

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

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

Application No. PA0011231  
APS ID 1021499  
Authorization ID 1323474

**Applicant and Facility Information**

Applicant Name	<u>MIPC, LLC</u>	Facility Name	<u>Chelsea Pipeline Station and Tank Farm</u>
Applicant Address	<u>920 Cherry Tree Road</u> <u>Aston, PA 19014-9997</u>	Facility Address	<u>920 Cherry Tree Road</u> <u>Aston, PA 19014-9997</u>
Applicant Contact	<u>Christine Shorokey</u>	Facility Contact	<u>John Bowen</u>
Applicant Phone	<u>(610) 364-8187</u>	Facility Phone	<u>(484) 816-3303</u>
Client ID	<u>298743</u>	Site ID	<u>502590</u>
SIC Code	<u>4613</u>	Municipality	<u>Upper Chichester Township</u>
SIC Description	<u>Trans. &amp; Utilities - Refined Petroleum Pipelines</u>	County	<u>Delaware</u>
Date Application Received	<u>August 12, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal.</u>		

**Summary of Review**

The applicant requests renewal of an NPDES permit to discharge stormwater runoff and treated groundwater from Chelsea Pipeline Station and Tank Farm to Boozers Run, a tributary to Marcus Hook Creek in Upper Chichester Township, Delaware County.

The Chelsea Station is spread over an area of 153.732 acres of land in Aston Township, Bethel Township and Upper Chichester Township. Most of the area and the outfalls are located in Upper Chichester Township. Therefore, the station is considered located in Upper Chichester Township.

Based on the DMR review, the discharge is in compliance with the permit limits and the facility is operating well according to the Operations Section. There are no changes in the treatment units, influent quality, and the stream designation.

The outfalls at the site are discussed below:

Outfall 001: discharges stormwater from pipeline manifold area. The stormwater from the pipeline manifold area flows to an oil water separator and eventually discharges to Boozers Run. The capacity of the separator is 700 gpm.

Outfall 002: discharges stormwater from tank dike areas. Stormwater from tank dikes 704, 706 and 707 flows to a 700 gpm oil water separator and stormwater from tank dike 715 flows to a 110 gpm oil water separator. These two oil water separators discharge to Pond no. 2. Eventually the overflow from Pond no. 2 discharges to Boozers Run.

Outfall 003: discharges stormwater from tank dike areas and treated groundwater from the groundwater treatment system at the site. Stormwater from tank dikes 700, 701, 702, 703, 708, 709, 710, and 711 flows to two oil water separators in parallel and then to Pond no. 3. The capacities of the oil water separators are 700 gpm each. The overflow from the Pond discharges

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	August 27, 2020
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

**Summary of Review**

to Boozers Run.

The parameters in the existing permit; Flow (monitoring), Oil and Grease (15 mg/l) and TRPH (15 mg/l) are recommended for the new permit. TSS monitoring requirement and pH limit (6.0 to 9.0 SU) are also included in the new permit. These are appropriate and consistent with the requirements of similar type of discharges.

Monitoring Point 103: discharges treated groundwater to the stormwater drainage system as part of the ongoing environmental cleanup activities at the site. The groundwater treatment system consists of a dual phase vacuum extraction system (DPVES) to extract vapor and groundwater from 12 extraction wells. Total recovered groundwater is pumped directly to the DPVES via underground HDPE lines for processing through the oil-water separator and then to a transfer tank. From the transfer tank the groundwater is pumped to two sediment bag filters and then to a low-profile air stripper. The treated groundwater from the air stripper is pumped to two 500-pound liquid phase GAC vessels in series with final effluent discharged to the tank 703 secondary containment dike which ultimately leads to Boozers Run through outfall 003.

The existing limits are recommended to continue as follows:

<u>Parameter</u>	<u>Limit (mg/l)</u>
pH	6.0 to 9.0 SU
TSS	30
Oil and Grease	15
Dissolved Iron	7.0 (Inst. Max.)
Ethylbenzene	Report
Benzene	0.001
Total BTEX	0.1
Toluene	Report
Total Xylenes	Report
MTBE	Report

These requirements are consistent with the General Permit requirements for discharges from Petroleum (Gasoline) Contaminated Groundwater Remediation Systems.

The receiving stream is not named on the topographical map. However, based on the information provided, it is called Boozers Run, a tributary to Marcus Hook Creek and is classified as warm water and migratory fishery.

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.

Act 14 Notifications:

- Upper Chichester Township - July 10, 2020
- Bethel Township - July 8, 2020
- Aston Township - July 7, 2020
- Delaware County - July 7, 2020

Permit Conditions:

- A. Acquire Necessary Property Rights
- B. Proper Sludge Disposal

**Summary of Review**

- C. WQM Permit Requirement
- D. BAT/ELG Reopener
- E. BTEX Measurement
- F. No Stripper Tower Cleaning Water
- G. Continuous Operation of Treatment Facility
- H. Stormwater Requirements
- I. Petroleum Marketing Terminals Requirements

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>39° 51' 22.96"</u>	Longitude	<u>-75° 27' 3.45"</u>
Quad Name	<u>Marcus Hook</u>	Quad Code	<u>2042</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Unnamed Tributary to Marcus Hook Creek (Boozers Run) (WWF, MF)</u>	Stream Code	<u>00514</u>
NHD Com ID	<u>25602641</u>	RMI	<u>1.33</u>
Watershed No.	<u>3-G</u>	Chapter 93 Class.	<u>WWF, MF</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, urban runoff/storm sewers</u>		

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>39° 51' 25.30"</u>	Longitude	<u>-75° 27' 8.32"</u>
Quad Name	<u>Marcus Hook</u>	Quad Code	<u>2042</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Unnamed Tributary to Marcus Hook Creek (Boozers Run) (WWF, MF)</u>	Stream Code	<u>00514</u>
NHD Com ID	<u>25602871</u>	RMI	<u>1.51</u>
Watershed No.	<u>3-G</u>	Chapter 93 Class.	<u>WWF</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, urban runoff/storm sewers</u>		

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>003</u>	Design Flow (MGD)	<u>.00864</u>
Latitude	<u>39° 51' 22.95"</u>	Longitude	<u>-75° 27' 4.11"</u>
Quad Name	<u>Marcus Hook</u>	Quad Code	<u>2042</u>
Wastewater Description: <u>Stormwater and treated ground water*</u>			
Receiving Waters	<u>Unnamed Tributary to Marcus Hook Creek (Boozers Run) (WWF, MF)</u>	Stream Code	<u>00514</u>
NHD Com ID	<u>25602641</u>	RMI	<u>1.7</u>
Watershed No.	<u>3-G</u>	Chapter 93 Class.	<u>WWF</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, urban runoff/storm sewers</u>		

\*Groundwater from dual phase vacuum extraction system via IMP 103

**Compliance History**

**DMR Data for Outfall 001 (from July 1, 2019 to June 30, 2020)**

Parameter	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19
Flow (GPD) Daily Maximum	00			00			00					
Oil and Grease (mg/L) Average	< 5.00			< 5			< 5.00					
Oil and Grease (mg/L) Instantaneous Maximum	< 5.00			< 5			< 5.00					
TRPH (mg/L) Average	< 5.0			< 5			< 5.0					
TRPH (mg/L) Instantaneous Maximum	< 5.0			< 5			< 5.0					

**DMR Data for Outfall 002 (from July 1, 2019 to June 30, 2020)**

Parameter	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19
Flow (GPD) Daily Maximum	00			00			50					
Oil and Grease (mg/L) Average	< 5.00			< 5			< 2.1					
Oil and Grease (mg/L) Instantaneous Maximum	< 5.00			< 5			< 2.1					
TRPH (mg/L) Average	< 5.0			< 5.0			< 2.1					
TRPH (mg/L) Instantaneous Maximum	< 5.0			< 5.0			< 2.1					

**DMR Data for Outfall 003 (from July 1, 2019 to June 30, 2020)**

Parameter	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19
Flow (GPD) Daily Maximum	00			00			50					
Oil and Grease (mg/L) Average	< 5.0			< 5			< 2.2					

**NPDES Permit Fact Sheet**  
**Chelsea Pipeline Station and Tank Farm**

**NPDES Permit No. PA0011231**

Oil and Grease (mg/L) Instantaneous Maximum	< 5.0			< 5			< 2.2					
TRPH (mg/L) Average	< 5.00			< 5			< 2.2					
TRPH (mg/L) Instantaneous Maximum	< 5.00			< 5			< 2.2					

**DMR Data for Outfall 103 (from July 1, 2019 to June 30, 2020)**

Parameter	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19
Flow (GPD) Average Monthly	2076.90	944.13				419.33	425.56	723.26	2043.37	2456.55	2582.1	2988.92
pH (S.U.) Instantaneous Minimum	6.6	6.4				6.78	6.35	6.0	6.5	6.79	6.7	6.9
pH (S.U.) Instantaneous Maximum	6.9	6.7				6.89	6.5	6.5	6.8	6.89	6.8	7.4
TSS (mg/L) Average Monthly	< 2.5	< 2.5				< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
TSS (mg/L) Instantaneous Maximum	< 2.5	< 2.5				< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Oil and Grease (mg/L) Average	< 1.4						< 1.4					
Oil and Grease (mg/L) Instantaneous Maximum	< 1.4						< 1.4					
Dissolved Iron (mg/L) Instantaneous Maximum	< 0.0768	< 0.0768				< 0.0768	< 0.0768	< 0.0264	< 0.0264	< 0.111	< 0.111	< 0.111
Ethylbenzene (mg/L) Average Monthly	< 0.00030	< 0.00030				< 0.0003	< 0.0003	< 0.0003	< 0.00030	< 0.0003	< 0.0003	< 0.0003
Ethylbenzene (mg/L) Instantaneous Maximum	< 0.00030	< 0.00030				< 0.0003	< 0.0003	< 0.0003	< 0.00030	< 0.0003	< 0.0003	< 0.0003
Benzene (mg/L) Average Monthly	< 0.00020	< 0.00020				< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.0002	< 0.00009	< 0.00009
Benzene (mg/L) Instantaneous Maximum	< 0.00020	< 0.00020				< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.0002	< 0.00009	< 0.00009

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Total BTEX (mg/L) Average Monthly	< 0.00153	< 0.00153				< 0.00153	< 0.00153	< 0.00153	< 0.00153	< 0.00153	< 0.00092	< 0.00092
Total BTEX (mg/L) Instantaneous Maximum	< 0.00153	< 0.00153				< 0.00153	< 0.00153	< 0.00153	< 0.00153	< 0.00153	< 0.00092	< 0.00092
Toluene (mg/L) Average Monthly	< 0.00038	< 0.00038				< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00025	< 0.00025
Toluene (mg/L) Instantaneous Maximum	< 0.00038	< 0.00038				< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00025	< 0.00025
Total Xylenes (mg/L) Average Monthly	< 0.00065	< 0.00065				< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.00028	< 0.00028
Total Xylenes (mg/L) Instantaneous Maximum	< 0.00065	< 0.00065				< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.00065	< 0.00028	< 0.00028
MTBE (mg/L) Average Monthly	< 0.00047	< 0.00047				< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00013	< 0.00013
MTBE (mg/L) Instantaneous Maximum	< 0.00047	< 0.00047				< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00013	< 0.00013



**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/quarter	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	15 Avg Qrtly	XXX	30	1/quarter	Grab
TRPH	XXX	XXX	XXX	15.0 Avg Qrtly	XXX	30.0	1/quarter	Grab

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/quarter	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
TSS	XXX	XXX	XXX	Report 15	XXX	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	Avg Qrtly	XXX	30	1/quarter	Grab
TRPH	XXX	XXX	XXX	15.0 Avg Qrtly	XXX	30.0	1/quarter	Grab

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
Flow (GPD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/quarter	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
TSS	XXX	XXX	XXX	Report 15	XXX	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	Avg Qrtly	XXX	30	1/quarter	Grab
TRPH	XXX	XXX	XXX	15.0 Avg Qrtly	XXX	30.0	1/quarter	Grab

**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.

**Monitoring Point 103, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	75	2/month	Grab
Oil and Grease	XXX	XXX	XXX	15 SEMI AVG	XXX	30	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	XXX	7.0	2/month	Grab
Ethylbenzene	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab
Benzene	XXX	XXX	XXX	0.001	XXX	0.0025	2/month	Grab
Total BTEX	XXX	XXX	XXX	0.1	XXX	0.25	2/month	Grab
Toluene	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab
Total Xylenes	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab
MTBE	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab