PA DEP – Permits Section – Erosion & Sediment Control Permit

RECORD OF DECISION

E&S Permit A	pplication No.:	ESG0300015002
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Applicant: Sunoco Logistics, L.P.	Project Name: <u>Pennsy</u>	lvania Pipeline Project (aka Mariner East II)
Watershed: See Attached Tables EV	☐ HQ ☐ Non-SP ☐ CD R	Reviewer: Multiple CD Reviewers
Phased Project? YES \(\square\) NO \(\square\)	Project Area: 1692 acres	Disturbed Area: 1692 acres
E&S Plan components: Revie	wed and approved by: CD	☑ DEP
Blair County Conservation District perf County.	ormed the technical E&S review f	or the portion of the project located in Huntingdon
	iment Control (E&S) Plans for thi	York County Conservation Districts have performed a s project. This review resulted in technical review

Upon technical review of the response documents from the applicant, some remaining issues with the proposed E&S plans were identified by the County Conservation Districts (CCD's) as inadequately addressed. These issues were elevated to the Program Management and Bureau for consideration. The Program Management and Bureau reviewed the concerns raised by the CCDs; deficiencies were identified that would preclude the DEP from issuing the permit without further information from the applicant. The applicant then provided the additional information addressing the final deficiencies that were identified.

A table of documents reviewed as part of this submittal follows:

Blair County

Item	Description	Dated
ES-0.01 to ES-0.24	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.25 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-3.01 to ES-3.73	Erosion and Sediment Control and Site Restoration Plan	November 2016
ES-3.74 to ES-3.76	Access Road-Erosion and Sediment Control and Site Restoration Plan	November 2016
,	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.04 & ES-0.08	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06, ES-0.22 & ES-0.24	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/28/2017
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/6/2017
ES-0.21	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-3.44 & ES-3.52	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017

ES-3.46 & ES-3.47	revised Erosion and Sediment Control and Site Restoration Plan	2/1/2017
ES-3.67	revised Erosion and Sediment Control and Site Restoration Plan	11/28/2016
Narrative	Erosion and Sediment Control Plan	February 2017

Berks County

Item	Description	Dated
ES-0.01 to ES-0.23	Erosion and Sediment Control and Site Restoration Plan Notes and	November 2016
	Details	
ES-0.24 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-5.01 to ES-5.73	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.03, ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.02	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	11/30/216
ES-0.04 & ES-0.08	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06, ES-0.19, ES-0.21 & ES-0.23	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/217
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-5.01, ES-5.09, ES-5.38, ES-5.65 & ES-5.70	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
ES-5.04, ES-5.30,	revised Erosion and Sediment Control and Site Restoration Plan	2/1/2017
ES-5.37	revised Erosion and Sediment Control and Site Restoration Plan	2/4/2017
ES5.69	revised Erosion and Sediment Control and Site Restoration Plan	11/21/2016
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017
Drawings	Erosion and Sediment Control Plan (Beckersville)	revised 10/18/2016
Cover Sheet	revised Erosion and Sediment Control Plan (Beckersville)	2/6/17
ES3 & CONSTDET9	revised Erosion and Sediment Control Plan (Beckersville)	2/4/17
Narrative	Erosion and Sediment Control Plan (Beckersville)	revised 10/18/2016

Cumberland County

Item	Description	Dated
ES-0.01 to ES-0.24	Erosion and Sediment Control and Site Restoration Plan Notes and	November 2016
	Details	
ES-0.25 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-4.01 to ES-4.101	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.04 & ES-0.08	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017

ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20, ES-0.22 & ES-0.24	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.21	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-4.15, ES-4.16, ES-4.54 & ES-4.59	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
ES-4.36	revised Erosion and Sediment Control and Site Restoration Plan	11/28/2016
ES-4.37	revised Erosion and Sediment Control and Site Restoration Plan	12/2/2016
ES-4.50	revised Erosion and Sediment Control and Site Restoration Plan	12/1/2016
ES-4.51	revised Erosion and Sediment Control and Site Restoration Plan	11/14/2016
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017

Dauphin County

Item	Description	Dated
ES-0.01 to ES-0.23	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.24	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-4.01 to ES-4.39	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.03, ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.05, ES-0.21 & ES-0.23	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.09 & ES-0.20	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.19	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	11/30/2016
ES-4.01, ES-4.02, ES-4.03, ES-4.04	revised Erosion and Sediment Control and Site Restoration Plan	2/4/2017
ES-4.08	revised Erosion and Sediment Control and Site Restoration Plan	2/3/2017
ES-4.19	revised Erosion and Sediment Control and Site Restoration Plan	2/1/2017
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017
Drawings	revised Erosion and Sediment Control Plan (Middletown)	revised 2/6/2017
Narrative	Erosion and Sediment Control Plan (Middletown)	revised 2/6/2017

Huntingdon County

Item	Description	Dated
ES-0.01 to ES-0.24	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.25 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-3.01 to ES-3.85	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.02	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	11/30/2016

ES-0.04 & ES-0.08		1/30/2017
	Notes and Details	
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan	1/29/2017
	Notes and Details	
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan	2/1/2017
	Notes and Details	
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
	Notes and Details	
ES-0.20, ES-0.22	revised Erosion and Sediment Control and Site Restoration Plan	1/29/2017
& ES-0.24	Notes and Details	
ES-0.21	revised Erosion and Sediment Control and Site Restoration Plan	12/1/2016
	Notes and Details	
ES-3.31, ES-3.39,	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
ES-3.40, ES-3.46,		
ES-3.55, ES-3.74,		
ES-3.80 & ES-3.82		
ES-3.36, ES-3.37,	revised Erosion and Sediment Control and Site Restoration Plan	2/2/2017
ES-3.61 & ES-3.81		
ES-3.45	revised Erosion and Sediment Control and Site Restoration Plan	11/21/2016
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017
Drawings	Erosion and Sediment Control Plan (Mt. Union)	11/30/2016
C-2	revised Erosion and Sediment Control Plan (Mt. Union)	11/28/2016
Narrative	Erosion and Sediment Control Plan (Mt. Union)	November 2016

Juniata County

Item	Description	Dated
ES-0.01 to ES-0.24	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.25	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-3.01 to ES-3.10	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.02, ES-0.07,	revised Erosion and Sediment Control and Site Restoration Plan	received
ES-0.08	Notes and Details	2/7/2017
ES-0.04	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20, ES-0.22 & ES-0.24	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.21	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-3.05	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
ES-3.07 & ES-3.08	revised Erosion and Sediment Control and Site Restoration Plan	2/2/2017
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017

Lancaster County

Item	Description	Dated
ES-0.01 to ES-0.23	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.24	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016

ES-1.01 to ES-1.25	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.04 & ES-0.08	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06, ES-0.19, ES-0.21 & ES-0.23	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-1.23	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017

Lebanon County

Item	Description	Dated
ES-0.01 to ES-0.23	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.24 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-5.01 to ES-5.69	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.03, ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.05, ES-0.19, ES-0.21 & ES-0.23	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.09	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	12/1/2016
ES-5.24, ES-5.25, ES-5.26, ES-5.31, ES-5.33, ES-5.34, ES-5.35, ES-5.40, ES-5.41 & ES-5.42	revised Erosion and Sediment Control and Site Restoration Plan	2/4/2017
ES-5.32, ES-5.36 & ES-5.38	revised Erosion and Sediment Control and Site Restoration Plan	2/5/2017
ES-5.50	revised Erosion and Sediment Control and Site Restoration Plan	2/6/2017
P-A1-A	Pennsylvania Pipeline Project Stream S-A25 Existing Conditions/Erosion & Sedimentation Control Plans	11/28/2016
P-A1-B	Pennsylvania Pipeline Project Stream S-A25 Restoration Plan	11/28/2016
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017

Perry County

Item	Description	Dated
ES-0.01 to ES-0.24	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.25 to ES-0.26	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-3.01 to ES-3.35	Erosion and Sediment Control and Site Restoration Plan	November 2016

	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.04 & ES-0.08	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.10	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.20, ES-0.22 & ES-0.24	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.21	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	11/29/2016
ES-3.17 & ES-3.22	revised Erosion and Sediment Control and Site Restoration Plan	2/3/2017
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017
Drawings	Erosion and Sediment Control Plan (Doylesburg)	revised 11/30/2016
C-4	revised Erosion and Sediment Control Plan (Doylesburg)	2/6/17
Narrative	Erosion and Sediment Control Plan (Doylesburg)	November 2016

