pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0289485**
Facility Type	**Storm Water**	APS ID	**1038610**
Major / Minor	**Minor**	Authorization ID	**1354335**

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

Applicant and Facility Information

Applicant Name	**GKN Sinter Metals LLC**	Facility Name	**GKN Sinter Metals Kersey Plant**
Applicant Address	104 Fairview Road	Facility Address	104 Fairview Road
	Kersey, PA 15846-2710		Kersey, PA 15846
Applicant Contact	John Carlson	Facility Contact	John Carlson
Applicant Phone	(814) 372-7518	Facility Phone	(814) 372-7518
Client ID	161767	Site ID	257246
SIC Code	3399,3499,3567	Municipality	Fox Township
SIC Description	Manufacturing - Fabricated Metal Products, Nec,Manufacturing - Industrial Furnaces And Ovens,Manufacturing - Primary Metal Products, Nec	County	Elk
Date Application Received	April 30, 2021	EPA Waived?	Yes
Date Application Accepted	June 1, 2021	If No, Reason	

Purpose of Application: An Individual NPDES Permit for an existing discharge of stormwater for industrial activities.

Summary of Review

GKN Sinter Metals Kersey Plant was previously covered by a No Exposure certification, which lapsed and now requires an Individual Industrial Stormwater permit due to the exceptional value (EV) stream designation of Byrnes Run.

This facility manufactures powdered metal components, SIC Code 3499.

This permit does not qualify for a general PAG-03 permit because it discharges to Byrnes Run, which has an EV-MF stream designation.

There are no open violations for subject client no. 161767 as of February , 2022.

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		Jon F. Bucha Jonathan F. Bucha / Civil Engineer General	February 1, 2022
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	February 3, 2022

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001 - 002	Design Flow (MGD)	0
Latitude	41º 21' 55.49" / 41º 21' 56.77"	Longitude	-78º 33' 35.89" / -78º 33' 28.42"
Quad Name	Kersey	Quad Code	0817
Wastewater Description:	Stormwater		

Receiving Waters	Byrnes Run (EV, MF)	Stream Code	24886
NHD Com ID	61431026	RMI	1.25
Drainage Area	0.4 mi^2 (Streamstats)	Yield (cfs/mi^2)	0.003
Q_{7-10} Flow (cfs)	0.00126	Q_{7-10} Basis	Streamstats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	8-A	Chapter 93 Class.	EV, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	**Metals, pH, Aluminum, Iron, Manganese**		
Source(s) of Impairment	**Acid Mine Drainage**		
TMDL Status	Final	Name	Bennett Branch Sinnemahoning Creek

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

Nearest Downstream Public Water Supply Intake	Jay Twp Water Authority		
PWS Waters	Byrnes Run (EV-MF)	Flow at Intake (cfs)	
PWS RMI	0.2	Distance from Outfall (mi)	6.81

Changes Since Last Permit Issuance: N/A

Other Comments:

Development of Effluent Limitations

Outfall No.	001 & 002	**Design Flow (MGD)**	0
	41º 21' 55.49"		-78º 33' 35.89"
Latitude	41º 21' 56.77"	**Longitude**	-78º 33' 28.42"

Wastewater Description: Stormwater

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring for parameters listed in the no exposure certification will be incorporated into the permit to demonstrate compliance with the "non-degrading discharge" condition of 25 Pa. Code Chapter 93.4a. A continual assurance of this will be done through the establishment of 1/year monitoring in place of once every 5 years monitoring required on the No Exposure Certification.

A final TMDL exists for the Bennett Branch Sinnemahoning Creek Watershed caused by metals, pH, aluminum, iron, and manganese due to acid mine drainage. In addition to the no exposure parameters, total aluminum, and total manganese will be monitored 1/year in the part A effluent limits to ensure the stormwater is not creating exceedances to the Byrnes Run TMDL.

Anti-Backsliding

Anti-backsliding does not apply.

Antidegradation Evaluation

This facility was previously covered by a No Exposure certification that was let expire. Because Byrnes Run has a Exceptional Value (EV) stream designation, an Individual Industrial Stormwater permit is required to ensure the stream is being protected. However, anti-degradation procedures were followed since this permit involves a "new" discharge to a Exceptional Value (EV) designated stream (considered "new" because it was not in existence and/or has been expanded since the stream was designated as Exceptional Value).

The Department has determined that the permittee is demonstrating the "non-degrading discharge" condition of 25 Pa. Code Chapter 93.4a will be achieved because the site meets "no exposure" conditions. In general, DEP considers industrial stormwater discharges that are controlled by post-construction stormwater management BMPs implemented under 25 Pa. Code Chapter 102 and "no exposure" conditions to be non-degrading. For existing stormwater discharges to HQ/EV waters seeking permit coverage for the first time such as this facility, DEP may also consider existing stormwater quality data. The site does have stormwater controls that are existing and have been in-place for many years (see attached Google Earth aerial imagery showing minimal difference in site conditions between 2005 and 2017. The condition of "no exposure" appears to be met at this facility and the site plans to continue no exposure conditions in the future. The permit application provided a stormwater sample for outfall 001 & 002, which showed effluent concentrations to be slightly exceeding no exposure benchmark values for TSS at outfall 001 (63 mg/L > 30 mg/L), and COD at outfall 002 (34 mg/L > 30 mg/L), these values are "benchmarks" only and there is no reason from the site conditions to believe that the industrial activity is creating exceedances. However, effluent quality of the "no exposure" benchmark value parameters will be monitored as a condition of the permit at a frequency of 1/year for further evaluation in future permit renewals. This will provide the Department with at least 5 effluent samples compared to the one required by the application.

Proposed Effluent Limitations and Monitoring Requirements

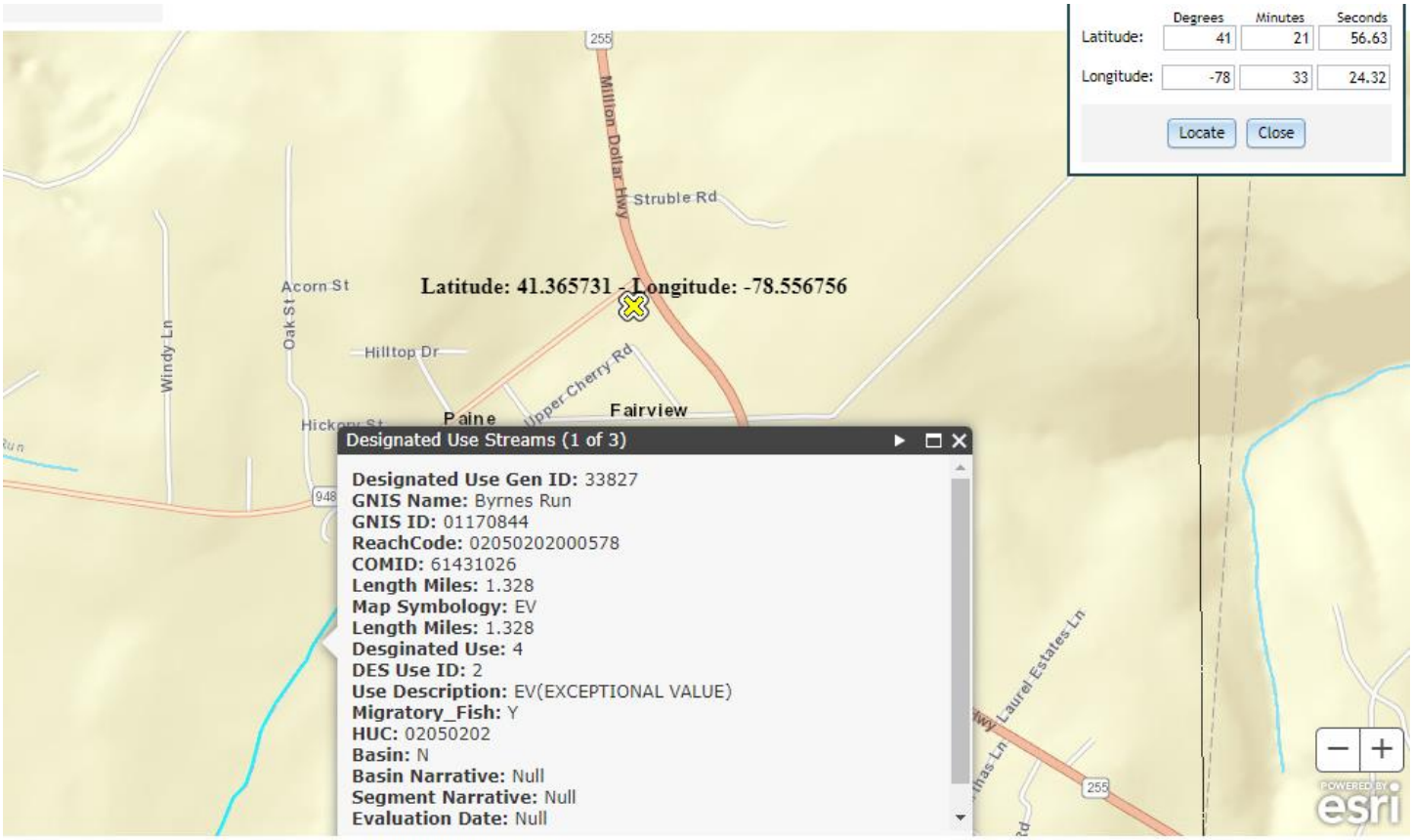
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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	Annual Average	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
COD	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Aluminum	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Manganese	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

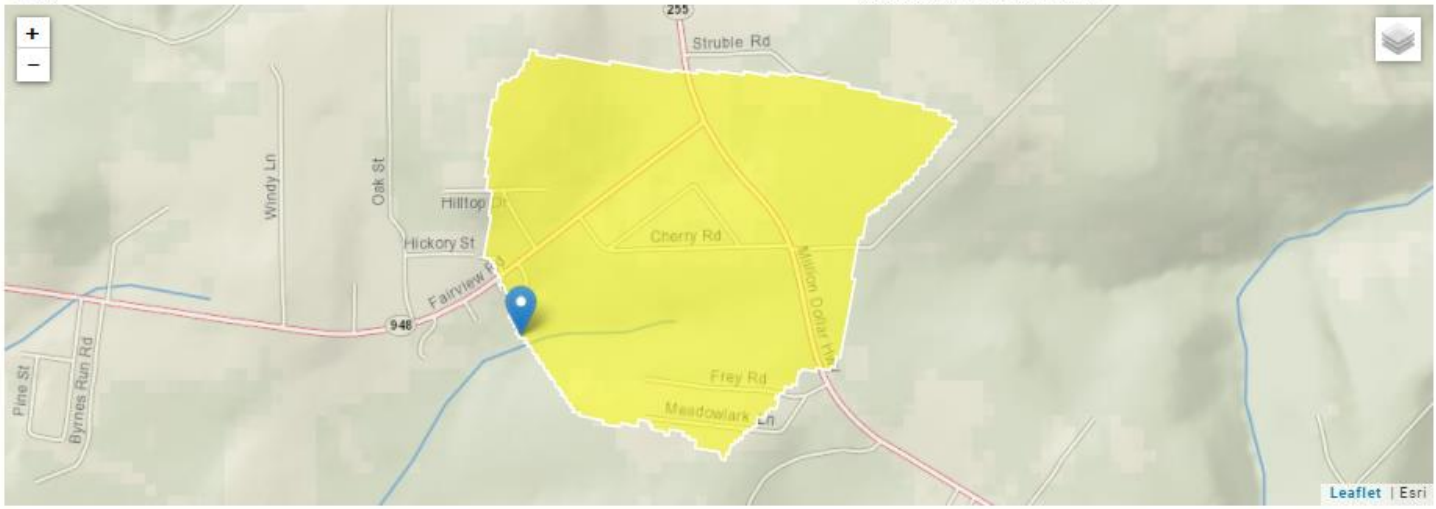
Compliance Sampling Location: outfalls 001 & 002 prior to mixing with other waters

Attachment A – eMAP Stream Designation



Attachment B – Streamstats Drainage Area

Region ID:	PA
Workspace ID:	PA20220202135139814000
Clicked Point (Latitude, Longitude):	41.36093, -78.56285
Time:	2022-02-02 08:52:03 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.4	square miles
PRECIP	Mean Annual Precipitation	45	inches
GLACIATED	Percentage of basin area that was historically covered by glaciers	0	percent
FOREST	Percentage of area covered by forest	60.2627	percent

Attachment C – Google Earth Aerial Picture (9/2017)

Attachment C – Google Earth Aerial Picture (9/2005)