 58’ 14.736”	Watershed:	Pompton River
Longitude:	74° 21’ 5.691”	Subwatershed:	Lincoln Park Tribs (Pompton River)
County:	Morris	14 digit Hydrologic Unit Code :	02030103030130
Municipality:	Kinnelon Borough	Water Quality Impairments :	Arsenic, Dissolved Oxygen, Biological (Cause Unknown), Mercury in Water Column
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75th percentile flow:	0.1 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

3 Permit Summary Table and Permit Requirements (NJG0022276):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0053 0.0116	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0083 0.0083 12 / 42	0.3 0.45	0.3 0.45	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.833 3.833 12 / 42	8.0 12.0	8.0 12.0	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	322.3 284.2	MR MR	MR MR	1/Month	1/Month
$CBOD_5$ Min. Percent Removal	%	Monthly Avg.	93.3	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.0427 0.0427	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.481 4.60	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	370.1 369.1	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	79.07	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.2363 0.427	MR MR	MR MR	1/ Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	90.1 125	MR MR	MR MR	1/ Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0005 0.0005	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.1765 0.1765	1.0 1.5 TMDL	1.0 1.5 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant. Max.	1.8 9	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	9.916 8.4	6.0 MR	6.0 MR	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.	12.4 20.004 27.8	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.49 7.24	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	0.014 0.014 4 / 20	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	0.4652 0.4652 4 / 21	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	0.0003 0.0008 8 / 19	MR 0.16	MR 0.16	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) DO Based - Winter Winter: Nov 1 to Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.0057 0.2021 7 / 20	MR 4.4	MR 4.4	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.0159 0.05 16 / 12	MR 0.7	MR 0.53 (1)	1/Quarter	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	9.816 16 16 / 12	MR 17.7	MR 14 (1)	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max.	0.831 0.27	MR 4.3	MR 4.3	1/Quarter	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max.	35.67 122	MR 112	MR 112	1/Quarter	1/Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	8.2 (2)	MR	61 (1)	1/ 6 Months	1/ 6 Months

Footnotes and Abbreviations (NJG0022276):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

(1) From EDP to EDP + 36 months, the daily maximum Copper limitations and monthly Copper monitoring as well as the Chronic WET monitoring are still applicable. From EDP + end of 36 months until permit expiration, the newly calculated limitations for Copper and Chronic WET will be imposed.

(2) The Chronic Whole Effluent Toxicity (WET) test results for NJG0022276 are as follows: >100.0 23.8, 49.8, 8.2, 63.2, 49.6, >100.0 and >100.0.

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.

* It has come to the Department's attention that the existing treatment plant for the Helen A. Fort Middle School located in Pemberton Township, Burlington County will be replaced by a new treatment plant. A Treatment Works Approval (TWA) No. 20-0138 was issued by the Department for construction for the new treatment plant on June 1, 2020. The construction process will take approximately one year. During the construction of the new treatment plant, the existing plant will continue to operate. The design flow (or NJPDES Flow Value) of 0.05 MGD will remain the same for the new treatment plant, but the treatment units will differ. For instance, the new treatment plant will include Ultraviolet disinfection. Once the new treatment plant is operational, the existing treatment will be taken offline and decommissioned.

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 (Zone 2)
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 Township	Water Quality Impairments:	Arsenic, Copper, E. Coli, Phosphorus
Outfall Description			
Outfall Configuration:	Non-submerged pipe	Submerged Pipe Characteristics:	Not Applicable

Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.4 cfs	MA7CD10 (7Q10) summer:	0.4 cfs
MA7CD10 / 7Q10:	0.4 cfs	MA7CD10 (7Q10) winter:	0.8 cfs
75th percentile flow:	1.1 cfs	MA30CD10 (30Q10) summer:	0.5 cfs
		MA30CD10 (30Q10) winter:	1.0 cfs

3 Permit Summary Table and Permit Requirements (NJG0022438):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021 (1)	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.021	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg.	0.045 0.046	4.73 7.09	4.73 7.09	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg.	5.39 5.41	25 37.5	25 37.5	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	254.76 258.57	MR MR	MR MR	1/Month	1/Month
BOD_5 Min Percent Removal	%	Monthly Avg.	94.93	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0144 0.014 24 / 26	5.7 8.5	5.7 8.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.82 3.86 32 / 21	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	239.38 246.69	MR MR	MR MR	1/Month	1/Month
TSS Min Percent Removal	%	Monthly Avg.	93.19	85	85	1/Month	1/Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.041 0.040	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	6.87 6.36	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Weekly Avg.	0.34 0.34	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Weekly Avg.	33.98 33.98	MR MR	MR MR	1/Year	1 / 6 Months
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	5.14 14	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg Instant Min	8.24 0.1	5.0 4.0	5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Daily Max.	3.23 5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.5 15.03 25.5	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	5.65 8.92	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	0.016 0.25 18 / 7	3.78 MR	3.78 MR	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021 (1)	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) May 1 to Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.81 7.9 19 / 6	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	0.04 0.27 20 / 5	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.	5.53 32.2	20 MR	20 MR	1/Month	1/Month
Chlorine Produced Oxidants (2)	kg/d	Monthly Avg. Daily Max.	0.000069 0.005	MR 0.02	MR 0.02	1/Day	1/Day
Chlorine Produced Oxidants (2)	mg/L	Monthly Avg. Daily Max.	0.0091 1.12	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	mg/L	Monthly Avg. Daily Max. # Det. / # ND	33.55 87 13 / 1	MR MR	MR MR	1/Quarter	1/Quarter
Total Recoverable Zinc	mg/L	Monthly Avg. Daily Max. # Det. / # ND	62.59 252 13 / 1	MR MR	MR MR	1/Quarter	1/Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	2.1 (3)	MR	MR	1/ 6 Months	1/ 6 Months

Footnotes and Abbreviations (NJG0022438):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values

(1) The sampling results were not reported on the Discharge Monitoring Report Forms (DMRs) for the months of January 2019, February 2019 and March 2019. As a result, these months were not included in the data set.
(2) The permittee reported "0" on one occasion which was not considered in average calculations as it appears to be an error.
(3) The Chronic Whole Effluent Toxicity (WET) test results for NJG0022438 are as follows: 96.5, 2.1, 23.7, >100.0, 61.5, 75.0 and 100.0

The Salvation Army, Camp Tecumseh – NJG0023001

1 Facility Description:

NJPDES Flow Value: 0.018 MGD

As mentioned in the existing Master ASC Permit Renewal, 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
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin (Zone 1E)
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/ Nishisakwick Creek
County:	Hunterdon	14 digit Hydrologic Unit Code:	02040105170040
Municipality:	Alexandria Township	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA7CD10 (7Q10) winter:	0.2 cfs
75^{th} percentile flow:	0.3 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.3 cfs

3 Permit Summary Table and Permit Requirements (NJG0023001):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.05	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg.	0.053 0.055	1.70 1.70	1.70 1.70	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg.	3.90 4.05	25 25	25 25	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	175.99 175.99	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	97.07	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.08 0.09 54 / 0	2.04 3.06	2.04 3.06	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.89 4.21 54 / 0	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	429.86 429.86	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	97.78	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	205.64 420.0	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	2.99 7.50	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	3.95 7.50	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.009 0.009	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.44 0.44	1.0 MR SVAP	1.0 MR SVAP	1/Quarter	1/Quarter
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	2.17 11	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	7.87 9.90	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	1.11 1.80 19 / 0	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.20 14.01 25.20	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.8 8.5	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.	0.013 0.033	0.37 0.59	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	0.51 0.51 26 / 0	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.	0.008 0.008	0.34 0.57	0.34 0.57	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N), Winter : Nov 1 – Apr 30	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	0.61 0.61 28 / 0	2.5 4.2	2.5 4.2	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.0002 0.005 54 / 0	MR 0.007	MR 0.007	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.01 0.04 54 / 0	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	0.056 0.07 4/0	MR MR	MR MR	1/Year (WCR)	1/6 Months (DMR)
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	0.085 0.089 4/0	MR MR	MR MR	1/Year (WCR)	1/6 Months (DMR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	100	MR	MR	1/Year	1/Year

Footnotes and Abbreviations (NJG0023001):

MR Monitor and report only SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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 (UV) 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:	South Branch Rockaway Creek
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:	E. Coli, Biological - Causes Unknown, Temperature
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.1 cfs	MA7CD10 (7Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA7CD10 (7Q10) winter:	0.1 cfs
75th percentile flow:	0.4 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.2 cfs

3 Permit Summary Table and Permit Requirements (NJG0023175):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.003 0.013	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.042 0.044 23 / 28	1.0 1.5	1.0 1.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.49 5.69 20 / 30	30 45	30 45	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	203.62 209.07	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	97.38	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.12 0.14 51 / 0	1.0 1.5	1.0 1.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	12.43 13.95 51 // 0	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	275.83 279.68	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	90.47	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.87 2.27 9 / 0	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	91.23 114.0 9 / 0	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.03 0.03	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	3.73 3.73	4.75 MR TMDL	4.75 MR TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	26.85 510.0	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min.	7.66 4.5	6.0 MR	6.0 MR	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.25 2.3 2 / 0	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	8.7 19.58 38.1	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.53 8.98	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	0.0009 0.0009 13 / 11	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	0.10 0.10 13 / 11	1.0 MR	1.0 MR	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.002 0.0068 14 / 13	MR MR	MR MR	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Winter - November 1 through April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.29 1.8 14 / 13	MR MR	MR MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	14.11 101 20 / 0	MR MR	MR MR	1/Quarter	1/Quarter
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	54.37 239 19 / 1	MR MR	MR MR	1/Quarter	1/Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	2.9	MR	MR	1/6 Months	1/6 Months

Footnotes and Abbreviations (NJG0023175):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin (Zone 2)
Classification:	FW2-NT (C2)	Watershed Management Area:	11
Latitude:	40° 30’ 25”	Watershed:	Hakihokake/Harihokake/ Nishisakawick Creek
Longitude:	75° 00’ 44”	Subwatershed:	Kingwood Township (Warford-Little Nishisakawk)
County:	Hunterdon	14 digit Hydrologic Unit Code:	02040105170060
Municipality:	Kingwood Township	Water Quality Impairments:	Phosphorus
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75^{th} percentile flow:	0.0 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.0 cfs

3 Permit Summary Table and Permit Requirements (NJG0023311):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.009	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg.	0.039 0.040	0.45 0.68	0.45 0.68	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg.	6.86 6.95	25 37.5	25 37.5	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	497.07 505.33	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	89.7	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.08 0.08	0.55 0.82	0.55 0.82	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	16.56 16.63	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	474.57 489.92	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	77.5	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.32 0.32	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	60.12 60.12	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.05 0.05	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	10.94 10.94	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
E.coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	64.06 750	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min.	6.12 4	-- 5.0	-- 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	3.55 7.10	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	8.70 20.74 38.40	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.01 8.58	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. Daily Max. # Det. / # ND	0.003 0.068 25 / 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	0.60 8.5 25 / 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	0.011 0.11 23 / 5	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	1.79 15.5 23 / 5	6 10	6 10	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Copper (1)	g/d	Month Avg. Daily Max. # Det. / # ND	0.26 2.16 14/1	MR MR	MR MR	1/6 Months	1 / Quarter
Total Recoverable Copper (1)	µg/L	Month Avg. Daily Max. # Det. / # ND	31.73 127 14/1	MR MR	MR MR	1/6 Months	1 /Quarter
Total Recoverable Zinc (1)	g/d	Month Avg. Daily Max. # Det. / # ND	0.54 3.03 13 / 3	MR MR	MR 4.9 (2)	1/6 Months	1 / Quarter
Total Recoverable Zinc (1)	µg/L	Month Avg. Daily Max. # Det. / # ND	100.90 345 13 / 3	MR MR	MR 271.1 (2)	1/6 Months	1 / Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	3	MR	MR	1/Year	1/Year

Footnotes and Abbreviations (NJG0023311):

MR Monitor and report only SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values

(1) 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.
(2) From EDP to EDP + 36 months, monthly Zinc monitoring is still applicable. From EDP + end of 36 months until permit expiration, the newly calculated Zinc limitations will be imposed.

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 (UV) 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	Downstream Confluences:	Black Creek
Via :	Concrete outfall pipe	Receiving River Basin:	Wallkill River Basin
Classification:	FW2-TM (C2)	Watershed Management Area:	02
Latitude (a):	41° 13’ 23”	Watershed:	Pochuck Creek
Longitude (a):	74° 29’ 49.8”	Subwatershed:	Black Creek (below G. George Resort trib)
County:	Sussex	14 digit Hydrologic Unit Code:	02020007040020
Municipality:	Vernon Township	Water Quality Impairments:	Arsenic, Dissolved Oxygen, Biological (Cause Unknown)
Outfall Description			
Outfall Configuration:	Non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.1 cfs
75^{th} percentile flow:	0.3 cfs	MA30CD10 (30Q10)summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.2 cfs

(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 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.006 0.17	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.146 0.1675 4 / 50	1.8 2.72	1.8 2.72	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.73 6.63 4 / 50	15 22.5	15 22.5	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	130.09 130.18 52 / 2	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	97.35	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.11 0.11 46 / 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	5.76 6.05 46 / 8	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	169.55 168.17	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	86.03	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.924 2.65	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	38.67 56.1	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.018 0.018 6 / 11	MR 0.06 TMDL	MR 0.06 TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.17 0.17 6 / 11	MR 0.5 TMDL	MR 0.5 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	14 72	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg.	8.66 8.66	6.0 MR	6.0 MR	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	1.7 1.7	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1 12.83 27.6	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	Su	Instant. Min. Instant. Max.	6.08 8.47	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 0.002	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.	0.16 0.16	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	0.0163 0.06 6 / 22	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	0.606 1.03 5 / 23	2.6 3.8	2.6 3.8	1/ Month	1/ Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max # Det. / # ND	1.20 3.81 8 / 0	MR 13.6	MR 13.6	1/ 6 Months	1/ 6 Months
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max # Det. / # ND	51.05 87.2 8 / 0	MR 112.5	MR 112.5	1/ 6 Months	1/ 6 Months
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	-- 19.2 2/3	MR MR	MR MR	1/ Year (WCR)	1/6 Months (DMR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	20	55	55	1 / Year	1 / Year

Footnotes and Abbreviations (NJG0023841):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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:	Mulhockaway Creek
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:	Arsenic and Temperature
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.1 cfs	MA7CD10 (7Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA7CD10 (7Q10) winter:	0.2 cfs
75^{th} percentile flow (d):	0.2 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.3 cfs

3 Permit Summary Table and Permit Requirements (NJG0024091):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.06	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.021 0.021 20 / 34	0.33 0.5	0.33 0.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg. #Det / #ND	3.775 3.775 20 / 34	8.0 12	8.0 12	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	243.01 243.01	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	82.84	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.03 0.03 7 / 11	0.33 0.5	0.33 0.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.85 5.29 7 / 11	8.0 12	8.0 12	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	652.74 658.24	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	77.59	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.14 0.42	MR MR	MR MR	1/ Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	23.69 42.34	MR MR	MR MR	1/ Year	1 / 6 Months
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.002 0.002 7 / 11	1.0 MR TMDL	1.0 MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.36 0.36 7 / 11	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	45.03 1190 39 / 6	126 MR	126 MR	1 / Month	1 / Month
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Daily Avg.	8.68 7.66	MR 7.0	MR 7.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	1.40 1.40	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.5 14.27 28.70	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.08 8.61	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	0.02 0.02 5 / 21	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	1.87 1.87 4 / 22	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	0.055 0.45 15 / 13	MR MR	MR MR	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Nov.1 - Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	5.85 31.6 14 / 14	MR MR	MR MR	1/Month	1/Month
Chlorine Produced Oxidants (CPO)	kg/day	Monthly Avg. Daily Max. # Det. / # ND	<0.01 0.0001 8 / 46	MR 0.0042	MR 0.0042	1/Day	1/Day
Chlorine Produced Oxidants (CPO)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	<0.01 <0.01 0 / 54	MR 0.1	MR 0.1	1/Day	1/Day
Total Recoverable Copper	g/d	Monthly Avg. Daily Max.	-- --	-- --	MR 4 (1)	--	1/Quarter
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	26.2 89 15 / 4	MR MR	MR 96.3 (1)	1/Quarter	1/Quarter
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	26.2 89 15 / 4	MR MR	MR MR	1/Quarter	1/Quarter
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	43.1 (2)	MR	MR	1/ 6 Months	1/ 6 Months

Footnotes and Abbreviations (NJG0024091):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

(1) From EDP to EDP + 36 months, monthly Copper monitoring is still applicable. From EDP + end of 36 months until permit expiration, the newly calculated Copper limitations will be imposed.

(2) The Chronic Whole Effluent Toxicity (WET) test results for NJG0024091 are as follows: >100.0, 64.3, >100.0, 43.1, 43.1, >100.0, 81.9, >100.0 and >100.0.

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 (UV) 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 (Zone 1D)
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:	Dissolved Oxygen, Phosphorus, 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:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.0 cfs
75^{th} percentile flow:	0.0 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.0 cfs

3 Permit Summary Table and Permit Requirements (NJG0027049):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.004 0.02	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.26 0.26 12 / 42	2.08 3.33	2.08 3.33	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.45 6.45 12 / 42	25 40	25 40	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	179.22 179.22	MR MR	MR MR	1/Month	1/Month
BOD_5 Minimum Percent Removal	%	Monthly Avg.	85.1	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.13 0.13 35 / 19	2.5 3.75	2.5 3.75	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	8.17 8.17 35 / 19	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	173.31 173.31	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	91.03	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	1138.89 1700	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	1.20 1.80	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	66.87 103	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.004 0.004	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.26 0.24	MR MR SVAP	MR MR SVAP	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	48.51 1050	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	8.19 5.11	5.0 4.0	5.0 4.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	7.55 9.47	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3 14.84 25	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8.4	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	0.005 0.013 9 / 17	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	0.37 0.948 9 / 17	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	0.018 0.112 9 / 19	0.19 0.32	0.19 0.32	1/ Month	1/ Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N), Winter, Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.08 6.55 9 / 19	2.5 4.2	2.5 4.2	1/ Month	1/ Month
Chronic Toxicity, *Ceriodaphnia dubia*	% effluent	Minimum	4.3	61	61	1 / 6 Months	1 / 6 Months

Footnotes and Abbreviations (NJG0027049):

MR Monitor and report only SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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:	Paulins Kill via an unnamed tributary	Downstream Confluences:	Paulins Kill
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin (Zone 1D)
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 Code:	02040105040050
Municipality:	Sparta Township	Water Quality Impairments:	Dissolved Oxygen, Biological (Cause Unknown), Phosphorus
Outfall Description			
Outfall Configuration:	Partially submerged pipe	Submerged Pipe Characteristics:	*N/A*

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

3 Permit Summary Table and Permit Requirements (NJG0027065):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0041 0.022	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0825 0.0825 24 / 30	1.4 1.4	1.4 1.4	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.364 5.364 22 / 32	15 15	15 15	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	194.7 194.7	MR MR	MR MR	1/Month	1/Month
BOD_5 Minimum Percent Removal	%	Monthly Avg.	86.57	95	95	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.1157 0.1159 49 / 5	2.9 4.4	2.9 4.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	7.516 7.516 49 / 5	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	180.4 180.4	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	84.38	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	755.27 994	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	1.14 3.51	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	68.65 120	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. # Det. / # ND	0.0121 18 / 5	MR TMDL	MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. # Det. / # ND	0.76 18 / 5	1.0 TMDL	1.0 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	48.38 118.7 35 / 17	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg.	6.2 7.527	4.0 5.0	4.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	7.645 9.39 2 / 21	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.3 16.22 35.5	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.45 7.8	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	0.0115 0.03 4 / 20	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	0.775 2.1 4 / 20	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	0.0338 0.13 8 / 20	0.40 0.66	0.40 0.66	0.40 0.66	0.40 0.66

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	2.206 5 8 / 20	4.2 7	4.2 7	4.2 7	4.2 7
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	-- 28.2 4/1	MR MR	MR MR	1/Year (WCR)	1 / 6 Months (DMR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	2 (1)	MR	61 (2)	1 / Year	1 / 6 Months

Footnotes and Abbreviations (NJG0027065):

MR Monitor and report only TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values

(1) The Chronic Whole Effluent Toxicity (WET) test results for NJG0027065 are as follows: 10.6, >100, 2, 54.4 and 64.6.
(2) From EDP to EDP + 36 months, Chronic WET monitoring is still applicable. From EDP + end of 36 months until permit expiration, the newly calculated Chronic WET limitation will be imposed.

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 (UV) 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 (Zone 1E)
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	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.1 cfs
75th percentile flow (b):	0.3 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.2 cfs

3 Permit Summary Table and Permit Requirements (NJG0027553):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0006 0.0221	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0062 0.0062 48 / 6	0.71 1.06	0.71 1.06	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.995 3.995 4 / 50	25 37.5	25 37.5	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	343.7 358.7	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	32.8	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.009 0.009 49 / 5	0.85 1.28	0.85 1.28	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.118 3.118 23 / 31	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	702.2 702.2	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	67.5	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.0162 0.0445	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	12.83 22.6	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0044 0.0044 19 / 0	MR MR SVAP	MR MR SVAP	1/ Quarter	1/ Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.634 1.634 19 / 0	MR MR SVAP	MR MR SVAP	1/ Quarter	1/ Quarter
E Coli (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	13.9 58	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	4 8.368	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	1.763 2 8 / 11	10 15	10 15	1/ Quarter	1/ Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	5.1 15.60 29.6	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.35 8.23	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. # Det. / # ND	0.0033 0.0317 25 / 1	MR 0.29	MR 0.29	1/Month	1/Month
Ammonia (Total as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.053 8.9 14 / 12	MR 10.2	MR 10.2	1/Month	1/Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0019 0.0251 26 / 2	MR 0.52	MR 0.52	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.269 5.4 12 / 16	MR 18.4	MR 18.4	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	2.703 6.7 9 / 8	MR MR	MR MR	1/Year (DMR)	1/Year (WCR)
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	%	Minimum	94.1	MR	MR	1/ 6 Months	1/ Year

Footnotes and Abbreviations (NJG0027553):

MR Monitor and report only SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

Kittatinny Regional High School - NJG0028894

1 Facility Description:

NJPDES Flow Value: 0.045 MGD

Treatment Units:

1. Bar Screen
2.
2. Equalization Tank
3. Aeration Tank
4. Clarifiers (2 units)
5. Concrete Lined Settling Tank
6. Ultraviolet (UV) 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 (Zone 1D)
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:	7.3 cfs	MA7CD10 (7Q10) summer:	8.8 cfs
MA7CD10 / 7Q10:	8.8 cfs	MA7CD10 (7Q10) winter:	15 cfs
75th percentile flow:	33 cfs	MA30CD10 (30Q10) summer:	11 cfs
		MA30CD10 (30Q10) winter:	22 cfs

3 Permit Summary Table and Permit Requirements (NJG0028894):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.021	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.1503 0.1503 37 / 17	4.2 6.8	4.2 6.8	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	6.030 6.030 37 / 17	25 40	25 40	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	171.1 169.8	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	74.29	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.2284 0.2284	5.1 7.6	5.1 7.6	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	8.861 8.861	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	164.89 165.45	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	27.73	85	85	1/Month	1/Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	987.1 1220	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.420 0.79	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	35.9 55.2	MR MR	MR MR	1/ Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.1093 0.1093 7 / 5	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.2713 0.2713 7 / 5	1.0 MR	1.0 MR	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	21.47 92	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	7.07 8.48	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	1.6 1.6 1 / 17	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	0.3 13.11 28.3	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.36 10.51	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	0.0449 0.21 9 / 17	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	1.796 6.58 9 / 17	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	0.097 0.81 16/ 12	3.4 MR	3.4 MR	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	3.347 25.7 15 / 13	20 MR	20 MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	24.01 65.9 8 / 10	MR MR	MR MR	1/Quarter	1/Quarter
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	50.48 88.9 18 / 0	MR MR	MR MR	1/Quarter	1/Quarter
Acute Toxicity, LC50 *Pimephales promelas*	% effluent	Minimum	>100	AL 50	AL 50	1/Year	1/Year

Footnotes and Abbreviations (NJG0028894):

MR Monitor and report only AL Action Level

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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	Downstream Confluences:	Wanaque Reservoir
Via :	Outfall pipe	Receiving River Basin:	Passaic
Classification:	FW2-TM (C1)	WMA:	03
Latitude:	41° 05’ 31.5”	Watershed:	Wanaque River
Longitude:	74° 15’ 52.6”	Subwatershed:	Wanaque Reservoir (below Monks gage)
County:	Passaic	14 digit Hydrologic Unit Code:	02030103070050
Municipality:	Ringwood Borough	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration:	submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA7CD10 (7Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA7CD10 (7Q10) winter:	0.1 cfs
75th percentile flow:	0.3 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.2 cfs

3 Permit Summary Table and Permit Requirements (NJG0029432):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0008 0.009	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg.	0.0054 0.0054	0.24 0.36	0.24 0.36	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg.	1.27 1.24	8 12	8 12	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	108.19 108.19	MR MR	MR MR	1/Month	1/Month
$CBOD_5$ Min. Percent Removal	%	Monthly Avg.	87	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.015 0.015	0.91 1.4	0.91 1.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	5.61 5.66	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	464.47 464.47	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	96.78	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.024 0.024	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	33.0 33.0	MR MR	MR MR	1/ Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.0015 0.0015	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.397 0.397	1.6 2.4 TMDL	1.6 2.4 TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	12.16 365.0	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min	8.98 7.95	MR 7.0	MR 7.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	8.18 8.18	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	8 15.76 24	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	5.56 8.49	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.	0.00087 0.00079	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.	0.24 0.24	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.	0.00086 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.	0.21 0.4	MR 7.0	MR 7.0	1/Month	1/Month
Total Recoverable Copper	gr/d	Monthly Avg. Daily Max. # Det. / # ND	0.041 0.07 3 / 0	MR MR	MR MR	1/Year	1 / 6 Months

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	21.47 28.0 3 / 0	MR MR	MR MR	1/ Year	1 / 6 Months
Total Recoverable Zinc	gr/d	Monthly Avg. Daily Max. # Det. / # ND	0.15 0.23 3 / 0	MR MR	MR MR	1/ Year	1 / 6 Months
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	132.1 318 3 / 0	MR MR	MR MR	1/ Year	1 / 6 Months
Chronic Toxicity, IC25 *Ceriodaphnia dubia*	% effluent	Minimum	>100	MR	MR	1/Year	1/Year

Footnotes and Abbreviations (NJG0029432):

MR Monitor and report only

TMDL – Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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	Downstream Confluence:	Delaware River
		Receiving River Basin:	Delaware River Basin (Zone 1D)
Via :	Outfall pipe	WMA:	01
Classification:	FW2-TM (C1)*	Watershed:	Upper Delaware
Latitude:	40° 58’ 46.8”	Subwatershed:	Paulins Kill (below Blairstown gauge)
Longitude:	74° 59’ 16.2”	14 digit Hydrologic Unit Code:	020401005050050
County:	Warren	Outfall Configuration:	non-submerged pipe
Municipality:	Blairstown Township	Water Quality Impairments:	Temperature, Mercury & PCB in fish tissue
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	13 cfs	MA7CD10 (7Q10) summer:	18 cfs
MA7CD10 / 7Q10:	18 cfs	MA7CD10 (7Q10) winter:	32 cfs
75^{th} percentile flow:	75 cfs	MA30CD10 (30Q10) summer:	23 cfs
		MA30CD10 (30Q10) winter:	48 cfs

*The receiving waterbody classification has changed since the January 1, 2017 Master General Permit.

3 Permit Summary Table and Permit Requirements (NJG0031046):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.004 0.096	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg.	0.086 0.086	1.89 3.03	1.89 3.03	1/ Month	1/ Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg.	6.54 6.54	25 40	25 40	1/ Month	1/ Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	134.33 134.33	MR MR	MR MR	1/ Month	1/ Month
$CBOD_5$ Minimum Percent Removal	%	Monthly Avg.	91.88	85	85	1/ Month	1/ Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.18 0.20 54 / 0	2.28 3.41	2.28 3.41	1/ Month	1/ Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	10.7 11.11 36 / 18	30 45	30 45	1/ Month	1/ Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	179.3 179.3	MR MR	MR MR	1/ Month	1/ Month
TSS Minimum Percent Removal	%	Monthly Avg.	91.1	85	85	1/ Month	1/ Month
Total Dissolved Solids (TDS)	mg/L	Monthly Avg. Daily Max.	518.0 763.0	MR MR	MR MR	1/Quarter	1/Quarter
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.15 3.31	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	41.03 95.6	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.03 0.03	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	1.77 1.77	MR MR	MR MR	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max # Det. / # ND	10.7 800 23 / 21	126 MR	126 MR	1/ Month	1/ Month
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Instant Min.	9.75 6.75	6.0 5.0	6.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	1.575 2.5 8 / 10	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.2 15.23 23.9	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.48 8.94	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	0.029 0.72 26 / 0	1.38 2.01	1.38 2.01	1/ Month	1/ Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N) DO based Summer - May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.13 0.78 26 / 0	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	0.037 0.06 28 / 0	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	3.38 3.38 28 / 0	20 MR	20 MR	1/ Month	1/ Month
Chlorine Produced Oxidants (1)	kg/day	Monthly Avg. Daily Max. # Det. / # ND	0.0002 -- 51/0	0.008 --	0.008 MR	1/Day	1/Day
Chlorine Produced Oxidants (1)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.012 -- 34 / 17	0.1 --	0.1 MR	1/Day	1/Day
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	5.14 25.0 18 / 0	MR MR	MR MR	1/Quarter	1/Quarter
Total Recoverable Zinc	ug/L	Monthly Avg. Daily Max. # Det. / # ND	10.02 130 15 / 3	MR MR	MR MR	1/Quarter	1/Quarter
Acute Toxicity, LC50 *Ceriodaphnia*	% effluent	Minimum	>100	AL 50	AL 50	1/ Year	1/ Year

Footnotes and Abbreviations (NJG0031046):

MR Monitor and report only AL Action Level

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

(1) Permittee reported "0" three times which was not considered in average calculations as it appears to be an error.

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 (UV) 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	Downstream Confluences:	Wallkill River
Via :	Outfall pipe	Receiving River Basin:	Wallkill River Basin
Classification:	**FW2-NT (C1)***	WMA:	02
Latitude:	41° 12' 12.3"	Watershed:	Papakating Creek
Longitude:	74° 38' 35.4"	Subwatershed:	Papakating Creek West Branch (below 74d39m30s side road)
County:	Sussex	14 digit Hydrologic Unit Code:	02020007020050
Municipality:	Wantage Township	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 /1Q10:	0.3 cfs	MA7CD10 (7Q10) summer:	0.4 cfs
MA7CD10 / 7Q10:	0.4 cfs	MA7CD10 (7Q10) winter:	0.8 cfs
75th percentile flow:	2.7 cfs	MA30CD10(30Q10)summer:	0.5 cfs
		MA30CD10(30Q10) winter:	1.5 cfs

*The receiving waterbody classification has changed since the January 1, 2017 Master General Permit.

3 Permit Summary Table and Permit Requirements (NJG0031585):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0043 0.0375	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD_5)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.11 0.11 9 / 45	1.7 1.7	1.7 1.7	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD_5)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.94 3.94 5 / 49	15 15	15 15	1/Month	1/Month
Influent BOD_5	mg/L	Monthly Avg. Weekly Avg.	243.64 243.64	MR MR	MR MR	1/Month	1/Month
BOD_5 Min. Percent Removal	%	Monthly Avg.	98.7	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.11 0.1	3.4 5.1	3.4 5.1	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.44 4.44	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	276.1 276.1	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	93.66	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.91 1.98	MR MR	MR MR	1/Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	24.59 46.72	MR MR	MR MR	1/Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.064 0.064 18 / 0	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	2.92 2.92 18 / 0	MR MR TMDL	MR MR TMDL	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	21.5 120	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg. Min.	7.73 7.73	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	1.6 1.8	10 15	10 15	1/ Quarter	1/ Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.0 13.4 26.0	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.68 8.6	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.	0.12 0.12	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Weekly Avg.	4.5 4.5	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg.	0.13 0.13	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg.	3.42 3.42	MR MR	MR MR	1/Month	1/Month
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND	22.45 54.0 11 / 7	MR MR	MR MR	1/Quarter	1/Quarter

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Zinc	mg/L	Monthly Avg. Daily Max. # Det. / # ND	100.13 277.0 19 / 0	MR MR	MR MR	1/Quarter	1/Quarter
Acute Toxicity, LC50 *Ceriodaphnia dubia*	% effluent	Minimum	>100	50 AL	50 AL	1/Year	1/Year

Footnotes and Abbreviations (NJG0031585):

MR Monitor and report only AL Action Level TMDL Total Maximum Daily Load

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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 (UV) 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	Downstream Confluences:	Delaware River
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin (Zone 1E)
Classification:	FW2-NT (C1)	WMA :	11
Latitude:	40° 34’ 23”	Watershed:	Hakihokake / Nishisakawick Ck
Longitude:	75° 00’ 36.8”	Subwatershed:	Nishisakawick Creek (above 40d 33m)
County:	Hunterdon	14 digit Hydrologic Unit Code:	02040105170040
Municipality:	Alexandria Township	Water Quality Impairments:	None
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) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA7CD10 (7Q10) winter:	0.3 cfs
75^{th} percentile flow:	0.5 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.4 cfs

3 Permit Summary Table and Permit Requirements (NJG0035670)

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0026 0.0077	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.015 0.015 53 / 0	0.094 1.405	0.094 1.405	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	8.5 8.5 16 / 38	25 37.5	25 37.5	1/Month	1/Month
Influent $CBOD_5$	mg/L	Monthly Avg. Weekly Avg.	70.77 67.39	MR MR	MR MR	1/Month	1/Month
$CBOD_5$ Min. Percent Removal	%	Monthly Avg.	91.83	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.051 0.051	1.12 1.70	1.12 1.70	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	12.7 12.7	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	192.61 192.61	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	90.41	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.09 0.48	MR MR	MR MR	1 / Year	1 / 6 Months
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	31.14 66.5	MR MR	MR MR	1 / Year	1 / 6 Months
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max. Weekly Avg.	0.017 0.13 --	MR MR -- SVAP	MR -- MR SVAP	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Daily Max. Weekly Avg.	3.99 16.6 --	MR MR -- SVAP	MR -- MR SVAP	1/Quarter	1/Quarter
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	5.23 31.0	126 MR	126 MR	1/Month	1/Month
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	2.0 7.86	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	2.22 3.0	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.9 14.97 26.4	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.33 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. Daily Max. # Det. / # ND	0.0069 0.37 26 / 0	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	2.18 52.9 19 / 7	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	0.023 0.021 28 / 0	0.75 0.82	0.75 0.82	1/Month	1/Month

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/1/2017 - 6/30/2021	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Ammonia (Total as N), Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	4.49 40.3 19 / 9	20 22	20 22	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.029 0.69 46 / 0	MR 4	MR 4	1/Quarter	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. # Det. / # ND	8.56 95.0 40 / 6	MR 96.2	MR 96.2	1/Quarter	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max. # Det. / # ND	0.038 0.27 17 / 0	MR MR	MR MR	1/Quarter	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. # Det. / # ND	26.25 183.0 17 / 0	MR MR	MR MR	1/Quar	1/Quarter
Acute Toxicity, LC50 *Ceriodaphnia dubia*	%	Minimum	>100	MR	MR	1/ Year	1/ Year

Footnotes and Abbreviations (NJG0035670):

MR Monitor and report only SVAP Stream Visual Assessment Protocol

Det. / # ND The number of sampling results reported with detectable values versus the number of sampling results reported with non-detectable values.

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

Final: 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)	10/26/2022	01/01/2023	12/31/2027

By Authority of:
Commissioner's Office

Susan Rosenwinkel

DEP AUTHORIZATION
Susan Rosenwinkel, Bureau Chief
Bureau of Surface Water & Pretreatment Permitting
Water Pollution Management Element

(Terms, conditions and provisions attached hereto)

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 et seq.
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. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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 Water Systems Engineering
Mail Code 401-04Q
P.O. Box 420
Trenton, New Jersey 08625-0420
(609) 292-2957
or via email to www@dep.nj.gov.

b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

12. 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 condtion for water or waste, except as specifically authorized by a valid NJPDES permit.

13. 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.

14. Standard Reporting Requirements - Electronic Submission of NJPDES Information

a. 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:	RECEIVING STREAM:	STREAM CLASSIFICATION:	DISCHARGE CATEGORY(IES):
ASCA Sanitary Outfall	On Individual Authorization		ASC - Consolidated School Sanitary Treatment Plants (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 Monthly Average	REPORT Daily Maximum	MGD	*****	*****	*****	*****	Continuous	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
Zinc, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Copper, 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.

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
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Consolidated School Sanitary Treatment Plants (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. In September 2014, EPA codified the use of sufficiently sensitive test methods. Because of this rule update, the Department is removing the existing Required Quantitation Level in this permit as this level does not comply with these regulatory changes. Due to adoption of the sufficiently sensitive test methods rule a new Recommended Quantitation Level (RQL) for CPO of 0.02 mg/L has been developed which has been shown to be attainable using an EPA approved standard method. Specifically, the Department has determined that this RQL is routinely achievable using a handheld colorimetric test (DPD Colorimetric Method (4500-Cl G-11)) where this method is well described in the Standard Methods for the Examination of Water and Wastewater, available at www.standardmethods.org. This method is standard practice in testing for CPO and has been available for decades.
.

e. 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.

f. All monitoring shall be conducted as specified in Part III.

g. 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.

h. 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.

i. 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. Please refer to Part II, Section B.9 for Standard Reporting Requirements.

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. The permittee shall comply with the following Capacity Assurance Program (CAP) requirements:.

i. The permittee shall ensure compliance with the CAP regulations and upon triggering the action level in Part III, the permittee is required to initiate the requirements of N.J.A.C. 7:14A-22.16.

ii. For the calculation of the parameter "CAP Threshold" in Part III of the permit, the permittee shall use the permitted flow (MGD) and the 12-month rolling average flow calculated for the parameter of "Flow, In Conduit or Thru Treatment Plant" in the calculation of the percentage of the permitted flow for the month. This percentage shall be reported as the CAP Threshold percentage.

iii. For more information concerning the CAP, please contact the Bureau of Environmental, Engineering and Permitting at (609) 984-4429.

2. Applicability of Discharge Limitations and Effective Dates

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

i. (If a three year compliance schedule is included for the individual authorization- Part III) This permit includes multiple phases for DSN 001A. The "initial" phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP + 36 months. The "final" limitations and monitoring conditions become effective at the end of EDP + 36 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:

biomonitoring@dep.nj.gov.

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:

biomonitoring @dep.nj.gov.

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 permitee shall submit a plan for resuming the CTI.

iii. Documents regarding Toxicity Investigations shall be sent to the following:
New Jersey Department of Environmental Protection
Mail Code 401-02B
Division of Water Quality
Bureau of Surface Water & Pretreatment Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420.

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 the monitoring frequency for a non-limited parameter when four consecutive test results of "not detected" have occurred using a sufficiently sensitive quantification level as defined at 40 CFR 136, 40 CFR 122.21(e)(3), and 40 CFR 122.44(i)(1)(iv).

d. For discharges where a new chronic whole effluent toxicity limit is imposed: The Department may issue a minor modifictation 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.

3. Delaware River Basin Commission (DRBC) Requirements – applicable to those faciilities which discharge to the Delware River Basin.

a. The permittee shall comply with the DRBC Water Quality Regulations.

b. The below conditions are applicable to the following facilities: NJG0020419, NJG0020711, NJG0022101,NJG0023001, NJG0027049, NJG0027065, NJG0028894, NJG0031046, and NJG0022438 only.

i. 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 Measurable Change to Existing Water Quality Analysis must be conducted by the Delaware River Basin Commission. The No Measurable 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.

ii. 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. .

iii. 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. .

iv. 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 3.0

May 2017

TABLE OF CONTENTS

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 and outline and implement the interlaboratory Standard Reference Toxicant Program until specific chronic requirements are incorporated into the laboratory certification regulations 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 method specifications (test organism specific) 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 possess certification for the applicable chronic methodologies incorporated by reference through the laboratory certification program established under N.J.A.C. 7:18, as required by N.J.A.C. 7:9B-1.5(c)5.

These methods are incorporated into discharge permits as enforceable permit conditions. Each discharge permit will specify in Parts III&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 fifth version of the NJDEP's interim chronic methodologies. This version contains no significant changes to the test methods themselves.

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. The Department recommends the use of the 5 standard dilutions plus a dilution water control to cover the entire range of effluent test concentrations e.g. 0%, 6.25%, 12.5%, 25%, 50%, 100%.

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.

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 dilution water for a permittee may not be changed without the prior approval of the Department.

The standard test salinity shall be 25 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 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 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 through the completion of a Whole

Effluent toxicity testing methodology questionnaire. Reconstituted water and DMW should be prepared with Millipore Super Q^{R} 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 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. Unless otherwise specified, three samples shall be collected as specified above, preferably one every other day. The first sample should be used for test initiation and the first renewal. The second sample for the next two renewals. The third sample should be used for the final three renewals. For the *Selenastrum* test, a single sample shall be collected not more than 24 hours prior to test initiation. In no case, shall more than 36 hours' elapse between collection and first use of the sample. 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 may be approved by the Department 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. When a laboratory adjusts a freshwater effluent salinity and the pH of the test concentration changes more than 0.5 pH units from the initial pH, the laboratory shall readjust the pH of the test concentration to within 0.5 pH units of the original test concentration. 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 unless more stringent criteria is required by the method:

- pH and dissolved oxygen shall be measured at the beginning and end of each 24 hour exposure period, in at least one chamber, of each test concentration 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 and end 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 and end 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.

- When natural salt water is used; 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

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.

For point estimate techniques, statistical analysis must follow the protocol contained in the approved testing method. The linear interpolation estimate ICp values and not the bootstrap mean ICp, shall be reported for permit compliance purposes. The ICp value reported on the Discharge Monitoring Report shall be rounded off as specified in the Department's “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 for further information.

If the result reported by the ICp method is greater than 100% effluent, the test result is reported as ">100%"

If separate IC25's can be calculated from multiple test endpoints, for example a reproductive and/or growth endpoint and a survival endpoint, the lowest IC25 value expressed in units of "% effluent" will be used to determine permit compliance and should, therefore, be reported as the IC25 value for the test. If the IC25 value for growth and/or reproduction is not lower than that for survival, the IC25 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 the test acceptability criteria of the chronic toxicity method will not be used by the Department for any purpose and must be repeated as soon as practicable, with freshly collected samples.

1. Tests must be performed by a laboratory approved for the conduct of chronic toxicity tests and certified for chronic 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 samples, not refrigerating samples upon collection, or unapproved pretreatment of an effluent sample.

3. Controls shall meet, at a minimum, 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.

7. If more stringent criteria are required within the chronic toxicity test method or rule, the more stringent criteria must be met.

Table 2.0: CONTROL PERFORMANCE

TEST ORGANISM	MINIMUM SURVIVAL	MINIMUM WEIGHT GAIN	MINIMUM FECUNDITY/ REPRODUCTION
Pimephales promelas	80%	0.25 mg avg	N/A
Ceriodaphnia dubia	80%	N/A	Average of $\geq$15 young per surviving female
Selenastrum capricornutum	Density $\geq 2x10^5$cells/ml	N/A	Variability in controls not to exceed 20%.
Cyprinodon variegatus	80%	0.60 mg (unpreserved) avg 0.50 mg (preserved) avg	N/A
Menidia beryllina	80%	0.50 mg (unpreserved) avg 0.43 mg (preserved) avg	N/A
Mysidopsis bahia	80%	0.20 mg per mysid avg	egg production by 50% of control females if fecundity is used as an endpoint.

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 must 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 the Department's laboratory certification program prior to obtaining certification for chronic toxicity testing. Certification for the applicable chronic toxicity method must be obtained 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 must be conducted at least once per month for each species/method.

2. Where the laboratory purchases organisms for the conduct of chronic toxicity testing for the test organism in question, the testing laboratory must conduct a concurrent SRT per lot of organisms, unless the supplier provides at least the most recent five monthly SRT's using the same toxicant and control conditions. SRT data provided by the supplier 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 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 monthly 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. If a testing laboratory conducts testing for a species/method less frequently than monthly, then an SRT shall be run concurrent with the toxicity test.

   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 twenty tests, the laboratory shall investigate sources of variability, take corrective actions to reduce identified sources of variability, and perform an additional SRT during the same month. 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 twenty test results which are outside the established upper and lower limits for a specific test species, the laboratory shall cease to conduct chronic toxicity tests for compliance purposes for that test species until the reason(s) for the outliers have been resolved. Approval to resume testing may 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

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 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 biomonitoring program at the address below 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 (including chain of custody documents) for all endpoints analyzed shall be included with the report submitted to the Department. All chronic toxicity test report forms shall be submitted to the following email addresses as applicable:

biomonitoring@dep.nj.gov

Toxicity@drbc.gov

In addition, the results of all chronic toxicity tests conducted 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

VIII. REFERENCES

1. NJPDES Monitoring Report Form Reference Manual October 2007 http://www.state.nj.us/dep/dwq/pdf/MRF_Manual.pdf

2. USEPA. 2002. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA-821-R-02-014. October 2002. Third Edition.

3. USEPA. 2002. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. October 2002. Fourth Edition.

New Jersey Department of Environmental Protection
Water Pollution Management Element
Bureau of Surface Water & Pretreatment Permitting
biomonitoring@dep.nj.gov

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: _____

_____

_____

_____

When is retest scheduled to be performed?

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.