pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0007765**
Facility Type	**Industrial**	APS ID	**275920**
Major / Minor	**Minor**	Authorization ID	**1244363**

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

Applicant and Facility Information

Applicant Name	**Harley Davidson Motor Co. Operations Inc.**	Facility Name	**Harley Davidson Motorcycle Co.**
Applicant Address	1425 Eden Road	Facility Address	1425 Eden Road
	York, PA 17402-1599		York, PA 17402-1907
Applicant Contact	Sharon Fisher	Facility Contact	Sharon Fisher
Applicant Phone	717.852.6544	Facility Phone	717.852.6544
Client ID	80030	Site ID	443840
SIC Code	3751	Municipality	Springettsbury Township
SIC Description	Manufacturing - Motorcycles, Bicycles, And Parts	County	York
Date Application Received	August 31, 2018	EPA Waived?	Yes
Date Application Accepted	September 19, 2018	If No, Reason	

Purpose of Application: Renewal of existing Industrial NPDES Permit

Summary of Review

This protection report has been developed for the renewal of the NPDES permit for the existing industrial wastewater treatment facility for Harley Davidson Motor Company Operations, Inc. The NPDES permit application indicates that the facility has five outfalls (two NCCW and three stormwater).

Harley Davidson Motor Company Operations, Inc. produces and assembles motorcycles, parts and accessories. The production process includes fabrication, phosphatizing, acidic and alkaline cleaning, painting and assembly.

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		Aaron Baar / Permits Section	December 4, 2019
		Daniel W. Martin, P.E. / Environmental Engineer Manager	
		Maria D. Bebenek, P.E. / Program Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	004	Design Flow (MGD)	.005375
Latitude	39º 59' 17.96"	Longitude	-76º 42' 51.77"
Quad Name	York	Quad Code	1932
Wastewater Description:	Noncontact Cooling Water (NCCW), Stormwater		

Outfall No.	006	Design Flow (MGD)	.011929
Latitude	39º 59' 17.96"	Longitude	-76º 42' 51.77"
Quad Name	York	Quad Code	1932
Wastewater Description:	Noncontact Cooling Water (NCCW), Stormwater		

Outfall No.	010	Design Flow (MGD)	0
Latitude	39º 59' 17.96"	Longitude	-76º 42' 51.77"
Quad Name	York	Quad Code	1932
Wastewater Description:	Stormwater		

Outfall No.	009	Design Flow (MGD)	0
Latitude	39º 59' 17.96"	Longitude	-76º 42' 51.77"
Quad Name	York	Quad Code	1932
Wastewater Description:	Stormwater		

Outfall No.	011	Design Flow (MGD)	0
Latitude	39º 59' 25.75"	Longitude	-76º 42' 52.98"
Quad Name	York	Quad Code	1932
Wastewater Description:	Stormwater		

Receiving Waters	Unnamed Tributary to Codorus Creek (WWF, MF)	Stream Code	08059
NHD Com ID	57467545	RMI	0.05 (Varies)
Drainage Area	0.00933	Yield (cfs/mi^2)	0.2287
Q_{7-10} Flow (cfs)	0.00933	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	380.46	Slope (ft/ft)	
Watershed No.	7-H	Chapter 93 Class.	WWF, 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	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	N/A		

Nearest Downstream Public Water Supply Intake	Wrightsville Water Supply Company		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI	43.54	Distance from Outfall (mi)	16.80

Changes Documented in the Previous Permit Fact Sheet:

When the permit was renewed in September 2006, Harley-Davidson had six (6) outfalls (i.e., 002, 004, 005, 006, 007, and 008) that received non-contact cooling water (NCCW) and stormwater. NCCW from this site is the condensate from Heating Ventilation and Air Conditioning (HVAC) units. There have been major modifications to the facility due to an agreement of sale between Harley-Davidson and York County Industrial Development Authority (YCIDA). In summary, the YCIDA purchased the West Campus (i.e., west side of the Harley-Davidson property-approximately 58 acres) as part of the economic development for York County. Based on correspondences between Harley-Davidson and the Department, the following changes were made at the time of issuance of the February 2014 renewal:

- Outfall 002, which received NCCW and stormwater, was located on the West Campus, YCIDA property. All buildings that generated NCCW were demolished. Therefore, Outfall 002 was removed from the permit as requested by Harley-Davidson. However, since stormwater from the Harley-Davidson property is still discharged via this outfall, the sampling point has changed from Outfall 002 to inlet A1.9.1 which is currently owned by Harley Davidson. This inlet become Outfall 010.

