

*Atlantic Sunrise Project – PA DEP Chapter 105 Joint Permit Application  
Transcontinental Gas Pipe Line Company, LLC  
Columbia County*

**APPENDIX P -1**

**RESOURCE-SPECIFIC AVOIDANCE AND MINIMIZATION  
MEASURES**

*Revised November 18, 2016*

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**APPENDIX P -2  
TRENCHLESS ANALYSIS**

*Revised November 18, 2016*