pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0221686**
Facility Type	**Storm Water**	APS ID	**1012506**
Major / Minor	**Minor**	Authorization ID	**1307406**

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

Applicant and Facility Information

Applicant Name	**Macdonald & Owen Veneer & Lumber Co. Inc.**	Facility Name	**Macdonald & Owen Lumber**
Applicant Address	11424 Route 36 Brookville, PA 15825-8656	Facility Address	11424 Route 36 Brookville, PA 15825-8656
Applicant Contact	Ron Monnoyer	Facility Contact	Ron Monnoyer
Applicant Phone	(814) 849-3011	Facility Phone	(814) 849-3011
Client ID	281290	Site ID	258580
SIC Code	2421	Municipality	Oliver Township
SIC Description	Manufacturing - Sawmills And Planing Mills, General	County	Jefferson
Date Application Received	February 24, 2020	EPA Waived?	No
Date Application Accepted	March 4, 2020	If No, Reason	Discharge to a TMDL stream
Purpose of Application	Renewal of an NPDES Permit for an existing discharge of stormwater for industrial activities.		

Summary of Review

This facility is a dry kiln concentration yard for hardwood lumber, SIC Code 2421.

This permit does not qualify for a general PAG-03 permit because it discharges to Beaver Run, which has an HQ-CWF stream designation.

There are no open violations for subject client no. 281290 as of August 19, 2020.

The permittee is currently using the Departments eDMR system for reporting.

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 Trainee	August 19, 2020
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	October 26, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002, 004, 006, 007, and 008	Design Flow (MGD)	0
	41º 3' 54"		-79º 7' 9"
	41º 3' 54"		-79º 7' 4"
	41º 3' 51"		-79º 7' 2"
	41º 3' 50"		-79º 7' 1"
Latitude	41º 3' 49"	Longitude	-79º 7' 0"
Quad Name	Coolspring	Quad Code	1013
Wastewater Description:	Stormwater		

Receiving Waters	Beaver Run (HQ-CWF)	Stream Code	48447
NHD Com ID	123855528	RMI	4.74 - 5.06
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	1375	Slope (ft/ft)	-
Watershed No.	17-C	Chapter 93 Class.	HQ-CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	METALS		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status	Final	Name	Beaver Run

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

Nearest Downstream Public Water Supply Intake	Hawthorn Area Water Authority		
PWS Waters	Redbank Creek	Flow at Intake (cfs)	30.5
PWS RMI	29	Distance from Outfall (mi)	12.8

Changes Since Last Permit Issuance: No changes were proposed by the permittee for this renewal.

Other Comments: Beaver Run is a TMDL stream for metals, pH, iron, manganese, and aluminum. This TMDL is due to acid mine drainage. This facility does not have an assigned waste load allocation.

Compliance History

DMR Data for Outfall 002 (from May 1, 2019 to April 30, 2020)

Parameter	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19
Flow (MGD) Average Monthly					0.0058						0.0043	
pH (S.U.) Average Monthly					7.2						8.56	
COD (mg/L) Average Monthly					< 50						< 50	
TSS (mg/L) Average Monthly					< 5						9	
Oil and Grease (mg/L) Average Monthly					6.2						6.0	
Total Aluminum (mg/L) Average Monthly					< 0.10						0.10	
Total Iron (mg/L) Average Monthly					0.51						2.16	
Total Manganese (mg/L) Average Monthly					0.12						1.16	

DMR Data for Outfall 004 (from May 1, 2019 to April 30, 2020)

Parameter	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19
Flow (MGD) Average Monthly					0.0014						0.0029	
pH (S.U.) Average Monthly					7.4						8.66	
COD (mg/L) Average Monthly					< 50						< 50	
TSS (mg/L) Average Monthly					68						5	
Oil and Grease (mg/L) Average Monthly					13.8						8.2	
Total Aluminum (mg/L) Average Monthly					3.41						0.26	
Total Iron (mg/L) Average Monthly					2.86						0.37	
Total Manganese (mg/L) Average Monthly					0.14						< 0.05	

DMR Data for Outfall 006 (from May 1, 2019 to April 30, 2020)

Parameter	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19
Flow (MGD) Average Monthly					0.0007						0.0058	
pH (S.U.) Average Monthly					7.7						8.66	
COD (mg/L) Average Monthly					< 50						< 50	
TSS (mg/L) Average Monthly					75						17	
Oil and Grease (mg/L) Average Monthly					< 5.0						< 5	
Total Aluminum (mg/L) Average Monthly					4.46						0.54	
Total Iron (mg/L) Average Monthly					3.39						0.86	
Total Manganese (mg/L) Average Monthly					0.11						0.07	

DMR Data for Outfall 007 (from May 1, 2019 to April 30, 2020)

Parameter	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19
Flow (MGD) Average Monthly					0.0043						0.0014	
pH (S.U.) Average Monthly					7.3						8.34	
COD (mg/L) Average Monthly					< 50						< 50	
TSS (mg/L) Average Monthly					194						19	
Oil and Grease (mg/L) Average Monthly					< 5.0						5.7	
Total Aluminum (mg/L) Average Monthly					9.98						0.38	
Total Iron (mg/L) Average Monthly					5.91						0.39	
Total Manganese (mg/L) Average Monthly					0.18						< 0.05	

DMR Data for Outfall 008 (from May 1, 2019 to April 30, 2020)

Parameter	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19
Flow (MGD) Average Monthly					0.0086						0.0014	
pH (S.U.) Average Monthly					7.3						8.52	
COD (mg/L) Average Monthly					< 50						< 50	
TSS (mg/L) Average Monthly					25						22	
Oil and Grease (mg/L) Average Monthly					< 5.0						< 5	
Total Aluminum (mg/L) Average Monthly					0.97						0.62	
Total Iron (mg/L) Average Monthly					1.08						0.99	
Total Manganese (mg/L) Average Monthly					< 0.05						< 0.05	

Compliance History

Summary of DMRs:	Semi-Annual Reports are completed and submitted on time. All of 2019 DMRs have good effluent results. Over the past 5 years there has been reporting periods with high TSS, FE, Al, and COD.
Summary of Inspections:	The last inspection occurred on May 3, 2018, where no violations were noted. A PPC plan was needed and has been developed since the inspection.

Other Comments: A 2009 site visit revealed signs of mine seepage along the naturally occurring stormwater ditches, and along the riverbanks upstream and downstream from the discharge. The cause of stormwater pollution was determined to be from past mining activities in the area, which results in high levels of iron being reported.

BMPs at the site include a lot sweeper, catch basins, and sediment traps, which when properly maintained show a significant reduction in pollutant concentrations being reported.

Development of Effluent Limitations

Outfall No.	002	**Design Flow (MGD)**	0
Latitude	41º 3' 54.00"	**Longitude**	-79º 7' 9.00"
Outfall No.	004	**Design Flow (MGD)**	0
Latitude	41º 3' 54.00"	**Longitude**	-79º 7' 4.00"
Outfall No.	006	**Design Flow (MGD)**	0
Latitude	41º 3' 51.00"	**Longitude**	-79º 7' 2.00"
Outfall No.	007	**Design Flow (MGD)**	0
Latitude	41º 3' 50.00"	**Longitude**	-79º 7' 1.00"
Outfall No.	008	**Design Flow (MGD)**	0
Latitude	41º 3' 49.00"	**Longitude**	-79º 7' 0.00"

Wastewater Description: Stormwater

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
Oil & Grease	15	Average Monthly	-	25 Pa. Code 95.2(2)(ii)
Oil & Grease	30	IMAX	-	25 Pa. Code 95.2(2)(ii)

Comments: Oil & Grease continues to occasionally reach levels exceeding 8 mg/L, therefore it is recommended to re-instate the technology limit.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring requirements for pH, COD, TSS, Pentachlorophenol, Total Arsenic, Total Chromium, and Total Copper are recommended due to being found in Appendix D of the PAG-03 general permit, which is applicable to facilities with SIC Code 2421 for Timber Products. Total Iron, Total Aluminum, and Total Manganese occasionally reach concentrations exceeding water quality criteria, therefore are being carried over from the previous permit renewal in order to continue collecting data since the discharges are to a watercourse with an approved TMDL, but with no waste load allocations assigned to the facility.

Anti-Backsliding

Anti-backsliding does not apply.

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 002, 004, 006, 007, and 008 Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (1) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Semi-Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report SEMI AVG	XXX	XXX	XXX	XXX	XXX	1/6 months	Estimate
pH (S.U.)	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Arsenic (2)	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Chromium (2)	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Copper (2)	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Manganese	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Pentachloro-phenol (3)	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab

(2) Facilities that use chromium/copper/arsenic formulations must monitor for Total Arsenic, Total Chromium and Total Copper. For all other facilities, monitoring for Total Arsenic, Total Chromium and Total Copper is optional. If monitoring is not conducted, the permittee shall use a No Discharge Indicator (NODI) code on the DMR in lieu of sample data.

(3) Facilities that use chlorophenolic formulations must monitor for Pentachlorophenol. For all other facilities, monitoring for Pentachlorophenol is optional. If monitoring is not conducted, the permittee shall use a No Discharge Indicator (NODI) code on the DMR in lieu of sample data.

Compliance Sampling Location: At outfall 002, 004, 006, 007, and 008 at the spillway of the sediment ponds.