- There were two (2) stormwater outfalls, Outfall 005 & 007, located northeast of the property. These outfalls no longer exist since there are no industrial activities performed nearby these outfalls. Therefore, Outfalls 005 and 007 were removed from the permit.

- Outfall 008 received stormwater only and is located on the West Campus, YCIDA property. Therefore, Outfall 008 will be removed from the permit. However, since stormwater from the Harley-Davidson property is still discharged via this outfall, the sampling point has changed from Outfall 008 to inlet B1.6. This inlet will become Outfall 009.

- Outfalls 004 and 006 are the only outfalls that receive NCCW and stormwater from the site. According to Harley-Davidson, the current maximum flow is 4,000 GPD and 9,000 GPD for Outfall 004 (Stormwater Basin #1) and 006 (Stormwater Basin #2), respectively. Harley-Davidson also indicated that NCCW from any future HVAC units will be discharged via these outfalls, which results in maximum flows of 5,375 GPD for Outfall 004 and 11,929 GPD for Outfall 006. However, all permit conditions will not be established based on these design flows since outfalls receive also stormwater which a volume of flows depends on the precipitation.

- There is a new stormwater basin (#3) located northeast of Building 3. As per the Department's decision, Harley-Davidson will be required to sample stormwater from this basin. The permit will include a condition that allows the permittee to petition the Department for removal or reduction of the sampling requirement from the permit at the end of the permit cycle. The Department may reduce or remove the sampling requirement based on the sampling results.

Changes Since Last Permit Issuance: N/A

Antidegradation Requirements (25 PA Code § 93.4):

- 25 PA Code § 93.3o classifies Corodus Creek and unnamed tributaries to Codorus Creek (from Oil Creek to Mouth) as warm water fishes surface waters. Accordingly, no high-quality water and exceptional value waters are impacted by this discharge. However, the permit conditions for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Class A Wild Trout Streams:

- No Class A Wild Trout Fishery is impacted by this discharge.

Anti-Backsliding

- All effluent limits proposed in this fact sheet are as stringent as effluent limits specified in the existing permit renewal. This approach is in accordance with 40 CFR §122.44(l(1).

303d Listed Streams:

- Based on the Department's web-based mapping system, *eMapPa* and the 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report (formerly 303(d) list), the receiving stream, unnamed tributary to Codorus Creek, is impaired for siltation and water/flow variability due to urban runoff/storm sewer (see table below). The permit conditions will be established to ensure that the existing/future discharge from this site will not cause or contribute significantly to this impairment.

	Source	Cause	Date Listed	TMDL Date
Unnamed Tributary to Codorus Creek Aquatic Life (1622)	Urban Runoff/Storm Sewers	Siltation	2004	
	Urban Runoff/Storm Sewers	Water/Flow Variability	2004	

Treatment Facility Summary

Treatment Facility Name: Harley Davidson Iw

WQM Permit No.	Issuance Date

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	N/A	N/A	N/A	N/A

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
N/A	N/A	N/A	N/A	N/A

Description

Harley-Davidson's Production Facility, located in Springettsbury Township, York County, manufacturers and assembles heavy weight motorcycles as well as limited parts and accessories. Manufacturing operations include welding, fabrication of tanks, fenders, and frames, phosphatizing, acidic and alkaline cleaning and painting. The company also requires the use of various oil and petroleum products. The western part of the property was sold to YCIDA in 2012 and all buildings located on the West Campus were demolished for the future redevelopment.

All outfalls currently receive stormwater drained from the site. Outfalls 004 and 006 receive small volumes of non-contact cooling water from HVAC units and discharge to existing stormwater basins. Accordingly, no treatment is currently required. According to the application, no chemical additives are introduced into NCCW at the facility.

The facility is classified under Standard Industrial Classification (SIC) Code 3751-*Motorcycle and Parts* Manufacturing. Previous water quality protection reports and the company's integrated contingency plan (i.e., PPC plan) indicate that the facility is classified as a SARA Title III, Section 313 facility.

There are no ELG limits appropriate to this industry.

