pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0053635**
Facility Type	**Storm Water**	APS ID	**1031623**
Major / Minor	**Minor**	Authorization ID	**1341901**

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

Applicant and Facility Information

Applicant Name	**Buckeye Terminals, LLC**	Facility Name	**Buckeye Pipe Line Malvern Terminal**
Applicant Address	5002 Buckeye Road, P.O. Box 368	Facility Address	8 South Malin Road
	Emmaus, PA 18049-0368		Malvern, PA 19355
Applicant Contact	Timothy Conlin	Facility Contact	Timothy Conlin
Applicant Phone	(484) 583-7481	Facility Phone	(484) 583-7481
Client ID	241053	Site ID	4597
SIC Code	4226	Municipality	East Whiteland Township
SIC Description	Trans. & Utilities - Special Warehousing And Storage	County	Chester
Date Application Received	January 28, 2021	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application .

Summary of Review

The applicant requests a renewal of an NPDES permit to discharge stormwater associated with the industrial activities from their facility.

Buckeye Pipeline Malvern Terminal is a refined petroleum transportation terminal. The facility consists of in-coming and out-going pipeline systems and aboveground storage tanks. Stormwater from tank containment dikes is discharged to Outfalls 002, 003, and 004.

Stormwater is collected in tank containment dikes and in one 10,000 gallons underground storage tank (UST) collected from the loading rack area. Stormwater from the UST is transported to an offsite waste facility (Formerly it was discharged to Outfall 001).

Outfall 002 receives stormwater from dike areas of tank numbers 101-106 in the west part of the facility.
Outfall 003 receives stormwater from dike areas of tank numbers 1-5 in the center of the facility.
Outfall 004 receives stormwater from dike area of tank number100 in the south part of the facility.

The tank dikes are inspected for visible sheen and odors after every rain event prior to opening the valves to allow water to flow to each respective outfall.

There had been a groundwater remediation system operating at the site in the past, but it is no longer in operation and it is believed that the operation of the system was discontinued before Buckeye's acquisition of the terminal in 2005. Currently the site is on the path to closure with a planned Remedial Investigation Report/Site Characterization Report to be submitted to DEP later this year.

Approve	Deny	Signatures	Date
X		*Sara Abraham* Sara Reji Abraham, E.I.T. / Project Manager	March 3, 2021
X		*Pravin Patel* Pravin C. Patel, P.E. / Environmental Engineer Manager	03/03/2021

Summary of Review

The current permit has effluent requirements for Ethylbenzene, Benzene, BTEX Total, Naphthalene, Toluene and Xylenes Total due to the impact of the historic groundwater contamination. The review of the edmrs shows these parameters are consistently very low in the discharge with concentrations below their Target Quantitation Limits.
Therefore, it is not necessary to keep these requirements in the new permit and are eliminated.

Other than a couple of pH, and Oil and Grease violations, the discharge has been in compliance with the permit requirements.

The following current effluent limits are recommended to continue to the new permit:

Parameters	Limits mg/l	
Oil and Grease	15 (Ave. Mon.)	30 (Inst. Max.)
TRPH	15 (Ave. Mon.)	30 (Inst. Max.)
pH	6.0 to 9.0 S.U.	

TSS monitoring is also included in the permit which is appropriate and consistent with the other similar discharges in the area. Also, this is consistent with Appendix L of the General Permit for Discharges of Stormwater Associated with Industrial Activities.

Since no oil/water separator is operating at the site, the language referencing the oil/water separator is not included in Part C of the permit.

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:

East Whiteland Township - February 4, 2021
Chester County - January 26, 2021

Permit Conditions:

A. Stormwater Outfalls
B. Best Management Practices
C. Routine Inspections
D. PPC Plan
E. Stormwater Monitoring
F. Acquire Necessary Property Rights
G. Proper Sludge Disposal

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	40º 2' 26.54"	Longitude	-75º 32' 8.90"
Quad Name	Malvern	Quad Code	1841
Wastewater Description:	Stormwater received from tank containment dikes 101, 102, 103, 104, 105, and 106.		
Receiving Waters	Little Valley Creek (EV)	Stream Code	00995
NHD Com ID	25980396	RMI	0.9
Watershed No.	3-F	Chapter 93 Class.	EV
Assessment Status	Impaired		
Cause(s) of Impairment	cause unknown, flow regime modification, habitat alterations, pathogens, polychlorinated biphenyls (pcbs), siltation		
Source(s) of Impairment	habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers		
TMDL Status	Final	Name	Valley and Little Valley Creeks

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0
Latitude	40º 2' 26.50"	Longitude	-75º 32' 8.90"
Quad Name	Malvern	Quad Code	1841
Wastewater Description:	Stormwater received from tank containment dikes 1, 2, 3, 4, and 5.		
Receiving Waters	Little Valley Creek (EV)	Stream Code	00995
NHD Com ID	25980396	RMI	0.9
Watershed No.	3-F	Chapter 93 Class.	EV
Assessment Status	Impaired		
Cause(s) of Impairment	cause unknown, flow regime modification, habitat alterations, pathogens, polychlorinated biphenyls (pcbs), siltation		
Source(s) of Impairment	habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers		
TMDL Status	Final	Name	Valley and Little Valley Creeks

