

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0011185
APS ID 622600
Authorization ID 1243156

Applicant and Facility Information

Applicant Name	<u>Air Products & Chemicals, Inc.</u>	Facility Name	<u>Air Products & Chemicals, Inc.</u>
Applicant Address	<u>7201 Hamilton Boulevard</u> <u>Allentown, PA 18195-1501</u>	Facility Address	<u>7201 Hamilton Boulevard</u> <u>Allentown, PA 18195</u>
Applicant Contact	<u>Cindy Clarkson, Environmental Engineer</u>	Facility Contact	<u>Cindy Clarkson, Environmental Engineer</u>
Applicant Phone	<u>(610) 481-6350</u>	Facility Phone	<u>(610) 481-6350</u>
Client ID	<u>62388</u>	Site ID	<u>246182</u>
SIC Code	<u>2813</u>	Municipality	<u>Upper Macungie Township</u>
SIC Description	<u>Manufacturing - Industrial Gases</u>	County	<u>Lehigh</u>
Date Application Received	<u>August 3, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>August 3, 2018</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting a renewal of their NPDES permit to discharge up to 0.010 MGD (0.005 MGD average monthly; 0.05 MGD maximum) of Non-Contact Cooling Water (NCCW), approximately 2.0 MGD uncontaminated groundwater (0.117 MGD average monthly), and unquantified stormwater associated with industrial activity to Iron Run, a HQ-CWF, MF (High Quality, Cold-Water Fishes, Migratory Fishes) designated receiving stream in State Water Plan Basin 2-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The facility has three retention basins (North Basin, East Basin, and West Basin). The East Basin receives only stormwater. The North Basin receives stormwater and the NCCW. The applicant previously stated that the NCCW flow usually infiltrates and/or evaporates prior to reaching Outfall 001. The West Basin receives stormwater, the flows from both the East and North Basins, and the uncontaminated ground water that is pumped from the administrative building basement. The applicant is unaware of any contamination from the groundwater. The groundwater was also previously tested and the results for various parameters were all non-detect.

Outfall 001 is the discharge from the West Basin. The West Basin discharges into the township storm sewer system, which ultimately discharges to Iron Run.

The applicant previously indicated the inability to individually monitor the NCCW, groundwater, and stormwater before Outfall 001. Therefore, the Chapter 93.7 CWF temperature WQS time-frames were incorporated into the permit during the last permit renewal. This allows for direct comparison to eDMR reported temperatures and can help identify periods where temperature "spiking" occurs. Reporting for total monthly rainfall was added during the previous permit renewal. This information will clarify when storm flows might be contributing heat to the flow. These reporting requirements for temperature and total monthly rainfall are being carried over from the previous permit.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	November 7, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	November 7, 2019

Summary of Review

Total Residual Chlorine (TRC) limitations are also being carried over from the previous permit. The Total Residual Chlorine (TRC) Calculation Spreadsheet did not recommend stricter limitations than the previous permit.

The facility is categorized by SIC code 2813 (Manufacturing – Industrial Gases) and falls under Appendix F monitoring requirements of the PAG-03 General Permit for the stormwater outfall.

Appendix F of the latest statewide PAG-03 General Permit includes benchmark values for Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS). All industries classified under Appendix F should be within 120 mg/L for COD and 100 mg/L for TSS. These values are included as IMAX limitations and must be sampled semi-annually. Semi-annual monitoring and reporting for pH, Nitrate + Nitrite-Nitrogen, Total Phosphorous, Total Lead, Total Zinc, Total Iron, and Total Aluminum are also required under this permit. Monitoring and reporting requirements for Total Kjeldahl Nitrogen are removed from the permit as per updated requirements under Appendix F.

PPC plan implementation and completion of an annual inspection and compliance evaluation are required under this permit.

The previously issued permit expired on January 31, 2019 and the renewal application was received on time.

A Water Management System Inspection query was performed and indicated on September 17, 2018 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.



Watershed Info -
Air Products.pdf



TRC_CALC - Air
Products.pdf

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.

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	0.01
Latitude	40° 33' 56.68"	Longitude	-75° 36' 37.95"

Wastewater Description: Non-Contact Cooling Water (NCCW), Groundwater from administrative building basement, and Stormwater

Permit Limitations and Monitoring

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Temperature	Report	Monthly average/ Biweekly average	Previous Permit
	110° F	Daily Max	
Rainfall Total (feet)	Report	Total Monthly	
Total Residual Chlorine	0.5	Average Monthly	
	1.17	IMAX	
pH**	6.0-9.0 S.U.	Min - Max	
Chemical Oxygen Demand* (COD)	Report	Daily Maximum	PAG-03 Appendix F
Total Suspended Solids*			
Nitrate-Nitrite as N*			
Total Phosphorus*			
Aluminum, Total*			
Iron, Total*			
Lead, Total*			
Zinc, Total*			

* The semi-annual stormwater samples shall be taken in a manner to minimize interference from other approved flows.

** Stormwater pH shall be measured & reported during semi-annual stormwater sampling, in addition to 1/week sampling of other flows.

Anti-Backsliding

No limitations were made less stringent.