Other Wastewater

Process wastewater generated from manufacturing operations previously was treated and discharged via Outfall 001. In 1995, this outfall was eliminated as all of process wastewaters are treated by the on-site wastewater treatment plant and then discharged to the Springettsbury Township WWTP. Accordingly, no process wastewater will be discharged into surface waters of the Commonwealth. Any sanitary wastewater generated from the site is also discharged to the Springettsbury Township WWTP. Also, a groundwater pump and treat system is currently operational on-site, with a separate NPDES permitted discharge (PA0085677) to Outfall 003.

Compliance History	
Summary of DMRs:	See attached spreadsheet.
Summary of Inspections:	Since the last NPDES permit renewal, there are no records in the Department's File Room that the facility has been inspected.
Other Comments:	Recent DMRs and the inspection reports indicate that the effluent has consistently met permit limits.

Compliance History

DMR Data for Outfall 004 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
Flow (MGD) Average Monthly	0.004	0.014	0.014	0.015	0.249	0.014	0.039	0.022	0.02	0.002	0.042	0.007
Flow (MGD) Daily Maximum	0.034	0.07	0.086	0.151	1.930	0.072	0.472	0.168	0.19	0.020	0.231	0.088
pH (S.U.) Minimum	GG	7.3	7.2	7.2	GG	GG	GG	GG	GG	GG	GG	7.2
pH (S.U.) Instantaneous Maximum	GG	7.3	7.2	7.2	GG	GG	GG	GG	GG	GG	GG	7.2
CBOD5 (mg/L) Daily Maximum										3.90		
COD (mg/L) Daily Maximum										23.9		
TSS (mg/L) Daily Maximum										3.73		
Oil and Grease (mg/L) Daily Maximum	GG			GG			GG			GG		
TKN (mg/L) Daily Maximum										0.76		
Total Phosphorus (mg/L) Daily Maximum										0.085		
Total Iron (mg/L) Daily Maximum										0.245		
Total Nickel (mg/L) Daily Maximum										FF		

DMR Data for Outfall 006 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
Flow (MGD) Average Monthly	0.008	0.029	0.034	0.041	0.080	0.035	0.102	0.061	0.06	0.078	0.126	0.04
Flow (MGD) Daily Maximum	0.087	0.172	0.239	0.438	0.569	0.177	1.043	0.384	0.60	0.478	0.527	0.371
pH (S.U.) Minimum	GG	7.72	7.19	7.38	GG	GG	GG	GG	GG	GG	GG	7.95

pH (S.U.) Instantaneous Maximum	GG	7.72	7.19	7.38	GG	GG	GG	GG	GG	GG	GG	7.95
CBOD5 (mg/L) Daily Maximum										FF		
COD (mg/L) Daily Maximum										21.5		
TSS (mg/L) Daily Maximum										2.84		
Oil and Grease (mg/L) Daily Maximum	GG			GG			GG			GG		
TKN (mg/L) Daily Maximum										FF		
Total Phosphorus (mg/L) Daily Maximum										FF		
Total Iron (mg/L) Daily Maximum										0.225		
Total Nickel (mg/L) Daily Maximum										FF		

DMR Data for Outfall 009 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
pH (S.U.) Minimum										7.5		
pH (S.U.) Instantaneous Maximum										7.5		
CBOD5 (mg/L) Daily Maximum										5.69		
COD (mg/L) Daily Maximum										39.3		
TSS (mg/L) Daily Maximum										FF		
Oil and Grease (mg/L) Daily Maximum										FF		
TKN (mg/L) Daily Maximum										0.54		
Total Phosphorus (mg/L) Daily Maximum										0.070		
Total Iron (mg/L) Daily Maximum										0.127		

Total Nickel (mg/L) Daily Maximum										FF		

DMR Data for Outfall 010 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
pH (S.U.) Minimum										8.3		
pH (S.U.) Instantaneous Maximum										8.3		
CBOD5 (mg/L) Daily Maximum										FF		
COD (mg/L) Daily Maximum										16.6		
TSS (mg/L) Daily Maximum										1.04		
Oil and Grease (mg/L) Daily Maximum										FF		
TKN (mg/L) Daily Maximum										FF		
Total Phosphorus (mg/L) Daily Maximum										FF		
Total Iron (mg/L) Daily Maximum										FF		
Total Nickel (mg/L) Daily Maximum										FF		

DMR Data for Outfall 011 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
pH (S.U.) Minimum										7.3		
pH (S.U.) Instantaneous Maximum										7.3		
CBOD5 (mg/L) Daily Maximum										2.14		
COD (mg/L) Daily Maximum										2.16		
TSS (mg/L) Daily Maximum										2.54		

Oil and Grease (mg/L) Daily Maximum										FF		
TKN (mg/L) Daily Maximum										FF		
Total Phosphorus (mg/L) Daily Maximum										FF		
Total Iron (mg/L) Daily Maximum										0.273		
Total Nickel (mg/L) Daily Maximum										FF		

Existing Effluent Limitations and Monitoring Requirements

Outfall 004

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	Daily Maximum	Maximum	Instant. Maximum		
CBOD5	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/quarter	Grab
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/week	Grab

Compliance Sampling Location: Outfall 004

Existing Effluent Limitations and Monitoring Requirements

Outfall 006

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	Daily Maximum	Maximum	Instant. Maximum		
CBOD5	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/quarter	Grab
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/week	Grab

Compliance Sampling Location: Outfall 006

Existing Effluent Limitations and Monitoring Requirements

Outfall 009

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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 009

Existing Effluent Limitations and Monitoring Requirements

Outfall 010

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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 010

Proposed Effluent Limitations and Monitoring Requirements

Outfall 011

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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 011

Development of Effluent Limitations

Outfall No. 004 **Design Flow (MGD)** .005375
Latitude 39º 59' 8.00" **Longitude** -76º 43' 1.00"
Wastewater Description: Noncontact Cooling Water (NCCW), Stormwater

Outfall No. 006 **Design Flow (MGD)** .011929
Latitude 39º 59' 3.00" **Longitude** -76º 43' 1.00"
Wastewater Description: Noncontact Cooling Water (NCCW), Stormwater

Outfalls 004 and 006 receive the condensate produced from HVAC units which is considered to be a minor pollutant source. This NCCW is not subject to any federal ELGs. Since no process wastewater or contact cooling water is discharged via these outfalls and only small volumes of the condensate will be discharged infrequently to existing stormwater basins prior to discharging into an unnamed tributary to Codorus Creek, no effluent limitations will be necessary for these outfalls.

The previous DMR results show that all effluent results of Oil and Grease have been below levels of concern. The DMRs also show that pH level has been consistently in a range between 6.0 and 9.0. Based on the current conditions of the facility and the previous DMR results, it is recommended that all existing monitoring requirements (i.e., weekly flow and pH, quarterly Oil and Grease) remain unchanged from the previous renewal. Previously, weekly Flow and pH and quarterly Oil and Grease requirements were established based on Best Professional Judgment (BPJ) and Table 6-4 of the Department's guidance, *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits*. Table 6-4 recommends a monitoring requirement for temperature; however, this is not necessary since NCCW and stormwater will be discharged to existing stormwater basins where significant cooling can be expected.

For Outfall 006, existing stormwater sampling parameters such as COD, CBOD5, Total Nickel, Total Suspended Solids, Total Phosphorus, Total Kjeldahl Nitrogen, and Total Iron will also remain in the permit based on BPJ. Monitoring requirements for these parameters were previously determined by using PAG-03 Appendix A as guidance since the facility is classified as a SARA Title III facility

The Department considers the Best Management Practices (BMPs) currently implemented as part of Harley-Davidson's ICP and those given in PAG-03 Appendix A to be Best Available Technology (BAT) for these stormwater discharges.

Development of Effluent Limitations

Outfall No. 010 **Design Flow (MGD)** 0
Latitude 39º 59' 13.90" **Longitude** -76º 42' 54.93"
Wastewater Description: Stormwater

Outfall No. 009 **Design Flow (MGD)** 0
Latitude 39º 59' 9.50" **Longitude** -76º 42' 55.06"
Wastewater Description: Stormwater

Outfall No. 011 **Design Flow (MGD)** 0
Latitude 39º 59' 24.66" **Longitude** -76º 42' 53.75"
Wastewater Description: Stormwater

Since these outfalls will receive stormwater only, no techonology-based, water quality-based, or Best Professional Judgment (BPJ) effluent limitations are necessary for these outfalls. Also, no in-stream modeling was performed. The Department considers the Best Management Practices (BMPs) currently implemented as part of Harley-Davidson's ICP and those given in PAG-03 Appendix A to be Best Available Technology (BAT) for these stormwater discharges.

Chesapeake Bay Requirements

The loadings of nutrients from these outfalls at this existing facility should be minimal and thus the facility is an insignificant IW facility for Chesapeake Bay discharge permitting pursuant to the SOPs and the Phase II Watershed Implementation Plan. Therefore, no additional nutrient monitoring requirements are necessary for these discharges.

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 004, 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	Daily Maximum	Maximum	Instant. Maximum		
CBOD5	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/quarter	Grab
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 004

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 004, Effective Period: Phase 1 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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/week	Grab

Compliance Sampling Location: Outfall 004

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 006, Effective Period: Phase 1 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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/week	Grab

Compliance Sampling Location: Outfall 006

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 006, 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	Daily Maximum	Maximum	Instant. Maximum		
CBOD5	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/quarter	Grab
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 006

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 009, 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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 009

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 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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 010

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 011, 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	Daily Maximum	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report	1/year	Grab
CBOD5	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
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 011

Outfall 004


320032 - DISCHARGE POINT
Harley-Davidson Vehicle Operations
Valley Forge
Eden Rd
Arsenal Rd
Mt Herman Blvd
Hillside Ct
Eberts Ln
Hamilton St
N Sherman St
Topper St
N East St
Canford St
N Harrison St
Bonneview St
Canterbury Ln
Arthur St
Coffee Mill Ln
Whiteford Rd
Toronita St
Amelia St
Ultravilloa Way
Utilities Way
San Carlos St
11th Ave
Kirkland Aly
10th Ave
N Queen St
N Pine St
Howard Aly
Columbia Ave
Manchester Twp
North York
Loucks Mill Rd
Norfolk Southern
Thomas St
Eagle Dr
Busch Blvd
Memorial Hwy
Graham St

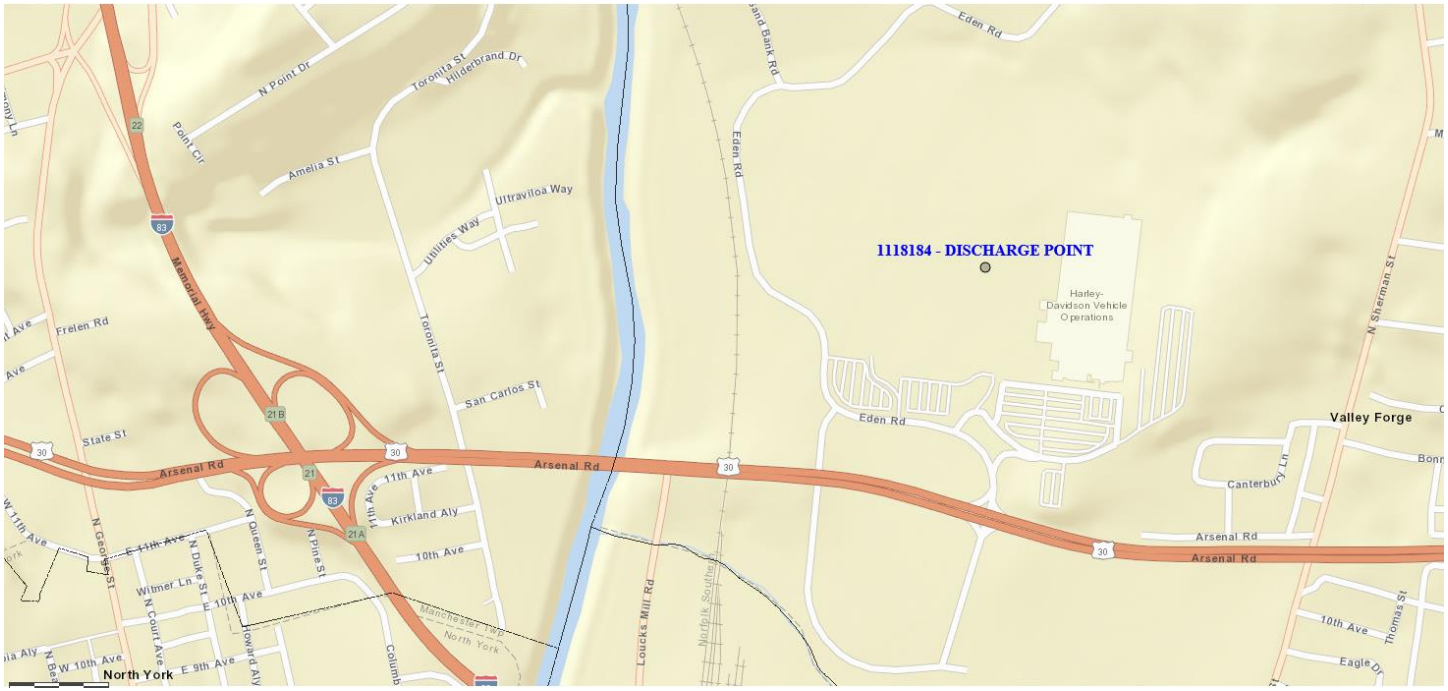
Outfall 006


764389 - DISCHARGE POINT
Harley-Davidson Vehicle Operations
Valley Forge
Arsenal Rd
Memorial Hwy
Busch Blvd
Eden Rd
Loucks Mill Rd
Norfolk Southern
Manchester Twp
North York
Springettsbury Twp
Spring Garden Twp
Mill Creek
York
Ultraviloa Way
Utilities Way
Toronita St
San Carlos St
Kirkland Aly
11th Ave
10th Ave
E 10th Ave
E 9th Ave
E 8th Ave
E 7th Ave
E 6th Ave
Fortner Way
Richcreek Ln
Laurel Way
Columbia Ave
Howard Aly
N Howard Ave
N Queen St
N Duke St
N Pine St
N Sherman St
Topper St
N East St
Canford St
N Harrison St
Bonneview St
Canterbury Ln
Arthur St
Coffee Mill Ln
Thomas St
Eagle Dr
Eberts Ln
Graham St
Plum St
S State St
Hamilton St

Outfall 009


1118185 - DISCHARGE POINT
Harley-Davidson Vehicle Operations
Eden Rd
Arsenal Rd
Memorial Hwy
Valley Forge
Mt Herman Blvd
Hillside Ct
Hamilton St
Topper St
Canford St
Bonneview St
Arthur St
Coffee Mill Ln
Canterbury Ln
N Sherman St
N East St
N Harrison St
Eberts Ln
Thomas St
Busch Blvd
Graham St
Amelia St
Ultravilloa Way
Utilities Way
Toronita St
San Carlos St
11th Ave
Kirkland Aly
10th Ave
E 10th Ave
9th Ave
E 8th Ave
E 7th Ave
N Queen St
N Pine St
N Duke St
Howard Aly
Columbia Ave
Manchester Twp
North York
Loucks Mill Rd
Eagle Dr

Outfall 010


1118184 - DISCHARGE POINT
Harley-Davidson Vehicle Operations
Eden Rd
Arsenal Rd
Valley Forge
North York
Memorial Hwy
Toronita St
Hilderbrand Dr
N Point Dr
Point Cir
Amelia St
Ultraviloa Way
Utilities Way
Freien Rd
State St
San Carlos St
11th Ave
Kirkland Aly
10th Ave
Witmer Ln
N Court Ave
E 9th Ave
W 10th Ave
N Queen St
N Pine St
N Duke St
Loucks Mill Rd
Canterbury Ln
N Sherman St
Thomas St
Eagle Dr

Outfall 011


1118186 - DISCHARGE POINT
Harley-Davidson Vehicle Operations
Valley Forge
Pleasureville Park
Arsenal Rd
Eden Rd
Paradise Rd
Fading Way
Sand Bank Rd
Norfolk Southern
Ridge Rd
City View Rd
Riale Oak Rd
Mt Herman Blvd
Hillside Ct
Eberts Ln
Hamilton St
N Sherman St
Topper St
N East St
Canford St
N Harrison St
Bonneview St
Canterbury Ln
Arthur St
Buckthorn Dr
Alder Way
Slater Hill Ln W
Slater Hill Ln E
N Point Dr
Toronita St
Hilderbrand Dr
Amelia St
Ultraviloa Way
Utilities Way
San Carlos St
11th Ave
Kirkland Aly
21B
30
21
83

Tools and References Used to Develop Permit	
☒	WQM for Windows Model (see Attachment)
☒	PENTOXSD for Windows Model (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☒	Toxics Screening Analysis Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☒	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☒	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☒	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☐	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☒	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
☐	Design Stream Flows, 391-2000-023, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other: