

December 2, 2016

By FEDERAL EXPRESS

Mr. Edward J. Muzic, P.E. Civil Engineer Manager Department of Environmental Protection Waterways and Wetlands – South Central Regional Office 909 Elmerton Avenue Harrisburg, PA 17110

Re: DEP File E31-234

Technical Deficiency Response Chapter 105 Dam Safety and Waterway Management Joint Permit Application Sunoco Pipeline L.P. – Pennsylvania Pipeline Project (Mariner East II) Penn, Shirley, Tell, and Union Townships, Huntingdon County

Dear Mr. Muzic:

On behalf of our client, Sunoco Pipeline L.P. (SPLP), Tetra Tech, Inc. provides the following responses to the Pennsylvania Department of Environmental Protection (DEP) Technical Deficiency letter dated September 6, 2016 regarding the above-referenced Chapter 105 Joint Permit Application (Joint Permit Application) for the Pennsylvania Pipeline Project (Project or PPP as defined in the application). SPLP has had minor revisions to the proposed workspaces since submittal of the original application. These revisions have occurred as result of preparing a response to these technical deficiencies, landowner requests, further reduction of impacts to aquatic resources, or minor limit of disturbance (LOD) changes to facilitate construction. The supporting attachments represent a revision of the Joint Permit Application that not only addresses the DEP's technical deficiencies, but also provides revised sections that reflect the most current Project areas. The attachment includes all necessary components of a complete application; however, it excludes previously submitted aquatic resource reports. Please consider only the previously submitted aquatic resource reports as part of this application revision. We are providing two hard copies and two CDs of the revised application.

For ease of your review, each DEP item is set forth verbatim below, followed by a narrative response with supporting attachments.

Comments and Responses to September 6, 2016 Technical Deficiency Letter

Comments and Resp	onses to September 6, 2016 Technical Deficiency	y Letter
HU 1.	Comprehensive Environmental Evaluation -	NA - Heading
	The following technical deficiencies are related	
	to the overall project comprised by the 17	
	Chapter 105 Water Obstruction and	
	Encroachment permit applications associated	
	with this pipeline. Please provide the	
	Department with a Comprehensive	
	Environmental Evaluation of the Entire Pipeline	
	Project as a Whole ("Comprehensive	
	Environmental Evaluation") which at a	
	minimum includes the following:	
HU 1.a.	Use the Environmental Assessment Form	A Comprehensive Evaluation of Compliance and an
	(3150-PM- BWEW0017, 2/2013) as a guide	evaluation of Resources Identification and Project Impacts
	and provide a detailed narrative and other	for the Project as a whole have been added to the
	appropriate documentation that	application materials and is located in Attachment 11,
	comprehensively evaluates the project as a	Enclosure E, Parts 1 and 2. This Comprehensive
	whole under each of the categories therein (Part	Evaluation of Compliance references application
	1 – Resource Identification; Part 2 – Project	materials that apply to each requirement pursuant to 25
	Description – including all the analyses listed in	Pa. Code § 105.18a and associated referenced regulations,
	the form, as well as in 25 Pa. Code §§	including 25 Pa. Code §§ 105.13(e)(1)(vii-x), (2), (3), (g),
	105.13(e)(1)(vii-x), (2), (3), (g), and (j); and 25	and (j); and 25 Pa. Code § 105.15.
	Pa. Code § 105.15.	
HU 1.b.	The Comprehensive Environmental Evaluation	A Comprehensive Evaluation of Compliance for the entire
	should also provide a detailed narrative and	Project has been added to the application materials and is
	other appropriate documentation that	located in Attachment 11, Enclosure E, Part 1. This
	comprehensively evaluates the project as a	Comprehensive Evaluation of Compliance references
	whole for compliance with the requirements	application materials that apply to each requirement
	associated with the Department's review of the	pursuant to 25 Pa. Code § 105.18a and associated
	application listed in 25 Pa. Code § 105.14 in its	referenced regulations, including 25 Pa. Code § 105.14.
	entirety, with particular emphasis on:	

HU 1.b.i	Antidegration Analysis - Prepare and submit an analysis and information that addresses consistency with State antidegradation requirements contained in Chapters 93, 95 and 102 (relating to water quality standards; wastewater treatment requirements; and erosion and sediment control) and the Clean Water Act	An Antidegradation Analysis consistent with 25 Pa. Code § 105.14(b)(11) has been prepared and is provided in Attachment 11, Enclosure E, Part 5.
	(33 U.S.C.A. § § 1251—1376) for this entire project and other potential or existing projects. [25 Pa. Code § 105.14(b)(11)].	
HU 1.b.ii	Secondary Impact Analysis – Prepare and submit an analysis and information that addresses secondary impacts associated with but not the direct result of the construction or substantial modification of the water obstruction or encroachment in the areas of the entire project and in areas adjacent thereto and future impacts associated with water obstructions or encroachments, the construction of which would result in the need for additional dams, water obstructions or encroachments to fulfill the project purpose. [25 Pa. Code § 105.14(b)(12)].	A secondary impact analysis consistent with 25 Pa. Code § 105.14(b)(12) has been prepared and is provided as part of the Resource Identification and Project Impacts in Attachment 11, Enclosure E, Part 2.
HU 1.b.iii	Project Wide Cumulative Impacts Analysis. Prepare and submit an analysis and information that addresses the cumulative impact for this entire project and other potential or existing projects. As part of this analysis please evaluate whether numerous piecemeal changes associated with all the chapter 105 applications related to this pipeline project may result in a major impairment of the wetland resources. The	A stand-alone Cumulative Impacts Analysis has been added to the application materials and is located in Attachment 11, Enclosure E, Part 6.

	analysis must be undertaken for each alternative prepared for the proposed pipelines and facilities of Mariner East II, on a statewide basis and must be completed for the entire project, as a whole referencing each of the applications for the entire project. [25 Pa. Code §§ 105.14(b)(14); and 105.15].	
HU 1.b.iv	Comprehensive Evaluation of Compliance with 25 Pa. Code § 105.18a. Prepare and submit an analysis and information that evaluates the project as a whole with all the requirements found in 25 Pa. Code § 105.18a for each wetland or wetland complex in or along the project area as a whole. [25 Pa. Code § 105.18a]	A Comprehensive Evaluation of Compliance for the Project has been added to the application materials and is located in Attachment 11, Enclosure E, Part 1. This Comprehensive Evaluation of Compliance cross-references the application materials that address each requirement in 25 Pa. Code § 105.18a.
HU 1.b.v	Comprehensive Alternatives Analysis, Avoidance and Minimization and Mitigation. The applicant needs to demonstrate, that the alternative/s chosen for the entire project will avoid cumulative impacts to the maximum extent practicable, and where such impacts are not avoidable, describe in detail with appropriate supporting documentation, how such impacts will be minimized and mitigated to the satisfaction of the Department. [25 Pa Code §§ 105.1, 105.13(e)(1)(viii)-(x); 105.14(b); and 105.15-105.20a]	A comprehensive Alternatives Analysis has been added to the application materials to address this comment and is located in Attachment 11, Enclosure E, Part 3. A Cumulative Impacts Analysis has been added to the application materials to address this comment and is located in Attachment 11, Enclosure E, Part 6. An Impact Avoidance, Minimization, and Mitigation Procedures document has also been added to address this comment, located in Attchment 11, Enclosure E, Part 4.
HU 2.	The HDD Inadvertent Return Contingency Plan includes profiles identifying Geotechnical profiles; however, no analysis has been provided on the risk of an inadvertent return occurring. Provide an analysis on the risk of an	The revised Inadvertent Return Assessment, Prevention, Preparedness and Contingency Plan (IR Plan) provided in Attachment 12, Tab 12C includes an Inadvertent Return (IR) risk assessment for each of the Horizontal Directional Drills (HDDs).

	inadvertent return occurring for all proposed	
	HDD crossings. Include in-depth detail,	
	discussion, and data in the analysis of the risk	
	of a return occurring. [25 Pa. Code	
	-	
	§\$105.14(b)(7), 105.18a(b)(3), 105.18a(b)(4),	
IIII 2 -	105.18a(b)(5), 105.14(b)(4), 105.14(b)(11)]	A. HDD Dist Assessment is instead of a secret of the
HU 2.a.	Provide information/details on previous HDD	An HDD Risk Assessment is included as part of the
	activities on the prior Mariner East pipeline	revised IR Plan provided in Attachment 12C. The
	project where IRs occurred. At a minimum this	assessment discusses previous inadvertent returns (IR)
	should include, a topographic map with	and provides the data and analysis requested.
	locations and latitude/longitude of each	
	occurrence, description of event, amount of	
	discharge, whether the discharge entered	
	waterways and/or wetlands, mitigation/clean-up	
	measures taken, etc.	
HU 2.b.	A stand-alone attachment should be created to	The Water Supply Assessment, Preparedness Prevention
	address the pre-boring geologic evaluation of	and Contingency Plan (Water Supply Plan) provides for
	the existence and potential to impact local	the assessment of the existing public and private water
	drinking water supplies or aquifers around the	supplies in or along the Project, as well as idenitifies
	boring location. The plan needs to include what	prevention and preparedness measures to be implemented
	measures will be employed to verify that no	to protect those supplies. The IR Plan outlines the
	supplies or aquifer are impacted (i.e. pre and	preconstruction activities implemented to ensure sound
	post water quality and quantity analysis). The	geological features are included in the drill profile, the
	plan should specify what notifications and	measures to prevent impact, and the preparedness plan if
	remediation measures will be employed if there	an impact were to occur. These plans are provided in
	are impacts.	Attachment 12.
HU 3.	EV wetlands are defined as EV waters by	An Antidegradation Analysis, provided in Attachment 11,
	Chapter 93. Therefore, explain the measures	Enclosure E, Part 5, fully explains the measures that SPLP
	the applicant will implement to comply with the	will implement to comply with the antidegradation
	antidegradation requirements of the	requirements of DEP's water quality standards program.
	Department's water quality standards program.	
	[25 Pa Code §93.4c(b); §93.4c(b)(2); §93.1	

	(defn. of surface water of exceptional ecological significance); §105.14(b)(11); §105.18a(a)(4); 24 Pa.B. 922 (February 12, 1994)(Incorporation of the Department's Existing Wetlands Protection Program into Water Quality Standards Program)].	
HU 4.	The application states that the second pipeline will be 16 inches in diameter, while other applications related to this project state that the second pipeline could be up to 20 inches in diameter. Which is correct? [25 Pa. Code §105.13(e)(1)(iii)(A)]	In previous submissions and coordination documents, the diameter of the second pipeline had not yet been determined by engineering, but SPLP understood the maximum possible size would be 20 inches in diameter. SPLP has completed the initial engineering details for the necessary capacities of the second line and has determined that the second pipe will be 16 inches in diameter. The application has been revised to reference a 16-inch pipeline.
HU 5.	List the types and amounts of emissions to satisfy question 13.0.1 of the General Information Form. [1300-PM-BIT0001 5/2012 Instructions]	Question 13.0.1 of the General Information Form (GIF) in Attachment 1 has been revised to address this comment.
HU 6.	The Application and GIF have different titles for M.L. Gordon. An application shall be signed by the owners of the dam or reservoir, water obstruction or encroachment, or the persons exercising primary responsibility for the dam or reservoir, water obstruction or encroachment. In the case of a partnership, one or more members of the partnership authorized to sign on behalf of the entire partnership shall sign the application. In the case of a corporation, it shall be signed by the president, vice president or other responsible official empowered to sign for the corporation. Provide	The Application has been revised to provide a consistent title for M.L. Gordon. A "Delegation of Authority" letter authorizing Mr. Gordon to sign the Application on behalf of the partnership is provided with the Joint Application Form.

HU 7.	consistent titles for Mr. Gordon and demonstrate that he is authorized to sign the Application. [25 Pa. Code §§105.13(i) and 25 Pa. Code §§106.12(f)] Provide a PNDI search clearance letter from the Pennsylvania Game Commission for threatened and endangered species under their jurisdiction. [25 Pa. Code §§105.15(a), 105.14(b)(4), 105.16(c)(3)]	The Pennsylvania Game Commission (PGC) provided clearance by letter dated June 8, 2016. A copy of this letter is provided in Attachment 6.
HU 8.	Provide clearance or approval from the Pennsylvania Historical and Museum Commission (PHMC) for cultural, archeological, and historic resources for the proposed water obstructions and encroachments and areas necessary to construct the water obstructions and encroachments. [25 Pa. Code §§105.13(e)(1)(x), 105.14(b)(5), 105.15(a), 105.14(b)(4)]	While DEP is required to consider potential impacts to historic resources under 25 Pa. Code Chapter 105 when DEP conducts reviews of a water obstruction, encroachment or dam permit application, none of the regulations or guidance referenced in DEP's comment require SPLP to provide clearance or approval from the PHMC as part of a Chapter 102 or Chapter 105 permit application. Furthermore, as noted in a letter from Alexandra C. Chiaruttini, Esq., DEP's Chief Counsel concerning the SPLP Pennsylvania Pipeline Project, "the [Pennsylvania] History Code does not authorize our agency or any Commonwealth agency to stop the processing of permits solely due to possible or actual presence of archaeological or historic resources, unless the agency's enabling legislation contains specific statutory authorization for such action. DEP does not have such authorization here." A copy of the February 1, 2016, letter from Ms. Chiaruttini is provided in Attachment 4. See also Pennsylvania History Code \$508(a)(4). Accordingly, SPLP requests that DEP continue its review of SPLP's applications. SPLP will continue to work with the PHMC to ensure that impacts to cultural resources are avoided where possible.

		In addition, SPLP has included with its Chapter 102 application a Cultural Resources Unanticipated Discovery Plan to be implemented during construction that outlines the protocols SPLP will follow if SPLP unexpectedly encounters archaeological or historic resources, including notification to DEP and PHMC and cessation of earth disturbance.
HU 9.	The project description provided in the Cultural Resource Notice states that the second pipeline is to be installed within 5 years of the first pipeline. The project description provided in the application does not discuss this timeframe. Regarding this item: Revise the application to discuss if the pipelines will be installed at the same time, or on different schedules. [25 Pa. Code §§105.13(e)(1)(iii)(A), 105.13(e)(1)(iii)(B), 105.301(7), 105.15(a), 105.14(b)(4), 105.18a, 105.21(a)(1), 105.13(e)(1)(ix)]	The Project Description in Attachment 9 to the Application has been updated to reflect the timing of the installation of the 20-inch and the 16-inch pipeline. The two pipelines will be installed during the same time period. The 20-inch pipeline would be installed first, followed by the 16-inch line. For safety purposes, the installation would be staggered by what is estimated to be no more than 60 days. At some HDDs with longer drills, however, the time period between installation of the two pipelines may exceed 60 days. Both pipelines will be installed within the same limit of disturbance so there would be no additional, temporary disturbance resulting from a second separate installation. Any temporary stabilization required would be implemented in accordance with Project's E&S Plans.
HU 9.a.	If the pipelines are proposed to be installed at separate times, revise the application to clearly indicate this, and to identify the permanent and temporary impacts from the second pipeline installation. Please be advised that if issued the permit may expire before construction is completed on any second line.	The Project Description in Attachment 9 to the Application has been updated to reflect the timing of the installation of the 20-inch and the 16-inch pipeline and any permanent and temporary impacts from the second pipeline installation.
HU 9.b.	If the pipelines are proposed to be installed at separate times, revise your alternatives analysis	Both pipelines would be installed during the same construction period, as described above. Accordingly, the

	to evaluate the feasibility of installing the two pipelines concurrently with one another to	Alternatives Analysis has not been revised to evaluate this issue.
	avoid and minimize impacts.	issue.
HU 9.c.	You may need to revise you fee calculation	The 20-inch pipeline would be installed first, followed by
	spreadsheets to account for the additional,	the 16-inch line. Any temporary stabilization required
	temporary disturbance resulting from a second,	would be implemented in accordance with the Project's
	separate installation.	E&S Plans. Both pipelines will be installed within the
		same limit of disturbance as set forth in the permit
		application, so there will be no "additional, temporary
		disturbance resulting from a second separate
		installation." Therefore, no revision of the fee calculation
		spreadsheet is necessary.
HU 9.d.	Your Erosion and Sedimentation Control	The 20-inch pipeline would be installed first, followed by
	Permit Application (ESG 05 000 15 001)	the 16-inch line. Any temporary stabilization required
	should also reflect the two construction	would be implemented in accordance with the Project's
	sequences if two separate construction periods	E&S Plans. Both pipelines will be installed within the
	are proposed.	same limit of disturbance and in the same construction
		period.
HU 10.	Provide a detail that shows how flumes or other	Temporary crossings of streams are accommodated by
	in-stream supports are used for temporary	installation of the timber mat, culvert, or railcar
	stream crossings as mentioned in the	equipment bridges as detailed by the standard typical
	Temporary Stream Crossing detail and identify	drawings and notes for these types of crossings provided
	where each method will be used. [25 Pa. Code	within the E&S Plan (Attachment 12). The contractor
TITE 11	§§105.13(g)]	may choose from these temporary crossing methods.
HU 11.	Provide site plans that depict proposed work for	The E&S Plan in Attachment 12 has been revised to
	each ATWS within a floodway or floodplain.	identify the proposed work. The associated erosion and
	These plans should include at a minimum the	sediment controls used to minimize the potential for
	duration of proposed activities, the expected	discharge of fill material to the stream are provided on the
	layout, E&S controls, and size or quantity of	plan drawings and/or as referenced to the E&S plan
	materials or structures proposed. [25 Pa. Code	standard typical details. The duration of ATWS use will
	§105.13(e)(1)(i)(C)]	be consistent with the duration of construction.

HU 12.	A number of drawings in the package, for	The "permitting purposes" language has been removed.
	example the auger bore drawings, state that the	All drawings and maps provided in the application are
	plans are for permitting purposes only. The	considered to be final plans.
	plans, specifications and reports in the	-
	application are part of a permit once a permit is	
	issued and must be followed. Remove this	
	language from the plans and provide final plans.	
	[25 Pa. Code §§105.13(e), 105.44(a)]	
HU 13.	The auger bore drawings reference cathodic	The Project Description provided in Attachment 9
	protection being installed. Provide plans and/or	includes a narrative outlining SPLP's cathodic protection
	details for any proposed cathodic protection and	plans. A typical cathodic test station detail has been
	identify on the plans where and which type of	added to the E&S Plan Sheets in Attachment 12.
	cathodic protection is proposed to be installed.	
	[25 Pa. Code §§105.3(4), 105.11(a),	
	105.13(e)(1)(i)(C)]	
HU 14.	Where cathodic protection is proposed to be	The Project Description provided in Attachment 9
	installed in wetlands or other areas where	includes an updated narrative outlining SPLP's cathodic
	vegetation is proposed to be undisturbed or	protection plans.
	replanted, identify how this cathodic protection	
	will be maintained and replaced without	
	vegetative disturbance. [25 Pa. Code	
	§§105.15(a), 105.13(e)(1)(ix), 105.18a]	
HU 15.	For all Bore and HDD locations, identify where	To reduce overall impacts to the landscape and, in
	all pipe pull back, or assembly, or other areas	particular, wetlands and streams, pullback areas are sited
	where the pipe will be laid out, and where all	within the same workspaces designed for the open cut
	construction and staging areas are located.	installation of the pipeline to the maximum extent
	Identify any temporary crossings or impacts for	practicable. Pullback areas not proposed within the
	these areas to streams, wetlands, and	workspaces needed to install the pipelines via open cut are
	floodways. Revise the application accordingly	accommodated by adding Additional Temporary
	to include these impacts, including site-specific	Workspace (ATWS) as shown on the Aerial Site Plans
	plans depicting the impacts and proposed	(Attachment 7). Although avoided to the maximum
		extent practicable, if streams and wetlands are crossed by

	temporary matting. [25 Pa. Code	the pullback activity within the ATWS, then temporary
	§§105.13(e)(1)(i), 105.13(e)(1)(iii)]	crossings or impacts, such as temporary bridges, are
		identified on the Aerial Site Plans and site-specific E&S
		Plan sheets. Additional temporary matting and bridges to
		accommodate the pullback activity including pipe layout
		and assembly in the open cut areas are also identified on
		E&S Plan sheets. Temporary bridges and matting will be
		installed and restored in accordance with the standard
		typical details provided within the E&S Plan in
		Attachment 12. The impacts of these activities occur
		within the permanent and temporary workspaces within
		the LOD.
HU 16.	The site plan sheets and E&S plan sheets	In absence of a FEMA NFHL Floodway, the PA 50-foot
	identify the floodway which appears to be	floodways have been created by buffering the stream on
	measured from the centerline of the stream as	each side of its centerline by one-half the bank width of
	opposed to measuring from the top of bank for	the stream at the crossing plus 50 feet. For example, a
	the 50-feet assumed floodway boundary.	stream that has a 5-foot bank width would be buffered by
	Provide floodway boundaries on all plan	52.5 feet on each side the stream's centerline, to ensure
	drawings that adhere to the definitions in	both the bank width and the 50-foot setback from the bank
	Chapter 105 by providing the FEMA mapped	was encapsulated within the Chapter 105 floodway, as per
	floodway boundary, in areas absent a FEMA	the definitions identified in Chapter 105. FEMA NFHL
	mapped floodway, the floodway boundary	data was downloaded and re-analyzed for this Project on
	measured 50 feet landward from the top of	September 27, 2016. The 105 and 102 E&S Plans have
	bank, or in areas absent a FEMA mapped	been checked to assure consistent presentation of these
	floodway a floodway boundary with evidence	areas.
	provided that the assumed 50 feet floodway is	
	not accurate. [25 Pa. Code	
	§§105.13(e)(1)(i)(A), 105.1]	
HU 17.	The Typical Wetland Crossing detail on the	The standard typical detail has been revised to show
	E&S plans indicates soil will be stockpiled in	topsoil segregation. The standard typical detail also notes
	the wetland along the trench. Revise the detail	that topsoil and wetland spoils are to have a physical
	to include a means of separating the stockpiled	separation to ensure full restoration and to minimize

	soil from the wetlands, such as geo-fabric and	impacts. Separation may be achieved by geo-fabric,
	matting, to ensure that stockpiled soil will be	physical space, or matting.
	completely removed and impacts will be	
	minimized. [25 Pa. Code §§105.423,	
	105.18a(a), 105.18a(b), 105.15(a),	
	105.14(b)(4), 105.14(b)(11), 105.14(b)(13)]	
HU 18.	The typical wetland crossing details shown on	The standard typical detail on the E&S plans has been
	the E&S plans indicates trench breakers are to	revised to better detail ditch trench plug installation
	be installed in the trench in the wetlands;	(Attachment 12). Additionally, the trench plugs have
	however it is not clear what trench breakers are	been moved to the outside of the wetland boundaries and
	or whether trench plugs are intended. Revise	a note added that additional trench plugs will be installed
	this detail to identify whether trench plugs are	for long open-cut wetland crossings. The project's
	intended by this term or provide a detail for	Environmental Compliance Program team will ensure
	trench breakers. In addition, if trench plugs are	appropriate spacing.
	proposed to maintain wetland hydrology, revise	
	the detail to include trench plugs within the	
	wetland for long wetland crossings and specify	
	the distance increments. Furthermore, the E&S	
	plan drawings depict trench plugs which are	
	inconsistent with the detail. Revise the site	
	plans to be consistent with the detail. [25 Pa	
	Code §105.18a(a)(1) & §105.18a(a)(3) &	
	§105.18a(a)(4) & §105.18a(a)(5) &	
	§105.18a(b)(2) & §105.18a(b)(3) &	
	§105.18a(b)(4) & §105.18a(b)(5) &	
	§105.15(a)(1) & §105.14(b)(4) &	
	§105.14(b)(11) & §105.14(b)(13) &	
	§105.13(e)(1)(i)]	
HU 19.	Installation of the trench plugs as depicted in	The typical standard trench plug detail provided within
	the Trench Plug Detail is likely to result in	the E&S Plan provided in Attachment 12 has been revised
	adverse impacts to the hydrology of waters of	to show the trench plug continuing to the bottom of the
	the Commonwealth. Provide a revised detail	trench.

	showing the trench plug continuing to the	
	bottom of the trench instead of ending at the top	
	of the bedding material. [25 Pa. Code	
	§§105.18a, 105.15(a)]	
HU 20.	The Typical Wetland Crossing detail on the	The note for this standard typical detail has been removed
	E&S plans states that the detail does not apply	so that the detail is applicable to all wetland crossings.
	to active cultivated or rotated cropland. Revise	
	the detail to apply to all wetland crossings or	
	provide a separate detail for wetland crossings	
	in active cropland. [25 Pa. Code §§105.18a,	
	105.15(a)]	
HU 21.	Provide a description of the expected duration	The temporary stream crossings will remain in place for
	each temporary stream crossing will remain in	no greater than one year.
	place. If the temporary stream crossing will be	
	in place for greater than one year, then a risk	
	analysis will be necessary. [25 Pa. Code	
	§§105.13(1)(iii)(A), 105.14(b)(1), 105.14(b)(3)]	
HU 22.	Identify the proposed provisions for shut-off in	The revised Project Description provided in Attachment 9
	the event of break or rupture for each crossing.	discusses block valves, their location, and the siting
	Provide locations and description of how this	criteria that provides shutoff provisions. Valves are shut
	action will be completed in the event a break or	off remotely or manually. Block valves are also depicted
	rupture occurs. [25 Pa. Code § 105.301(9)]	on the aerial site plans provided in Attachment 7, Tab 7A.
HU 23.	The disturbance fee values listed on Part One	The impact tables in the attached revised permit
	Section A of the fees calculation worksheet are	application correctly sums the impacts across the three
	not summed correctly. Provide a worksheet	resources: wetlands, streams (including floodways), and
	with the correct values, and submit any	the 100-year floodplain fringe (106 areas). The total fee
	difference in fees. [25 Pa. Code	amount for each resource type is provided in Attachment
	§§105.13(c)(2)(iii)(A)]	11, in the "sum rows" of tables 2, 3, and 4 of the Aquatic
		Resource Impact Tables. The summation of all impacts is
		provided in Table 1, and a revised fee calculation
		worksheet that matches the proposed impacts is provided
		in Attachment 11.

HU 24.	Provide county specific information within the project description. [25 Pa. Code §§105.13(e)(1)(iii)]	The Project Description is intended to encompass the project as a whole; however, it has been revised to include some additional county-specific information. Other components of the application, particularly Attachment 11 (Aquatic Resources Tables, Enclosures A, B, C, and D) provide detailed information specific to the resources and impacts in the county.
HU 25.	Amend Section C of the Application to identify the size of the proposed second pipeline. Other areas in the application indicate a 16-inch pipe is to be used, but Section C describes a pipe that is up to 20-inch diameter. [25 Pa. Code §§105.13(e)(1)(iii)(A)]	The Section C of the Joint Application Form has been updated to describe the second line as 16 inches in diameter.
HU 26.	Section F of the Application indicates the professional engineer's seal and certification is N/A. Plans, specifications and reports accompanying applications for any water obstructions or encroachments which would pose a threat to human life or a substantial potential risk to property shall be affixed with seal and signature of a registered professional engineer. The seal and certification for Chapter 105 are provided in Tab 7. Remove the N/A label from Section F. [3150-PM-BWEW0036A Rev. 3/2013 Instructions]	The N/A label has been removed from Section F of the Application.
HU 27.	Provide the letters of approval from Altoona Water Authority and Huntingdon Area Water and Sewage Authority and update Question 16.0.2 of the GIF. [1300-PM-BIT0001 5/2012 Instructions]	The water suppliers listed in question 16.0.2 of the GIF are those preliminarily identified as potential temporary water suppliers to facilitate hydrostatic testing. The PPC Plan in Attachment 12, Tab 12A has been supplemented with a Water Supply Plan (Attachment 12, Tab 12B), which addresses all correspondence with water and sewer authorities, including letters to the Altoona Water

		Authority and Huntingdon Area Water and Sewage Authority. The GIF question has been updated, and final agreements between the contractor and the water supplier can be supplied once they are in place. The Project does not require any permanent water supplies.
HU 28.	Provide a letter from the municipalities commenting on the analysis of the project's impact on the floodway delineation and water surface profiles. [25 Pa. Code §§105.13(e)(1)(vi)]	25 Pa. Code § 105.13(e)(1)(vi) requires that a Project application be accompanied by a floodplain management analysis and a letter from the county or municipality's comments on the analysis if the Project is located within a floodway delineated on a FEMA map. No portion of the Project crosses a FEMA designated floodway in Penn, Shirley, Tell, or Union Townships. Therefore, SPLP is not required to provide as part of its Chapter 105 application responses from these municipalities regarding floodplain management consistency. Copies of the correspondence with these municipalities regarding floodplain consistency requirements are provided in Attachment 14.
HU 29.	Regulations 25 Pa. Code Sections 265.51 and 265.56 listed on page 3 of the PPC Plan do not exist. Correct the PPC Plan to demonstrate proper compliance. [25 Pa. Code §§105.21.(a)(1); §91.33(b)]	The PPC Plan in Attachment 12, Tab 12A has been revised to remove the reference and cite appropriate regulations where necessary.
HU 30.	It appears that a water obstruction and encroachment permit may be required for the proposed water withdraws and discharges. [25 Pa. Code §§105.3(a)(4), 105.11(a), 105.13(e)(1)(i), 105.13(e)(1)(iii), 105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(6), 105.301(1), 105.301(7), 105.301(5), 105.301(3), 105.151(1), 105.151(3), 105.161(a)(3), 105.161(4)]	Aughwick Creek is the only water withdrawal planned to be used in Huntingdon County. Water withdrawals from Aughwick Creek will use temporary and above-ground equipment. This water withdrawal location is labeled on the Chapter 105 drawings. Additional details, including specific equipment configurations are included in the Chapter 102 E&S drawing details, which are referenced in the Chapter 105 drawings. All encroachments and

		obstructions (e.g., pump pad) are identified on the Chapter 102 drawings and included within the limit of disturbance. SPLP has obtained the Project's DEP PAG-10 General NPDES Discharge Permits (Authorization ID No. PAG1106869 and PAG1105897) to allow discharge of hydrostatic test waters. The length of time the structures will be used is also captured in the PAG10 permit application.
		In addition to the information provided in the PAG-10 permit application, all discharge outfall locations are shown on the Chapter 105 drawings and supporting information such as typical discharge details are included in the Chapter 102 E&S drawings which are referenced in the Chapter 105 drawings.
HU 30.a.	Provide plans and cross sections indicating pipe size, placement, and locations for all wetlands, streams, floodways and floodplains where the proposed water withdrawal and discharge piping is to be installed.	Water withdrawals in Huntingdon County (i.e., Aughwick Creek) will use temporary and above-ground equipment. The water withdrawal location is labeled on the Chapter 105 drawings. Additional details, including specific equipment configurations are included in the Chapter 102 E&S drawing details, which are referenced in the Chapter 105 drawings. All encroachments and obstructions (e.g., pump pad) are identified on the Chapter 102 drawings and included within the limit of disturbance. All discharge outfall locations are shown on the Chapter 105 drawings and supporting information such as typical discharge details are included in the Chapter 102 E&S drawings which are referenced in the Chapter 105 drawings. Per a conference call with DEP on September 27, 2016, it was agreed that call-out notes will be added on Chapter 102

		drawings to refer to typical discharge structure details instead of supplying full cross sections at each outfall location.
		SPLP has obtained the Project's DEP PAG-10 General NPDES Discharge Permits (Authorization ID No. PAG1106869 and PAG1105897) to allow discharge of hydrostatic test waters. The permit application captures the details of the mainline and HDD testing discharges including discharge capacity, methods, and structures. All discharge structures are located within the LOD. The permit application captures the details of the mainline and HDD testing discharges including discharge capacity, methods, and structures. All discharge structures are located within the LOD. The length of time the structures will be used is also captured in the PAG10 permit application.
HU 30.b.	Revise the impact tables to include these impacts.	All encroachments and obstructions for proposed water withdrawal and discharge piping are included within the Project limits of disturbance, and impacts are reflected in Tables 2, 3, and 4 provided in Attachment 11.
HU 30.c.	Provide a description and plans of how the water will be discharged or withdrawn, the discharge capacity, the withdraw rate, the methods to be utilized, what equipment and structures are proposed to be placed and utilized in waters of the Commonwealth, the length of time which obstructions will remain in place.	Aughwick Creek is the only water withdrawal planned to be used in Huntingdon County. Water withdrawals at this location will use temporary and above-ground equipment. This water withdrawal location is labeled on the Chapter 105 drawings. Additional details, including specific equipment configurations are included in the Chapter 102 E&S drawing details, which are referenced in the Chapter 105 drawings. All encroachments and obstructions (e.g., pump pad) are identified on the Chapter 102 drawings and included within the limit of disturbance. Withdrawal rates from Aughwick Creek will be limited to 600 gpm. The

		duration of use for Aughwick Creek is expected to be a few weeks. Equipment will be removed from the floodway when not in use and in the event of any flooding. This water source is planned as the source of water to drill and test eight HDDs.
		Regarding discharges, SPLP has obtained the Project's DEP PAG-10 General NPDES Discharge Permits (Authorization ID No. PAG1106869 and PAG1105897) to allow discharge of hydrostatic test waters. The permit application captures the details of the mainline and HDD testing discharges including discharge capacity, methods, and structures. The length of time the structures will be used is also captured in the PAG10 permit application.
		In addition to the information provided in the PAG-10 permit application, all discharge outfall locations are shown on the Chapter 105 drawings and supporting information such as typical discharge details are included in the Chapter 102 E&S drawings which are referenced in the Chapter 105 drawings.
HU 30.d.	Provide cross sections, profiles, and hydraulic analysis for all piping placed in existing stream culverts and along and within stream channels.	No piping is proposed to be placed in existing stream culverts for this withdrawal.
HU 30.e.	Revise the Environmental Assessment to discuss the impact of the water obstructions and water withdraws from the obstructions on the resources. Where approval is being obtained from the Susquehanna River Basin Commission (SRBC), provide approval from the SRBC for	The Environmental Assessment was updated to capture the impacts of the water obstructions and withdrawals on Aughwick Creek. The area of the impacts will be contained to the LOD. No impacts are associated with the temporary piping and intake screens for the water withdrawal.
	the water withdraws if available.	Water withdrawal activities for Aughwick Creek will be below SRBC's permitting thresholds; therefore, no docket

HU 30.f.	Provide documentation of submission of proposed water obstructions and encroachments for these activities to each jurisdictional agency (PHMC, USFWS, PFBC, PGC, DCNR) and provide clearance from these agencies.	is required through the SRBC. Proper monitoring of the withdrawal activities will be conducted while the water source is used. SPLP previously submitted a final request for determination letter from USFWS, PFBC, DCNR and PGC where the Project was described consistent with the attached Application, the consultation history was summarized, and survey reports and mapping (including
		GIS files) were provided referencing the most current alignment. Copies of these final requests have been submitted, and clearances from all four agencies have been obtained and the conditions of those clearances outlined within the revised Project Description located in Attachment 9. Copies of the submissions are located in Attachment 6. See the response to HU 8 regarding PHMC.
HU 31.	Provide a registered professional engineer's seal and signed certification, in accordance with \$106.12(g), which shall read as follows: ''I (name) do hereby certify to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications, and reports has been prepared in accordance with accepted professional practice, is true and correct, and is in conformance with Chapter 106 of the rules and regulations of the Department of Environmental Protection.''	This signed certification has been added to the Attachment 14 documents.

s s n a	f the seal/certification is submitted on a separate piece of paper, please have it refer specifically to the project name and application number shown above. Also, the seal shall be affixed on the cover page of the plan sheets. 25 Pa. Code §§106.12(g)]	
e	indicate the duration each temporary crossing is expected to be in place. [25 Pa. Code §§105.13(1)(iii)(A)]	The Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4 has been revised to provide expected durations of the temporary stream and wetland crossings.
p for a p Id p p b b s for C	There are certain portions of streams where the pipeline is located less than the minimum 25 feet away from the stream bank. These portions are near hard meanders thereby increasing the potential for exposure during stream migration. Identify and provide adequate erosion protection at these locations, or move the proposed pipes 25 feet away from the stream bank. Natural vegetative stabilization or natural stream design structures should be considered first to avoid and minimize impacts. [25 Pa. Code §§105.314]	Erosion protection is not necessary because the pipeline will be buried below streams in accordance with DEP regulations. 25 Pa. Code §105.313 requires that pipelines under stream beds must be buried at least 3 feet deeper than existing grade, which includes the lowest point in the stream bed. As set forth in the Application, SPLP has committed to burying the pipeline 5 feet below existing stream beds. Where the pipeline is within 25 feet of streams, or where streams are within the Permanent ROW, the depth of cover is designed to avoid and minimize the risk of exposure due to stream migration. The pipeline is also inspected regularly to meet PHMSA regulations. Inspections include the identification of exposures. The Alternative Analysis (Attachment 11, Enclosure E, Part 3) demonstrates that the pipeline is sited in the most environmentally protective route. Sitespecific plans are provided as part of the E&S Plan sheet set for these crossing types and provide bank stabilization BMPs.
	t appears that the stream data sheets in the Aquatic Resource Report use different formats	The widths reported on Table 3 are accurate bank widths at centerline. Widths provided in the Aquatic Resource

	from one another for stream dimensions (bank	reports were estimated. Table 3 now has a footnote to
	width, water width, and water depth). Provide	include this explanation.
	justification for why Streams S-BB104, S-	-
	BB106, and S-BB108 use the average widths of	
	the streams. What are the widths of the streams	
	at the proposed crossings? Provide a more	
	accurate depiction of the stream width at the	
	proposed crossings. [25 Pa. Code	
	§§105.13(e)(1)(i)(A)]	
HU 35.	It appears that the stream data sheets in the	The widths reported on Table 3 are accurate bank widths
	Aquatic Resource Report use different formats	at centerline. Widths provided in the Aquatic Resource
	from one another for stream dimensions (bank	reports were estimated. Table 3 now has a footnote to
	width, water width, and water depth). Provide	include this explanation.
	justification for why the low range was used for	
	the bank width of Stream SBB97, while other	
	streams use the average or the high range.	
	Provide a more accurate depiction of the stream	
	width at the proposed crossings. [25 Pa. Code	
	§§105.13(e)(1)(i)(A)]	
HU 36.	The Bank Width indicated on the Stream Data	The bank width has been revised to 20 feet and an
	Sheet for S-Y1 appears to be incorrect. In	updated data sheet is provided in the supplemental
	addition, the Water Width is used as the bank to	information provided in Attachment 11, Enclosure A.
	bank Width on Table 3; however, other streams	
	use the bank width from the stream data sheets.	
	Clarify this discrepancy. [25 Pa. Code	
	§§105.13(e)(1), 105.21(a)(1)]	
HU 37.	Information for Stream S-L49 is provided in the	Stream S-L49 is not proposed to be impacted by the
	Aquatic Resources Report and shown on Sheet	Project; therefore it is not reported in Table 3 of Section
	2 of Tab 7A, but could not be found in Table 3	11. The floodway for this stream overlaps with the
	of Section 11. Update the table to include the	floodway impacts reported for S-L50, S-L51, and S-L52,
	missing information. [25 Pa. Code	therefore it is not reported separately from the floodway
	§§105.13(e)(1)]	impacts for S-L50, S-L51, and S-L52 in Table 3.

HU 38.	Information for Stream S-Y4 is provided in the Aquatic Resources Report and shown on Sheet 7 of Tab 7A, but could not be found in Table 3 of Section 11. Update the table to include the missing information. [25 Pa. Code	Stream S-Y4 is not proposed to be directly impacted by the Project. This stream drains less than 100 acres (and is therefore waived from the requirement to obtain a permit under Ch. 105.12.2). SPLP identifies waived floodways on the aerial site plans located in Attachment 7, Tab7A.
HU 39.	§§105.13(e)(1)]	The label for streem S. DD105 was placed incorrectly on
но 39.	Information for Stream S-BB105 is provided in the Aquatic Resources Report, but could not be found in Table 3 of Section 11 or Sheet 17 of Tab 7A. Update the table to include the missing information. [25 Pa. Code §§105.13(e)(1)]	The label for stream S-BB105 was placed incorrectly on the site plans. S-BB105 is not proposed to be directly impacted by the Project. This stream drains less than 100 acres (and is therefore waived from the requirement to obtain a permit under Ch. 105.12.2).
HU 40.	Information for Stream S-L43 is provided in the Aquatic Resources Report and shown on Sheet 21 of Tab 7A, but could not be found in Table 3 of Section 11. Update the table to include the missing information. [25 Pa. Code §§105.13(e)(1)]	Stream S-L43 is not proposed to be directly impacted by the Project. This stream drains less than 100 acres (and is therefore waived from the requirement to obtain a permit under Ch. 105.12.2). SPLP identifies waived floodways on the aerial site plans located in Attachment 7, Tab7A.
HU 41.	Table 3 indicates that the bank to bank width for Stream S-Y7 is 2 feet; however, the bank width on the Stream Data Sheet is 5 feet. Clarify this discrepancy. The length of centerline crossing cannot be less than the bank width. Correct any areas that depict the impacts to S-Y7 inconsistently. [25 Pa. Code §§105.13(e)(1)]	The widths reported on Table 3 are accurate bank widths at centerline. Widths provided in the Aquatic Resource reports were estimated. Table 3 now has a footnote to include this explanation.
HU 42.	Table 3 indicates that the bank to bank width for Stream S-Y10 is 2 feet; however, the bank width on the Stream Data Sheet is 3 feet. Clarify this discrepancy. [25 Pa. Code §§105.13(e)(1)]	The widths reported on Table 3 are accurate bank widths at centerline. Widths provided in the Aquatic Resource reports were estimated. Table 3 now has a footnote to include this explanation.

HU 43.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
110 73.	for Stream S-Y20 is 3 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 2 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	\$\\$105.13(e)(1)]	merade this explanation.
HU 44.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
110 11.	for Stream S-L33 is 7 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 8 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	§§105.13(e)(1)]	merade uns emplanation
HU 45.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
	for Stream S-M10 is 3 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 4 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	§§105.13(e)(1)]	•
HU 46.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
	for Stream S-M2 is 3 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 2 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	§§105.13(e)(1)]	
HU 47.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
	for Stream S-K96 is 1.5 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 3 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	§§105.13(e)(1)]	
HU 48.	Table 3 indicates that the bank to bank width	The widths reported on Table 3 are accurate bank widths
	for Stream S-K87 is 7 feet; however, the bank	at centerline. Widths provided in the Aquatic Resource
	width on the Stream Data Sheet is 5 feet.	reports were estimated. Table 3 now has a footnote to
	Clarify this discrepancy. [25 Pa. Code	include this explanation.
	§§105.13(e)(1)]	

HU 49.	Stream Data Sheets could not be located in the	Data Sheets are provided within the supplemental wetland
	Aquatic Resources Report for Streams S-Y24 4,	delineation information provided in Attachment 11,
	S-JH2, S-JH4, S-K92, S-KP3, S-L17, S-L45A,	Enclosure A.
	and S-M49. Provide any missing data sheets.	
	[25 Pa. Code §§105.13(1)(i)(A)]	
HU 50.	Chapter 106 Floodplain impacts are not	The revised aerial site plans provided in Attachment 7,
	identified for S-L46 on sheet 20 of Tab 7A.	Tab7A display the impacts associated with the HDD of
	Provide plans correctly identifying the impacts	stream S-L46, Trough Creek, and the associated 100-year
	to the floodplain. [25 Pa. Code §§106.12(d)(2)]	floodplain.
HU 51.	The site specific drawings reference "Stream	The site specific drawings provided within Attachment 7
	Restoration" but no detail or plan for this	and the E&S Plan sheet set in Attachment 12 have been
	stream restoration has been provided. Provide a	increased in number to cover additional stream crossings,
	plan for the stream restoration referenced in the	and have been updated to include a stream restoration
	site specific drawings. In addition, clarify if this	plan drawing, including plan and profile views and notes.
	will be utilized at additional stream crossings or	The site-specific plans are specific to the crossing.
	not and identify the crossings where it will be	
	utilized. [25 Pa Code §§105.13(e)(1)(i)(G),	
	105.13(e)(1)(i)(C), 105.311(2), 105.15(a),	
	105.14(b)(4)]	
HU 52.	The plans indicate that Streams S-M2, S-M4, S-	Site-specific drawings have been revised or new site-
	L16, S-L15, S-L13, S-L21, S-L51, S-L52, S-	specific drawings prepared for these crossings and are
	L53, S-Y19, S-JH2, S-BB106, S-BB97, S-L48,	provided in the revised and now included within
	S-L42 within wetland L24, S-L25, S-M17, S-	Attachment 7 and the E&S Plan sheet set provided in
	L34, S-M9, M11, S-M20, S-K82, S-K89, and	Attachment 12. These plans provide the existing
	S-K85 flow in and along and under the ROW	condition, E&S Plan, and restoration stage plan and
	and proposed pipelines and not across and	profiles for these areas. Additional notes and details are
	immediately through them or start/end in the	reference and provided with the E&S Plan provided in
	area of excavation for the pipes. The plans	Attachment 12 and Impact Avoidance, Minimization, and
	provided for S-M18 and S-M4 in Tab 7D do not	Mitigation Procedures provided in Attachment 11,
	adequately depict the existing or proposed	Enclosure E, Part 4.
	conditions upon stream restoration. There are	
	no site specific plans for S-M2, S-L16, or S-	

	L15. Provide site-specific plans, cross sections, and profiles that adequately depict the existing and proposed conditions, stream bed, stream banks, limits of excavation, and methods for the stream restorations. [25 Pa. Code §§105.13(e)(1)(i)(C), 105.13(e)(1)(i)(G), 105.301]	
HU 53.	The ATWS area in the floodway of Stream S-L30 on Sheet 36 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to the stream. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 54.	The ATWS area in the floodway of Stream S-L45a on Sheet 21 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to the stream. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 55.	The ATWS area in the floodway of Stream S-M3 on Sheet 43 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to the stream. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.

HU 56.	The ATWS area in the floodway of Stream S-Y22 on Sheet 3 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to streams. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 57.	The ATWS area in the floodway of Stream S-Y23 on Sheet 4 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to streams. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 58.	The ATWS area in the floodplain of Stream S-Y1 on Sheet 6 of Tab 7A is designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to streams. [25 Pa. Code §§106.3(2)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 59.	The temporary access road that crosses the floodplain on Sheet 6 does not appear to be included in the calculations for temporary floodplain impacts. Provide an accurate value for the impacts within the floodplains where proposed activities will occur. [25 Pa. Code §§106.(d)(2)]	The impact calculation to the 100-year floodplain associated with S-Y1 (James Creek) has been updated to ensure that all activities and impacts are calculated appropriately. Table 3 of Attachment 11 has been revised accordingly.

HU 60.	The ATWS areas in the floodways of Streams S-M21 and S-BB98 on Sheet 23 of Tab 7A are designated for spoil; however a plan depicting the location of the spoil in conjunction with E&S controls could not be found. Provide plans that demonstrate proper measures to minimize the potential for discharge of fill material to streams. [25 Pa. Code §§105.13(g)]	A standard typical detail has been added to the E&S Plan sheet set located in Attachment 12 to depict protection measures to be implemented when spoil is located within floodways, floodplains, or wetlands. Where applicable, standard typical details for stream crossings found within the E&S Plan located in Attachment 12 also depict protection measures for spoil.
HU 61.	Several streams will utilize Temporary travel lanes, but the temporary floodway impacts are listed as zero. Clarify these discrepancies. [25 Pa. Code §§105.15(a), 105.21(a)(1), 105.13(e)(1)]	In general, where floodways are crossed and no impacts are calculated for the stream, there is an existing culvert or bridge that is being used, or, SPLP is using a waiver for streams that drain less than 100 acres.
HU 62.	The impact table identifies the acres of Permanent Impact for wetlands L31 and L32 inaccurately. Revise the impact table to identify the correct acres of impact. [25 Pa. Code §§105.15(a), 105.21(a)(1)]	Attachment 11, Table 2 has been revised to display the correct impacts in the permanent ROW to wetlands L31 and L32.
HU 63.	Provide a site-specific auger bore drawing for the bore under Weller Road in the floodway of stream S-Y23. [25 Pa. Code §§105.13(e)(1)(i), 105.301(3)]	Attachment 7, Tab 7C provides the site specific bore drawing for Weller Road.
HU 64.	The site Specific Drawing S-Y3-C -101 is inconsistent with E&S Plan Sheet ES-3.10 and the HDD plan drawings and proposes different locations of the bore face, stream impacts, and E&S BMPs. Revise the plan drawings to be consistent and accurate. [25 Pa. Code \$\$105.21(a)(1), 105.13(e)(1)(i), 105.301]	The revised E&S Plan provided in Attachment 12 has been updated to reference the site-specific drawings and eliminate any inconsistencies between the two drawing sets.
HU 65.	The March 2016 Wetland Delineation Addendum delineates wetland Y7's Palustrine Forested (PFO) and Palustrine Emergent (PEM)	The E&S Plan Sheets ES-3.11 and ES-3.12 have been updated to utilize the most recent wetland delineations from the March 2016 Wetland Delineation Addendum.

	boundaries differently than the July 2015	
	Aquatic Resources Report. The impact plan	
	drawings utilize the more recent delineation;	
	however, the E&S plans ES-3.11 and ES-3.12	
	and the HDD plan drawings utilize the July	
	2015 delineation. Revise the E&S and HDD	
	plan drawings to depict the wetland accurately	
	utilizing the March 2016 Wetland Delineation	
	Addendum delineation. [25 Pa. Code	
	§§105.21(a)(1), 105.451, 105.13(e)(1)(i)(A),	
	105.13(e)(1)(x)(A)	
HU 66.	The impact table does not identify any	Table 2 of Attachment 11 has been revised accordingly.
	temporary impacts to wetland Y7. Revise the	
	impact table to identify the temporary impacts	
	to wetland Y7 from the proposed temporary	
	access road and quantify the acre(s) of PFO and	
	PEM wetland temporarily impacted. In	
	addition, identify any acres of wetland	
	conversion. [25 Pa. Code §§105.15(a),	
	105.21(a)(1)]	
HU 67.	Revise the impact table to identify the linear	Table 3 of Attachment 11 has been revised to reflect the
	feet and square feet of the temporary impact to	temporary impacts of the proposed temporary access
	streams S-Y7 and S-Y6 from the proposed	roads/bridges over streams S-Y6 and S-Y7.
	temporary access road. [25 Pa. Code	
	§§105.15(a), 105.21(a)(1)]	
HU 68.	The E&S plan drawing E&S-3.12 depicts a	The E&S Plan sheets have been revised and reference by
	temporary stream crossing of stream S-Y6 at	symbology and note that a temporary equipment bridge is
	approximately pipe station 7200+50 which does	called for at this location. The contractor will use the
	not cross the stream but rather depicts the edge	standard details to install the most appropriate bridge to
	of the matting overtop of the stream channel.	allow safe installation of the pipelines. The contractor is
	This is inconsistent with the standard detail.	required to install the bridge in accordance with the
	Revise the plans to cross the stream as close to	specification of the typical notes and details. The

	perpendicular as practicable and if the crossing	combination the plan sheet and details will ensure all
	remains as proposed, provide plans depicting	bridges will be properly installed.
	how the crossing will be accomplished in this	
	fashion. [25 Pa. Code §§105.21(a)(1),	
	105.13(e)(1)(i), 105.313(b), 105.151(1)]	
HU 69.	Stream S-CC22 is identified as an UNT to	Both streams S-CC22 and S-Y8 have been updated to be
	Raystown Lake but flows into S-Y8 which is an	named UNT of Raystown Branch Juniata River (into
	UNT to James Creek. Revise and clarify the	which James Creek also flows). The appliation has been
	application to be consistent and accurate. [25	updated.
	Pa. Code §§105.21(a)(1), 105.13(e)(1)(i)(A)]	
HU 70.	The delineated boundaries on LK-2 are	The boundaries of Raystown Lake, LK-2, have been
	inconsistent with the open water visible on the	updated to reflect the boundary of these features. The
	aerial imagery on the plan drawings and on the	attached revised site plans and impact tables include the
	contours on the plan drawings and the E&S	all changes from the result of this delineation.
	plan drawings ES-3.22 and ES-3.23. Revise the	
	delineation boundaries for LK-2 to be accurate	
	and consistent on the plan drawings and revise	
	the impact table to accurately reflect the	
	proposed impacts. [25 Pa. Code §§105.21(a)(1),	
	105.13(e)(1)(i)(A), 105.13(e)(1)(x)(A)	
HU 71.	Revise HDD plan Drawings PA-HU-	These drawings have been updated and provide in
	0047.0000-RD and PA-HU-0047.0000-RD-16	Attachment 7, Tab 7B to include the noted resources and
	to include and depict the boundaries of wetland	consistent E&S Plan LOD.
	WL-JH2 and stream S-L45A and include a	
	limits of disturbance which is consistent with	
	the plan and E&S drawings. [25 Pa. Code	
	§§105.21(a)(1), 105.13(e)(1)(i)(C)]	
HU 72.	The impact table identifies that stream S-L45A	Sheet 21 of the site plans identifies the impact to the
	will have a temporary impact; however, the site	floodway associated with stream S-L45a by Additional
	plan and E&S plan do not depict temporary	Temporary Workspace associated with the HDD of
	impacts to this stream. Revise and clarify the	Trough Creek. In the attached revised permit application
	application to be consistent and accurate. [25	documents, the impacts to this stream floodway are

	Pa. Code §§105.21(a)(1), 105.13(e)(1)(i),	accurately and consistently identified across all parts of
	105.15(a)]	the application.
HU 73.	It appears that stream S-L30 continues and	The area was field investigated for waters of the
	crosses the proposed access road identified on	Commonwealth. Stream L-30 does not continue. It
	plan sheets 36 and 37 and E&S plan Sheet ES-	appears to be a storm water erosional feature carrying
	3.60. No stream has been identified in the	storm water from culvert to west (SR 55) through an
	Aquatic Resource Report. Revise the	active cow field and drains to vegetated area to the south.
	application to identify this stream and if any	No flow was observed, and a bed and bank was not
	water obstructions are proposed. If water	identified. Supplemental information regarding this
	obstructions or encroachments are proposed,	location is provided in Attachment 11, Enclosure A.
	revise the application accordingly to include	
	them. [25 Pa. Code §§105.13(e)(1)(i)(A),	
	105.13(e)(1)(iii), 105.21(a)(1)]	
HU 74.	The proposed route of the pipelines East of	The areas east of stream S-L26 and around stream S-
	stream S-L26 and around stream S-CC10 is	CC10 have been investigated for waters of the
	outside of the survey area of the Aquatic	Commonwealth. The Supplemental Aquatic Resource
	Resource Report and its Addendums. Provide	Report and Supplemental in Attachment 11, Enclosure A
	an aquatic resource delineation and	have been updated to reflect the revised survey area.
	documentation that the area has been	
	investigated for waters of the Commonwealth.	
	[25 Pa. Code §§105.13(e)(1)(x)(A), 105.451,	
	105.13(e)(1)(i)(A)]	
HU 75.	The 2016 PADEP Field Review Technical	Additional-specific data was collected and data sheets
	Memo, dated May 12, 2016, and found in the	identifying this area as upland have been provided within
	Environmental Assessment, contains inaccurate	the supplemental information provided in Attachment 11,
	statements regarding the site identified as	Enclosure A.
	Huntingdon #4. It states that DEP confirmed no	
	wetland was present at the W46b site and that	
	DEP determined that W46b does not meet	
	wetland soil or hydrology criteria. While DEP	
	was present at this general site location as	
	mentioned in the Memo, Tetra Tech stated on-	

	site that wetland W46b was never fully	
	investigated likely because the islands were not	
	accessible at that time. DEP stated that the area	
	needed to have a wetland determination	
	conducted for the islands in the creek to	
	determine if wetlands are present, and Tetra	
	Tech and RETTEW proceeded to conduct a	
	wetland determination on the islands in the	
	Aughwick Creek and W46b area. DEP did not	
	accompany Tetra Tech and RETTEW into this	
	area and remained further back above the east	
	bank of the creek. In addition, the wetland	
	W46b data sheet states that only the outermost	
	area of W46b was delineated and documents	
	that wetland hydrology, soils, and vegetation	
	criteria were met. This area was not looked at	
	during the on-site meeting. Therefore, while the	
	plans have removed all wetlands from this area,	
	it appears a wetland is present in the area	
	somewhere. Provide a revised wetland	
	delineation for this entire area, including data	
	sheet(s) for the islands in Aughwick Creek and	
	a verification of the W46b data sheet with	
	discussion and revised delineation mapping. [25	
	Pa. Code §§105.13(e)(1)(i)(A),	
	105.13(e)(1)(x)(A), 105.451, 105.21(a)(1)	
HU 76.	Provide profiles for the temporary crossings	Temporary bridge and wetland mat crossing plan and
	identified in the E&S plan that depict at a	profiles are presented within the E&S Plan as standard
	minimum the existing conditions and the	typical details. Several typical temporary crossing
	proposed conditions. Also, provide information	methods are presented for streams and a single method for
	regarding the length of time that all temporary	wetlands. The contractor is offered to select the best
	crossings will be in place. Some of the plans	option to best fit the crossing and meet the needs of

	appear to use unnatural stream contours upon	allowing safe travel through and installation of the
	restoration. Identify the aggregate and the	pipeline while minimizing the impact to the stream and
	typical timber mat crossing being used. [25 Pa.	adjacent areas. Restoration of these areas are thoroughly
	Code §§105.13(e)(1)(i)]	described within the E&S Plan provided in Attachment
		12. Approval of the E&S Plan is being sought through the
		Chapter 102 regulations.
HU 77.	Revise plan sheet 44 to identify the FEMA	The Aerial Site Plan was revised to add the
	floodplain boundaries for stream S-K94. [25 Pa.	FEMA/Chapter 106 floodplain area to S-K94 (Blacklog
	Code §§105.13(e)(1)(i)(A)]	Creek).
HU 78.	The plans indicated on E&S plan ES-3.73 that	The detail on the E&S Plan has been revised to allow for
	stream S-K94, which is 20-feet wide, will be	use of a rail car support to facilitate crossing of large
	temporarily crossed with timber mats. Explain	spans. The contractor will use the standard details to
	how timber mats will be utilized to construct a	install the most appropriate bridge to allow safe
	temporary bridge of this length. [25 Pa. Code	installation of the pipelines. The contractor is required to
	§§105.13(e)(1)(iii)(A)]	install the bridge in accordance with the specification of
		the typical notes and details. The combination the plan
		sheet and details will ensure all bridges will be properly
		installed.
HU 79.	The ATWS area on plan sheet 45 appears to	Wetland K71 is not proposed to be impacted by the
	include wetland K71. However, the plan is not	Project. However, the attached revised site plans are at a
	of a sufficient scale to depict whether wetland	larger scale, which demonstrate that there is no impact to
	K71 will be impacted or not, and E&S plan	this resource.
	sheet ES-3.74 does not contain all of the ATWS	
	area on it. Revise the plan and/or E&S plan to	
	clearly depict this area in the floodway of	
	stream S-K96 and that wetland K71 will not be	
	impacted. [25 Pa. Code §§105.21(a)(1),	
	105.13(e)(1)(i)]	
HU 80.	Stream S-L16 is depicted on E&S plan sheet	The timber mat has been shifted so that it is not on the gas
	ES-3.78 as being crossed by a temporary timber	line on E&S Plan sheet ES-3.78.
	mat at the same location as a proposed gas line.	
	Explain how this will occur and provide	

	additional plan sheets to show stages of	
	construction if necessary. [25 Pa. Code	
	§§105.13(e)(1)(i), 105.13(e)(1)(iii)(A),	
	105.21(a)(1)]	
HU 81.	Revise the impact table to separately identify the impact from the proposed travel lane on wetlands K67 and K68 and streams S-K90, S-K9, and S-K93. It is unclear if the proposed impacts are permanent or temporary, clarify if the proposed impacts are permanent or temporary and identify the purpose of the travel lane. [25 Pa. Code §§105.13(e)(1)(i), 105.13(e)(1)(iii), 105.15(a), Environmental	The impact table has been revised to identify the impacts from the Travel Only area in a separate row for each resource. The impacts have been quantified and are considered temporary. The purpose of the travel lane is to allow construction equipment to travel smoothly through the area along the existing cleared corridor (e.g., without the need for tree clearing), avoiding the need for each construction phase/crew to move around these areas and disrupt the construction sequence/logisites.
	Assessment Form Instructions]	
HU 82.	It appears the temporary impacts to stream S-K83 from the temporary ROW could be avoided. Revise the application to avoid the temporary impacts to this stream or revise the alternatives analysis to discuss in detail why the temporary workspace is necessary. Note: the E&S plan ES-3.84 does not depict any water obstructions or encroachments in the stream in this temporary ROW. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7)]	The temporary workspace has been adjusted to avoid stream S-K83. The Aerial Site Plan in Attachment 7, Tab 7A and the Impact Tables in Attachment 11 have been revised accordingy.
HU 83.	Stream S-Y11 is identified as perennial draining into stream S-Y10, ephemeral. This appears to be inconsistent. Please clarify if stream S-Y10 is perennial, ephemeral, or needs partially reclassified. [25 Pa. Code §§105.21(a)(1), 105.15(a), 105.14(b)(4)]	The name for each stream was inadvertently attributed to the other waterbody. Stream S-Y11 is the main, perennial channel, and S-Y10 is the ephemeral drainage feeding into it. The attached revised permit application documents reflect this change.
HU 84.	The following streams start and/or end within the aquatic resource survey area and/or	The application has been supplemented with an aquatic resource addendum provided in Attachment 11. The

	proposed ROW and the plan maps, photographs or narrative do not give justification, or appear to depict why they start/end: S-Y21, S-Y20, S-BB104, S-KP3, S-M28, S-L37, S-L36, S-L34, S-M13, S-L25, S-L21, and S-K89. Revise the application to explain their start/end points, at a minimum, within the entire survey area, and ensure that the floodways and proposed floodway impacts are fully identified and depicted. Provide color photographs which depict the resource and surrounding area sufficiently, including photographs of start/end locations. [25 Pa. Code §§105.13(e)(1)(i)(A), 105.13(e)(1)(iv)]	stream lengths and stop and start points were verified or modified based on additional field work. Additional photographs and narrative are provided within the addendum report in Attachment 11, Enclosure A.
HU 85.	Wetland M3 is identified on the impact table, and identified and depicted impact plan drawing sheet 43, as being open cut and stream S-M3 is identified as the floodway being bored. However, the E&S plan sheet ES-3.71 and bore plan drawing PPP-PA-HU-0102.000-RD depict that stream S-M3 and wetland M3 will be bored and the floodway of S-M3 will be bored and partially open cut for bore pits. Revise and clarify the plans and impact tables to be accurate and consistent. [25 Pa Code \$\$105.21(a)(1), 105.15(a), 105.13(e)(1)(i)]	The attached revised site plans and impact tables have more clearly identified the proposed impacts in the vicinity S-M3 and Wetland M3. Wetland M3 and stream S-M3 will be crossed using a conventional bore, and the wetland will be matted and stream bridged for equipment crossing. Floodway, stream, and wetland impacts are all accounted for in the impact tables in Attachment 11.
HU 86.	The site impact plan sheet 23, E&S plan sheet ES-3.37, site specific drawing S-BB7-C-101, and Bore drawing PPP-PA-HU-0047.012-RD all depict different proposed impacts, construction techniques, and BMPs. Revise the application to provide plan drawings which are	All plans, maps, and figures have been updated to contain consistent information.

HU 87.	all consistent and accurate, depict the same proposed impacts, and revise the impact table accordingly to accurately identify the proposed impacts. [25 Pa Code §§105.21(a)(1), 105.13(e)(1)(i), 105.15(a)] It appears based on the contours that stream S-	Stream S-M9 was extended to the south and east where it
	M9 continues to the East and that the floodway is proposed to be impacted. However, the delineation and floodway are not depicted farther to the East. Revise the application to delineate this stream farther downstream in the area and depict the floodway on the plans. Revise the application accordingly to include any additional impacts. [25 Pa. Code §§105.13(e)(1)(i)(A), 105.21(a)(1), 105.15(a)]	enters a culvert under a roadway. All Project mapping and plans have been updated accordingly. Additional-specific data was collected and supplemental information provided in Attachment 11, Enclosure A.
HU 88.	Stream S-BB97 is proposed to be bored, and wetland BB127 is proposed to be both bored and open cut, according to the Bore plan drawing PPP-PA-HU-0047.012-RD. It appears all of wetland BB127 could be bored to further minimize impacts. Revise the application to bore all of wetland BB127. If this is not practicable, revise the alternatives analysis to provide detailed documentation and evidence as to why this wetland cannot be bored. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a(b)(2), 105.18a(b)(3)]	The workspaces in the vicinity of S-BB97 have been revised to reduce impacts to aquatic resources. The bore has been extended so that Wetland BB127 will not be open trenched. A travel lane is still required to access the Project areas to the west but has been sited to not cross S-BB97 and minimize impact to the PFO wetland in this area. A site-specific drawing has been prepared for this crossing and is provided in Attachment 12 within the E&S Plan sheet set.
HU 89.	The site specific plan drawing S-BB97-C-101 depicts trench plugs within the area proposed to be bored. Revise the application to clarify how trench plugs are to be installed along the bore path of streams S-BB97 and S-M21 and	Attachment 7, Tab 7C contains the site specific bore drawing that has been revised to clarify the trench plug installation.

	wetland BB127. [25 Pa. Code §§105.14(b)(4),	
	105.13(e)(1)(i)(C), 105.301(10), 105.15(a)]	
HU 90.	The E&S plan drawing ES-3.37 depicts	The timber mat has been shifted so that plans are
	proposed temporary matting in wetland BB127	consistent.
	north of the proposed pipelines while the site	
	specific plan depicts temporary matting south of	
	the proposed pipelines. Revise and clarify the	
	site plans to be accurate and consistent. [25 Pa.	
	Code §§105.13(e)(1)(i), 105.21(a)(1)]	
HU 91.	It appears the temporary ROW proposed in	The workspaces in the vicinity of S-BB97 have been
	wetland BB127 may not be necessary if all of	revised to reduce impacts to aquatic resources. The bore
	the wetland is bored. Revise the application to	has been extended so that Wetland BB127 will not be
	remove the temporary ROW and temporary	open trenched. A travel lane is still required to access the
	impacts to wetland BB127. Alternatively if this	Project areas to the west but has been sited to not cross S-
	is not possible or practicable, provide detailed	BB97 and minimize impact to the PFO wetland in this
	documentation and evidence explaining why it	area. A site-specific drawing has been prepared for this
	is necessary and that it cannot be further	crossing and is provided in Attachment 12 within the
	avoided and minimized. [25 Pa. Code	E&S Plan sheet set.
	§\$105.13(e)(1)(viii), 105.14(b)(7),	
	105.18a(b)(2), 105.18a(b)(3)]	
HU 92.	It appears the road adjacent to wetland M8 is	This road will be open cut. The Alternatives Analysis
	proposed to be bored. Clarify if the road is	provided in Attachment 11, Enclosure E, Part 3
	proposed to be bored, and identify the bore pits	demonstrates the infeasibility of implementing trenchless
	on the plan drawings. It appears impacts to	methods across the Project.
	wetland M8 could be further minimized by	
	incorporating it into the bore. Revise the	
	application to include boring under wetland M8	
	and if this is not practicable, revise the	
	alternatives analysis to provide detailed	
	documentation and evidence as to why this is	
	not a practicable alternative to further avoid and	

	minimize impacts. [25 Pa. Code	
	§§105.13(e)(1)(i), 105.14(b)(7), 105.18a(b)(3)]	
HU 93.	It appears the road adjacent to wetland K72 and	The road is proposed to be open cut. The Alternatives
	stream S-K96 is proposed to be bored. Clarify if	Analysis provided in Attachment 11, Enclosure E, Part 3
	the road is proposed to be bored, and identify	demonstrates the infeasibility of implementing trenchless
	the bore pits on the plan drawings. It appears	methods at this location.
	impacts to wetland K72 and stream S-K96	
	could be further minimized by incorporating	
	them into the bore. Revise the application to	
	include boring under wetland K72 and stream	
	S-K96 and if this is not practicable, revise the	
	alternatives analysis to provide detailed	
	documentation and evidence as to why this is	
	not a practicable alternative to further avoid and	
	minimize impacts. [25 Pa. Code	
	§§105.13(e)(1)(i), 105.14(b)(7), 105.18a(b)(3)]	
HU 94.	It appears the road adjacent to stream S-K88 is	The Alternatives Analysis provided in Attachment 11,
	proposed to be bored. Clarify if the road is	Enclosure E, Part 3 has been revised to include a
	proposed to be bored, and identify the bore pits	discussion on the limitations of trenchless methods and
	on the plan drawings. It appears impacts to	presents an attached trenchless feasibility assessment.
	wetland K66 and stream S-K88 could be further	The crossing at Stream S-K88 and Wetland K66 was
	minimized by incorporating them into the bore.	specifically evaluated and determined to not be
	Revise the application to include boring under	technically feasible for an HDD or bore. The purpose of
	wetland K66 and stream S-K88 and if this is not	the bore to east of Wetland K66 is to bore the road.
	practicable, revise the alternatives analysis to	
	provide detailed documentation and evidence as	
	to why this is not a practicable alternative to	
	further avoid and minimize impacts. [25 Pa.	
	Code §§105.13(e)(1)(i), 105.14(b)(7,	
	105.18a(b)(3)]	
HU 95.	Table 3 identifies the Bank to Bank Width for	The data for stream bank width was collected at a slightly
	stream S-L29 as 200 feet; however, it also	wider section of stream S-L29. The attached application

	identifies the Length of Centerline Stream	for permit documents ensure the bank width at centerline
	Crossing at HDD/Bore as 148. These are	crossing is correctly reflected for impact calculations.
	inconsistent at the length of the pipeline	
	crossing cannot be less than the bank to bank	
	width. Revise and clarify the impact table to be	
	consistent and accurate with the plans. [25 Pa.	
	Code §§105.15(a), 105.21(a)(1)]	
HU 96.	Streams S-Y2, S-Y3, S-Y5, S-Y6, S-Y7, S-Y8,	All of these streams have been updated to be named UNT
	S-Y9, S-Y10, S-Y11, S-Y12, and S-Y13 are	to Raystown Branch Juniata River in all the revised
	identified incorrectly and they are UNTs to the	application.
	Raystown Branch of the Juniata River, not	
	James Creek. Revise the application	
	accordingly. [25 Pa. Code §§105.13(e)(1)(i)(A),	
	105.21(a)(1)]	
HU 97.	Raystown Lake or UNTs to Raystown Lake are	All of these streams have been updated to be named UNT
	not identified as streams in 25. Pa. Code	to Raystown Branch Juniata River in the revised
	Chapter 93. Revise the following streams to be	application.
	identified as UNTs to Raystown Branch of the	
	Juniata River: S-Y14, S-Y15, S-Y16, S-CC18,	
	S-Y17, S-Y18, S-Y19, and S-Y20. [25 Pa. Code	
	§§105.13(e)(1)(i)(A), 105.21(a)(1)]	
HU 98.	Raystown Lake, identified as LK-2, is identified	Raystown Lake has been moved from Table 2 (wetland
	on Table 2, Wetland Impact Summary.	impact summary table) into Table 3 (stream impact
	However, this is also the Raystown Branch of	summary) to reflect the Chapter 93 and PA Fish and Boat
	the Juniata River. Revise the application to	Commission (PAFBC) status for the Raystown Branch
	identify it as both Raystown Lake and the	Juniata River. Floodway/floodplain impacts associated
	Raystown Branch of the Juniata River, and	with this stream are presented within Table 4 (Chapter
	identify the Chapter 93 stream designation	106 areas summary). Tables 2 and 4 are provided in
	(WWF, MF) on Table 3. [25 Pa. Code	Attachment 11.
	§§105.13(e)(1)(i)(A), 105.21(a)(1), 105.15(a)]	
HU 99.	The following streams are identified as UNTs	These streams have been updated to be named UNT to
	to Trough creek when they are UNTs to Little	Little Trough Creek in the revised application.

	Trough Creek: S-BB104, S-BB108, S-BB106,	
	and S-KP3. Revise the application to identify	
	the streams correctly. [25 Pa. Code	
	§§105.13(e)(1)(i)(A), 105.21(a)(1)]	
HU 100.	The waterbody identified as Pond-I4 is an	Table 3 located within Tab 11 has been updated with a
	online pond with an UNT to Little Trough	footnote to reflect that Pond-I4 is also an UNT to Little
	Creek flowing through it. Revise the application	Trough Creek and the Chapter 93 designation provided.
	to identify that it is also an UNT to Little	
	Trough Creek and identify the Chapter 93	
	Designated use. [25 Pa. Code	
	§§105.13(e)(1)(i)(A), 105.21(a)(1)]	
HU 101.	Stream S-L46 is identified as Trough creek	Stream S-L46 has been updated to be named Little
	when it is actually Little Trough Creek. Revise	Trough Creek in the revised application.
	the application accordingly to correctly identify	
	this stream as Little Trough Creek. [25 Pa.	
	Code §§105.13(e)(1)(i)(A), 105.21(a)(1)]	
HU 102.	Revise the plan drawings to depict the mapped	These FEMA floodplains have been added to the
	FEMA Floodplain at the following stream	drawings and impacts associated with these features have
	crossings: S-M21, S-M16, S-L40, Access Road	been tabulated and summarized in the attached revised
	South of S-L30, S-K89, and S-K90. [25 Pa.	permit application documents.
	Code §§105.13(e)(1)(i)(A)]	
HU 103.	Revise the application plans to include all	To ensure contractor compliance, SPLP has developed a
	avoidance and minimization measures for	state-of-the-art web-based mapping applications that is
	identified species of concern associated with	required to be used by the contractor to determine all
	water obstructions and encroachments from the	special environmental restrictions such as PNDI and trout
	Pennsylvania Game Commission, Pennsylvania	stream restrictions. All of the restrictions and avoidance
	Fish and Boat Commission, Pennsylvania	measures committed to and approved by PNDI agencies
	Department of Conservation and Natural	are included in the Project Description within a summary
	Resources, and the U.S. Fish and Wildlife	table and within the PNDI agency final determination
	Service. Ensure any seed mixtures, matting, or	letters and accepted Conservation Plans included in
	other specified items are included in the plans	Attachment 6, Tab B. The same notes in the Project
	and/or E&S plans. In addition, revise the	Description are reflected within the E&S Plan notes.

	Environmental Assessment to discuss the	Trout stream restrictions and other sensitive species
	avoidance and minimization measures and	restrictions are also noted on aerial site plans and E&S
	clearances received. [25 Pa. Code §§105.15(a),	Plans, however due to the senstive nature of the some of
	105.14(b)(4), 105.16(c)(3)]	the information not all is depicted. SPLP will implement
		a comprehensive Environmental Training and Inspection
		program designed specifically to ensure contractors are
		appropriate notified and are adhering to such restrictions.
HU 104.	The E&S plan details for temporary stream	The E&S plans (Attachment 12) have been revised to
	crossings and plan drawings state timber mats	identify that a temporary equipment bridge will be
	or a temporary equipment bridge may be	installed or temporary timber matting for wetland will be
	utilized, but only depicts a timber mat bridge.	installed. The contractor is then obligated to utilize any of
	Provide details for the proposed temporary	the approved methods for these crossing types provided
	equipment bridge(s) which depict the size	within the E&S Notes and Details. Exact dimensions will
	shape, and span of the structure. Provide	be dictated by the location and method chosen.
	separate details depicting the timber mat and	
	other bridge structure crossing's cross sections.	
	In addition, revise the E&S plan and/or other	
	plan drawings to identify the method of each	
	temporary stream crossing proposed at each	
	location. [25 Pa. Code §§105.13(e)(1)(C),	
	105.13(e)(1)(i)(G), 105.13(e)(1)(iii)(A),	
	105.151(1), 105.21(a)(1)]	
HU 105.	Trench plugs are proposed to be located at	The wetland standard typical crossing detail has been
	wetland/upland interfaces. Additional trench	updated to include trench plugs within the wetland for
	plugs may be necessary along the length of the	long open-cut wetland crossings. Also, the E&S plan
	crossing due to the length and/or slope to	drawings have been revised to be consistent with the
	maintain hydrology throughout the wetland.	detail.
	Review and revise the application and plans	
	accordingly. Some additional guidance is	
	available in the PA E&S Control BMP Manual.	
	[25 Pa. Code §§105.13(e), 105.18a]	

HU 106.	Temporary road stream crossing details utilizing culverts are provided on E&S plans ES-0.09 and ES-0.11; however, the E&S plans and impact plans do not identify that any of these crossings are to be used. Revise the E&S plans to remove these proposed crossing methods if not proposed to be utilized, or identify where the proposed crossing methods will be utilized. [25 Pa. Code \$\$105.13(e)(1)(i)(C), 105.151(1), 105.21(a)(1), 105.13(e)(1)(iii)(A)]	The E&S Plan provides DEP approved standard typical details for temporary road crossings. The details will be used in cases where alternative crossing methods are needed to accommodate the crossing and safe installation of the pipelines.
HU 107.	Revise the stream Bank Restoration Detail to clearly indicate that the existing bank slope and grade and elevation are to be restored, to identify a biodegradable erosion control blanket to be utilized, and to specify the native plantings to be used. In addition, some stream banks are likely to be a-typical, like vertical banks, or very low banks, or eroding banks. Provide plans and details for how banks of a-typical conditions will be restored. [25 Pa. Code §§105.13(e)(1)(i)(G), 105.13(e)(1)(ix), 105.1, 105.13(e)(1)(x), 105.15(a)(1), 105.14(b)(4), 105.16(d)]	Streams will be restored in accordance with the E&S Plan provided in Attachment 12. The E&S Plan provides the narratives, revised standard typical details, and at several locations site-specific plans for stream restoration. Also the BMPs for restoring streams are discussed within the Impact Avoidance, Minimization, and Mitigation Procedures found in Attachment 11, Enclosure E, Part 4 and are consistent with the E&S Plan. These plans provide details on the erosion control blanket and plantings. Atypical bank situations will be addressed in the field on a site specific basis, and will have the goal of restoring the banks as closely as possible to their preconstruction condition or a more stable angle of repose.
HU 108.	Provide plans or a detail for the restoration of stream beds at open cut stream crossings. This should include replacement of native stream bed material and assurance that no significant changes in bed grade occur. [25 Pa. Code §§105.13(e)(1)(i)(G), 105.13(e)(1)(ix), 105.1,	Native stream bed material will be separated from other spoil for reinstallation after restoration (see the E&S Plan provided in Attachment 12). An evaluation was done for sheer stress of flow against restored native material. If the evaluation indicated that the stream will not be stable with native material, then rip rap will be used. In these cases, native stone will be used for the top six inches of

	105.13(e)(1)(x), 105.15(a)(1), 105.14(b)(4),	rip rap. Also, the BMPs for stream bed restoration are
	105.16(d)]	discussed within the Impact Avoidance, Minimization,
		and Mitigation Procedures found in Attachment 11,
		Enclosure E, Part 4 and are consistent with the E&S
		Plan.
HU 109.	Provide site specific cross sections for the	Additional cross sections are located in Attachment 7, Tab
	streams and wetlands which depict the existing	7G for intermittent and perennial stream crossings that do
	and proposed conditions of the streams and	not have site-specific (Attachment 12), HDD (Attachment
	wetlands, proposed pipes and depths, the	7, Tab 7B), or bore (Attachment 7, Tab 7C) drawings
	existing stream bed and banks dimensions. [25	prepared which contain profile information. All existing
	Pa. Code §§105.13(e)(1)(i)(G), 105.14(b)(4),	bank and wetland dimensions are provided within the
	105.301(3), 105.301(4), 105.301(5)]	aquatic resource tables provided in Attachment 11.
		Typical cross-sectional details provided within the E&S
		Plan Sheets accommodate the lesser and more minor
		stream crossings (e.g., those designated ephemeral). All
		bed and bank and wetland contours are to be restored to
		the existing condition in accordance with the Impact
		Avoidance, Minimization, and Mitigation Procedures
		provided in Attachment 11, Enclosure E, Part 4.
HU 110.	The Mitigation Plan states that the excavated	The bank restoration details have been revised to indicate
	stream banks will be reseeded; however the	that stream banks will be reseeded in accordance with the
	E&S detail for bank restoration does not	approved seed mixes.
	indicate this. Revise the Bank Restoration	
	Detail to be consistent and include the native	
	seeding mixture to be utilized. [25 Pa. Code	
	§§105.13(e)(1)(ix), 105.14(b)(4), 105.21(a)(1)]	
HU 111.	Multiple streams which begin within the	As described within the enclosures of the Comprehensive
	proposed ROW or immediately adjacent to it	Environmental Evaluation provided in Attachment 11,
	are proposed to be crossed by the proposed	impacts to water resources, including S-L51, S-Y21, S-
	pipelines. Revise the application to discuss and	Y7, S-Y9, S-Y12, S-M48, S-BB104, S-KP3, S-L48, S-
	provide plans outlining how source(s) of the	M28, S-BB97, S-L34, S-M11, S-L21, S-L16, and S-K89
	streams will be protected and maintained.	have been minimized to the maximum extent practicable.

	Revise the Environmental Assessment and	Where planned, the crossing and restoration of all Project
	Mitigation Plan to discuss the impacts to the	streams will use temporary equipment bridge installation
	streams both within the ROW and the	and dry crossing trenching methods as outlined and
	downstream affects to the resources and	described within the E&S Plan provided in Attachment 12
	properties. Provide compensatory mitigation for	and the Impact Avoidance, Minimization, and Mitigation
	streams in which flow will be adversely	Procedures provide in Attachment 11, Enclosure E, Part 4.
	affected. Provide this information for the	These methods are designed in accordance with the DEP
	following streams, at a minimum: S-L51, S-	E&S Manual to maintain flow, protect sources, and
	Y21, S-Y7, S-Y9, S-Y12, S-M48, S-BB104, S-	minimize direct and secondary impacts to on-site and
	KP3, S-L48, S-M28, S-BB97, S-L34, S-M11,	offsite resources. Similarly, adjacent resources are
	S-L21, S-L16, and S-K89. [25 Pa. Code	protected from secondary impacts through
	§§105.13(e)(1)(ix), 105.13(e)(1)(x),	implementation of the E&S Plan in areas outside of
	105.14(b)(4), 105.14(b)(12), 105.14(b)(3),	aquatic resources. The Comprehensive Environmental
	105.15(a)(1), 105.16(d)]	Evaluation demonstrates that when implementing these
		methods along with site restoration, impacts to water
		resources are temporary and minor.
HU 112.	The application contains HDD Inadvertent	The contingency plan has been revised and re-titled to be
	Return Contingency Plans in multiple sections	Inadvertent Return Assessment, Preparedness, Prevention
	of the application, such as the Mitigation Plan	and Contingency Plan (IR Plan). This revised IR Plan is
	and different species conservation plans.	located in Attachment 12, Tab 12C. Note that the older
	However, the Contingency Plans are not all	version of this plan is still contained within the
	consistent in terms of agency notifications, and	application in connection with the documentation of early
	the PAFBC Law Enforcement is not identified	agency coordination efforts. The PAFBC, PGC, DCNR,
	as being notified as required in the PAFBC	and USFWS have been sent the revised IR Plan and
	PNDI clearance letter. Also, the HDD table is	copies of this correspondence is provided in Attachment
	not included in all versions of the Contingency	6, Tab 6B.
	Plan. Revise the HDD Inadvertent Return	
	Contingency Plans to all be consistent,	
	including the appropriate jurisdictional	
	agencies, and provide documentation that	
	revised plans have been sent to all jurisdictional	

	agencies. [25 Pa. Code §§105.21(a)(1),	
	105.13(e)(1)(ix), 105.14(b)(4)]	
HU 112.a.	Provide information/details on previous HDD activities on the prior Mariner East pipeline project where IRs occurred. At a minimum this should include, a topographic map with locations and latitude/longitude of each occurrence, description of event, amount of discharge, whether the discharge entered waterways and/or wetlands, mitigation/clean-up measures taken, etc.	An HDD Risk Assessment is included as part of the revised IR Plan provided in Attachment 12C. The assessment discusses previous inadvertent returns (IR) and provides the data and analysis requested.
HU 112.b.	A stand-alone attachment should be created to address the pre-boring geologic evaluation of the existence and potential to impact local drinking water supplies or aquifers around the boring location. The plan needs to include what measures will be employed to verify that no supplies or aquifer are impacted (i.e. pre and post water quality and quantity analysis). The plan should specify what notifications and remediation measures will be employed if there are impacts.	The Water Supply Plan provides for the assessment of the existing public and private water supplies in or along the Project, as well as idenitifies prevention and preparedness measures to be implemented to protect those supplies. The IR Plan outlines the preconstruction activities implemented to ensure sound geological features are included in the drill profile, the measures to prevent impact, and the preparedness plan if an impact were to occur. These plans are provided in Attachment 12.
HU 113.	Agency notification should occur when inadvertent returns happen in any water resource, not just bog turtle areas. Correct the HDD Inadvertent Return Contingency Plan to reflect proper notifications. [25 Pa. Code §§105.14(b)(4)]	The original IR plan included agency notification if a return occurred within a water resource, not just bog turtle wetlands. Based on other DEP comments, the IR Plan has been revised and provided in Attachment 12, Tab 12C.
HU 114.	The following wetlands are identified in the application as Exceptional Value (EV) due to Wild Trout: W332, W333, K63, K65, K66, K67, K68, L7, L8, and L9. However, the	These wetlands are associated with George Creek, which were previously considered a wild trout stream by PAFBC until they were all removed in spring/summer 2016. These wetlands have been revised so that their prior

	department was unable to determine wild trout status for the adjacent streams or tributaries thereto. Clarify and revise the application accordingly. [25 Pa Code §105.13(e)(1)(x)(B) & §105.17(1)(iii) & §105.21(a)(1)]	Exceptional Value status has been removed from the application materials.
HU 115.	Revise the application to clarify if the exceptional value wetland analysis included all factors listed in 25 Pa Code §105.17(1). If the analysis did not consider all factors, revise it to analyze all factors and update the application. [25 Pa. Code §§105.13(e)(1)(x)(B), 105.17(1)]	The Exceptional Value Wetland analysis is now detailed in Attachment 11, Enclosure E, Part 2 and specifically indicates that the Exceptional Value Wetland analysis included all factors listed in 25 Pa. Code § 105.17(1), including a thorough and detailed analysis of public and private water supply well proximity to the Project; proximity, presence and habitat potential for protected species (dependent on wetland habitats); proximity of wetlands to naturally reproducing trout waters; proximity of wetlands to sections of streams designated "wild" and/or "scenic"; proximity of wetlands to streams designated as "Exceptional Value" in Chapter 93; and proximity of wetlands located in areas designated by DEP as "natural" and/or "wild" within Lands owned by the Commonwealth.
HU 116.	Revise impact Table 3 and the impact plans to correctly identify whether streams are wild trout or not. As presently proposed, no wild trout streams are proposed to be impacted by the project. [25 Pa. Code §§105.21(a)(1), 105.15(a)]	The revised Table 3 in Attachment 11 and aerial site plans in Attachment 7, Tab7A indicate which streams are tributaries to streams where PAFBC has determined there is a naturally reproducing trout population, based on DEP guidance, PAFBC shapefiles, webpages, and communications. No wild trout waters are proposed to be impacted by the Project.
HU 117.	The Mitigation Plan states that for HDD crossings, a telemetry guidance system will be used.	NA – Heading

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HU 118.	The impacts described under Section 5.0 of the	This document has been adjusted to avoid inconsistencies,
	Mitigation Plan are inconsistent with the	and the impacts are now represented in Attachment 11,
	impacts provided in the impact tables in the	Enclosure D – Project Impacts, Enclosure E, Part 2 –
	Environmental Assessment. Revise this	Project-wide Resource Identification and Project Impacts,
	inconsistency to state the correct impact totals	and also, the Compensatory Mitigation Plan in Enclosure
	throughout the application. [25 Pa. Code	F.
	§§105.15(a), 105.21(a)(1), 105.13(e)(1)(i)(ix)]	
HU 119.	Provide information about the pump size, flow	The contractor has available one of four crossing methods
	rate, and duration of use for those open cut	to facilitate the crossing within the allowable time frames
	crossings (dry crossings) that will use the	and the conditions of maintaining a dry crossing while
	typical bypass pump-around method. Provide	maintaining stream flow. The durations of the stream
	justification for why larger streams do not	crossings are indicated within the E&S Plan notes and
	utilize the proposed flume option. How will	details and within the Impact Avoidance, Minimization,
	aquatic life be able to pass throughout the	and Mitigation Procedures provided in Attachment 11,
	stream safely? [25 Pa. Code § 105.401(4),	Enclosure E, Part 4. With implementation of the duration
	105.13(g)]	restrictions and BMP crossing methods the impacts will
		be minor and temporary as described in Attachment 11,
		Enclosure D and Attachment 11, Enclosure E, Part 2.
HU 120.	The application states that the period of	For the open cut crossings of larger waters, the E&S Plan
	instream work to install the proposed	notes and details provided in Attachment 12 and Impact
	pipeline(s) will be less than 24 hours in minor	Avoidance, Minimization, and Mitigation Procedures
	waterbodies and 48 hours for crossing of	(Attachment 11, Enclosure E, Part 4) have been revised to
	"intermediate" (10-30' across) waterbodies.	indicate that in-stream work to occur in minor water
	Describe how these timeframes coincide with	bodies (>10 feet wide) within 24 hours, and in major
	the hydrostatic testing procedures outlined in	water bodies (10 to 100 feet wide) within 48 hours.
	the project description. Do the trenches remain	Open-cut streams and wetlands are tested along with the
	open during testing? To facilitate the further	mainline testing and testing would be when the mainline
	understanding of your project, revise your	is ready. Stream and wetland crossings are backfilled
	application to discuss the estimated time	prior to testing.
	installation will take in crossings of wetlands	
	and larger watercourses. [25 Pa. Code §	
	105.13(e)(1)(iii)]	

HU 121.	Provide an assessment of the functions and	Detailed functions and values assessments have been
	values of any additional Exceptional Value	included for all Exceptional Value wetlands regardless of
	wetlands and wetland with impacts over 1 acre.	acreage at Attachement 11, Enclosure C.
	[25 Pa. Code §§105.13(e)(3), 105.15(a)]	-
HU 122.	Enclosure C of the Environmental Assessment	Attachment 11, Enclosure C has been revised to clarify
	discusses the various sections in terms relative	that there are Project areas that do not completely overlap
	to the existing pipeline ROW; however, the	the existing ROW. The Application, including
	proposed ROW does not fully overlap the	Attachment 11, Enclosure E, Part 2 discusses all
	existing ROW but abuts/parallels the existing	temporary and permanent impacts upon resources as a
	ROW. Revise Enclosure C to discuss the	result of the entire Project, including resources inside and
	functions, habitat, and other factors in	outside the ROW.
	Enclosure C outside of the existing ROW and in	
	areas of proposed impact and the overall	
	resources. [25 Pa. Code §§105.13(e)(1)(x),	
	105.15(a), 105.14(b)(4)]	
HU 123.	Public water supplies are located within in the	Water supply impacts have been analyzed and addressed
	vicinity of the proposed pipeline. The	within three supplemental plans to the PPC Plan, the
	application states that there will not be any	Water Supply Plan, the IR Plan, and the Void Mitigation
	impacts the water supplies as a result of the	Plan for Karst Terrain and Underground Mining. These
	pipeline. Provide the supporting documentation	plans address the elements of this comment, and are
	that led to this conclusion. Locate the public	provided in Attachment 12.
	drinking water supplies in the vicinity of the	
	proposed pipeline. Additionally, we	
	recommend that you contact any public water	
	supplier in order to help determine if your	
	project will impact the public water supplier	
	and subsequently provide documentation of	
	interactions, through correspondence, with each	
	supplier. Ensure all Public water supplies in the	
	vicinity of the proposed pipeline are identified	
	within the location map. Enclosed are	
	instructions on how to utilize DEP's eMapPA	

HU 123.a.	to identify public water supplies in the vicinity of your project. [25 Pa. Code §§105.13(e)(1)(ii) & 105.13(e)(1)(x) & 105.14(b)(5)] Upon identification of public drinking water	The responses to questions 14, 15, and 16 of the General
	supplies, revise questions 14.0, 15.0, and 16.0 of the General Information Form accordingly. [General Information Form Instructions]	Information Form in Attachment 1 have been revised to address this comment.
HU 123.b.	Upon identification of public drinking water supplies, revise the Environmental Assessment Form and associated enclosures accordingly to discuss the resources and impacts from water obstructions and encroachments on the public water supplies. [25 Pa. Code §§105.15(a), Environmental Assessment Form Instructions]	Attachment 12, Tab 12B provided a new Water Supply Assessment, Preparedness, Prevention and Contingency Plan, which discusses the potentially affected resources and impacts from water obstructions and encroachments on public water supplies.
HU 123.c.	Upon identification of public drinking water supplies, revise the Alternatives Analysis and Mitigation Plan accordingly to avoid and minimize impacts to public water supplies and provide a detailed discussion on alternative routes, designs and methods documenting that there is no practicable alternative to further avoid and minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.13(e)(1)(ix), 105.14(b)(5)]	The Alternatives Analysis in Attachment 11, Enclosure E, and the Impact, Avoidance, and Minimization, Mitigation Procedures in Attachment 11, Enclosure E, Part 4 have been revised to provide a detailed discussion of alternative routes, designs and methods and to demonstrate that there is no practicable alternative to further avoid and minimize impacts.
HU 124.	The application does not identify if the resources proposed to be affected are part of or located along a private water supply, including surface and groundwater sources. Revise the application and the Environmental Assessment to identify if any of the proposed resources are part of or located along a private water supply.	Water supply impacts have been analyzed and addressed within three supplemental plans to the Preparedness, Prevention, and Contingency Plan (PPC Plan): the Water Supply Plan, the IR Plan, and the Void Mitigation Plan for Karst Terrain and Underground Mining. These supplemental plans are provided in Attachment 12.

	[25 Pa. Code §§105.15(a), Environmental	
	Assessment Form Instructions]	
HU 124.a.	If private water supplies are identified, revise Enclosures C and D of the Environmental	Water supply impacts have been analyzed and addressed within three supplemental plans to the PPC Plan: the
	Assessment to identify them and discuss the	Water Supply Plan, the IR Plan, and the Void Mitigation
	impacts on them from the proposed water	Plan for Karst Terrain and Underground Mining. These
	obstructions and encroachments.	supplemental plans are provided in Attachment 12.
HU 124.b.	Provide procedures that will be followed to	Attachment 12, Tab 12B includes a Water Supply
	investigate and resolve impacts to private water	Assessment, Prevention, Preparedness, and Contingency
	supplies should they occur as a result of the	Plan that addresses potential impacts and describes the
	proposed activities. These procedures should	procedures to prevent and prepare for resolution of water
	discuss, at a minimum, how private water	supply impacts should they occur, including notification
	supply owners will be alerted in the event of an	procedures.
	inadvertent return and how impacts will be	
	resolved and/or mitigation.	
HU 125.	Section F, Attachment 11, EA Form, Page 2,	Water supply impacts have been analyzed and addressed
	item 7 states, "Is the water resource part of or	within three supplemental plans to the PPC Plan, the
	located along a private or public water supply?"	Water Supply Plan, the IR Plan, and the Void Mitigation
	The Applicant checked "No". However, no	Plan for Karst Terrain and Underground Mining. These
	documentation validating this statement is	plans are provided in Attachment 12 and the EAF revised
	provided in the application. The Department is	accordingly. These plans provide instructions and
	concerned that private and perhaps public water	procedures to facilitate the avoidance and minimization of
	supply wells are located along crossed stream	impacts and provides the framework to investigate and
	and wetland water resources and/or along the	resolve impacts caused by spills, releases, and other
	length of the HDD operations. The applicant	pollution events should they occur. Applicable public
	needs to propose measures to protect all water	private downstream user information is compiled within
	uses, both surface intakes and groundwater	the Water Supply plan and identification, notification, and
	sources, located along and/or downstream of	testing procedure for private wells discussed.
	the proposed work areas. Special attention	
	needs to be applied to the potential unplanned	
	impacts that HDD and inadvertent releases (IR)	
	may have on groundwater sources. In addition,	

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	where a structure or activity is in a wetland, the applicant must demonstrate that this project will not cause or contribute to the pollution of	
	groundwater or surface water resources or diminution of resources sufficient to interfere	
	with their uses, including use as a public or	
	private water supply. Your assessment needs to	
	include identification, notification and	
	consultations with water suppliers and/or well	
	owners. A notification contact list needs to be included in your PPC Plan and Inadvertent	
	Release Plan. [25 Pa Code §105.13;	
	\\$105.14(b)(4); \\$105.14(b)(5); \\$105.18a(5);	
	\$105.18a(b)(5); \$91.33(b)].	
HU 126.	Revise Enclosures C & D to discuss the	Enclosure C of the Environmental Assessment has been
	watercourses and wetlands proposed to be	revised to provide more detailed discussion of the existing
	impacted and the impacts on them, and not	aquatic resources and wetland functions and values within
	discuss the impacts in general terms of the	the proposed ROW. Enclosure D of the Environmental
	overall project or general type of impacts. [25 Pa. Code §§105.13(e)(1)(x), §105.15(a)]	Assessment and Attachment 11, Enclosure E, Part 2 have been revised to provide more detailed discussion of the
	ra. Code 98103.13(e)(1)(x), 8103.13(a)]	impacts to existing aquatic resources and wetland
		functions and values within the proposed ROW.
HU 127.	The application states that topsoil will be	Topsoil depth varies considerably from site to site and
	segregated. Provide a revised Enclosure D of	within the site. Accordingly, topsoil depth will be
	the Environmental Assessment that explains	determined in the field by experienced construction
	how the topsoil depth will be determined in the	contractors by and/or the EI through visual observation.
	field. [25 Pa. Code §§105.15(a), 105.15(b), and	
HII 128	Environmental Assessment Instructions] Pavise section D.1 of Enclosure C of the	Enclosure C has been revised to accurately identify that
110 120.		
	1	y
	State Game Lands 73/118 and 420, but not 198.	is adjacent to 118 in Huntingdon County, but outside the
HU 128.	Revise section D.1 of Enclosure C of the Environmental Assessment to accurately identify that the proposed project will cross	Enclosure C has been revised to accurately identify that the Project will cross State Game Lands 71 and 118 in Huntingdon County, but not State Game Land 73 (which is adjacent to 118 in Huntingdon County, but outside the

	[25 Pa. Code §§105.15(a), 105.21(a)(1),	Project area). The Project crosses State Gamelands 198 in
	105.13(e)(1)(x), 105.14(b)(5)	Cambria and Blair Counties, but not Huntingdon County.
	, , , , , , , , , , , , , , , , , , ,	Regarding State Gamelands 420, it is SPLP's
		understanding that the mapped portion of the State Game
		Lands 420 that the Project traverses, coincides with land
		that is Federally-owned and administered by the U.S.
		Army Corps of Engineers as part of the Raystown Lake
		Recreational Area property. Therefore, SPLP
		acknowledges this area as Federal lands instead of State
		lands, and is seeking the appropriate legal easements from
		the U.S. Army Corps of Engineers for this area. SPLP has
		worked with PA Game Commission for the review and
		issuance of all required license agreements for the Project
		where it crosses State Game Lands, and PA Game
		Commission has not indicated that SPLP is required to
		seek a license agreement for crossing State Game Lands
		420. Therefore, SPLP believes this area is under the
		purview of the USACE/Raystown Lake property.
HU 129.	Revise Section B.1 of Enclosure C of the	Reference to Clover Creek has been removed from
	Environmental Assessment to remove reference	Enclosure C (as it is crossed in Blair County, not
	to Clover Creek which is not proposed to be	Huntingdon County).
	impacted and/or is not in Huntingdon County.	
	[25 Pa. Code §§105.15(a), 105.21(a)(1)]	
HU 130.	Revise Enclosure C of the Environmental	Reference to wild trout streams have been removed from
	Assessment to remove reference to wild trout	Enclosure C.
	streams since no wild trout streams are	
	proposed to be impacted in Huntingdon County.	
	[25 Pa Code §§105.15(a), 105.21(a)(1)]	
HU 131.	Revise Section D of Enclosure C of the	Enclosure C (Section D.6) has been updated to list the
	Environmental Assessment to identify the	different types of recreational activities available at
	recreation in the Raystown Lake National	Raystown Lake Recreational Area.

	Recreation area. [25 Pa. Code §§105.15(a),	
TTT 100	105.21(a)(1), 105.13(e)(1)(x), 105.14(b)(5)]	
HU 132.	Update and revise section A.3 of Enclosure D	Attachment 11, Enclosure D and Attachment 11,
	of the Environmental Assessment to discuss any	Enclosure E, Part 2 have been updated with avoidance and
	avoidance and minimization measures relative	minimization measures relative to PHMC consultations to
	to clearance for the Pennsylvania Historical and	date.
	Museum Commission. [25 Pa. Code	
	\$105.13(e)(1)(x), 105.15(a), 105.14(b)(5),	
	Environmental Assessment Form Instructions]	
HU 133.	Revise Enclosure D of the Environmental	Attachment 11, Enclosure D has been updated to discuss
	Assessment to discuss the impacts on the Game	the Project's impacts on State Game Lands and Raystown
	Lands and the Raystown Lake National	Lake Recreational Area. With respect to the request to
	Recreation Area crossed in Huntingdon County	provide supporting documentation/coordination materials,
	by the Water Obstructions and Encroachments,	SPLP notes it has been coordinating with the
	and provide documentation of coordination and	Pennsylvania Game Commission (PGC) and U.S. Army
	approval from the Pennsylvania Game	Corps of Engineers (USACE) for more than a year, and
	Commission and the U.S. Army Corps of	has submitted various and voluminous documentation to
	Engineers. As necessary, provide any	these agencies and has held regular meetings with these
	supporting documentation and/or coordination	agencies pursuant to license agreements/easements across
	materials for the approval from the Game	these lands. This documentation includes Application for
	Commission and the Army Corps of Engineers.	Right-of-Way License documents (for PGC) and a Draft
	[25 Pa. Code §§105.13(e)(1)(x), 105.15(a),	Environmental Assessment pursuant to the National
	105.14(b)(5)]	Environmental Policy Act (for the USACE). Easements
		for these properties are anticipated to be issued in
		December 2016/January 2017. Due to the voluminous
		nature of documentation SPLP has generated and
		submitted to these agencies, SPLP has not provided
		copies in the context of this Chapter 105 application
		because it is not specifically required. If DEP requests or
		requires supporting documentation, SPLP invites DEP to
		provide more direction on specifically what
		documentation it requests.

HU 134.	Section A.3 of Enclosure D of the	Section 11 of the EAF, Enclosure D has been revised to
	Environmental Assessment identifies the	address this comment.
	Allegheny Portage Railroad of the Pennsylvania	
	Canal in Cumberland County, when it is located	
	in Blair County. Revise this section to be	
	accurate. [25 Pa. Code §§105.13(e)(1)(x),	
	105.21(a)(1), 105.15(a), 105.14(b)(5)]	
HU 135.	Revise section B.4 d. of Enclosure D of the	Enclosures C and D have been revised to address specific
	Environmental Assessment to discuss specific	hiking trails crossed by the Project, whether they are
	hiking trails which will be temporarily closed	associated with aquatic
	and identify their locations within the project	resources/obstructions/encroachments, and impacts
	boundary. If hiking trails within the project	including impact avoidance/minimization measures
	boundary are associated with proposed water	during construction.
	obstructions or encroachments, provide a	
	discussion on the impact to the trail, the length	
	of time it is proposed to be closed, plans for	
	signage and detours, and correspondence from	
	any agencies or trail organizations regarding	
	coordination of the closure. [25 Pa. Code	
	§§105.13(e)(1)(x), 105.21(a)(1), 105.15(a),	
	105.14(b)(5)]	
HU 136.	Revise section A.9 of Enclosure D of the	Impacts of the Project, which includes an evaluation of
	Environmental Assessment to discuss and	water resource impacts, on these designations are
	identify impacts to preserved farms and/or	provided in Attachment 11, Enclosure D, A.11 and
	farms with agriculture preservation easements	Enclosure E, Part 2.
	or restrictions. Discuss how the minimization	
	measures would affect preserved farms and how	
	they will be affected, such as not being able to	
	replant an orchard or vineyard. [25 Pa. Code	
	§§105.13(e)(1)(x), 105.15(a), 105.14(b)(5),	
	105.14(b)(4), Environmental Assessment Form	
	Instructions]	

HU 137.	Enclosure C of the Environmental Assessment mentions that the project crosses the Tussey Mountain Important Bird Area (IBA), but Enclosure D does not discuss the impacts that water obstructions or encroachments may have on this area. Revise Enclosure D of the environmental assessment to discuss the impacts the proposed water obstructions and encroachments will have on this area. In addition, identify if/how the recommendations in the USFWS letter dated June 24, 2016, are being addressed. [25 Pa Code §§105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(5), 105.15(a)]	Enclosure D of Attachment 11 has been revised to address this comment. In addition, to address the June 24 recommendations a Migratory Bird Conservation Plan was submitted to the USFWS in correspondence dated July 15, 2016. That correspondence and plan are included in Attachment 6, Tab 6B.
HU 138.	Revise Section B.1.c. of Enclosure D of the Environmental Assessment to discuss, any avoidance and minimization measures, and committing to implementing them. It currently states that clearances are being worked on. [25 Pa. Code §§105.15(a), 105.14(b)(4), 105.21(a)(1)]	Enclosure D of Attachment 11 has been revised to address the comment and discuss the commitments implementing the avoidance and minimization measures. All clearances and conservation plans for threatened and endangered species on the Project have been received from the regulating agencies. The final avoidance and minimization commitments are detailed in the Project Description as well as within the PNDI documents presented in Attachment 6.
HU 139.	Enclosure C of the Environmental Assessment identifies Biological Diversity Areas and Landscape Conservation Areas within the project area; however, Enclosure D does not discuss potential impacts to these areas. Revise Enclosure D to discuss potential impacts to these areas from the proposed water obstructions and encroachments. [25 Pa. Code §§105.15(a), 105.14(b)(4)]	Enclosure D of Attachment 11 has been updated to discuss the Project's potential impacts on Biological Diversity Areas and Landscape Conservation Areas.

HU 140.	Revise Enclosure D of the Environmental	The Alternatives Analysis provided in Attachment 11,
	Assessment to explain, on an individual	Enclosure E, Part 3 demonstrates SPLP's efforts to avoid
	crossing and cumulative basis, why open cut	and minimize impact to all wetland to the maximum
	pipe installation combined with permanent	extent practicable. The county-specific Project impacts
	ROW maintenance will not result in an adverse	provided in Attachment 11, Enclosure D and the Project-
	impact to exceptional value wetlands or a	wide impacts provided in Attachment 11, Enclosure E,
	significant adverse impact to other wetlands.	Part 2 demonstrate that the impacts to aquatic resources
	The analysis should include a discussion of	will be minor and temporary. The Project's E&S Plan
	potential temporary or permanent impacts to	provided in Attachment 12 and Impact Avoidance,
	hydrology as a result of the open cut, as well as	Minimization, and Mitigation Procedures provided in
	a loss of woody species in forested/scrub shrub	Attachment 11, Enclosure E, Part 4, and Compensatory
	areas. Provide a plan to minimize the risk of	Mitigation Plan provided in Attachment 11, Enclosure F
	permanent impacts to wetland hydrology for	provide the plans and BMPs that minimize the risk of
	each wetland where an impact may occur. [25	permanent impacts to wetland hydrology and ensure the
	PA Code §§105.13(e)(1)(ix) & 105.18a]05.18a]	impacts are minor and temporary in regards to
		construction and operations and maintenance of the
		permanent ROW. Attachment 11, Enclosure E, Part 6
		also provides a Cumulative Impacts Assessment.
HU 141.	Revise the description of wetland functions and	All functions and values have been evaluated for all
	values to not only include the principle	wetlands. The Principal Functions and Values are
	functions and values, but all the functions and	identified on the Wetland Function-Value Evaluation for
	values the wetlands provide. [25 Pa. Code	Exceptional Value wetlands. In many cases, all functions
	§§105.13(e)(2), 105.14(b)(13), 105.15(a)]	and values may be Primary; however, secondary functions
		and values are also identified for each wetland.
HU 142.	Based on the information in the application, it is	Functions and values have been evaluated consistently
	apparent that wetland functions and values are	throughout all wetlands within the Project area and all
	present in multiple wetlands which have not	applicable functions and values at each wetland have been
	been identified in the functions and values	identified. An updated function and values assessment is
	assessments and descriptions table (ex. wildlife	included in Attachment 11, Enclosure C.
	habitat, groundwater discharge/recharge, flood	
	flow alteration, and nutrient removal). Based on	
	the information provided, the functions and	

	values have been applied inconsistently across the wetlands. Re-evaluate and revise the functions and values assessments and descriptions for all wetlands. [25 Pa. Code §§105.13(e)(2), 105.13(e)(3), 105.14(b)(13), 105.15(a), 105.18a(a)(1), 105.18a(b)(1), 105.14(b)(4)]	
HU 143.	Two different wetland function and evaluation forms have been provided for wetland L8 Revise and clarify the application to be accurate and consistent. [25 Pa. Code §§105.13(e)(3), 105.15(a), 105.21(a)(1)]	A single correct functions and values data form for wetland L8 has been provided in Attachment 11, Enclosure C.
HU 144.	Wetlands are located in mapped soils with shallow bedrock and restrictive soil layers (i.e. fragipans), and the application's data sheets and functions and values assessment identifies shallow rock layers, shallow bedrock, and/or restrictive soil layers are present. Also, based on the functions and values descriptions wetlands may contain groundwater discharges, such as springs or may be concave and not connected to groundwater.	Impacts to wetland hydrology associated with open-cut construction vary depending on the wetlands primary source of hydrology, the wetlands position relative to the water table, and the underlying geology/soils (i.e., confining layer and/or fragipans to maintain hydrology). A restrictive layer is a layer in the soil/substratum profile that could slow or prevent the infiltration of water, potentially resulting in a perched water table. Restrictive layers could include, but are not limited to, consolidated bedrock, fragipans, dense glacial till, layers of silt or substantial clay content, strongly contrasting soil textures (e.g., silt over sand), or cemented layers, such as ortstein. In order to minimize impacts to wetlands that depend on a restrictive layer for hydrology, SPLP has conducted a thorough review the mapped soil units in combination with field data to determine if the soil unit has the potential to support fragipan wetlands and if the field data indicated that there was a refusal when characterizing the soils. Refusal is the depth at which a layer inhibiting the ability to dig deeper was reached. Refusal is not always

indicative of a hydrologically restrictive layer (e.g., high gravel/cobble content, dense tree roots), but could be indicative of a shallow restrictive layer. A refusal layer may still be permeable; whereas, a restrictive layer is impermeable by definition.

In wetlands where a confining layer or fragipan has been identified based on SPLP's assessment, or is encountered during the excavation of the trench, SPLP will have Professional Geologist (PG) work with the construction EIs. Specifically, the PG will field review all wetlands areas before and during trenching. During trenching, the PG will advise on the need to segregate confining layers for proper restoration of subsurface conditions following trenched construction. At wetlands determined to require confining layer restoration, the PG will also be on-site during subsurface soil backfilling to ensure proper soil layer restoration. The PG may advise on bentonite sandbag layering along the entire or portions of the trench line at the appropriate height if an identified confining layer cannot be segregated and/or restored. The PG will also provide technical expertise and oversight when karst/openings or groundwater seeps are encountered during trenching activities, and also when the presence of groundwater seeps and drains are encountered within wetland areas. Please see Attachment 11, Enclosure E, Part 2 for the discussion on impacts to hydrology, as well as the Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4 for details on confining layer identification and the SPLP's inspection program, including the provision of a PG.

HU 144.a.	For each wetland to be impacted, identify the locations of restrictive layers which contribute to and/or maintain the wetlands' hydrology. [25 Pa. Code §§105.15(a), 105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(13), 105.18a(a), 105.18a(b)]	An evaluation of soils where fragipan soils are located was completed and wetland data was evaluated for wetlands in those areas to identify site specific information to determine if a fragipan was present. Additionally, site specific soil information from wetland data forms for other wetlands within the Project area was reviewed to identify wetlands that had a restrictive layer. That evaluation has been included as part of the Functions and Values table and is located in Attachment 11, Enclosure C.
HU 144.b.	Identify and provide a discussion on any potential permanent impacts to wetland hydrology from excavation or alteration from construction of the proposed project. Provide a plan, plan sheets, cross sections, and other details which demonstrate that impacts to the wetlands' hydrology from alteration of restrictive layers have been avoided and minimized. [25 Pa. Code §§105.15(a), 105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(13), 105.18a(a), 105.18a(b)]	See response to comment 144.
HU 144.c.	Wetlands W-Y13, W-L17, and W-L16 contain/may contain open water/seasonal inundation, based in the information provided in the application. Provide site specific information on the hydrology and soils and data on why the wetlands maintain open water/seasonal inundation and provide site specific construction plans, cross sections, and restoration details to ensure that the hydrology and functions and values of the wetland is not altered and it continues to maintain inundation	The exact reason why these wetlands maintain open water/seasonal inundation is not confirmed; however, these wetlands appear to be limited to existing field road and existing ROW areas. The construction and restoration methods are the same methods commonly used and standard for the industry, and are described in the Impact Minimization, Avoidance, and Mitigation Procedures (Attachment 11, Enclosure E, Part 4). These standards include adhering to DEP's General Permit 5 - Utility Line Stream Crossings and the USACE's Pennsylvania State Programmatic General Permit – 5

	and seasonal hydrology. [25 Pa. Code §§105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(13), 105.15(a), 105.18a(a)(1), 105.18a(a)(3), 105.18a(a)(4), 105.301(4), 105.301(5)]	requirement that original grades, hydrology, and wetland vegetation must be restored after trenching and backfilling of wetlands, and that any excess fill material must be removed. These performance standards will be adhered to for this Project. These standard stream utility installation crossing methods have been documented to result in successful restoration of cross sections and profiles. Refer to the Project's Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4 for an outline of the BMPs to be implemented and designed to restore wetland hydrology. This includes an environmental inspection program involving a Professional Geologist experienced in hydrogeology as being part of the environmental inspection team on each spread.
HU 145.	Revise the Environmental Assessment to discuss the impacts to each wetland where a vegetative class change is proposed (ex. PFO to PSS). The discussion should be specific to the wetland and its functions and values. [25 Pa. Code §§105.14(b)(4), 105.14(b)(13), 105.14(b)(11), §105.15(a), 105.18a(b), 105.18a(a)]	All impacts to PSS classifications, Project-wide, will be replanted or allowed to revert to PSS wetlands; therefore there will be no conversion of PSS to PEM. In Huntingdon County two wetlands will have 0.046 acre of unavoidable permanent PFO to PEM conversion. The Environmental Assessment has been revised to discuss the impacts to each wetland where a vegetative class change is proposed; the discussion is specific to the wetland, its functions and values, and acreage affected.
HU 146.	The HDD Inadvertent Return Contingency Plan includes profiles identifying Geotechnical profiles; however, no analysis has been provided on the risk of an inadvertent return occurring. Provide an analysis on the risk of an inadvertent return occurring for proposed HDD crossings of Exceptional Value and High Quality Streams, Class A Wild Trout waters,	The revised IR Plan provided in Attachment12, Tab 12C includes an IR risk assessment for each of the HDDs.

	streams and wetlands which are inhabited by	
	threatened or endangered species, streams and	
	wetlands where inadvertent returns have	
	previously occurred, crossings of streams and	
	wetlands adjacent to or located along public	
	water supplies, and streams with karst geology.	
	In addition, provide the analysis for Raystown	
	Lake due to its size. Include in-depth detail,	
	discussion, and data in the analysis of the risk	
	of a return occurring. [25 Pa. Code	
	§§105.14(b)(7), 105.18a(b)(3), 105.18a(b)(4),	
	105.18a(b)(5), 105.14(b)(4), 105.14(b)(11)]	
HU 147.	Revise Enclosures C&D to assess and discuss	Attachment 11, Enclosure D discusses primary and
	the condition of and impacts to forested and	secondary impacts to forested and scrub-shrub riparian
	scrub shrub riparian areas. Revise the	areas, and Enclosure D has been expanded to include an
	enclosures to discuss the primary impacts and	analysis of Chapter 105 antidegradation requirements
	secondary impacts, as well as consideration of	related to forested riparian buffer impacts along
	antidegradation on watercourses for each	watercourses crossed by the Project.
	watercourse crossing from the riparian	
	vegetation impacts. [25 Pa. Code §§105.15(a),	
	105.13(E)(1)(x), 105.14(b)(4), 105.14(b)(11),	
	105.14(b)(12), 105.14(b)(14)]	
HU 147.a.	In general, the Department recommends	Riparian areas have been evaluated for each from 100 feet
	evaluating the riparian areas from the top of	from each bank according to DEP's recommendation. The
	bank landward 100ft, and if the area utilized is	analysis discussing the effects of the Project on the
	less than 100ft justification should be given as	riparian areas is provided in Attachment 11, Enclosure E,
	to why. [25 Pa. Code §§105.15(a),	Part 2 (Project-wide Resource Identification and Project
	105.13(E)(1)(x), 105.14(b)(4), 105.14(b)(11),	Impacts)
	105.14(b)(12), 105.14(b)(14), Riparian Forest	
XXX 4.45.1	Buffer Guidance, Document # 394-5600-001]	
HU 147.b.	To avoid and minimize the impacts to the	Except at above ground facilities including valve and
	watercourses, provide a plan to replace the	pump stations, all previously vegetated temporary and

	vegetation lost in both permanent and temporary ROW and workspaces. Alternatively, where it cannot be replaced and provided protection from clearing during the proposed project's operation and maintenance, provide an explanation as to why it cannot be replaced. [25 Pa. Code §§105.15(a), 105.13(E)(1)(x), 105.14(b)(4), 105.14(b)(11), 105.14(b)(12), 105.14(b)(14), 105.1, 105.14(b)(7)]	permanent workspaces are restored to a vegetated state in accordance with the E&S Plan provided in Attachment 12. Also the BMPs for restoring and maintenance of these areas are discussed within the Impact Avoidance, Minimization, and Mitigation Procedures found in Attachment 11, Enclosure E, Part 4.
HU 147.c.	Revise the application plan drawings and project description to clearly and specifically state if vegetation clearing, cutting, removal, or other alteration is proposed as part of the proposed projects' construction, operation, and maintenance. Revise the plan drawings to clearly indicate all locations where maintenance clearing, cutting, removal, or other alternation is not part of proposed maintenance activities. [25 Pa. Code §§105.13(e)(1)(ix), 105.14(b)(4), 105.14(b)(12), 105.14(b)(13), 105.14(b)(14),	SPLP did not revise the plan drawings. Instead, SPLP revised both the Project Description located in Attachment 9 to define the terms used within the plan drawings such as "Permanent Access Road," "Permanent ROW," "Temporary ROW," and "Additional Temporary Workspace" and the aerial site plans located in Attachment 7, Tab 7A to more clearly depict these designated areas. The Impact Avoidance, Minimization, and Mitigation Procedures in Attachment 11, Enclosure E, Part 4 details the construction, operation, and maintenance procedures in these designated areas.
	105.11(d)]	As depicted on the aerial site plans, the DEP Chapter 105 jurisdictional areas defined as "Permanent Impact" are areas where the "Permanent ROW", "Permanent Access Road", "ROW-Travel and Clearing LOD", "Station-LOD", and "Block Valve Setting-LOD" intersect waters of the Commonwealth. These areas will receive both direct and indirect impacts resulting from the placement or construction of a water obstruction or encroachment and include areas necessary for the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water. These

"Permanent Impacts" areas are proposed for permanent vegetation clearing, cutting, grubbing, removal, and maintenance. However, wetlands will not be cut or mowed during general operation and maintenance.

As depicted on the aerial site plans, the DEP Chapter 105 jurisdictional areas defined as "Temporary Impacts" are areas where "Temporary ROW", Additional Temporary Workspace ("ATWS"), "ROW-Travel LOD", and "Temporary Access Road" intersect waters of the Commonwealth. These areas will receive both direct and indirect impacts resulting from the construction of a water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water that are restored upon completion of construction. These "Temporary Impacts" areas are proposed for temporary vegetation cutting, clearing, grubbing, and removal. These areas will be allowed to revert; no future maintenance or operations will occur.

The "Permanent Easement" depicted on the aerial site plans identifies the limits of SPLP's agreement with the affected landowner, and is an independent designation from proposed "Permanent Impacts" and "Temporary Impacts". In areas not identified as "Permanent Impacts" or "Temporary Impacts" within the "Permanent Easement", no permanent or temporary vegetation cutting, clearing, grubbing, removal, and/or maintenance is proposed. The "Permanent Easement" is depicted on the aerial site plans in response to previous DEP requests to show the limits of the permanent easement in areas where "Permanent Impacts" and "Temporary Impacts" are not

		proposed, and does not represent a DEP Chapter 105 jurisdictional area.
HU 148.	To aid in evaluating the condition of and change in condition to watercourses and wetlands as discussed in other comments, the Department recommends utilizing the Draft Pennsylvania Riverine Condition Level 2 Rapid Assessment Protocol and the Draft Pennsylvania Wetland Condition Level 2 Rapid Assessment Protocol. These protocols are not for identifying the functions and values of the resources, but rather are utilized to assess the current and proposed conditions of the resources. [25 Pa. Code §§105.14(a), 105.14(b)(4), 105.14(b)(13), 105.14(b)(12),	Conditions of the waterbodies and wetlands have been documented in the Aquatic Resource Reports and Addendums, and within the functions and value assessments. Wetland and stream restoration will be performed at each wetland according to Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4. Each procedure and method of crossing is provided and designed to ensure wetland hydrology, vegetation, soils, and functions and values are restored and each stream bed and bank are restored. Project Impacts are discussed within Attachment 11, Enclosure D and Enclosure E, Part 2 and demonstrate that unavoidable impacts to aquatic
HU 149.	Section B.2.a of Enclosure D of the Environmental Assessment states the natural drainage patterns of the wetlands and small or headwater streams will be maintained. However, no information has been provided or detailed contours or cross sections depicting the drainage patterns, cross section, or what the drainage patterns are in the wetlands in their existing conditions. Explain how the final "restored" wetland elevations and natural drainage patters of wetlands and streams will be determined. [25 Pa. Code §§105.13(e)(1)(x), 105.14(b)(4), 105.14(b)(11), 105.15(a), 105.18a(a), 105.18a(b)]	resources are temporary and minor. Site Specific Plans located in Attachment 7, Tab 7D have been revised to address complex aquatic resource crossings. As recommended by the DEP at a September 12, 2016 technical deficiency meeting, several cross sectional typical details are provided within the E&S Plan Sheets to accommodate the variety of typical stream and wetland crossings.

HU 150.

The Mitigation Plan appears to indicate that streams and wetlands which will be crossed by HDD are not proposed to have vegetative impacts either during construction or during operation and maintenance of the proposed pipelines. However, it is unclear on the plan drawings and in the application narrative precisely if vegetation cutting, clearing, removal, or grubbing is or is not part of the proposed construction, operation, and maintenance. Where Horizontal Directional Drill (HDD) and Bore crossings of resources are proposed a Permanent Easement is identified and impacts are identified as permanent only for the pipe size itself, and at other resource crossings a permanent ROW is identified and impacts are identified as permanent for the entire ROW. No explanation has been provided in the application for this different nomenclature.

SPLP did not revise the plan drawings. Instead, SPLP revised both the Project Description located in Attachment 9 to define the terms used within the plan drawings such as "Permanent Access Road," "Permanent ROW," "Temporary ROW," and "Additional Temporary Workspace" and the aerial site plans located in Attachment 7, Tab 7A to more clearly depict these designated areas. The Impact Avoidance, Minimization, and Mitigation Procedures in Attachment 11, Enclosure E, Part 4 details the construction, operation, and maintenance procedures in these designated areas.

As depicted on the aerial site plans, the DEP Chapter 105 jurisdictional areas defined as "Permanent Impact" are areas where the "Permanent ROW", "Permanent Access Road", "ROW-Travel and Clearing LOD", "Station-LOD", and "Block Valve Setting-LOD" intersect waters of the Commonwealth. These areas will receive both direct and indirect impacts resulting from the placement or construction of a water obstruction or encroachment and include areas necessary for the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water. These "Permanent Impacts" areas are proposed for permanent vegetation clearing, cutting, grubbing, removal, and maintenance. However, wetlands will not be cut or mowed during general operation and maintenance.

As depicted on the aerial site plans, the DEP Chapter 105 jurisdictional areas defined as "Temporary Impacts" are areas where "Temporary ROW", Additional Temporary Workspace ("ATWS"), "ROW-Travel LOD", and

		"Temporary Access Road" intersect waters of the Commonwealth. These areas will receive both direct and indirect impacts resulting from the construction of a water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water that are restored upon completion of construction. These "Temporary Impacts" areas are proposed for temporary vegetation cutting, clearing, grubbing, and removal. These areas will be allowed to revert; no future maintenance or operations will occur.
		The "Permanent Easement" depicted on the aerial site plans identifies the limits of SPLP's agreement with the affected landowner, and is an independent designation from proposed "Permanent Impacts" and "Temporary Impacts". In areas not identified as "Permanent Impacts" or "Temporary Impacts" within the "Permanent Easement", no permanent or temporary vegetation cutting, clearing, grubbing, removal, and/or maintenance is proposed. The "Permanent Easement" is depicted on the aerial site plans in response to previous DEP requests to show the limits of the permanent easement in areas where "Permanent Impacts" and "Temporary Impacts" are not proposed, and does not represent a DEP Chapter 105 jurisdictional area.
HU 150.a.	Revise the application plan drawings and application narratives, including but not limited to the project description and mitigation plan, to clearly and specifically state if vegetation clearing, cutting, removal, or other alteration is or is not proposed as part of the proposed	SPLP did not revise the plan drawings. Instead, SPLP revised both the Project Description located in Attachment 9 as noted in response to HU 150.

	puoiesta' normal construction aparetics and	
	projects' normal construction, operation, and	
	maintenance. [25 Pa. Code §§105.13(e)(1)(ix),	
	105.14(b)(4), 105.14(b)(12), 105.14(b)(13),	
	105.14(b)(14), 105.11(d)]	
HU 150.b.	Revise the plan drawings to clearly indicate all	See response to HU 150.a. In addition, maintenance
	locations where maintenance clearing, cutting,	activities are discussed within the Impact Avoidance,
	removal, or other alternation is not part of	Minimization, and Mitigation Procedures located in
	proposed maintenance activities. [25 Pa. Code	Attachment 11, Enclosure E, Part 4.
	§§105.13(e)(1)(ix), 105.13(e)(1)(i),	
	105.14(b)(4), 105.14(b)(12), 105.14(b)(13),	
	105.14(b)(14), 105.11(d)]	
HU 150.c.	If construction, normal operation, or normal	As explained in the Project Description (Attachment 9),
	maintenance activities will require the clearing,	construction and normal operation and maintenance
	cutting, removal, or other alteration of the	activities will require the clearing, cutting and mowing of
	vegetation in or adjacent to the wetland and	vegetation along areas of the ROW in and adjacent to
	streams the application must be revised to	wetlands and streams. Normal operations and
	identify and discuss in detail the primary	maintenance activities will not involve the
	impacts and secondary impacts to these	removal/denuding of vegetation along the ROW.
	resources from the proposed project. The	Attachment 11, Enclosure E, Part 2 (Project-wide
	application's Environmental Assessment should	Resource Identification and Impacts) discusses direct and
	be revised to discuss the resources and the	secondary impacts to such vegetation as a result of
	impacts thereto. Compensatory mitigation may	construction and operation/maintenance activities. The
	be necessary and required to compensate for	permanent impacts to wetland vegetation (i.e., permanent
	impacts to these resources from these impacts.	conversion of vegetation cover type) due to normal
	[25 Pa. Code §§105.15(a), 105.13(e)(1)(x),	operation and maintenance activities have been accounted
	105.14(b)(4), 105.14(b)(12), 105.14(b)(13),	for in the calculation of wetland impacts (Attachment 11,
	105.14(b)(14), 105.14(b)(11), 105.13(e)(1)(ix),	Table 2) and are being mitigated for in the Compensatory
	105.15(a), 105.18a(a), 105.18a(b)]	Mitigation Plan (Attachment 11, Enclosure F).
HU 151.	The Mitigation Plan implies through mention of	The majority of wetland areas will be restored using
	"No Mow" signs that PSS and PFO wetlands	standard restoration measures outlined within the Impact
	which will be crossed by open cut methods are	Avoidance, Minimization, and Mitigation Procedures in
	not proposed to have vegetative impacts after	Attachment 11, Enclosure E, Part 4. These procedures

	they are re-vegetated following construction	also detail construction, operation, and maintenance
	during the operation and maintenance of the	procedures in wetlands. The procedures document also
	proposed pipelines. However, it is unclear on	includes a "Special Plantings" section that identifies all
	the plan drawings and in the application	PFO and PSS impact areas that will be restored through
	narrative precisely if vegetation cutting,	PSS and PFO plantings as well as how these areas are
	clearing, removal, or grubbing is or is not part	protected during operation.
	of the proposed operation, and maintenance of	
	the proposed pipelines.	
HU 151.a.	Revise the application plan drawings and	SPLP did not revise the plan drawings. Instead, SPLP
	application narratives, including but not limited	revised both the Project Description located in
	to the project description and mitigation plan, to	Attachment 9 to define the terms used within the plan
	clearly and specifically state if vegetation	drawings such as "Permanent Access Road," "Permanent
	clearing, cutting, removal, or other alteration is	ROW," "Temporary ROW," and "Additional Temporary
	or is not proposed as part of the proposed	Workspace" and the aerial site plans located in
	projects' normal construction, operation, and	Attachment 7, Tab 7A to more clearly depict these
	maintenance. [25 Pa. Code §§105.13(e)(1)(ix),	designated areas. The Impact Avoidance, Minimization,
	105.14(b)(4), 105.14(b)(12), 105.14(b)(13),	and Mitigation Procedures in Attachment 11, Enclosure E,
	105.14(b)(14), 105.11(d)]	Part 4 details the construction, operation, and maintenance
		procedures in these designated areas.
		As depicted on the aerial site plans, the DEP Chapter 105
		jurisdictional areas defined as "Permanent Impact" are
		areas where the "Permanent ROW", "Permanent Access
		Road", "ROW-Travel and Clearing LOD", "Station-
		LOD", and "Block Valve Setting-LOD" intersect waters
		of the Commonwealth. These areas will receive both
		direct and indirect impacts resulting from the placement
		or construction of a water obstruction or encroachment
		and include areas necessary for the operation and
		maintenance of the water obstruction or encroachment
		located in, along or across, or projecting into a
		watercourse, floodway or body of water. These
		"Permanent Impacts" areas are proposed for permanent

vegetation clearing, cutting, grubbing, removal, and maintenance. However, wetlands will not be cut or mowed during general operation and maintenance.

As depicted on the aerial site plans, the DEP Chapter 105 jurisdictional areas defined as "Temporary Impacts" are areas where "Temporary ROW", Additional Temporary Workspace ("ATWS"), "ROW-Travel LOD", and "Temporary Access Road" intersect waters of the Commonwealth. These areas will receive both direct and indirect impacts resulting from the construction of a water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water that are restored upon completion of construction. These "Temporary Impacts" areas are proposed for temporary vegetation cutting, clearing, grubbing, and removal. These areas will be allowed to revert; no future maintenance or operations will occur.

The "Permanent Easement" depicted on the aerial site plans identifies the limits of SPLP's agreement with the affected landowner, and is an independent designation from proposed "Permanent Impacts" and "Temporary Impacts". In areas not identified as "Permanent Impacts" or "Temporary Impacts" within the "Permanent Easement", no permanent or temporary vegetation cutting, clearing, grubbing, removal, and/or maintenance is proposed. The "Permanent Easement" is depicted on the aerial site plans in response to previous DEP requests to show the limits of the permanent easement in areas where "Permanent Impacts" and "Temporary Impacts" are not proposed, and does not represent a DEP Chapter 105 jurisdictional area.

HU 151.b.	Revise the plan drawings to clearly indicate all locations where maintenance clearing, cutting, removal, or other alternation is not part of proposed maintenance activities.[25 Pa. Code §§105.13(e)(1)(ix), 105.13(e)(1)(i), 105.14(b)(4), 105.14(b)(12), 105.14(b)(13), 105.14(b)(14), 105.11(d)]	See response to HU 151a. In addition, maintenance activities are discussed within the Impact Avoidance, Minimization, and Mitigation Procedures located in Attachment 11, Enclosure E, Part 4.
HU 151.c.	If construction, normal operation, or normal maintenance activities will require the clearing, cutting, removal, or other alteration of the vegetation in or adjacent to the wetlands the application must be revised to identify and discuss in detail the primary impacts and secondary impacts to these resources from the proposed project. The application's Environmental Assessment should be revised to discuss the resources and the impacts thereto. Compensatory mitigation may be necessary and required to compensate for impacts to these resources from these impacts. [25 Pa. Code §§105.14(b)(4), 105.14(b)(12), 105.14(b)(13), 105.14(b)(14), 105.15(a), 105.11(d), 105.13(e)(1)(ix), 105.18a(a), 105.18a(b)]	As explained in the Project Description (Attachment 9), construction and normal operation and maintenance activities will require the clearing, cutting and mowing of vegetation along areas of the ROW in and adjacent to wetlands and streams. Normal operations and maintenance activities will not involve the removal/denuding of vegetation along the ROW. Attachment 11, Enclosure E, Part 2 (Project-wide Resource Identification and Impacts) discusses direct and secondary impacts to such vegetation as a result of construction and operation/maintenance activities. The permanent impacts to wetland vegetation (i.e., permanent conversion of vegetation cover type) due to normal operation and maintenance activities have been accounted for in the calculation of wetland impacts (Attachment 11, Table 2) and are being mitigated for in the Compensatory Mitigation Plan (Attachment 11, Enclosure F).
HU 152.	The Mitigation Plan and Environmental Assessment state that conversion of Palustrine Forested Wetlands (PFO) is proposed to occur, that there will be a functional loss, but the loss is de minimus.	Comment is addressed below.
HU 152.a.	Revise the Mitigation plan to replant the PFO wetlands in the permanent and temporary ROW	In conventional lay areas, the pipelines will be trenched to achieve 4 feet of cover. Trees are excluded from the

HU 152.b.	with native trees if possible, and if not possible provide specific details and documentation on why this is not possible. [25 Pa. Code §§105.13(e)(1)(viii), 105.1, 105.14(b)(4), 105.14(b)(13), 105.18a(a), 105.18a(b)] Based on the Mitigation Plan, PSS wetlands are	permanent ROW to allow aerial safety inspections, as well as provide access for repair and prevent the pipelines from being compromised by tree growth. However, please refer to the Impact Avoidance, Minimization, and Mitigation Procedures (Attachment 11, Enclosure E, Part 4) that demonstrates additional efforts to maximize PFO restoration within the permanent ROW. The application has been revised to include restoration
110 132.0.	acceptable in the permanent ROW. Therefore, if replanting of PFO wetlands in the permanent or temporary ROW is not possible, revise the mitigation plan to replant converted PFO wetlands in the ROW with shrubs. [25 Pa. Code §§105.13(e)(1)(viii), 105.1, 105.14(b)(4), 105.14(b)(13), 105.18a(a), 105.18a(b)]	plantings in PSS and PFO areas within the permanent ROW to reduce the amount of permanent vegetation covertype conversion in these areas. The total acreage of PFO located in the proposed permanent ROW in Huntingdon County is 0.057 acre across two wetlands. However, SPLP evaluated the opportunity to restore these PFO areas with trees to restore the functions and values of PFO. As a result, Sunoco proposes to replant 0.011 acre of PFO in the permanent ROW with trees. The remaining 0.046 acre of PFO conversion in the permanent ROW is within 10 feet of the pipelines and is not feasible to replant. Therefore, there will be a permanent conversion of PFO to PEM wetlands in Huntingdon County that is limited to 0.046 acre. Given this size of the conversion area and the location centered on the pipeline initial conversion will be to PEM. The application has been revised to include restoration plantings in these areas and the details are provided within the E&S Plan provided in Attachment 12 and in the Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4.
HU 152.c.	The application does not evaluate the cumulative conversion of PFO wetlands for the	A stand-alone alternatives analysis document, which evaluates the cumulative conversion of PFO wetlands for

	entire project. The applications for Blair,	the entire project, has been added to the application
	Huntingdon, Juniata, Perry, Cumberland, York,	materials and is located in Attachment 11, Enclosure E,
	Dauphin, Lebanon, Lancaster, and Berks	Part 2. The stand-alone compensatory mitigation plan has
	Counties within the Department's Southcentral	been revised and is located in Attachment 11, Enclosure
	Region propose a conversion of approximately	F.
	0.528 acres of PFO wetlands. Based on the	
	Department's review of the impacts for PFO	
	wetlands, compensatory mitigation is required	
	to offset the identified PFO functional impacts	
	of conversion to PSS. Revise the application to	
	assess the impact to the effected forested	
	wetlands, evaluate the cumulative effect on all	
	counties of the proposed project, and provide	
	compensatory replacement for the lost functions	
	and values. [25 Pa. Code §§105.13(e)(1)(ix),	
	105.13(e)(1)(viii), 105.14(b)(4), 105.14(b)(12),	
	105.14(b)(13), 105.14(b)(14), 105.15(a),	
	105.18a(a), 105.18a(b), 105.20a(a)(2)]	
HU 153.	The application states that temporarily impacted	The planting plans for the restoration of PSS and PFO
	Palustrine Scrub Shrub (PSS) and PFO	areas is provided in the Impact Avoidance, Minimization,
	wetlands will be replanted with native trees and	and Mitigation Procedures provided in Attachment 11,
	shrubs, PSS wetlands in the permanent ROW	Enclosure E, Part 4. The procedures provide for the
	will be planted with wetland shrubs, and PFO	locations, species to be planted, density, size, timing,
	wetlands in the permanent ROW will be	goals, and objectives, and monitoring for successful
	allowed to revert to PSS/PEM wetlands.	restoration.
	Provide planting plans and details for these	
	areas and for the replanting of PFO areas in the	
	permanent and temporary ROWs. The planting	
	plans must identify the locations of the	
	plantings and wetlands, the species to be	
	planted, the planting density, the proposed size	
	of the plantings, planting timing, goals and	

	objectives for success, and a monitoring plan to ensure re-establishment. [25 Pa. Code \$\$105.13(e)(1)(ix), 105.18a(a),105.18a(b), 105.20a]	
HU 154.	Section 2.2.2.1 of the Mitigation Plan, Construction in Wetlands with Unsaturated Soils, conflicts with the rest of the application, which identifies that all wetland crossings will be crossed with mats or pads. Crossing unsaturated wetlands without timber mats would contribute to soil compaction, rutting, and disturbance of the cut vegetation's roots. Therefore, revise the Mitigation Plan to identify that all wetland crossings shall use mats or pads. [25 Pa. Code §§105.21(a)(1), 105.13(e)(1)(ix), 105.15(a), 105.18a(a), 105.18a(b)]	The Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4 has been revised to indicate that temporary wetland matting will be used along the travel lane where any staging or work areas are proposed in wetlands regardless of the wetlands saturated condition.
HU 155.	Section 2.2.2.1 of the Mitigation Plan identifies that wetlands will be reseeded with a native wetland seed mixture; however, the mixture is not specified nor is it proposed on the plans. Revise the application to identify the seed mixture to be used and revise the E&S plans to indicate its use for wetland restoration in the Typical Wetland Restoration detail. [25 Pa. Code §§105.13(e)(1)(ix), 105.14(b)(4), 105.14(b)(13)]	The Impact Avoidance, Minimization, and Mitigation Procedures provided in Attachment 11, Enclosure E, Part 4 includes the details for standard and site-specific (including restored PSS and PFO habitats) wetland restoration, as well as invasive species control, monitoring, and reporting.
HU 156.	The HDD list at the end of the Inadvertent Return Contingency Plan in the Mitigation Plan identifies HDD crossings with notes as "Drive Through – Travel Only" which are not identified on the plan drawings or applications	The HDD list in the IR Plan, the plan drawings, and the application have been updated to contain this information. The revised plan is provided in Attachment 12, Tab 12C.

	as being "Drive Through – Travel Only". Revise this information to be accurate and	
	consistent with the rest of the application. [25]	
	Pa. Code §§105.21(a)(1), 105.13(e)(1)(i),	
HU 157.	The Alternatives Analysis states that the Alternatives Analysis is meant to be a summary of major actions taken to avoid/minimize impacts. The Alternatives Analysis must be a detailed analysis of alternatives, including alternative locations, routings, or designs to avoid or minimize adverse impacts and document and provide evidence that there is no practicable alternative which would not involve a wetland or that would have less adverse impact on a wetland. In addition, for the project to be water dependent as stated in the Alternatives Analysis, it must be based on the demonstrated unavailability of any alternative route location, or design or use of location, route or design to avoid or minimize adverse impacts. Revise the Alternatives Analysis to provide a detailed analysis of alternative routings, locations, and designs to avoid and minimize impacts and provide detailed documentation and evidence that there are not practicable alternatives which would further avoid and minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a(a)(2), 105.18a(a)(3), 105.18a(b)(2),	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to provide a detailed analysis of alternative routings, locations, and designs to avoid and minimize impacts and to provide documentation/evidence that there are no practicable alternatives that would further avoid and minimize impacts.
	105.18a(b)(3)]	

	In addition, address the following specific comments regarding the Alternatives Analysis:	
HU 157.a.	The Alternatives Analysis states that the proposed project was co-located within an existing pipeline for the majority of the route. However, multiple deviations away from the existing Sunoco pipeline occur within Huntingdon County and no information, details, or documentation on why the route deviated away from the existing ROW was given, or on alternate route selection to avoid and minimize impacts. Provide a detailed alternatives analysis which contains evidence and documentation on potential and avoided impacts for the existing alignment, proposed alignment, and other potential route alignments which documents that impacts cannot be further avoided and minimized. The following route alignments in Huntingdon County have been identified which deviate widely from the existing Sunoco ROW: The stream S-L51 to Raystown Road route deviation; and the steam S-L57 to stream S-L16 route deviation. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a(a), 105.18a(b), 105.14(b)(4), 105.14(b)(5),	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.b.	105.14(b)(13)] Revise the Alternatives Analysis to discuss, evaluate, and provide a detailed analysis on alternative routes to avoid and minimize impacts to High Quality Streams and	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.

	watersheds.[25 Pa. Code §§105.14(b)(7),	
	105.13(e)(1)(viii)]	
HU 157.c.	Revise your alternatives analysis to discuss	The Alternatives Analysis in Attachment 11, Enclosure E,
	routing alternatives that were considered as	Part 3 has been revised to address this comment.
	alternatives to impacts Exceptional Value	
	wetlands. [25 Pa. Code §§105.13(e)(1)(viii),	
	105.14(b)(7), 105.18a(a)]	
HU 157.d.	Some portions of the proposed ROW and	The Alternatives Analysis in Attachment 11, Enclosure E,
	pipelines directly abuts the maintenance	Part 3 has been revised to address this comment.
	corridor of the existing Sunoco pipeline;	
	however, in other portions the proposed ROW	
	has partial or near complete overlap with the	
	existing maintenance area and pipeline. No	
	discussion on this is provided in the alternatives	
	analysis, and it appears that more overlap of the	
	proposed ROW and the existing Sunoco	
	Maintenance corridor is practicable and would	
	further avoid and minimize impacts. Revise the	
	application accordingly to avoid and minimize	
	impacts by locating the proposed ROW within	
	the overlap of the existing maintenance	
	corridor, or provide a detailed analysis and	
	discussion with specific details explaining why	
	this overlap is present in some areas and not	
	others, and why the proposed ROW cannot	
	further overlap. [25 Pa. Code §§105.14(b)(7),	
	105.13(e)(1)(viii), 105.18a(a), 105.18a(b)]	
HU 157.d.	It appears that several waters of the	The Alternatives Analysis provided in Attachment 11,
	Commonwealth could be crossed using	Enclosure E, Part 3 has been revised to include a
	trenchless installation methods. Revise the	discussion on the limitations of trenchless methods and
	application accordingly, or provide a revised	presents an attached trenchless feasibility assessment.
	alternatives analysis that incorporates a	

	discussion of alternative crossing techniques (conventional bore, HDD, micro-tunneling, etc.) that includes documentation and evidence addressing each resource crossing and explaining why trenchless installation methods	
	are not appropriate. [25 Pa. Code §§105.14(b)(7), 105.18a(b)(3), 105.18a(a)(3),	
IIII 157 a	105.13(e)(1)(viii)] The Alternatives Analysis in Pouts Veristion 6	The Alternatives Analysis in Attachment 11 Englesons E
HU 157.e.	The Alternatives Analysis in Route Variation 6 identifies that the pipeline has been re-routed to avoid installation of the pipes paralleling down the middle of the stream. Other stream impacts are proposed where the proposed pipes will parallel down the stream channel, where the stream flows in and along the pipes and ROW, and where streams begin within the proposed ROW; however, no information has been provided on why these impacts cannot be avoided and/or minimized through route changes. It appears that many of these areas can have impacts further avoided and minimized. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs, and methods to avoid and minimize impacts and which documents and provides evidence that other routes and designs would not further avoid or minimize impacts for the following streams: S-M2, S-L16, S-L15, S-L13, S-L21, S-L51, S-L52, S-L53, S-Y19, S-JH2, S-BB106, S-L48, S-L42 within wetland L24, S-L25, S-M17,	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
	S-L34, S-M9, M11, S-K82, and S-K85 S-M18,	

	S-M20, S-M4, S-BB97, S-M22, S-K89, and S-K8. [25 Pa. Code §§105.14(b)(7), 105.14(b)(4), 105.14(b)(11), 105.15(a)]	
HU 157.f.	It appears that impacts to wetland Y14 could be avoided and minimized by re-locating the alignment to the North. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.g.	It appears that secondary impact to stream S-Y3 could be avoided and minimized by lengthening the HDD location and beginning it further to the East and lengthening the "Permanent Easement (no surface disturbance)". Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7)]	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.h.	It appears that impacts to streams S-Y5, S-Y6, S-Y7 and wetlands Y6, Y7, and CC28 could be avoided and minimized by locating the proposed pipelines further North. Revise the application accordingly to avoid and minimize	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.

	impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7)]	
HU 157.i.	It appears that impacts to wetland Y12 and streams S-Y19 and S-JH2 could be avoided and minimized by locating the proposed pipelines to the Southeast. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.j.	It appears that impacts to wetland L28 could be avoided by relocating the proposed pipelines to the North or the South. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.k.	It appears, but is not described in the application, that HDD was assumed by the	A stand-alone alternatives analysis document, which presents the justification for the selected wetland and

	applicant to be the crossing method presenting the least potential impact to water resources and aquatic species. Revise the alternatives analysis to provide justification for the selection of which water resource (streams and wetlands) crossings will be made by HDD. [25 Pa. Code §§105.14(b)(7), 105.18a(b)(3), 105.18a(a)(3), 105.13(e)(1)(viii)]	stream crossings that will be made by HDD, has been added to the application materials and is located in Attachment 11, Enclosure E, Part 3. The alternatives analysis includes and incorporates relevant information by reference presented in a stand-alone trenchless feasibility assessment, which is located in Attachment 11, Enclosure E, Part 3, Appendix C.
HU 157.1.	It appears that primary impacts and secondary impacts from the Temporary ROW and ATWSs can be avoided by locating them outside the floodway of streams. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7)]	As demonstrated in the Alternatives Analysis, the Project has been designed to avoid and minimize impacts to wetlands and waterbodies (including streams and floodways of streams) to the extent feasible. SPLP has narrowed the Project ROW from 75 to 50 feet at resource crossings, and therefore necessarily relocated temporary workspace (including Temporary ROW and ATWSs) adjacent to streams (and/or floodways) in order to install the pipeline effectively and to restore disturbed workspace as efficiently as possible. Furthermore, the Project would implement E&S controls during construction and primary and secondary impacts at these workspaces would be temporary in nature and restored to existing conditions. Please refer to Attachment 11, Enclosure D, Project Impacts for additional discussion.
HU 157.m.	It appears that locating the pipelines to the South would avoid impacts to streams S-L45, S-L42, wetland L21, and Pond I4. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize	Wetland (Pond I4) and stream (S-L45) are proposed to be crossed using HDD methods. Therefore, there will be no disturbance in this wetland and stream and impacts to the wetland and stream will be avoided. The waterbody acreage impacts that are listed in the waterbody impacts table (Attachment 11, Table 3), represents calculations of the pipe width multiplied by the length of the crossing

	impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	under the stream per DEP's guidance, and not actual disturbance.
		Wetland L21, and Stream S-L42 are addressed in the Alternatives Analysis in Attachment 11, Enclosure E, Part 3.
HU 157.n.	It appears that primary impacts and secondary impacts could be avoided and minimized by locating the proposed pipelines South of stream S-M28, and if this is not practicable, minimize impacts by crossing it farther downstream/Northeast in a perpendicular fashion. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7)]	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.
HU 157.o.	It appears that impacts to streams S-M20 and S-M18 and wetlands M17 and M15 could be avoided and minimized by relocating the proposed pipelines to cross the streams farther upstream and in a more perpendicular fashion to rejoin Sunoco's existing ROW farther West. Revise the application accordingly to avoid and minimize impacts, or provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that	The Alternatives Analysis in Attachment 11, Enclosure E, Part 3 has been revised to address this comment.

	other routes and designs would not further	
	avoid or minimize impacts. [25 Pa. Code	
	§§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	
HU 157.p.	It appears that impacts to wetlands M12 and	The Alternatives Analysis in Attachment 11, Enclosure E,
110 107.p.	CC27 can be avoided and minimized by	Part 3 has been revised to address this comment.
	locating the proposed pipelines on the North	Tare 5 has been revised to address this comment.
	side of the Existing Sunoco pipeline. Revise the	
	application accordingly to avoid and minimize	
	impacts, or provide a detailed analysis of	
	alternative routes, designs and methods to avoid	
	and minimize these impacts which documents	
	and provides evidence that other routes and	
	designs would not further avoid or minimize	
	impacts. [25 Pa. Code §§105.13(e)(1)(viii),	
	105.14(b)(7), 105.18a]	
HU 157.q.	It appears that impacts to wetland L12 could be	The Alternatives Analysis in Attachment 11, Enclosure E,
1	avoided or minimized by locating the proposed	Part 3 has been revised to address this comment.
	pipelines South of the existing Sunoco pipeline.	
	Revise the application accordingly to avoid and	
	minimize impacts, or provide a detailed	
	analysis of alternative routes, designs and	
	methods to avoid and minimize these impacts	
	which documents and provides evidence that	
	other routes and designs would not further	
	avoid or minimize impacts. [25 Pa. Code	
	§§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	
HU 157.r.	It appears that impacts to wetlands K72 and	The Alternatives Analysis in Attachment 11, Enclosure E,
	L10 and stream S-L21 and the floodway of	Part 3 has been revised to address this comment.
	stream S-K96 could be avoided and minimized	
	by locating the proposed pipelines South of the	
	existing Sunoco pipeline. Revise the application	
	accordingly to avoid and minimize impacts, or	

provide a detailed analysis of alternative routes, designs and methods to avoid and minimize these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a] HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been provided on why it is practicable in this
these impacts which documents and provides evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a] HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
evidence that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a] HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333. The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a] HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333. The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a] HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been The Alternatives Analysis in Attachment 11, Enclosure E Part 3 has been revised to address this comment.
HU 157.s. The following pertain to the Alternatives Analysis' for wetlands L7, L8, L9,W332, and W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been The Alternatives Analysis in Attachment 11, Enclosure E Part 3 has been revised to address this comment.
Analysis' for wetlands L7, L8, L9,W332, and W333. The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
W333.The analysis states that an alignment further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
further South or North than that proposed would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
would increase undisturbed forest habitat including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
including potentially other streams/wetlands. The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
The proposed re-route around wetland L7 will require additional forest clearing, and no justification and documentation has been
justification and documentation has been
provided on why it is practicable in this
instance and not in the rest. Revise the
application accordingly to avoid and minimize
impacts, or provide a detailed analysis of
alternative routes, designs and methods to avoid
and minimize these impacts which documents
and provides evidence that other routes and
designs would not further avoid or minimize
impacts. This should include specific details
and quantification which documents that other
routes and designs would not further avoid or
minimize impacts .[25 Pa. Code
§§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]
HU 157.s.i It appears that relocating the proposed The Alternatives Analysis in Attachment 11, Enclosure E
pipelines' alignment North of wetland L8 Part 3 has been revised to address this comment.
and/or North of stream S-L16 could avoid and

	minimize impacts and cross S-L16 in a more	
	perpendicular manner.	
HU 157.s.ii	It appears that locating the proposed pipelines	The Alternatives Analysis in Attachment 11, Enclosure E,
	South of the existing Sunoco Pipeline from the	Part 3 has been revised to address this comment.
	point West of wetland L6 where the proposed	
	pipelines rejoin the existing through stream	
	crossing S-L13 could avoid wetland impacts	
	and avoid and minimize stream impacts and	
	cross the streams in a more perpendicular	
	manner.	
HU 157.t.	The Alternatives Analysis states that a	The Alternatives Analysis in Attachment 11, Enclosure E,
	combination of open cutting and HDD was	Part 3 has been revised to address this comment.
	determined to be the most feasible alternative	
	for crossing wetlands K67 and K68; however,	
	no details, documentation, or evidence has been	
	provided on why this is the least damaging	
	practicable alternative. It appears that	
	lengthening the HDD to cross both wetland	
	K67 and K68 and not open cut wetland K67	
	would further minimize impacts. Revise the	
	application accordingly to avoid and minimize	
	impacts, or provide a detailed analysis of	
	alternative routes, designs and methods to avoid	
	and minimize these impacts which documents	
	and provides evidence that other routes and	
	designs would not further avoid or minimize	
	impacts. This should include specific details	
	and quantification which documents that other	
	routes and designs would not further avoid or	
	minimize impacts[25 Pa. Code	
	§§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	

HU 157.u.	Stream K-89 starts at its source between the two	Where K-89 starts has been verified to be ephemeral flow.
	proposed pipelines. Also, based on the provided	The constraints of moving the pipeline north or south of
	photograph, it appears the stream has at least	the existing ROW is discussed within the Alternatives
	intermittent if not perennial flow. Revise the	Analysis provided in Attachment 11, Enclosure E, Part 3.
	stream flow regime accordingly. It appears	
	relocating the proposed pipelines to the North	
	could avoid this impact. Revise the application	
	accordingly to avoid and minimize impacts, and	
	provide a detailed analysis of alternative routes,	
	designs and methods to avoid and minimize	
	these impacts which documents and provides	
	evidence that other routes and designs would	
	not further avoid or minimize impact. [25 Pa	
	Code §§105.14(b)(7), 105.14(b)(4),	
	105.13(e)(1)(viii), 105.16(a), 105.16(d)]	
HU 157.u.i	If the impact cannot be avoided, provide a	A site-specific drawing is provided within Attachment 12
	detailed discussion, assessment, and analysis on	within the E&S Plan sheet set. The drawings provide for
	the existing hydrology and on the impacts to the	plans for the existing, E&S Plan, and restoration
	proposed stream and how it will be restored.	condition. Also see the Impact Avoidance, Minimization,
	The analysis should specifically discuss the	and Mitigation Procedures provided in Attachment 11,
	source of hydrology for the stream and how it	Enclosure E, Part 4 for a detailed discussion in regards to
	will be restored after the pipelines are installed,	SPLP's environmental inspection program that provides
	include a geologic analysis on the impact to the	for a PG to be part of the EI team per spread to consult in
	stream hydrology if the source is emanating	regards to karst terrain, groundwater seeps, and confining
	from the bedrock, and include a plan to monitor	layers.
	the stream post construction. [25 Pa Code	
	§§105.16(a), 105.15(a), 105.13(e)(1)(ix)]	
HU 157.u.ii	If impacts to the hydrology will result and/or	The Resource Identification and Project Impacts provided
	hydrology lost from the proposed impacts,	in Attachment 11, Enclosure E, Part 2 discuss the impacts
	provide a detailed plan for compensatory	on hydrology. Based on the construction BMPs and the
	mitigation for these impacts. [25 Pa Code	site specific restoration plan provided in Attachment 7,
	§§105.13(e)(1)(ix), 105.1, 105.16(a)]	Tab 7C no significant or permanent impact on stream K-

		89's hydrology is expected. Compensatory mitigation is therefore not warranted.
HU 157.e. Incorrectly numbered in DEP ltr	The Alternatives Analysis discussion on alternatives to avoid and minimize impacts for wetlands K65 and K66 by shifting the pipelines North or South would cause more disturbance of previously undisturbed habitat, including potentially other wetlands and streams. However, no information or detail has been provided on whether the possibility of alternatively shifting the alignment North or South will actually impact any additional wetlands and streams or increase the quantity of impacts. Revise the alternatives analysis to include specific details and quantification providing a detailed analysis of alternative routes, designs and methods to avoid and, minimize impacts to wetlands and streams which documents that other routes and designs would not further avoid or minimize impacts. [25 Pa. Code §§105.13(e)(1)(viii), 105.14(b)(7), 105.18a]	The Alternatives Analysis provided in Attachment 11, Enclosure E, Part 3 has been revised to include additional discussion of alternatives assessed for wetlands (including K65 and K66) is included in Attachment 11, Enclosure E, Part 3. It can be found in Appendix D.
HU 149. Incorrectly numbered in DEP ltr	If any changes to the proposed route occur, revise all parts, components of the application to reflect these changes. This includes providing copies of the submission to and clearance from the PHMC, USFWS, PFBC, DCNR, and PGC. [25 Pa. Code §§105.13(e)(1), 105.21(a)(1)]	The attached Application represents the proposed facilities and workspaces. SPLP provided in each Chapter 105 county application package a summary of the PNDI correspondences to-date as Attachment 6. In that summary, a description of the 1,500 foot-wide review area that was used for the initial correspondences and how reroutes deviating from the 1,500 foot width were resubmitted, such as the case of the Altoona reroute area in Cambria and Blair counties. Changes to the Project since receipt of these

		correspondences remain within the 1,500 reviewed corridor. Each agency has been submitted a final request for determination letter where the Project is describe as two lines, the consultation history is summarized, and survey reports and mapping (including GIS files) are provided referencing the most current alignment. Conservation measures and construction commitments are then outlined within a species-specific conservation plans and a no impact determination is requested. Clearance from all four agencies have been obtained and the conditions of those clearances outlined within the revised Project Description located in Attachment 9, which includes all approved conservation plans. Attachment 6 also contains all of the PNDI agency correspondences todate.
HU 158.	Provide consistent and up-to-date plans to the Department and Penn, Shirley, Union and Tell Townships. [25 Pa. Code § 105.21(a)(1) § 105.13(e)(1)(v) and (vi) § 105.13(e)(1)(i)(A) and (C)]	This comment requests that floodplain maps and site plans be resubmitted to the Department, Penn, Shirley, Union, and Tell Townships as a result of the updates to the Project's workspace. Updated site plans are provided in Tab 7A of this Chapter 105 permit application. In addition, Per DEP's request, updated plans/maps and a letter requesting comment (on the changes to the workspace) were sent to the Townships. See updated plans/maps sent to Townships in Attachment 14.
HU 159.	Please respond to and address the comments from the Pennsylvania Fish and Boat Commission found on the attached sheet. Due to the number of crossings and time-of-year restrictions, the Department recommends identifying the time-of-year restrictions on the plans. [25 Pa. Code §§105.14(b)(4), 105.14(b)(6)]]	To ensure contractor compliance, SPLP has developed a state-of-the-art web-based mapping applications that is required to be used by the contractor to determine all special environmental restrictions such as PNDI and trout stream restrictions. All of the restrictions and avoidance measures committed to and approved by PNDI agencies are included in the Project Description within a summary table and within the PNDI agency final determination

letters and accepted Conservation Plans included in
Attachment 6, Tab B. The same notes in the Project
Description are reflected within the E&S Plan notes.
Trout stream restrictions and other sensitive species
restrictions are also noted on aerial site plans and E&S
Plans, however due to the senstive nature of the some of
the information not all is depicted. SPLP will implement
a comprehensive Environmental Training and Inspection
program designed specifically to ensure contractors are
appropriate notified and are adhering to such restrictions.

SPLP appreciates your timely review of the revision. Please contact Sandy Lare of Tetra Tech, Inc. with any questions at 716-849-9419, or email sandy.lare@tetratech.com.

Sincerely, Tetra Tech, Inc.

Sandra J. Lare

Environmental Planner/Permitting Specialist

Sandra Hare

Enclosures: Revised Chapter 105 Joint Permit Application

cc: Ann Roda, DEP Headquarters / Program Integration (letter only)

Sachin Shankar, DEP Southeast Region (letter only)

Dominic Rocco, DEP Southeast Region (letter only)

Jared Pritts, U.S. Army Corps of Engineers, Pittsburgh District (letter only)

Wade Chandler, U.S. Army Corps of Engineers, Baltimore District (letter only)

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