pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0222844**
Facility Type	**Industrial**	APS ID	**990261**
Major / Minor	**Minor**	Authorization ID	**1268062**

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

Applicant and Facility Information

Applicant Name	**Ellwood Industrial Facilities Complex**	Facility Name	**Ellwood Industrieal Facilities Oxygen Generation Plant**
Applicant Address	700 Moravia Street	Facility Address	700 Moravia Street
	New Castle, PA 16101-3950		New Castle, PA 16101
Applicant Contact	Richard A. Schochet	Facility Contact	
Applicant Phone	(724) 658-6515	Facility Phone	
Client ID	133781	Site ID	518728
SIC Code	2813	Municipality	New Castle City
SIC Description	Manufacturing - Industrial Gases	County	Lawrence
Date Application Received	March 1, 2019	EPA Waived?	Yes
Date Application Accepted	April 8, 2019	If No, Reason	
Purpose of Application	Renewal of a NPDES Permit for an existing discharge of non-process wastewater and uncontaminated stormwater		

Summary of Review

This facility is primarily engaged in the extraction of oxygen gas from air and water for industrial uses. This facility is situated on the property of The Ellwood Group (Ellwood Quality Steels Co., Ellwood Mill Products) and services only those Industrial facilities. This permit only pertains to the small area where the oxygen generation equipment is staged and operated.

Stormwater Outfall 003 (No Exposure) was removed as part of this permit renewal as it was determined that no stormwater flows from the physical plant location or parking area contributed to this Outfall. All stormwater flows are instead contributed by the adjacent industrial facilities (that this facility serves.

Stormwater Outfall 002 meets a definition of “No Exposure” and therefore it does not have any monitoring requirements in Part A of the proposed renewed permit.

There are currently no open violations listed in EFACTS for this permittee (1/23/2020).

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.

Approve	Deny	Signatures	Date
X		Adam J. Pesek, E.I.T. / Environmental Engineering Specialist	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.031
Latitude	40º 59' 29.0"	Longitude	-80º 21' 13.7"
Quad Name	New Castle South	Quad Code	1103
Wastewater Description:	Wastewater from vacuum pump seals, water softener backwash, and air compressor condensate		

Outfall No.	002	Design Flow (MGD)	0
Latitude	40º 59' 29.0"	Longitude	-80º 21' 13.7"
Quad Name	New Castle South	Quad Code	1103
Wastewater Description:	Stormwater not associated with industrial activities		

Receiving Waters	Shenango River (WWF)	Stream Code	35482
NHD Com ID	130032346	RMI	0.29
Drainage Area	1037	Yield (cfs/mi^2)	0.1489
Q_{7-10} Flow (cfs)	154.4	Q_{7-10} Basis	New Castle TDS Study (See Calculation below)
Elevation (ft)	798	Slope (ft/ft)	
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final, 04/01/2001	Name	Shenango River

Background/Ambient Data		Data Source
pH (SU)	7.9	WQN 909 (2011-2016) (Median of June-Sept)
Temperature (°F)	25	Default (WWF)
Hardness (mg/L)	124	WQN 909 (2005-2016) (90%)
Other:		

Nearest Downstream Public Water Supply Intake		PA American Water Company – Ellwood District	
PWS Waters	Beaver River	Flow at Intake (cfs)	450
PWS RMI	12.5	Distance from Outfall (mi)	7.8

Changes Since Last Permit Issuance:

Other Comments: From the New Castle TDS Study: Combine calculated Q7-10 for Shenango R @ WQN 909 (Grant Street Bridge) and Connoquenessing Cr at mouth and divide by the combined drainage areas of those sites. Multiply the yield by the drainage area at the discharge point. [(146+8)/(792+242)] x 1037 = 154.4 cfs

Compliance History

DMR Data for Outfall 001 (from December 1, 2018 to November 30, 2019)

Parameter	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18
Flow (MGD) Average Monthly	0.025	0.021	0.021	0.027	0.018	0.024	0.021	0.023	0.024	0.025	0.022	0.025
pH (S.U.) Minimum	7.9	7.9	8.0	7.8	7.9	7.5	8.1	8.0	8.1	8.0	8.0	8.2
pH (S.U.) Instantaneous Maximum	8.3	8.1	8.1	7.9	8.0	8.3	8.5	8.0	8.2	8.0	8.1	8.3
Temperature (ºF) Daily Average	91	90	94	99	95	86	90	81	87	80	75	87

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.031
Latitude 40º 59' 29.00" **Longitude** -80º 21' 13.70"
Wastewater Description: Wastewater from vacuum pump seals, water softener backwash, and air compressor condensate

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max		95.2(1)

Comments:

Water Quality-Based Limitations

Comments: The application sampling requirements were limited to mostly conventional pollutants, and TDS, Oil & Grease, and Temperature. Based on a visual review of effluent concentrations of these pollutants. Only temperature was deemed to have reasonable potential. However, based on the significant dilution available in the receiving stream and a review of temperature modeling in previous Fact Sheet, temperature modeling was not conducted for this renewal. Monitoring for temperature will be retained in the renewed permit to verify temperature does not increase to unsafe levels (110°F) for public exposure during the upcoming permit cycle.

Best Professional Judgment (BPJ) Limitations

Comments: N/A

Anti-Backsliding

N/A

Other Considerations

This site does not have waste load allocations for PCBs or chlorodane in the final Shenango River TMDL and there are no know historical or present sources of these pollutants located at this site. Therefore, no waste load allocations or monitoring for PCBs or chlorodane will be placed in the permit.

Sodium chloride is used as a water softener chemical for the city water received. This chemical additive was previously approved and no increase in usage was proposed as part of this renewal. NaCl, also known as rock salt or common salt, is used in a variety of every day application and has no published toxicity concerns. Byproduct of its use is higher TDS, which as reported on applications, is much lower than any threshold for action. A special condition will not be included in the permit related to chemical additive usage.

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 001, 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	XXX	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	2/month	I-S

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters)

Other Comments: