

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



PLAN SUBMITTER'S CHECKLIST

FOR EROSION AND SEDIMENT CONTROL PLANS

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

GENERAL

Plan Submission Date 2/3/18
Project Name Mountain Valley Pipeline Spread 11
VSMP Permit Number _____
Site Plan Number _____
Site Address N/A
Applicant Mountain Valley Pipeline, LLC Phone Number 724 873-3465
Applicant Legal Address 555 Southpointe Blvd, Suite 200, Canonsburg, PA 15311
Owner Mountain Valley Pipeline, LLC Phone Number 724 873-3465
Principal Designer Dave Wallner, P.E. Phone Number 412 921-8869
General Contractor To Be Selected Phone Number _____

_____ Complete set of plans - Include all sheets pertaining to the site grading and stormwater and any activities impacting erosion and sediment control and drainage:

- Existing conditions
- Demolition
- Site grading
- Erosion and sediment control
- Storm sewer systems
- Stormwater management facilities
- Utility layout
- Landscaping
- On-site and off-site borrow and disposal areas that do not have separate approved ESC Plans

Y Professional's seal - The designer's original seal, signature, and date are required on the *cover* sheet of each Narrative and each set of Plan Sheets. A facsimile is acceptable for subsequent Plan Sheets.

_____ Number of plan sets - Two sets of ESC Plans should be submitted. The DEQ office will retain all submitted plans.

Y Variances - Variances requested at the time of plan submission are governed by Section 9VAC25-840-50 of the *Virginia Erosion and Sediment Control Regulations*.

X Certified Responsible Land Disturber (RLD) - A certified RLD is required during all stages of construction, from the initial land disturbance through final site stabilization. **The name of the project RLD must be provided before any land disturbance may begin.** Notify DEQ in a

PROJECT NAME: MVP Spread 11 **SUBMITTAL#:** _____

PLANS DATED: 2/3/18

timely manner if the RLD changes during the course of the project.

N/A Local Consideration – Plans have been provided to the applicable jurisdictions.

- Dulles Airport (MWAA)
- Fairfax County
- Loudoun County
- Town of Herndon
- Dulles Greenway (Trip II)
- VDOT

CHECKLIST PREPARER

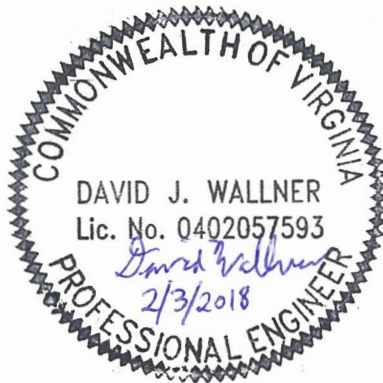
I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist I am certifying that this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

SIGNATURE: *David Wallner*

PRINTED NAME : **David Wallner**

QUALIFICATIONS: **Professional Engineer**

DATE: 2/3/18



111

PROJECT NAME: MVP Spread 11 SUBMITTAL#: _____

PLANS DATED: 2/3/18

NARRATIVE

Please reference plan sheet numbers where the information may be found.

- Y Project description - Briefly describe the nature and purpose of the land-disturbing activity. Provide the area (acres) to be disturbed.
- Y Existing site conditions - A description of the existing topography (% slopes), ground cover, and drainage (on-site and receiving channels).
- Y Adjacent areas - A description of all neighboring areas such as residential developments, agricultural areas, streams, lakes, roads, etc., that might be affected by the land disturbance.
- Y Off-site areas - Describe any off-site land-disturbing activities that may occur (borrow sites, disposal areas, easements, etc.). Identify the Owner of the off-site area and the entity responsible for plan review. Include a statement that any off-site land-disturbing activity associated with the project must have an approved ESC Plan. Submit documentation of the approved ESC Plan for each of these sites.
- Y Soils - Provide a description of the soils on the site, giving such information as soil name, mapping unit, erodibility, permeability, surface runoff, and a *brief* description of depth, texture and soil structure. Show the site location on the Soil Survey, if it is available. Include a plan showing the boundaries of each soil type on the development site.
- Y Critical areas - A description of areas on the site that have potentially serious erosion problems or that are sensitive to sediment impacts (e.g., steep slopes, watercourses, wet weather / underground springs, etc.).
- Y Erosion and sediment control measures - A description of the structural and vegetative methods that will be used to control erosion and sedimentation on the site. Controls should satisfy applicable minimum standards and specifications in Chapter 3 of the 1992 *Virginia Erosion and Sediment Control Handbook* (VESCH) or more stringent local requirements.
- Y Management strategies / Sequence of construction - Address management strategies, the sequence of construction, and any phasing of installation of ESC measures.
Strategies are included in the construction sequence contained on the General Details Plan Set
- Y Permanent stabilization - A brief description, including specifications, of how the site will be stabilized after construction is completed.
- Y Maintenance of ESC measures - A schedule of regular inspections, maintenance, and repair of erosion and sediment control structures should be set forth.
- Y Calculations for temporary erosion and sediment control measures - For each temporary ESC measure, provide the calculations required by the standards and specifications.
- Y Stormwater management considerations - Will the development of the site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff, including during construction.

PROJECT NAME: MVP Spread 11 **SUBMITTAL#:** _____

PLANS DATED: 2/3/18

Y Specifications / Detail Drawings for erosion and sediment control measures - For each erosion and sediment control measure employed in the plan, include, at a minimum, the detail from the standard and specification in the VESCH or more stringent local requirements. Include any approved variances or revisions to the standards and specifications.

N/A Specifications for stormwater and stormwater management structures - Provide specifications for stormwater and stormwater management structures, i.e., pipe materials, pipe bedding, stormwater structures.

PROJECT NAME: _MVP Spread 11_____ **SUBMITTAL#:** _____

PLANS DATED: 2/3/18_____

SITE PLAN

Please reference plan sheet numbers where the information may be found.

- Y Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks that might assist in locating the site.
- Y Indicate north - The direction of north in relation to the site.
- N/A Off-site areas - Include any off-site land-disturbing activities (e.g., borrow sites, disposal areas, etc.) not covered by a separate approved ESC Plan.
- Y Legend - Provide a complete listing of all ESC measures used, including the VESCH uniform code symbol and the standard and specification number. Include any other items necessary to identify pertinent features in the plan.
Some non-VESCH STD symbols are included and defined in the plan legends
- Property lines and easements - Show all property and easement lines. For each adjacent property, list the deed book and page number and the property owner's name and address.
- Y Existing vegetation – Show the existing tree lines, grassed areas, or unique vegetation.
- Y Limits of clearing and grading – Delineate all areas that are to be cleared and graded.
- Y Protection of areas not being cleared - Fencing or other measures to protect areas that are not to be disturbed on the site.
- Y Critical areas – Note all critical areas on the plan.
- Y Existing contours – Show the existing contours of the site.
- N/A Final contours and elevations – Show changes to the existing contours, including final drainage patterns.
- Y Site development – Show all improvements such as buildings, parking lots, access roads, utility construction, etc. Show all physical items that could affect or be affected by erosion, sediment, and drainage.
- Y Location of practices - The locations of erosion and sediment control and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of the VESCH.
- Y Adequate Conveyances – Ensure that stormwater conveyances with adequate capacity and adequate erosion resistance have been provided for all on-site concentrated stormwater runoff. Off-site channels that receive runoff from the site, including those receiving runoff from stormwater management facilities, must be adequate. Increased volumes of sheet flows must be diverted to a stable outlet, adequate channel, pipe or pipe system, or a stormwater management facility.

PROJECT NAME: __MVP Spread 11__ **SUBMITTAL#:** _____

PLANS DATED: 2/3/18

MINIMUM STANDARDS

Plan Sheet # _____

Minimum Standards - All Minimum Standards must be addressed.

Yes No NA

- | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-1 | Have temporary and permanent stabilization been addressed in the narrative? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Are practices shown on the plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Temporary and permanent seed specifications? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Lime and fertilizer? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Mulching? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Blankets/Matting? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Pavement/Construction Road Stabilization? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-2 | Has stabilization of soil stockpiles, borrow areas, and disposal areas been addressed in the narrative and on the plan? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Have sediment trapping measures been provided? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-3 | Has the establishment and maintenance of permanent vegetative stabilization been addressed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-4 | Does the plan specifically state that sediment-trapping facilities shall be constructed as a first step in land-disturbing activities? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-5 | Does the plan specifically state that stabilization of earthen structures is required immediately after installation? Is this noted for each measure on the plan? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | MS-6 | Are sediment traps and sediment basins specified where needed and designed to the standard and specification? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-7 | Have the design and temporary/permanent stabilization of cut and fill slopes been adequately addressed? Is Surface Roughening provided for slopes steeper than 3:1? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-8 | Have adequate temporary or permanent conveyances (paved flumes, channels, slope drains) been provided for concentrated stormwater runoff on cut and fill slopes? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MS-9 | Has water seeping from a slope face been addressed (e.g., subsurface drains)? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | MS-10 | Is adequate inlet protection provided for all operational storm drain and culvert inlets? |

PROJECT NAME: _MVP Spread 11_____ **SUBMITTAL#:** _____

PLANS DATED: 2/3/18_____

Yes No NA

- MS-11 Are adequate outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving channels? Is there a schedule indicating:
 Dimensions of the outlet protection? Lining? Size of riprap?
 Cross section and slope of the channels? Type of lining? Size of riprap, if used?
- MS-12 Are in-stream protection measures required so that channel impacts are minimized?
- MS-13 Are temporary stream crossings of non-erodible material required where applicable?
- MS-14 Are all applicable federal, state and local regulations pertaining to working in or crossing live watercourses being followed?
- MS-15 Has immediate restabilization of areas subject to in-stream construction (bed and banks) been adequately addressed?
- MS-16 Have disturbances from underground utility line installations been addressed?
 No more than 500 linear feet of trench open at one time?
 Effluent from dewatering filtered or passed through a sediment-trapping device?
 Proper backfill, compaction, and restabilization?
- MS-17 Is the transport of soil and mud onto public roadways properly controlled? (i.e., Construction Entrances, wash racks, transport of sediment to a trapping facility, cleaning of roadways at the end of each day, no washing before sweeping and shoveling)
- MS-18 Has the removal of temporary practices been addressed?
 Have the removal of accumulated sediment and the final stabilization of the resulting disturbed areas been addressed?
- MS-19 Are properties and waterways downstream from development adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity and peak flow rate of stormwater runoff? Have adequate channels been provided on-site?

PROJECT NAME: _MVP Spread 11_____ **SUBMITTAL#:** _____

PLANS DATED: ___2/3/18_____