pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0244457**
Facility Type	**Storm Water**	APS ID	**1000851**
Major / Minor	**Minor**	Authorization ID	**1286875**

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

Applicant and Facility Information

Applicant Name	**Petro Heat & Power Co. Inc.**	Facility Name	**Southampton Bulk Petroleum Storage Plant**
Applicant Address	2187 Atlantic Street	Facility Address	950 Knowles Avenue
	Stamford, CT 06902-3734		Southampton, PA 18966
Applicant Contact	Derek Cygan	Facility Contact	Gary Ecott
Applicant Phone	(203) 325-5467	Facility Phone	(215) 942-5033
Client ID	270232	Site ID	717406
SIC Code	5171	Municipality	Upper Southampton Township
SIC Description	Wholesale Trade - Petroleum Bulk Stations And Terminals	County	Bucks
Date Application Received	August 15, 2019	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	Permit renewal to discharge stormwater from the facility.		

Summary of Review

The applicant requests renewal of a National Pollutant Discharge Elimination System (NPDES) permit to discharge contaminated stormwater from bulk petroleum storage plant into an unnamed tributary (UNT) to Southampton Creek.

Petroleum Heat and Power Company, Inc., is a petroleum products distributor and wholesaler. The Southampton bulk plant is an on-shore, light products, bulk petroleum storage plant used in the storage and distribution of petroleum products (medium grade fuel oil) to retail and commercial end-users throughout Philadelphia, and Bucks, Montgomery, and Delaware Counties, and the surrounding area. The facility consists of aboveground and underground storage tanks. The petroleum products are transferred to their respective tanks for storage upon delivery. Petroleum products are pumped to the loading racks via aboveground products piping and placed into tank wagon delivery and/or transport trucks with standard top loading products transfer equipment. Petroleum products are also pumped from the underground storage tanks to a gasoline dispenser island which is used for fleet fueling.

The Southampton bulk plant is designed so that the largest probable spill will be prevented from becoming a discharge into the waters of Pennsylvania. Appropriate secondary containment and/or diversionary structures will prevent spilled petroleum products from reaching the UNT to Southampton Creek. Accumulated water from precipitation in the storage tank secondary containment area (dike area) will be discharged to the UNT to Southampton Creek via Outfall 001. Outfall 002 receives stormwater from back of the tanks farm area through (white PVC) drainage pipe. Outfall 003 receives stormwater from loading dock area.

Accumulated water is drained off through a pipe with a gate valve located through the low point of the dike area. The dike drain valve is kept locked, closed and opened only to drain out rainwater as required. Facility effluent will be analyzed and visually inspected prior to, and attended during discharge. No water is drained from the dike area until visual inspection indicates contamination is not present. Effluent limits are based on provisions of the DEP's rule and regulations for

Approve	Deny	Signatures	Date
		Ketan Thaker / Project Manager	
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Summary of Review

petroleum marketing terminals. It is noted that this facility is not a Petroleum Marketing Terminal and therefore, it is not required to have oil-water separator at the facility.

Effluent limits for all the parameters will remain the same in this permit renewal.
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The Total Maximum Daily Load (TMDL) for Southampton Creek Watershed was completed on June 30, 2008, for Nutrients and Sediments. The TMDL requires effluent limits for nutrients to all the dischargers contributing nutrients to Southampton Creek. This is a stormwater discharge from a bulk petroleum storage plant to the Southampton Creek Watershed; therefore, TMDLs will not be applied to the discharge.

The following are the effluent limits:

Parameter	Average Monthly Limits (mg/l)
Flow	Report
Oil and Grease	15.0
pH	6.0–9.0 STU
Total Recoverable Petroleum Hydrocarbons	15.0
Total Suspended Solids	30

Upper Southampton Township received written notification on June 19, 2019; by certified mail regarding this application to the Department.

Bucks County received written notification on June 19, 2019; by certified mail regarding this application to the Department.

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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	40Âº 10' 18.31"	Longitude	-75Âº 2' 57.65"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Southampton Creek (TSF, MF)	Stream Code	
NHD Com ID	25599799	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, DEWATERING, FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS		
Source(s) of Impairment	RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS)		
TMDL Status	Final	Name	Southampton Creek

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

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	40Âº 10' 18.31"	Longitude	-75Âº 2' 57.65"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Southampton Creek (TSF, MF)	Stream Code	
NHD Com ID	25599799	RMI	0.7700
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, DEWATERING, FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS		
Source(s) of Impairment	RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS)		
TMDL Status	Final	Name	Southampton Creek

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

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0
Latitude	40Âº 10' 18.31"	Longitude	-75Âº 2' 57.65"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Southampton Creek (TSF, MF)	Stream Code	
NHD Com ID	25599799	RMI	0.7700
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, DEWATERING, FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS		
Source(s) of Impairment	RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS)		
TMDL Status	Final	Name	Southampton Creek

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

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

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 (GPD) Daily Maximum						1440						
pH (S.U.) Minimum						7.7						
pH (S.U.) Instantaneous Maximum						7.7						
TSS (mg/L) Average Monthly						8.96						
TSS (mg/L) Daily Maximum						8.96						
Oil and Grease (mg/L) Average Monthly						< 1.4						
Oil and Grease (mg/L) Daily Maximum						< 1.4						
TRPH (mg/L) Average Monthly						E						
TRPH (mg/L) Daily Maximum						E						

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 Quarterly	Daily Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
TSS	XXX	XXX	XXX	30.0	100.0	100	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	15.0	30.0	30	1/quarter	Grab
TRPH	XXX	XXX	XXX	15.0	30.0	30	1/quarter	Grab

Compliance Sampling Location: Outfall 001

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, 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	Daily Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/year	Calculation
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TSS	XXX	XXX	XXX	30.0	100.0	100	1/year	Grab
Oil and Grease	XXX	XXX	XXX	15	30	30	1/year	Grab
TRPH	XXX	XXX	XXX	15.0	30.0	30	1/year	Grab

Compliance Sampling Location: from white PVC drainage pipe behind the tank farm at Outfall 002

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 003, 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	Semi-Annual Average	Daily Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Calculation
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/6 months	Grab
TSS	XXX	XXX	XXX	30.0	100.0	100	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	15	30	30	1/6 months	Grab
TRPH	XXX	XXX	XXX	15.0	30.0	30	1/6 months	Grab

Compliance Sampling Location: at Outfall 003