York County

Item	Description	Dated
ES-0.01 to ES-0.22	Erosion and Sediment Control and Site Restoration Plan Notes and Details	November 2016
ES-0.23	Erosion and Sediment Control and Site Restoration Plan Key Plan	November 2016
ES-4.01 to ES-4.21	Erosion and Sediment Control and Site Restoration Plan	November 2016
	the accompanying site specific Erosion and Sedimentation Control Plans and Restoration Plans	11/30/16
ES-0.03	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.07	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/30/2017
ES-0.05	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-0.06	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/1/2017
ES-0.09 & ES-0.19	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	2/5/2017
ES-0.18, ES-0.20 & ES-0.22	revised Erosion and Sediment Control and Site Restoration Plan Notes and Details	1/29/2017
ES-4.19	revised Erosion and Sediment Control and Site Restoration Plan	12/2/2016
ES-4.20	revised Erosion and Sediment Control and Site Restoration Plan	2/6/2017
ES-4.21	revised Erosion and Sediment Control and Site Restoration Plan	2/4/2017
Narrative	Erosion and Sediment Control Plan (Spreads 3, 4, 5)	February 2017

Based upon a technical review of the E&S Plan submission from the conservation districts, the responses from the applicant together with specific permit conditions, the Department finds the E&S Plans for this project to be technically adequate and satisfies all applicable E&S requirements of Chapter 102, including §§102.4(b)(5)(ii) to §102.4(b)(5)(xv), §102.4(b)(4), §102.4(b)(5)(i), §102.4(b)(6), and Chapter 93.

PCS	SM Plan components:	Adequate		•
	Written Narrative	\boxtimes		
	Plan Drawings			
	Identification/location of PCSM BMPs	\boxtimes		
	Operation & Maintenance Procedures	\boxtimes		
	Supporting calculations, if required	\boxtimes		
	· · · · · · · · · · · · · · · · · · ·			
o I	Ooes BMP selection and location appear reas	onable? YES 🗵 NO 🗌 Exp	plain:	
o I	Hydrologic Method(s): SCS Method			
0 1	Was on-site testing done for soil permeability	if infiltration is proposed?		-
	YES 🛛 NO 🗌 N/A 🗍 Explain	1:		
0 I	Does volume of stormwater to be managed ed	ual or exceed net change in volu	me of runoff (pre to po	st-construction)?
	YES NO NO N/A Explain	n: The net change in stormwater on	runoff volume has been	managed through
o . F	Has justification been provided if BMP's will	not manage net increase in 2-yr/	/24-hr runoff volume?	
	YES 🗌 NO 🗌 N/A 🛛 🛮 Explain	n:		
o <i>A</i>	Are infiltration practices maximized, with res	pect to site constraints?		
	YES 🛛 NO 🗌 N/A 📗 🛮 Explain	1:		
o S	Stormwater Consistency:	approved and consistency letter	provided ; OR	
	(Select One)	Meets design criteria of 25 Pa. C	ode Chapter 102.8(g)(2) and (3); OR
	102.8(g)(3)(If Alternativ	e Design Standard, has applicant	provided adequate den	
	compliance	with Sections 102.8(g)(2)(iv) and		
Vall	ey Forge Road Block Valve			
	nmary of the PCSM Plan:			
	•	l: <u>2.69</u> inches		
		Pre-development	Post-development	Net Change
	Impervious Area (acre)	0	<u>0.14</u>	+0.14
	Volume of runoff w/o planned BMPs (cu	ft) <u>396</u>	980	+584
	Volume of runoff reduction (cu ft)		734	<u>→> 246</u>
	Peak discharge rate – 2-yr/24-hour storm((cfs) <u>0.28</u>	0.21	-0.07
	Peak discharge rate – 10-yr/24-hour storm	n(cfs) <u>2.14</u>	<u>1.83</u>	<u>-0.31</u>
	Peak discharge rate - 50-yr/24-hour storm	n(cfs) <u>5.44</u>	<u>5.17</u>	<u>-0.27</u>
	Peak discharge rate - 100-yr/24-hour stor	m(cfs) <u>7.28</u>	<u>7.22</u>	<u>-0.06</u>
Wat	ershed Analysis: (AKA Water Qualit	y Analysis)		
	Adequate Site Analysis:	YES 🛛 NO		tails:
	Adequate Thermal Impact Analysis:	YES 🛛 NO	N/A Der	tails:

Charger Highway Block Valve (POI DA1)

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.66 inches

	Pre-development	Post-developmen	t Net Change
Impervious Area (acre)	<u>0</u>	<u>0.14</u>	<u>+0.14</u>
Volume of runoff w/o planned BMPs (cu ft)	1625	2236	<u>+611</u>
Volume of runoff reduction (cu ft)		840	<u>→ 1396</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.35</u>	1.15	<u>-0.20</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.03</u>	<u>2.82</u>	<u>-0.21</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>5.33</u>	<u>5.26</u>	<u>-0.07</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>6.51</u>	<u>6.37</u>	<u>-0.14</u>
Watershed Analysis: (AKA Water Quality Analysis)	sis)		
Adequate Site Analysis:	YES 🛛 NO	□ N/A □ □	Details:
Adequate Thermal Impact Analysis:	YES 🛛 NO	N/A 🗌 🗆	Details:

Charger Highway Block Valve (POI DA2)

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.66 inches

2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			
	Pre-development	Post-developme	nt Net Change
Impervious Area (acre)	<u>0</u>	<u>0.02</u>	<u>+0.02</u>
Volume of runoff w/o planned BMPs (cu ft)	201	<u>282</u>	<u>+81</u>
Volume of runoff reduction (cu ft)		130	<u>→</u> 152
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.13</u>	<u>0.11</u>	<u>-0.02</u>
Peak discharge rate - 10-yr/24-hour storm(cfs)	<u>0.30</u>	<u>0.27</u>	<u>-0.03</u>
Peak discharge rate - 50-yr/24-hour storm(cfs)	<u>0.55</u>	<u>0.53</u>	<u>-0.02</u>
Peak discharge rate - 100-yr/24-hour storm(cfs)	<u>0.67</u>	<u>0.59</u>	<u>-0.08</u>
Watershed Analysis: (AKA Water Quality Analysis	s)		
Adequate Site Analysis:	YES 🛛 NO	□ N/A □ □	Details:
Adequate Thermal Impact Analysis:	YES 🛛 NO	□ N/A □ □	Details:

Locke Mountain Block Valve

Summary	of	the	PCSM	Plan:
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Design Storm: 2-year (24	4-hr) Rainfall:	2.67 inches
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	Pre-development	Post-developmen	t Net Change
Impervious Area (acre)	<u>0</u>	<u>0.15</u>	<u>+0.15</u>
Volume of runoff w/o planned BMPs (cu ft)	2100	2595	<u>+495</u>
Volume of runoff reduction (cu ft)		719	<u>→ 1876</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.69</u>	<u>1.57</u>	<u>-0.12</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.43</u>	<u>3.36</u>	<u>-0.07</u>
Peak discharge rate - 50-yr/24-hour storm(cfs)	<u>5.76</u>	<u>5.67</u>	<u>-0.09</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>6.93</u>	<u>6.80</u>	<u>-0.13</u>
Watershed Analysis: (AKA Water Quality Analys	is)	•	
Adequate Site Analysis:	YES 🛛 NO	□ N/A □ □	Details:
Adequate Thermal Impact Analysis:	YES 🛛 NO	□ N/A □ □	Details:

High Street Block Valve

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.67 inches

Design Storm. <u>2-year</u> (24-m) Kaman. <u>2.07</u> men	103		
	Pre-development	Post-developmen	nt Net Change
Impervious Area (acre)	<u>o</u>	<u>0.15</u>	+0.15
Volume of runoff w/o planned BMPs (cu ft)	<u>736</u>	1356	<u>+620</u>
Volume of runoff reduction (cu ft)		1172	<u>→ 184</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	0.22	0.14	<u>-0.08</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>1.98</u>	1.29	-0.69
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>5.32</u>	<u>4.16</u>	<u>-1.16</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>7.17</u>	<u>5.92</u>	<u>-1.75</u>
Watershed Analysis: (AKA Anti-Degradation Rev	view & Water Qu	ıality Analysis)	
Adequate Site Analysis:	YES 🔯 N	o 🗌 n/a 🗍 📑 i	Details:
Adequate Thermal Impact Analysis:	YES 🛛 N	O 🔲 N/A 🗍 I	Details:
Adequate E & S Plan for Antidegradation Analysis	YES 🔯 N	O 🗌 N/A 📗 I	Details: <u>HQ</u>
Adequate PCSM Plan for Antidegradation Analysis:	YES 🛛 N	O 🗌 N/A 📗 I	Details: <u>HQ</u>

Shade Valley Road Block Valve (POI DA1)

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.74 inches

	Pre-development	Post-developmen	t Net Change
Impervious Area (acre)	<u>0.07</u>	<u>0.21</u>	<u>+0.14</u>
Volume of runoff w/o planned BMPs (cu ft)	1555	2235	<u>+680</u>
Volume of runoff reduction (cu ft)		778	<u>→ 1457</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.21</u>	<u>1.00</u>	<u>-0.21</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.04</u>	<u>2.57</u>	<u>-0.47</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>5.78</u>	<u>4.96</u>	<u>-0.82</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>7.34</u>	<u>6.43</u>	<u>-0.91</u>
Watershed Analysis: (AKA Water Quality Analysis	is)		
Adequate Site Analysis:	YES 🛛 NO	□ N/A □ □	Details:
Adequate Thermal Impact Analysis:	YES 🛛 NO	N/A 🗌 D	Details:

Shade Valley Road Block Valve (POI DA2)

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.74 inches

	Pre-development	Post-developmer	nt Net Change
Impervious Area (acre)	0.21	0.38	+0.17
Volume of runoff w/o planned BMPs (cu ft)	3295	<u>4244</u>	+949
Volume of runoff reduction (cu ft)		1642	<u>→ 2602</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>2.27</u>	<u>2.14</u>	<u>-0.13</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>5.93</u>	<u>5.26</u>	<u>-0.67</u>
Peak discharge rate - 50-yr/24-hour storm(cfs)	<u>11.50</u>	<u>10.32</u>	<u>-1.18</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>14.68</u>	<u>13.55</u>	<u>-1.13</u>
Watershed Analysis: (AKA Water Quality Analysis)	sis)		
Adequate Site Analysis:	YES 🛛 NO	□ N/A □ I	Details:
Adequate Thermal Impact Analysis:	YES 🛛 NO	□ N/A □ I	Details:

Creek Road Block Valve

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.82 inches

	Pre-development	Post-development	Net Change
Impervious Area (acre)	<u>0</u>	0.14	<u>+0.14</u>
Volume of runoff w/o planned BMPs (cu ft)	2788	3396	+608
Volume of runoff reduction (cu ft)		1215	→ <u>2181</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	2.51	2.28	-0.23
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>5.20</u>	<u>4.95</u>	<u>-0.25</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>9.51</u>	9.31	<u>-0.20</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>12.05</u>	<u>11.69</u>	<u>-0.36</u>

Watershed Analysis: (AKA Water Quality Analysis) YES 🛛 NO 🗌 N/A 🔲 Details: Adequate Site Analysis: YES ⋈ NO □ N/A □ Details: Adequate Thermal Impact Analysis: **Gates Road Block Valve** Summary of the PCSM Plan: Rainfall: 2.97 inches Design Storm: 2-year (24-hr) Net Change Post-development Pre-development +0.130.13 Impervious Area (acre) +613 854 1467 Volume of runoff w/o planned BMPs (cu ft) 811 **→** 656 Volume of runoff reduction (cu ft) -0.110.36 0.47 Peak discharge rate -2-yr/24-hour storm(cfs) -0.601.97 2.57 Peak discharge rate – 10-yr/24-hour storm(cfs) -1.015.37 Peak discharge rate - 50-yr/24-hour storm(cfs) 6.38 -1.097.51 8.60 Peak discharge rate – 100-yr/24-hour storm(cfs) Watershed Analysis: (AKA Anti-Degradation Review & Water Quality Analysis) YES ⊠ NO □ N/A □ Details: Adequate Site Analysis: YES NO NO N/A Details: Adequate Thermal Impact Analysis: Details: Siltation impaired YES ⋈ NO □ N/A □ Adequate E & S Plan for Antidegradation Analysis: Details: Siltation impaired Adequate PCSM Plan for Antidegradation Analysis: YES ⋈ NO □ N/A □ **Mount Union Block Valve Station** UNT to Aughwick Creek (Designated Use: TSF) Summary of the PCSM Plan: Rainfall: 2.8 inches Design Storm: 2-year (24-hr) Post-development Net Change Pre-development 0.63 +0.63 0 Impervious Area (acre) 5894 +5233 Volume of runoff w/o planned BMPs (cu ft) 661 5968 $\rightarrow 0$ Volume of runoff reduction (cu ft) -0.180.00 Peak discharge rate – 2-yr/24-hour storm(cfs) 0.18 0.70 0.12-0.56Peak discharge rate – 10-yr/24-hour storm(cfs) 0.57 -1.03Peak discharge rate – 50-yr/24-hour storm(cfs) 1.60 -1.28 Peak discharge rate - 100-yr/24-hour storm(cfs) 2.13 0.85 Watershed Analysis: (AKA Water Quality Analysis) YES ⊠ NO □ N/A □ Details:____ Adequate Site Analysis: YES ☒ NO ☐ N/A ☐ Details:

Doylesburg Pump Station

Adequate Thermal Impact Analysis:

Shermans Creek (Designated Use: HQ-CWF)

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr)

Rainfall: 2.7 inches

	Pre-development	Post-development	Net Change
Impervious Area (acre)	<u>0.16</u>	<u>0.39</u>	<u>+0.23</u>
Volume of runoff w/o planned BMPs (cu ft)	17425	<u>19900</u>	<u>+2475</u>
Volume of runoff reduction (cu ft)		4962	<u>→ 14938</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>4.18</u>	<u>3.97</u>	<u>-0.21</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>10.86</u>	<u>10.21</u>	<u>-0.65</u>
Peak discharge rate - 50-yr/24-hour storm(cfs)	<u>21.99</u>	<u>20.52</u>	<u>-1.47</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>28.59</u>	<u> 26.96</u>	<u>-1.63</u>
Watershed Analysis: (AKA Anti-Degradation Rev	riew & Water Qu	ality Analysis)	
Adequate Site Analysis:	YES 🛛 NO	O 🔲 N/A 🗍 De	tails:
Adequate Thermal Impact Analysis:	YES 🛛 NO	O 🔲 N/A 🔲 💮 De	tails:
Adequate E & S Plan for Antidegradation Analysis:	YES 🛛 NO	O 🔲 N/A 🔲 💮 De	tails: <u>HQ</u>
Adequate PCSM Plan for Antidegradation Analysis:	YES 🛛 NO	O 🗌 N/A 🗍 De	tails: <u>HQ</u>

Middletown Pump Station

Two (2) UNTs to Swatara Creek (Designated Use: WWF)

Wetlands

Summary of the PCSM Plan:

Design Storm: 2-year (24-hr) Rainfall: 2.91 inches

	Pre-development	Post-development	Net Change
POI DA1 – North UNT			
Impervious Area (acre)	<u>0</u>	<u>1.35</u>	+1.35
Volume of runoff w/o planned BMPs (cu ft)	5936	<u>19529</u>	+13593
Volume of runoff reduction (cu ft)		14593	→ <u>4936</u>
POI DA2 – South UNT			
Impervious Area (acre)	<u>0</u>	<u>0.26</u>	+0.26
Volume of runoff w/o planned BMPs (cu ft)	916	3478	+2562
Volume of runoff reduction (cu ft)	 :	3267	→ <u>211</u>
POI DA3 – Wetland UNT	•		
Impervious Area (acre)	<u>0</u>	0.52	+0.52
Volume of runoff w/o planned BMPs (cu ft)	1256	6119	<u>+4863</u>
Volume of runoff reduction (cu ft)		4982	→ <u>1137</u>

	POI DA1 – North UNT				
	Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.92</u>		<u>0.16</u>	<u>-0.76</u>
	Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>4.98</u>		<u>0.62</u>	<u>-4.36</u>
	Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>13.02</u>		1.59	<u>-11.43</u>
	Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>18.01</u>		<u>2.59</u>	<u>-15.42</u>
	POI DA2 – South UNT				
	Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.19</u>		<u>0.14</u>	<u>-0.05</u>
	Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>0.99</u>	٠	<u>0.97</u>	<u>-0.02</u>
	Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>2.58</u>		<u>2.45</u>	<u>-0.13</u>
	Peak discharge rate - 100-yr/24-hour storm(cfs)	<u>3.57</u>		3.08	<u>-0.49</u>
	POI DA3 – Wetland UNT				
	Peak discharge rate – 2-yr/24-hour storm(cfs)	0.09		0.00	-0.09
	Peak discharge rate – 10-yr/24-hour storm(cfs)	0.49		0.00	-0.49
	Peak discharge rate – 50-yr/24-hour storm(cfs)	1.27		0.22	<u>-1.05</u>
	Peak discharge rate – 100-yr/24-hour storm(cfs)	1.76		1.08	-0.68
Water	shed Analysis: (AKA Anti-Degradation Review		Quality .		·
valci	Adequate Site Analysis:	YES 🏻	NO \square	N/A □	Details:
	Adequate Thermal Impact Analysis:	YES 🏻	NO \square	N/A 🗌	Details:
	Adequate E & S Plan for Antidegradation Analysis:	YES 🖂	NO 🗆	N/A 🗌	Details: Siltation impaired
	Adequate PCSM Plan for Antidegradation Analysis:	YES 🖂	NO 🗌	N/A 🗌	Details: Siltation impaired
	Truoquato 1 Obis 1 Itali tot 1 Italia ografia de la companya de la	ks			
Becke	ersville Pump Station				
	Two (2) UNTs to Muddy Creek (Designated Us	se: HQ-T	SF)		
C		•	,		
Summ	nary of the PCSM Plan: Design Storm: 2-year (24-hr) Rainfall: 3.21 inches				•
		·developme	nt I	Post-develop	ment Net Change
	Impervious Area (acre)	0.61	1111 1	1.02	+0.41
	Volume of runoff w/o planned BMPs (cu ft)	12119		19098	+6979
	Volume of runoff reduction (cu ft)	14117		8930	$\xrightarrow{10168}$
	Volume of funoff feduction (ea fr)			<u> </u>	7 10100

	Pre-developmen	t Post-developmen	t Net Change
Impervious Area (acre)	<u>0.61</u>	<u>1.02</u>	<u>+0.41</u>
Volume of runoff w/o planned BMPs (cu ft)	12119	<u>19098</u>	+6979
Volume of runoff reduction (cu ft)		8930	<u>→ 10168</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.62</u>	0.14	<u>-1.48</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>6.12</u>	<u>0.56</u>	<u>-5.56</u>
Peak discharge rate - 50-yr/24-hour storm(cfs)	<u>11.20</u>	<u>1.07</u>	- <u>10.13</u>
Peak discharge rate - 100-yr/24-hour storm(cfs)	<u>14.45</u>	<u>1.39</u>	- <u>13.06</u>
Watershed Analysis: (AKA Anti-Degradation Rev	iew & Water C	(uality Analysis)	
Adequate Site Analysis:	YES 🖾	NO 🗌 N/A 📗 🛮 I	Details:
Adequate Thermal Impact Analysis:	YES 🛛	NO 🗌 N/A 📗 I	Details:
Adequate E & S Plan for Antidegradation Analysis:	YES 🛛	NO 🗌 N/A 🔲 🔠	Details: <u>HQ</u>
Adequate PCSM Plan for Antidegradation Analysis:	YES 🖾	NO 🗌 N/A 🗍 I	Details: <u>HQ</u>

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The following sites were designed as "grass block valve sites";

Juniata Valley Road, Raystown Road, Seven Points Loop, Happy Hills Road, Hares Valley Road, Wolf Bridge Road, West Trindle Road, Arcona Road, North Union Street, Schaeffer Road, Sinclair Road, Hopeland Road, Montello, Wyomissing Road, & Morgantown Road.

While the naming convention chosen is 'grass' these sites will be in a meadow condition in the post construction condition. These sites were designed and analyzed as site restoration, in accordance with 25 Pa. Code § 102.8(n).

	vest Trindie Road, Arcona Road, & Sinciair Roa ce waters.	a block valv	ve site	s discriary	e to siliation impalied
ourrac	Adequate E & S Plan for Antidegradation Analysis:	YES 🛛 NO			Details:
	Adequate PCSM Plan for Antidegradation Analysis:	YES 🛛 NO	0 📙 1	N/A 📙	Details:
The V water.	Vyomissing Road & Morgantown Road block va	lve site disc	harges	s to a spec	cial protection surface
	Adequate E & S Plan for Antidegradation Analysis:	YES 🛛 NO	0 🗌 1	N/A 🗌	Details: <u>HQ (Wyomissing</u> /EV (Morgantown
	Adequate PCSM Plan for Antidegradation Analysis:	YES 🛛 NO	1 🗌 0	N/A 🗌	Details: HQ (Wyomissing / EV (Morgantown)
	ocated Block Valve Sites ollowing sites were designed as co-located block Blue Mountain, Plainfield, Old York Road, Whi		,	ornwall, &	Blainsport
imper activit return 102.8	e sites are located at sites that are in an existing vious area). These sites are still considered a cy. However, these sites are for the construction ed to existing conditions; therefore, these sites (g)(2)(i) & 102.8(g)(2)(ii). Because there is no clarge conditions; there will be no net change in the Adequate Site Analysis: Adequate Thermal Impact Analysis:	construction of utility inf meet the ex hange in the	activit	y and not cture and for 25 Papers of the condition of the	a site restoration the site will be a. Code §§ itions from the
The C	Fornwall block valve site discharges to a siltation Adequate E & S Plan for Antidegradation Analysis: Adequate PCSM Plan for Antidegradation Analysis:	n impaired so YES 🔯 NO YES 🔯 NO	0 🗌 0	N/A 🔲	Details:
Tho D	lue Mountain & Plainfield block valve sites discl	harge to spe	acial ni	rotoction c	urface waters

Comments:

Project Description: Sunoco Pipeline, LP proposes to construct and operate the Pennsylvania Pipeline Project that would expand existing pipeline systems to provide natural gas liquid. The project involves the installation of approximately two parallel pipelines with a 306.8 mile, 50-ft. wide right of way from Houston, Washington County, PA to Sunoco's Marcus Hook facility in Delaware County, PA.

The area covered by this particular permit application is the approximately 162 miles in the South-central Region of DEP; through Blair, Huntingdon, Juniata, Perry, Cumberland, York, Dauphin, Lebanon, Lancaster & Berks Counties. In addition to the mainline construction the project proposes twenty-nine (29) block valve sites and four (4) pump stations.

Other Permits:

- Water Obstruction & Encroachment Permits under 25 Pa. Code Chapter 105.
- PAG-10.

TMDL or Impairment:

- For discharges to siltation impaired watersheds, an antidegradation analysis was performed. This antidegradation analysis utilized nondischarge alternatives and where nondischarge alternatives were demonstrated to not exist for the Project, ABACT BMPs were utilized.

Potentially Pollution Causing Materials:

Has the project site been investigated to identify naturally occurring geologic formations or soil types that may cause pollution when disturbed? YES NO
Have naturally occurring geologic formations or soil types that may cause pollution when disturbed been identified? YES NO
Have BMPs been utilized to avoid or minimize the potential pollution? YES NO
Riparian Buffer/Equivalency/Offsetting: The proposed activity does not require an NPDES Permit for Stormwater Discharge: Associated with Construction Activity; therefore, Act 162 does not apply.

The Applicant requested a waiver of the requirement to implement riparian / riparian forest buffers, in accordance with 25 Pa. Code § 102.14(d)(2). Where the proposed pipeline crosses a perennial or intermittent river, stream, or creek, or lake, pond or reservoir with a Designated Use of High Quality or Exceptional Value, a riparian / riparian forest buffer is not mandatory in accordance with 25 Pa. Code § 102.14(a).

Other Comments:

A Doylesburg block valve site is identified within the PCSM Plan Narrative for the block valves; however, that block valve is located within the footprint of the Doylesburg Pump Station. The Doylesburg block valve "site" was accounted for and evaluated as part of the PCSM Plan for the Doylesburg Pump Station.

The permit application was noticed in the Pennsylvania Bulletin on August 6, 2016.

Public comments were received and considered in the review of this permit application. See DEP's Comment Response document for more information.

Upon technical review of the response documents, numerous issues from the DEP's Technical Deficiencies letter, dated September 6, 2016 remained inadequately addressed. These issues were elevated to the Program Management and Bureau for concurrence. The Program Management and Bureau determined that not all the remaining issues preclude the DEP from issuing the permit. A selected number of issues were considered to be deficiencies which precluded the DEP from issuing the permit without further information from the applicant. The applicant provided additional information.

Recommendation:			
Issuance: This application has been reviewed and based	d on the submitted information	n; the application has been found to be	
adequate and satisfactorily addresses the administrative a	nd technical requirements for		
Permitting Program and the antidegradation requirements	found at 93.4c.		
Denial/Return/Withdrawal: (circle one). This applicate application has been found to be inadequate and does <u>not</u> for the Erosion and Sediment Control Construction Permit Deficiencies were not resolved during the permit review p	satisfactorily address the address the address the address the Antideg	ministrative and/or technical requirement	S
Reviewer:	Initials/Date: VIC	2/10/17	
- Well file to			
Nothin R. Crawford, P.E.			
Chief, Permils Section			
Waterways & Westlands Prayran			