pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0012424**
Facility Type	**Industrial**	APS ID	**1024975**
Major / Minor	**Minor**	Authorization ID	**1330061**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**McAdoo & Allen Inc.**	Facility Name	**Quaker Color NCCW & SW System**
Applicant Address	201 South Hellertown Avenue	Facility Address	201 South Hellertown Avenue
	Quakertown, PA 18951-1768		Quakertown, PA 18951
Applicant Contact	Greg Miller	Facility Contact	Greg Miller
Applicant Phone	(215) 536-3520	Facility Phone	(215) 536-3520
Client ID	86017	Site ID	458561
SIC Code	2851	Municipality	Quakertown Borough
SIC Description	Manufacturing - Paints And Allied Products	County	Bucks
Date Application Received	October 8, 2020	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Renewal of NPDES Permit to discharge NCCW and stormwater.

Summary of Review

The applicant requests renewal of an NPDES permit to discharge non-contact cooling water and stormwater from the facility into Beaver Run.

The current NPDES permit covers Outfalls 001, 002, 003, 004, for non-contact cooling water discharge. Outfalls 005, 006, and 009 discharge non-contact cooling water and stormwater. The monitoring point MP 106 was included to sample NCCW. Outfall 007, 008, 010, 011, 012, 013, and 014 discharge stormwater from the warehouse, roofs, and pavement of the facility. The facility made some changes in the piping system that resulted in outfall 006 carrying both NCCW and stormwater from the facility. The NCCW is being recirculated completely, so generally there is no discharge of non-contact cooling water from the facility except two times discharges during emergency conditions (power outages) in last 20 years. Effluent limits for the outfalls with NCCW will remain the same in this permit renewal. Monitoring requirements for stormwater outfalls have been revised to match with Appendix F for “Chemicals and Allied Products” of General Permit PAG-03.

This NPDES renewal application also includes some changes in the existing Outfalls. Applicant has requested to remove stormwater Outfalls 008 and 009 from the NPDES permit. Applicant plans to install Emergency Generator in near future for the facility. At that time Permittee will request to remove all the Non-contact cooling water Outfalls from the NPDES permit and also will submit application to change Individual NPDES Permit to either General NPDES Permit (PAG-03) or No Exposure Certificate.

We have made following changes in this permit renewal:

1. Outfall 005 and Outfall 010 are made “Representative” Outfalls for the Stormwater Outfalls. Therefore, these two outfalls are required to monitor and sample for all the parameters of Appendix F of PAG-03. Rest of the stormwater outfalls (001, 002, 006, 007, 011, 012, 013 and 014) are documented on page no. 6 of the NPDES permit but are not required to monitor and report in the eDMR.

Approve	Deny	Signatures	Date
X		Ketan Thaker / Project Manager *Ketan Thaker*	10/27/2020
X		*Pravin Patel* Pravin C. Patel, P.E. / Environmental Engineer Manager	10/27/2020

Summary of Review

2. We have included Benchmark Value condition for Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) in Part C condition for Stormwater Outfalls based on our Appendix F (Chemicals and Allied Products) of PAG-03. That means permittee shall develop Corrective Action Plan to reduce the concentrations of the parameters in the stormwater if the stormwater discharge concentrations exceed benchmark values.

3. The Outfall 003, Outfall 004 and Internal Monitoring Point 106 are for Non-contact cooling waters (NCCW). Permittee can use NODI code "GG" to report in eDMR if there is no discharge from these outfalls.

4. The Outfall 008 and Outfall 009 are removed from the permit as they do not exist. Also, some of the Outfalls are renumbered and their Lat/Long are updated as submitted in modified application.

The discharge is located in the Special Protection (SPW) of the Delaware River. Any expansion or increase in the flow may result in more stringent limits to comply with SPW's requirements.

Act 14 notification to Quakertown Borough and Bucks County on September 23, 2020.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001, 002, 005, 006, 007, 010, 011, 012, 013, 014	Design Flow (MGD)	0
Latitude	40Âº 26' 11.54"	Longitude	-75Âº 19' 52.29"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		

Receiving Waters	Beaver Run (TSF, MF)	Stream Code	
NHD Com ID	26053438	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-D	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, SILTATION		
Source(s) of Impairment	REMOVAL OF RIPARIAN VEGETATION, URBAN RUNOFF/STORM SEWERS		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003, 004 and MP 106	Design Flow (MGD)	.0264
Latitude	40Âº 26' 11.54"	Longitude	-75Âº 19' 52.29"
Quad Name		Quad Code	
Wastewater Description:	Noncontact Cooling Water (NCCW)		

Receiving Waters	Beaver Run (TSF, MF)	Stream Code	
NHD Com ID	26053438	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-D	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, SILTATION		
Source(s) of Impairment	REMOVAL OF RIPARIAN VEGETATION, URBAN RUNOFF/STORM SEWERS		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Compliance History

DMR Data for Outfall 005 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 006 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			

COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 007 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			

Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 008 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 009 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 010 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			

TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 011 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			

Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 012 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 013 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			
TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

DMR Data for Outfall 014 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
pH (S.U.) Instantaneous Maximum									7.34			
COD (mg/L) Instantaneous Maximum									< 25			

TSS (mg/L) Instantaneous Maximum									2			
Nitrate-Nitrite (mg/L) Instantaneous Maximum									0.61			
Total Phosphorus (mg/L) Instantaneous Maximum									< 0.05			
Total Aluminum (mg/L) Instantaneous Maximum									0.04			
Total Iron (mg/L) Instantaneous Maximum									< 0.02			
Total Lead (mg/L) Instantaneous Maximum									< 0.01			
Total Zinc (mg/L) Instantaneous Maximum									0.125			

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 003, Outfall 004 and MP 106 Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report Daily Min	XXX	XXX	XXX	XXX	XXX	Daily when Discharging	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Daily when Discharging	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	XXX	110	Daily when Discharging	I-S

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 005, and Outfall 010 Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
COD	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
TSS	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Aluminum	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Iron	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Lead	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab