By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.

DAVID J. WALLNER Lic. No. 0402057593

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PLAN SUBMITTER'S CHECKLIST

FOR STORMWATER MANAGEMENT PLANS

Please fill in all blanks and <u>please reference the plan sheets/pages where the information may be found,</u> where appropriate, or write N/A by items that are not applicable.

PLANS DATED: <u>3/6/18</u>

Project Name Mountain Valley Pipeline Spread 9				
VSMP Pern	mit Number			
Site Plan N	lumber	-		
	ss N/A	Diama Nambar 704 070 0405		
Applicant I	Mountain Valley Pipeline, LLC Legal Address <u>555 Southpointe Blvd., Suite 200, Canons</u>	Phone Number <u>/24-8/3-3465</u>		
Owner Mou	ountain Valley Pipeline, LLC	Sburg, PA 15311 Phone Number 724-873-3465		
Principal D	pail Address	Phone Number 412-921-8869		
Principal D	Designer E-mail Address David.Wallner@tetratech.com			
Total Distur	urbed Area Figure			
X	<u>Professional's seal</u> - The designer's original seal, si sheet of each Narrative and each set of Plan Sheets. Sheets.			
	Number of plan sets – Attach two sets of SWM Plans	S.		
<u>N/A</u>	Exceptions - Exceptions requested are governed by Stormwater Management Regulations.	by Section 9VAC25-870-57 of the Virginia		
<u>N/A</u>	<u>Local Consideration</u> – Provide contact information for	or the <u>locality's</u> plan review coordinator.		
Name		Phone Number		
Address				
<u>N/A</u>	<u>Grandfathering</u> - Attach supporting documentation 9VAC25-870-48 of the <i>Virginia Stormwater Manage</i>			
<u>N/A</u>	Offsite Compliance – Attach letter of availability Section 9VAC25-870-55 of the <i>Virginia Stormwater</i>	1 .		
PROJECT	T NAME: MVP Spread 9	SUBMITTAL#:		

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CHECKLIST PREPARER

I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist I am certifying that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete.

SIGNATURE Sand Wallur
PRINTED NAME _David Wallner
QUALIFICATIONS Professional Engineer
DATE3/6/18

DAVID J. WALLNER
Lic. No. 0402057593

June Walling
3/6/2018

PROJECT NAME: MVP Spread 9 SUBMITTAL#: ____

PLANS DATED: 3/6/18

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_ PLANS DATED: 3/6/18

	SITE PLANS Please reference the plan sheet numbers where specific information may be found in the blanks below.			
_X	Common address and legal description of the parcel number(s) of the property or properties as	site, including the tax reference number(s) and ffected.		
_X	final site conditions, including proposed use	ent site conditions and proposed development and e of environmental site design techniques and t information pertaining to long-term maintenance		
	Existing and proposed mapping and plans (rec which illustrates the following at a minimum: X North arrow X Legend X Vicinity map	commended scale of 1" = 50', or greater detail),		
	☒ Existing and proposed topography (minimum☒ Property lines	n of 2-foot contours recommended)		
	specific test bore hole investigations that may	soils surveys as well as the location of any site- have been conducted and information identifying properties of soils used in the installation of		
	 ☒ Boundaries of existing predominant vegetati ☒ Location and boundaries of natural feature lakes, ponds, aquifers, public drinking water subuffers, drinking water well setbacks, septic dra ☐ Identification of any on-site or adjacent water management waters N/A 	protection and conservation areas (e.g., wetlands, applies, etc.) and applicable setbacks (e.g., stream infield setbacks, building setbacks, etc.) ter bodies included on the Virginia 303(d) list of		
	impervious areas Location and description of any planned den Proposed land use(s) with a tabulation of various uses, including but not limited to pl stormwater management facilities, and easemen	the percentage of surface area to be adapted to anned locations of utilities, roads, parking lots, ts s [e.g., water (including wells), sewer (including		
	☐ Earthwork specifications ☐ Show the BMP name, geographic coord structural stormwater control measures, includin ☐ Storm drainage plans for site areas not drain ☒ Location of existing and proposed convey basins, channels, lateral groundwater movement etc.), swales, and areas of overland flow, includ ☒ Final drainage patterns and flow paths ☒ Location of floodplain/floodway limits and	dinates and design of both structural and non- ng maintenance access and limits of disturbance ing to any BMP(s) N/A ance systems, such as storm drains, inlets, catch ent interceptors (French drains, agric. tile drains,		
PROJEC	properties and drainage systems T NAME: _MVP Spread 9	SUBMITTAL#:		

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PLANS DATED: 3/6/18			
PROJECT	NAME: _MVP Spread 9SUBMITTAL#:		
<u>N/A</u>	Landscaping plans for stormwater control measures and any site reforestation or revegetation		
_X	Applicable construction and material specifications, including references to applicable material and construction standards (ASTM, etc.)		
<u>N/A</u>	Representative cross-section and profile drawings and details of stormwater control measures and conveyances which include the following: Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.) Design water surface elevations Structural details of BMP designs, outlet structures, embankments, spillways, grade control structures, conveyance channels, etc.		
	 ☒ Site map with locations of design points and drainage areas (size in acres) for runoff calculations ☐ Identification and calculation of stormwater site design credits, if any apply N/A ☒ Summary description of the water quantity and water quality compliance strategy. ☒ Time of concentration (and associated flow paths) ☒ Imperviousness of the entire site and each drainage area ☒ NRCS runoff curve numbers or volumetric runoff coefficients ☒ A hydrologic analysis for the existing (pre-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations ☒ A hydrologic analysis for the proposed (post-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations ☒ Hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms ☒ Pollution load and load reduction requirements and calculations ☒ Final good engineering and sizing calculations for stormwater control measures, including contributing drainage areas, storage, and outlet configurations, verifying compliance with the water quality and water quantity requirements of the regulations ☒ Stage-discharge or outlet rating curves and inflow and outflow hydrographs for storage facilities ☒ Final analysis of the potential downstream impacts/effects of the project, where necessary ☐ Downstream analysis, where detention is proposed N/A ☐ Dam safety and breach analysis, where necessary N/A 		
	Hydrologic and hydraulic analysis, including the following:		
	crossings Final stabilization and landscaping plans N/A		
	 ✓ Location of all contributing drainage areas and points of stormwater discharge, receiving surface waters or karst features into which stormwater discharges, the pre-development and post-development conditions for drainage areas, and the potential impacts of site stormwater on adjoining parcels ✓ Location and dimensions of proposed channel modifications, such as bridge or culvert 		

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	Long term operations and maintenance plan/agreement as governed by 9VAC25-870-112 of the Virginia Stormwater Management Program Regulations.
X	Evidence of acquisition of all applicable local and non-local permits In progress
<u>N/A</u>	Waiver/exception requests
X	Evidence of acquisition of all necessary legal agreements (e.g., easements, covenants, land trusts, etc.)
_X	Applicable supporting documents and studies (e.g., infiltration tests, geotechnical investigations, TMDLs, flood studies, etc.)
	Other required permits:

PROJECT NAME: MVP Spread 9 SUBMITTAL#: _____

PLANS DATED: 3/6/18