Discharge, Receiving Waters and Water Supply Information

Outfall No.	004	Design Flow (MGD)	0
Latitude	40º 2' 26.90"	Longitude	-75º 32' 8.85"
Quad Name		Quad Code	
Wastewater Description:	Stormwater received from tank containment dike 100.		
Receiving Waters	Little Valley Creek (EV)	Stream Code	00995
NHD Com ID	25980396	RMI	0.9
Watershed No.	3-F	Chapter 93 Class.	EV
Assessment Status	Impaired		
Cause(s) of Impairment	cause unknown, flow regime modification, habitat alterations, pathogens, polychlorinated biphenyls (pcbs), siltation		
Source(s) of Impairment	habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers		
TMDL Status	Final	Name	Valley and Little Valley Creeks

Compliance History

DMR Data for Outfall 002 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD) Average	0.5098	0.3751		0.4119	0.69	0.557	0.2607	0.2753	0.5011	0.3780	0.2811	0.3034
pH (S.U.) Minimum	7.6	7.04		6.86	6.97	6.44	6.56	7.02	6.95	7.1	5.50	8.37
pH (S.U.) Maximum	7.6	7.04		6.86	6.97	6.44	6.56	7.02	6.95	7.1	5.50	8.37
Oil and Grease (mg/L) Average Monthly	< 4.9	< 5.1		< 4.8	< 5.5	5.2	6.1	< 5.2	< 4.9	< 5.3	< 4.9	< 5
Oil and Grease (mg/L) Instantaneous Maximum	< 4.9	< 5.1		< 4.8	< 5.5	5.2	6.1	< 5.2	< 4.9	< 5.3	< 4.9	< 5
TRPH (mg/L) Average Monthly	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5
TRPH (mg/L) Instantaneous Maximum	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5
Ethylbenzene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total BTEX (mg/L) Average Monthly	0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Total BTEX (mg/L) Instantaneous Maximum	0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Naphthalene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthalene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Toluene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toluene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenes (mg/L) Average Monthly	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Xylenes (mg/L) Instantaneous Maximum	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

DMR Data for Outfall 003 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD) Average	0.0714	0.0525		0.0577	0.09	0.078	0.0365	0.0386	0.0702	0.0529	0.0394	0.0425
pH (S.U.) Minimum	7.75	7.01		6.84	6.91	6.31	6.83	7.11	6.76	6.07	5.82	7.18
pH (S.U.) Maximum	7.75	7.01		6.84	6.91	6.31	6.83	7.11	6.76	6.07	5.82	7.18
Oil and Grease (mg/L) Average Monthly	< 4.8	< 5.1		< 4.8	< 5.0	5.8	19.3	< 5.0	< 5.0	< 5.0	< 4.8	< 5
Oil and Grease (mg/L) Instantaneous Maximum	< 4.8	< 5.1		< 4.8	< 5.0	5.8	19.3	< 5.0	< 5.0	< 5.0	< 4.8	< 5
TRPH (mg/L) Average Monthly	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	7.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5
TRPH (mg/L) Instantaneous Maximum	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	7.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5
Ethylbenzene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total BTEX (mg/L) Average Monthly	0.0025	0.0025		0.0025	0.0025	0.0315	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025

Total BTEX (mg/L) Instantaneous Maximum	0.0025	0.0025		0.0025	0.0025	0.0315	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Naphthalene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthalene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toluene (mg/L) Average Monthly	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005
Toluene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenes (mg/L) Average Monthly	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Xylenes (mg/L) Instantaneous Maximum	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

DMR Data for Outfall 004 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD) Average	0.1542	0.1134				0.168	0.0789	0.0833	0.1516	0.1143	0.0850	0.0918
pH (S.U.) Minimum	7.39	6.94				7.36	8.37	6.98	6.85	7.03	5.70	7.12
pH (S.U.) Maximum	7.39	6.94				7.36	8.37	6.98	6.85	7.03	5.70	7.12
Oil and Grease (mg/L) Average Monthly	< 4.9	< 5.0				< 4.8	11.1	< 5.1	< 5.0	< 4.9	< 5.2	< 5
Oil and Grease (mg/L) Instantaneous Maximum	< 4.9	< 5.0				< 4.8	11.1	< 5.1	< 5.0	< 4.9	< 5.2	< 5
TRPH (mg/L) Average Monthly	< 5.0	< 5.0				< 5.0	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5
TRPH (mg/L) Instantaneous Maximum	< 5.0	< 5.0				< 5.0	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5
Ethylbenzene (mg/L) Average Monthly	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Benzene (mg/L) Average Monthly	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total BTEX (mg/L) Average Monthly	0.0025	0.0025				0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Total BTEX (mg/L) Instantaneous Maximum	0.0025	0.0025				0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Naphthalene (mg/L) Average Monthly	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthalene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toluene (mg/L) Average Monthly	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toluene (mg/L) Instantaneous Maximum	< 0.0005	< 0.0005				< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenes (mg/L) Average Monthly	< 0.001	< 0.001				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Xylenes (mg/L) Instantaneous Maximum	< 0.001	< 0.001				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Compliance History

Effluent Violations for Outfall 002, from: February 1, 2020 To: December 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	02/29/20	Min	5.50	S.U.	6.0	S.U.

Effluent Violations for Outfall 003, from: February 1, 2020 To: December 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	02/29/20	Min	5.82	S.U.	6.0	S.U.
Oil and Grease	06/30/20	Avg Mo	19.3	mg/L	15	mg/L

Effluent Violations for Outfall 004, from: February 1, 2020 To: December 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	02/29/20	Min	5.70	S.U.	6.0	S.U.

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/month	Grab
TRPH	XXX	XXX	XXX	15	XXX	30	1/month	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) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/month	Grab
TRPH	XXX	XXX	XXX	15	XXX	30	1/month	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 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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/month	Grab
TRPH	XXX	XXX	XXX	15	XXX	30	1/month	Grab